WAYNE STATE UNIVERSITY DISMISSAL PROCEEDING - FACULTY WITH TENURE

In the Matter of:

WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE,

Employer,

Volume 2

and

RICHARD BRUCE NEEDLEMAN, Ph.D.,

Respondent Tenured Faculty Member.

Transcript of the proceedings held in the above-entitled matter before CHAIRPERSON JAMES STATHAM and a Committee, at Scott Hall, Wayne State University, Detroit, Michigan, on Thursday, March 30, 2017, commencing at or about 9:00 a.m.

HEARING COMMITTEE MEMBERS:

UNIVERSITY PANEL:
Jennifer Condon
Jose A. Rico-Ferrer
Lisa ZeWinters

SCHOOL OF MEDICINE PANEL:
Donald Kuhn
Philip Philip
Samiran Ghosh

(Continued)

Page 240

APPEARANCES: (Continued)

MS. LINDA M. GALANTE (P35914)

Associate General Counsel

Office of the General Counsel

Wayne State University

4259 Faculty Administration Building

Detroit, Michigan 48202

313.577.2268

(Appearing on behalf of the Employer)

MR. GORDON A. GREGORY (P14359)

Gregory, Moore, Jeakle & Brooks, P.C.

65 Cadillac Square, Suite 3727

Detroit, Michigan 48226

313.964.5600

(Appearing on behalf of the Respondent)

Reported by: TAMARA A. O'CONNOR

CSMR 2656, CER 2656

WSU School of Medicine v AAUP Richard Needleman, Ph.D., Volume 2

	Page 241
TABLE OF CONTENTS (Volume 2)	
Witness	Page
Virginia Delaney-Black (Resumed)	
Cross-Examination by Mr. Gregory	243
Redirect Examination by Ms. Galante	281
Re-Cross Examination by Mr. Gregory	284
Daniel A. Walz	
Direct Examination by Ms. Galante	292
Cross-Examination by Mr. Gregory	324
Redirect Examination by Ms. Galante	327
Charles James Parrish	
Direct Examination by Mr. Gregory	339
Cross-Examination by Ms. Galante	364
Richard B. Needleman	
Direct Examination by Mr. Gregory	380
Cross-Examination by Ms. Galante	447
Redirect Examination by Mr. Gregory	474
Exhibits Marked	Received
Employer's Exhibit 16 308	308
(BMB 7010 SET Scores, 2011-2015)	

WSU School of Medicine v AAUP Richard Needleman, Ph.D., Volume 2

			Page 242
1	Exhibits (Volume 2) (Continued)	Marked	_
2	Employer's Exhibit 17	314	319
3	(BMB 7330 SET Scores, 2011-2015)		
4	Employer's Exhibit 18	370	371
5	(Hornberger Arbitration Decision))	
6	Respondent's Exhibit 6	381	382
7	(Needleman Curriculum Vitae)		
8	Respondent's Exhibit 7	382	384
9	(Expanded NIH Biographical Stater	ment)	
10	Respondent's Exhibit 8	401	403
11	(Nature Magazine Article, 10/'16))	
12	Respondent's Exhibit 9	407	412
13	(Grant Application)		
14	Respondent's Exhibit 10	413	414
15	(Publications in Refereed Journal	ls)	
16	Respondent's Exhibit 11	417	417
17	(Rebuttal of Charges)		
18	Respondent's Exhibit 12	422	425
19	(List of Citations)		
20	Respondent's Exhibit 13	433	434
21	(Appendix to Rebuttal)		
22	Employer's Exhibit 19	478	478
23	(2014/15 Promotion and Tenure Fac	ctors)	
24			
25			

Page 243 Page 245 1 1 Detroit, Michigan would have come from Selective Salary. 2 2 Thursday, March 30, 2017 - 9:05 a.m. Q Now would you please look at Exhibit 9? 3 3 VIRGINIA DELANEY-BLACK Α 4 4 Q Did you prepare that? (At 9:05 a.m., previously sworn, 5 5 testified further as follows) A I did not prepare that. CROSS-EXAMINATION 6 Q Who did? 6 7 7 A Honestly, I don't know. It contains data that--BY MR. GREGORY: 8 8 Q Good morning, Doctor. It's good to see you again. well, honestly, I don't know who prepared that form. 9 Can you summarize for me your role in the process 9 Q Now do you know when it was prepared? 10 10 that resulted in the letters that were sent to, I A I do not specifically know what date it was 11 11 prepared, no. believe, some 30 people or perhaps more, and from 12 that point on? 12 Q Do you know, was it prepared for this particular 13 We have fragments of it from your 13 14 14 A I don't know if it was prepared for this hearing. testimony, but just tell us in general what you did. 15 1.5 Q Can you tell us why it has expanded the information A Well, I think I summarized that yesterday under 16 16 direct review. However, I was involved as an in Exhibit 8, which ends with 2013, and this goes 17 17 assistant to the Dean to independently review the back to 2010? 18 records, to advise the Dean and the Committee, and \boldsymbol{I} 18 My concern is the Committee is being 19 19 sat through the--some of the discussion with the presented with evidence that was not part of the 20 20 Committees--the Committee. I shouldn't make that dossier or part of the decision of the Dean to bring 21 21 plural. the charges. 22 22 Then I sat in at each of the meetings with A I don't know that one can actually say that. The 23 each of the individuals that got a letter, or I 23 information that was brought to the Committee was 24 should say most of those. There were a few that Dr. 24 extensive, and as I said, I read all of the -- I said 25 Sobel did on his own. 25 yesterday if I didn't say earlier today that I read Page 244 Page 246 1 1 O Anything else? all of the documents in Dr. Needleman's personnel 2 2 A If there is anything else that you wanted to know. files. 3 3 Q Right. You became Vice Dean in 2014, as I recall? So that information would have been 4 A That is correct. 4 available to the Committee, even if it wasn't on the 5 5 Q Now at that time did you initiate any processes with initial dossier that came to the Committee. 6 regard to alleged under-performing faculty? 6 Q Well, Doctor, you're not disputing the fact, are 7 7 A You asked if I initiated any? No, I did not. you, that the information does not appear on Exhibit 8 Q Did you have any responsibility at that time? 8 8, the dossier that Dean Sobel testified was 9 A I had responsibility for promotion and tenure in 9 utilized in these hearings? 10 10 2014. I did not have responsibility for the A It was one of the documents that was used in this 11 Selective Salary Program in 2014. 11 hearing. It's not the only document, sir. 12 Q Who did at that time? 12 Q Well, was Exhibit 8 used by Dr. Sobel and you in the 13 13 A Roberta Sanino (phonetic) in 2014. various meetings, the 20-minute meetings that were 14 MR. GREGORY: Linda, would you give the 14 held with faculty? 15 Doctor copies of Exhibit 8 and 9, please? 15 A Well, I believe Dr. Sobel yesterday indicated that MS. GALANTE: They are in the book here. 16 16 they weren't 20-minute meetings with the faculty, 17 17 8 is the dossier, and 9 is--okay. There you go. and at the time that we met with the faculty member 18 Q (By Mr. Gregory) Did you prepare the form that is 18 we had the most recent data that was available. 19 reflected in Exhibit 8, Doctor? 19 Q Did you have Exhibit 8 in your possession when you 20 A As I said yesterday, I did not. 20 had those meetings? 21 Q But you had some responsibility for its completion? 21 A Yes. That would have been one of the documents that 22 A No. I had responsibility for some of the data that 22 we had in our possession, yes. 23 went into the form. 23 O Did vou have Exhibit 9? 24 Q What data did you have responsibility for? 24 As it looks today, I can't say that I had that 25 A The Selective Salary documents. So anything that 25 document, but I had the data that existed in Table

Page 247 Page 249 1 1 Q And if it's not met? 2 Q How did you have it? How was it communicated to 2 A Then there is a penalty. 3 3 Q Sanction? All right. 4 4 A My office is the one that is in charge of Selective A But it is a requirement. It's stated in the 5 5 Salary, and so when I became Vice Dean in 2014 I contract. It's stated from the Provost's office. 6 6 took on all of the responsibility for all of that It's stated from my office. 7 7 **Q** Did the departmental Promotion and Tenure Committee 8 8 Q Are faculty required to attend the annual Selective recommend the dismissal of Dr. Needleman? 9 Salary Review? 9 10 A The Selective Salary Review is not a personal 10 Q Did the Salary Committee of the department make such 11 interview. The faculty members are required to 11 a recommendation? 12 submit dossiers to their individual departments that 12 A It's not in the purview of either of those are specified by the University and by the School of 13 1.3 committees to do so, sir. 14 Medicine. 14 Q So your answer to that would be no? 15 Those documents consist of a complete 15 A No. It would have been inappropriate. 16 C.V., a teaching portfolio--not a portfolio, a 16 Q Did the chair recommend dismissal? 17 teaching grid, and an annual review of all of their 17 A No, not this chair, the prior chair. 18 information. 18 Q Did you recommend dismissal? 19 That is actually in the contract under 19 A I was on the committee that assisted the Dean. It 20 Article XII, describes some of the process for 20 was the Dean that recommended dismissal to the 21 Selective Salary, but it's not an interview, so they 2.1 President 22 don't come to a meeting. 22 Q Did you make a recommendation to the Dean? 23 It's a meeting of the elected Salary 23 A I contributed to the recommendation that the Dean 24 Committee for the department that obtains this 24 made. 25 information initially from the faculty member. 25 Q And what was your contribution? Page 248 Page 250 1 Q Are there sanctions if a faculty does not cooperate? By providing him with the data, by providing him 2 2 A If a faculty member fails to participate, there are with my opinions. 3 3 sanctions, yes. Q Were others involved in that particular process? 4 Q What are those sanctions? 4 A Yes. As I've stated on several occasions, there was 5 5 A The sanctions have to do with if you--if the faculty a committee that discussed each of the faculty. 6 6 member does not contribute their required materials Q Can you name the others for us again? 7 7 in two out of five years, then they are sanctioned A Well, I think Dean Sobel listed them yesterday. 8 8 They included--I believe that John Vander Weg was by not getting an across-the-board raise for five 9 9 there. I believe that Lou Lessem was there, or an years, and they also clearly are not eligible for 10 10 merit because merit is judged based upon the attorney from the University. 11 11 information that is included. It included Vice Deans specifically 12 12 So the year that they don't participate related to their expertise. It also brought in 13 13 individuals that were not part of the committee, they get no merit, and if they don't participate two 14 14 out of five years, they don't get the across-thesuch as individuals that would know about the 15 15 board. teaching of the faculty, so individuals from Medical 16 16 They also, if they're tenured, don't Education came in. 17 17 So I believe that Dr. Walz came in. Mr. receive--as I recall, but I would certainly look at 18 18 the contract if I were asked this by a faculty Munson was there. The Chief of Staff--the Dean was 19 member--I think they don't get credit towards their 19 there. I personally did not keep minutes, so I may 20 20 sabbatical leaves. well be missing other members that were there. 21 2.1 Q Would you agree that effectively there is an option Q Can you name those that were on the medical team, I 22 in the faculty to waive a Selective Salary--22 think you mentioned, and also the Vice Dean, I take 23 A No. I would absolutely not agree with that. 23 it, other than yourself? 24 Q Why is that mistaken? 24 A I said that Vice Deans came in also to that meeting. 25 A It's a requirement. 2.5 Q What Vice Dean?

Page 251 Page 253 1 1 A I believe that Dr. Baker was there at times, and I than most faculty on this campus, and I saw no 2 believe that Dr. Hazelton also came in at times. 2 reason to meet with Dr. Needleman. 3 3 Q Did you find his conduct at the May 23 hearing to be Whether they were there for all of the meetings, I 4 4 would have to go back and look at the minutes. inappropriate? 5 5 MS. GALANTE: Hazelton? Did you mean A Well, you know, honestly, I had to read the minutes 6 6 Hazelton or Hazlett? of that meeting in order to remember exactly about 7 7 his conduct, because we were there to discuss the THE WITNESS: Oh, I'm sorry. Linda 8 8 Hazlett. facts, and so the conduct of the faculty was only 9 9 MS. GALANTE: All right. I just wanted to important in terms of their willingness to improve 10 10 correct the record. their outcomes in the future. 11 11 MR. GREGORY: All right. Thank you. So his conduct wasn't of concern 12 12 Q (By Mr. Gregory) Would you look, please, at specifically to me. 13 administration Exhibit 15? 13 Q Was it hostile, as has been suggested by another 14 14 15 15 A Oh, yes. It was quite hostile. I remembered it Q Would you consider this to be an academic 16 16 assignment? being hostile. I just couldn't remember exactly 17 17 what had happened. A Yes, I would. 18 18 Q Did you find that particularly unusual, in that a Q And could you be a little more specific as to why 19 19 that constitutes an academic assignment? man's career was on the line and they had already 20 20 A Well, for one thing it requires an up-to-date C.V. been charged in a March 23 letter with not 21 21 from the faculty member, which is an important performing and being threatened with dismissal? 22 22 requirement for the institution as part of the A It's not what happened with most of the faculty, no. 23 23 Q Were there others though that displayed similar accreditation, for example, of the University. 24 We are required to have information about 24 conduct in the meetings? 25 each faculty member that would be included in an 2.5 A There were a few. Page 252 Page 254 1 1 **Q** Some expressed outrage. Correct? up-to-date C.V. 2 2 So the University's accreditation process A I don't know if I would say "outrage." Some were 3 3 is dependent upon us having accurate information, distraught or distressed with the idea of being 4 should the accreditor decide to ask about a specific 4 called nonproductive, but there were very few of all 5 faculty member's activities, for example. 5 the people that we met with. 6 6 Q And that is your position, even though it provides Q Did numerous faculty express concern that there was 7 that you could be scored "DNP," "Did not 7 publicity about the letters they had received, that 8 participate"? 8 their colleagues knew about it? Indeed the whole 9 A No. It doesn't suggest that that is an option that 9 school knew about it? 10 faculty should consider. It says that that's what 10 A If their colleagues knew about it, it didn't come 11 11 the administration has to do when a faculty fails to from our office, sir. 12 12 Q Were you part of the decision to formulate and 13 13 Q Did you ever meet personally with Dr. Needleman distribute the March 23 letter that went to all the 14 14 regarding his performance? faculty? 15 15 A Prior to the meeting with the Dean? A I'm not sure--16 Q Yes. 16 MS. GALANTE: I think I'm going to object. 17 17 A No. I did not. There is no testimony that that letter went to all 18 Q Subsequent to the meeting with the Dean on May 23 of 18 faculty. 19 last year, did you meet with Dr. Needleman? 19 MR. GREGORY: Well, I'm sorry. All 20 A No. I did not. 2.0 faculty it went to. 21 21 Q Why not? THE WITNESS: You know, honestly, I don't 22 A I saw no reason to. The Dean did not ask me to. We 22 even recall. I doubt that I was part of that. 23 had the information. Dr. Needleman was very 23 Q (By Mr. Gregory) Was it to your knowledge the same 24 specific about what his thoughts were. 24 letter that went to those faculty who were selected? 2.5 He was adamant that he was more productive 25 A I have no idea, sir.

Page 255 Page 257 1 Q If I told you that that was the case, would you have 1 A Well, in order to maintain a national/international 2 any reason to disagree? 2 reputation that would be successful in getting 3 A I would want to see it, sir. 3 grants, one has to continue to publish. 4 4 Q For the record, Doctor, of course we're looking at So I would certainly say that his 5 Joint Exhibit 2, the March 23, 2016 letter from the 5 reputation at NIH, for example, would not qualify 6 Dean to Dr. Needleman. 6 for having a current national reputation. His prior 7 7 It is my understanding, since I attended a reputation certainly exists and never goes away, and 8 8 number of the meetings with you and the Dean, that no one--neither the Dean nor I--are trying to say 9 everyone got the same letter. You certainly must 9 that he was not a superb investigator during his 10 10 remember that, do you not? beginning years here at the University. 11 A You referred to a letter that was sent to all of the 11 Q Respectfully, Doctor, does Dr. Needleman have or 12 12 faculty. have not a national and international reputation at Q Well, I'm sorry. Let me correct myself. I'm 13 13 this time? Yes or no? 14 talking about the letter that was sent to those who 14 A He had a national reputation. Now his reputation is 15 15 were not productive. sullied by having had a long period of 16 A All right. So that is a different--certainly a 16 nonproductivity. 17 different question. So I am aware of the letter 17 MR. GREGORY: Would you hand the Doctor 18 that was sent to each of the faculty that got it. I 18 Exhibit A6, please? 19 19 was not the one that created this letter. MS. GALANTE: A6? 20 20 This is from the Dean's office, and so no, MR. GREGORY: A. Administrator--21 21 I did not prepare this letter. REPORTER: We have called them "Employer." 22 22 Q But you don't disagree, the same letter was sent to MR. GREGORY: Oh, is that what we're 23 everyone who was alleged to be an under-productive 23 doing? Oh, I'm sorry. 24 faculty? 24 MS. GALANTE: I just didn't--it didn't 25 25 A Well, I have just testified that I didn't resonate with me, A6. Page 256 Page 258 1 present--I didn't create this letter. I can't tell 1 Q (By Mr. Gregory) Doctor, directing your attention 2 2 you that it went to every faculty member, because I to Employer Exhibit 6 in evidence, are these the 3 3 didn't create it and I don't recall. Factors that it is claimed should have been followed 4 Q I take it then you were not part of any discussions 4 and implemented by Dr. Needleman? 5 5 leading to how it would be distributed? A These are the factors from the School of Medicine, 6 6 A I don't recall that I was at this time. yes. 7 7 Q Do you have any knowledge or information as to why Q And it would be your position that he did not 8 the Dean didn't simply contact affected faculty and 8 comply, fully at least, with the factors set forth. 9 ask them to come in for this chat, if you will, to 9 Correct? A He did not comply. 10 10 decide about options, rather than send the same 11 letter to everyone? 11 Q Would you turn, please, to the last page, page 15? 12 12 A I don't know. I note the Factors were signed and dated March 30, 13 Q Does Dr. Needleman have a national and international 13 2016, so that is a week after Dr. Needleman had 14 reputation in his field? 14 already been charged with alleged nonproductivity. 15 A The Dean testified yesterday that Dr. Needleman's 15 So I don't see how these Factors could 16 research career was exemplary in the earliest parts 16 have possibly applied to him. 17 of his career and that it wasn't until 2000 that 17 A There is a previous document for the previous year. 18 things began to deteriorate, or after 2000. 18 So what you have given the Committee then is not 19 So yes, the Dean testified that his early 19 accurate. This is not the same document, and I have 20 work certainly provided him with a national no idea what the difference is, because it is not my 20 21 21 reputation at that time. obligation to do so, but this is not what was in 22 Q Thank you, Doctor. We know what Dean Sobel said, 22 effect with Dr. Needleman, is it? 23 but I'm asking you, do you know whether or not 23 A They were certainly in effect when Dr. Needleman met 24 currently Dr. Needleman has a national and 24 with the Committee and when the Dean made his 25 2.5 international reputation? decision about recommending to the President the

Page 259 Page 261 1 dismissal of Dr. Needleman. 1 A So the requirements for faculty are defined, both in 2 2 Q Doctor, bear with me, but Exhibit 6 was not in the contract and in the Factors. So the individuals 3 3 effect with Dr. Needleman? that would be appropriate to make that decision is 4 4 A I would disagree. It was not in effect--it was in the Dean and the President. 5 effect by the time the Dean met with Dr. Needleman. 5 Q And in their discretion, I assume? 6 It was in effect when Dr. Sobel made his 6 A And based--no, not just discretion. Based upon what 7 7 recommendation to the President, and it is in effect the requirements are for the school or college or 8 8 today. 9 Q So six weeks later the Dean met with Dr. Needleman, 9 Q Where does it say--so the faculty knows--that they 10 and you are saying in that period of time then Dr. 10 are on an academic assignment and they must perform 11 Needleman was supposed to comply with this 11 it competently? 12 particular document. Is that your position? 12 A I think anyone who is employed knows that there are 13 A No, not in six weeks. The Factors and Guidelines as 13 going to be expectations from the employer. 14 identified in the contract may be altered every 14 Q So everyone knows about the employer's expectations? 15 year, and the Executive Committee of the Faculty 15 A No. You asked would anyone know that they were 16 Senate does that determination, as to whether the 16 going to have expectations in your first question. 17 Factors need to be revised. 17 In your second question, I think you are asking are 18 Those Factors are available to every 18 there specifics that they would know. 19 faculty member on the website for the Office of 19 Q In the last--let's even go back ten years. Has Dr. 20 Faculty Affairs. When they get changed, they also 20 Needleman performed academic assignments? 21 get changed on the website. 2.1 A He has done some publishing in the last ten years. 22 We leave off actually two sets of Factors, 22 The Dean testified, and I think you have his C.V. 23 so if you look today, because the Promotion and 23 available in the documents that indicate that he did 24 Tenure Committee is still meeting at the University, 24 do some publishing. there would be two documents, and I believe that the 2.5 25 He also taught 15 credit hours a year--not Page 262 Page 260 1 1 Dean testified yesterday that there were very little credit hours, I'm sorry, 15 contact hours. So that 2 2 changes that were made between one year and the next means each year it was 12 or 15 that he did. 3 3 in the Factors. So those were some of the assignments that he did. 4 Q Were you part of the decision to charge Dr. 4 Is that what is expected of a tenured 5 5 Needleman with "failure to perform academic faculty member at the level of Professor? 6 6 assignments competently"? Absolutely not. 7 7 A So you're talking about the Dean's recommendation to Q Now when he was on campus, as far as you know, he 8 8 was performing academic assignments? the President, sir? 9 Q Well, I'm talking about that, the charge, where yes, 9 A I don't know what he did when he was on campus. 10 10 it was made to the President. Q You don't know. Do you have any evidence that those 11 A All right. 11 academic assignments he did perform were not 12 Q Were you part of that decision? 12 performed competently? 13 A That was a decision made solely by the Dean. The 13 A Yes. His C.V. was never kept up-to-date. He says 14 14 Dean obtained advice, but he made that decision in his C.V. that he doesn't know exactly what he 15 solely on his own. 15 did, that the administration should be recording 16 16 Q Do you agree that that charge is not defined in the 17 17 **Board of Governors' statute?** That's not a competent way to maintain a 18 18 A I don't know what you mean. record of what you have done. He did not 19 Q Well, you're familiar, of course, with the 19 consistently comply with the requirements for 20 20 definition. I'm asking is there a definition submitting Selective Salary documents. He got poor 21 2.1 anywhere of what constitutes failure to complete an teaching scores. 22 academic assignment competently? 2.2 He failed to--he had two five-year periods 23 A I'm still not sure I know what you are asking me. 23 where he had no grants submitted, and yet he was a 24 Q Who decides whether a faculty has not performed an 24 tenured full professor at the time. 25 academic assignment competently? 25 Q Was all that communicated to him at any time?

6

9

15

16

17

21

1

2

9

10

11

12

13

25

member.

Page 263

A He got Selective Salary scores annually, and we 2 heard testimony yesterday from his chair, his 3 previous chair, that he certainly got information 4 from the prior chair about not doing his assignments 5 competently.

> He also got teaching scores, and we heard yesterday from his previous chair that the teaching scores were poor and there were complaints from the

- Q It seems to me you are telling us many things that are not in the charges. It appears to me he was basically charged and would be dismissed because he didn't raise any grant money. Isn't that correct?
- A Would you re-state that question?

1

6

7

8

9

10

11

12

13

14

22

23

24

2.5

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

- 15 Q Wasn't the big problem that he did not produce 16
- 17 A That was one of the problems, so he did not have 18 publications that would support grants, even going 19 forward in the future. He had not submitted for 20 grants, not just that he didn't get funds, but he 21 had not submitted.

When someone doesn't have funding and their effort is supposed to be for a grant submission, that is certainly an academic assignment that is not being competently done.

Page 265

- 1 Q Let me ask my question again. Did you personally 2 take any action as Vice Dean in charge of research 3 and contact him with your concerns?
- 4 A I'm not the Vice Dean responsible for research. I'm 5 the Vice Dean of the faculty.
 - Q You had no responsibility then?
- 7 A I didn't say that, sir. I said that I wasn't the 8 Vice Dean of research.
 - Q Do you know, why didn't you talk to him?
- 10 A As I said, when Dr. Needleman's dossier came to me, 11 it was in the context of this process. The Dean had 12 already started a process, and it was the Dean's 13 process, so I did not meet individually with any of 14 the faculty.
 - Q Were you involved with other faculty whose publication and grant record was less than productive, to use the term utilized by the Dean?
- 18 A I meet with many faculty over the course of the 19 year, some of whom have problems with their 20 productivity.
 - Q And how many have been placed on mentoring?
- 22 Well, the mentoring, we actually in every Letter of 23 Offer we recommend to the faculty, we require of the 24 faculty that they obtain a mentor when they start 25 here at the School.

Page 264

He was not publishing in a consistent manner that would permit future grants. So we saw yesterday that his publications were in various areas, liver failure, CNS damage, central nervous system damage.

These are not--changing one's topic is exactly something that when you change your topic you need a focus to go forward, and the focus that is described in the Factors that is expected of a tenured faculty member was not present.

So it's great to change your topic if that is what you want to do, but you need to focus on something so that you can be productive in terms of

- Q When did you learn his focus in research had been
- A In reviewing his C.V. and in meeting with him.
- 18 Q And when was that, prior to March 23 of last year? 19 Α Yes.
- 20 Q What action if any did you take to counsel with him 21 or determine the prospect of his new research 22 leading to publications and grants?
- 23 A Well, the Dean had already initiated a committee to 24 review faculty, so I participated in that committee, 25 and that's what I did.

So we recommend mentoring to every faculty

Page 266

- 3 Q Would you repeat that? I was interrupted, Doctor. 4
- 5 A I said the Letter--the current Letters of Offer 6 identify that someone should find a mentor here at 7 the School to help them in the process. We 8 recommend that every faculty have a mentor.
 - Q With regard to those faculty called in for the meeting with the Dean that you attended, how many were placed on what could be called "expectations"?
 - A I don't recall the number.
 - Q Maybe ten? Does that sound about right?
- 14 A I would say it's somewhat over ten, but I don't 15 recall specifically the number.
- 16 Q Tell the Committee, if you will, please, what are 17 these expectations and your role in administering 18
- 19 A The expectations as Dean Sobel stated yesterday were 20 very specific to each faculty member. So some 21 faculty members who expressed a desire to increase 22 their research productivity were given assistance 23 about how they could potentially increase that 24 research success.

We met with--"we" meaning typically Julie

Page 267 Page 269 1 1 Serdar (phonetic) and myself--met with the chair and evidence of a poor performance in his record. That 2 2 the faculty member to go over the expectations. was one of the major things that came out of that 3 3 Julie and I met with the chairs in advance discussion with Dr. Needleman. 4 4 to discuss the potential for what that could be, and He, as I have said earlier today, and the 5 5 those individuals that were interested in doing more Dean said yesterday, he compared himself to the rest 6 6 research and being more successful about their of the faculty, I believe at the School, saying that 7 7 he was one of the most productive members of the research were given advice, and they meet regularly 8 8 with their chairs, and the chairs report back to faculty at the School. 9 Julie about their success. 9 It is very hard to get someone to change 10 10 Q What criteria were used in determining who would be their methodology when they don't see that there is 11 11 placed on expectations? a problem, so that was one of the issues. 12 12 A The Dean chose what the outcome was after the Another issue was that he had no focus of 13 meetings with the faculty member. 13 research in the last decade. He had no publications 14 14 Q Were you involved in that decision? in the last decade that would support a substantial 15 15 A Only to the extent that I gave recommendations to external grant funding. 16 16 the Dean, as did others. It was clear that he did not want to work 17 17 Q What criteria did you use to make a positive with a mentoring committee, meaning either his 18 18 chair, which is what we had asked, that the faculty recommendation that a faculty go on expectations? 19 19 member identify colleagues that could be helpful, MS. GALANTE: First of all, I want to 20 20 place an objection. That has been asked and that the chair would work with them, and it was 21 21 quite clear that he did not want to do that. answered several time. The Dean explained how he 22 22 Q Did he tell you or the Dean in this meeting that he looked at each case individually, and I think that 23 23 had no interest in an expectation procedure? she has, but I just want to note that objection. 24 MR. GREGORY: Well, the Doctor has 24 He told the Dean and I that he was the better judge 25 25 of where he was in his career than either of us. testified--we all know what the Dean said, and she Page 268 Page 270 1 1 Q Let me try my question again, Doctor. Did he tell has been identified as a person implementing the 2 2 program, so-you that he had no interest in expectations? 3 3 CHAIRPERSON STATHAM: I will overrule it A I don't recall specifically that that question was 4 and allow the question. Go ahead. 4 addressed in the way that you have posed it. 5 Q (By Mr. Gregory) What criteria did you use then, 5 Q Did he tell you that he was engaged in research with Dr. Brusilow--6 6 Doctor, to determine who would get expectations and 7 7 who would not? 8 A Well, I didn't determine that. The Dean determined 8 Q That would lead to publications once the data had 9 it. So my advice to the Dean was based upon whether 9 been secured? 10 10 there were questions or comments. 11 We looked at the publication record 11 He did. Did you make any inquiry about the 12 12 substance of that research, of the timetable of that because individuals that had not been publishing in 13 a focused way for over a decade were unlikely to be 13 research, the prospect of grants deriving from that 14 14 successful in getting any grants. research? 15 15 The expectation was that they had to be A The Dean and I both felt that this was nothing interested in improving their performance. They had 16 16 different than what Dr. Needleman had been doing. 17 17 to be willing to put the work into doing it. Q How could you reach that conclusion if you didn't 18 18 They had to have some preliminary data, ask him what the nature of the research was and the 19 not all the preliminary data but some preliminary 19 timetable? I have trouble understanding that, 2.0 data that would allow them to be successful at 20 21 writing a grant and having a successful grant. 2.1 A Well, we had also-the Dean had also met with his 2.2 So that was one of the primary--and they 22 chair. The Dean had others that were available to 23 had to be working on academic assignments. 23 him, and the reality is that we have a ten-year 24 Q Why wasn't Dr. Needleman offered expectations? 24 period of time, more than a ten-year period of time 25 A Well, Dr. Needleman was quite clear that he saw no 25 of nonproductivity.

Page 271 Page 273 1 1 The Dean is well aware, as many members of have seen this many times, Doctor, and as lawyers 2 2 the Committee were, of the inability of someone to are fond of saying, it speaks for itself, but 3 starting with the first paragraph the Dean speaks get a grant after such a long period of time of 4 4 being unproductive. about the productivity of our faculty. 5 5 Q Did you have any expertise in the area of The last sentence talks about the lack of 6 6 research-scholarly and research productivity, and then in the 7 7 second paragraph it talks about not maintaining a 8 8 Q Then engaged in by--no? sufficient level of productivity, and then says in 9 9 effect, "If things don't shape up, we're going to 10 Q So did the Dean? Do you know? 10 bring charges." 11 11 A No. MS. GALANTE: Well, I'm going to object to 12 12 Q How would you make an assessment then that the your characterization. You are now characterizing research was not going to ultimately be productive 13 13 this letter. The document speaks for itself. There 14 14 and produce grants, as well as publication? is nothing in that letter that says, "If you don't 15 15 A It had not. shape up," so--16 16 Q It had not, but you had not inquired about the MR. GREGORY: All right. Let me strike 17 17 timetable? that. 18 18 A The timetable of more than ten years without a grant Q (By Mr. Gregory) But it does go on to tell the 19 19 and without a focused research project. faculty that if they fail to perform academic 20 Q How many other faculty--20 assignments that could be a consequence of further 21 21 A I wasn't finished with my statement, sir. action, and then that the Dean, of course, wants to 22 22 Q I'm sorry. Pardon me. discuss whatever options there might be. 23 23 A So a ten-year timeframe is more than adequate to see Now I'm concerned about the frequent 24 that things had not been productive. 24 reference to productivity, and I don't believe that 25 25 Q How many other School of Medicine faculty were is set forth in the Promotion and Tenure Factors, is Page 274 Page 272 1 1 treated differently in terms of not being offered it? 2 expectations but having dismissal charges filed 2 A The word "productivity" does not come in the 3 against them? 3 4 MS. GALANTE: I want to place an objection 4 Q In terms of the School of Medicine, what is 5 5 to the characterization of that question, that other productivity, and what are the expectations of 6 6 faculty were treated differently. I don't think productivity? 7 7 there is any foundation for that. A Well, the expectations are well-specified in the 8 CHAIRPERSON STATHAM: I will overrule you 8 Factors. For a Research Educator, Full Professor 9 and allow the question. Go ahead. 9 with tenure at the School of Medicine, it is to have 10 10 a focused research program that is successful in Q (By Mr. Gregory) How many others were not given an 11 11 opportunity at self-correction? terms of scholarly publications and research 12 12 external funding, and those are specified. A No one was given an opportunity at self-correction. 13 13 It also specifies teaching, and it So the individuals that got expectations were 14 14 expected to meet with their chairs, and there were specifies service assignments. 15 Q Does it have anything to do with grant income? 15 very specific goals and measures put in place to try 16 A It says "external funding," substantial--let's go 16 and help them be successful. 17 Q Well, how many were not offered expectations besides 17 back to the document. 18 18 Q All right. Dr. Needleman? 19 19 A So are you asking how many got the letters from the And then I won't mis-quote it. Q What document are you referring to? 20 20 President? 21 21 Q Yes. I think so. A The Factors. It says: 22 22 A All right, and honestly I don't know. I don't "Research accomplishment must be 23 23 recall the number. I think the Dean testified to rigorous and original or novel with 24 some fundamental significance or impact." 24 that yesterday, but I'm sorry. I don't remember. 25 Q Where are you reading? 2.5 Q Will you please look at Joint Exhibit 2? I know you

Page 275 Page 277 1 1 A On page 5. (Reading): Selective Salary they would get their score 2 "Publications of original investigations 2 indicating whether they were identified as 3 in peer-reviewed journals is required. 3 under-productive. 4 Research accomplishments will result in an 4 So the Selective Salary scores plus 5 5 appropriate (E.G., national or international) talking to their chairs would be evidence of their 6 recognition, leadership stature, and eminence 6 expectations, or whether they are meeting 7 7 in the peer group that is appropriate for expectations, but certainly the Factors are there on 8 8 the area of research. Evidence of eminence the website for anyone who wants to read them to 9 shall include continued success in obtaining 9 know exactly what was expected of them. 10 10 substantial competitive investigator-MR. GREGORY: Linda, would you give the 11 initiated extramural funding at the national 11 Doctor Respondent Exhibit 5, please? 12 or international level." 12 MS. GALANTE: I have to find it. I can go 13 That would be what the School's 13 make a quick copy. Just for the record I want to 14 expectations were. That would be what Dr. Needleman 14 again object to the use of this document because 15 15 was supposed to produce for research. Then it goes Dean Sobel testified that this was a draft, that he 16 on to talk about teaching, and then it also goes on 16 has not yet approved, and also indicated that there 17 17 to talk about service on page 6. were some changes that he anticipated he would be 18 18 Q Look at page 5. What does the caption say at the making before approving it. 19 top of the paragraph you just read? 19 Q (By Mr. Gregory) Doctor, for the record--20 A Yes. It says: 20 CHAIRPERSON STATHAM: Isn't this like, 21 "Requirements for Appointment or 21 this exhibit--Mr. Gregory? 22 Promotion to Professor in the Research 22 MR. GREGORY: For the record--I'm sorry? 23 Educator Track,"--23 CHAIRPERSON STATHAM: What is your 24 oh, I don't have my copy of the contract. 24 response? She objected. 25 MS. GALANTE: You do. It's here. I was 25 MR. GREGORY: Oh, yeah. As I believe I Page 276 Page 278 1 1 using it. Sorry. indicated yesterday, the form was obtained from a 2 2 THE WITNESS: Okay. So under the member of the faculty. Several of the faculty have 3 3 Selective Salary Program it also says on page 25 received the form and are of the impression they are 4 that these are the criteria that are used to judge 4 to complete it. 5 5 the faculty ongoing. It says on page 25--this is Despite the Dean's testimony that he has 6 Article XII--6 not signed off, it is my understanding it is going 7 7 "In recommending Selective Salary to be used, and I think it's relevant to have the 8 increases the Committee shall be guided 8 Committee hear about it now, rather than resume the 9 by unit factors and general University 9 hearing at another time. 10 criteria and Factors for Tenure and 10 CHAIRPERSON STATHAM: Overruled. I will 11 11 Promotion." allow it. 12 Q Is productivity a University Factor? 12 MS. GALANTE: He did not--can I just add 13 13 A As I said, productivity is an English word that says for the record, he did not say that it would be used 14 that we are to produce. The Factors identify what 14 in this current form. 15 the faculty member is to produce, based upon their 15 CHAIRPERSON STATHAM: Okay. I'm going to 16 track, their rank and their tenure status. 16 overrule you and allow it. 17 17 The word "produce" may not be in the Q (By Mr. Gregory) Now, Doctor, will you be 18 Factors, or to my knowledge, I don't know whether it 18 responsible for implementing this form if it is 19 is in the University documents. 19 finally approved by the Dean? 20 Q How would the faculty know that productivity was a 20 A No. 21 certain number of, say, publications, a certain 2.1 Q Who will be, if you know? 22 number of grants, amount of grants? Isn't that 22 A I don't know. 23 something that they should be apprised of? 23 Q Did you have any responsibility in the development 24 A The faculty get their Selective Salary scores 24 of the form? 25 annually, and so if they are participating in 25 A In the development of the form? No.

Page 279 Page 281 1 1 Q So, Dr. Delaney-Black, would you consider--you're a Q Have you seen it previous to today? 2 2 tenured faculty member. Correct? A I'm not sure I saw this version, but I have seen 3 previous versions, if not this one. 3 4 4 Q Would you consider yourself to be a professional? Q Isn't this a form of post-tenure review? 5 5 MS. GALANTE: Objection. You haven't Α 6 6 Q And would you consider all faculty in this defined what you mean by "post-tenure review." 7 MR. GREGORY: Well, she knows what I mean 7 University to be considered professionals? 8 8 by "post-tenure review." A I do. 9 MS. GALANTE: Well, I don't know. There 9 And as a professional, is it the expectation by both 10 10 is--I have five articles in my--on that whole topic faculty and the administration that a faculty 11 11 that are lengthy. It's a subject of great debate, member's work would be self-motivated? 12 and unless you are giving her a definition, how is 12 MR. GREGORY: Objection, leading. 13 she going to answer the guestion? 13 CHAIRPERSON STATHAM: I think that is a 14 14 leading question. Could you rephrase that? MR. GREGORY: Well, she hasn't said that 15 15 she didn't understand the question, so I take Q (By Ms. Galante) What is your expectation, what is 16 16 exception to you signaling the witness. your understanding of expectations, both by faculty 17 17 and the administration in terms of how and when a Q (By Mr. Gregory) Do you understand what 18 18 faculty member initiates their academic assignments? "post-tenure review" is? 19 19 A Why don't you describe to me what you mean by A Well, each faculty is given the broad Factors and 20 20 "post-tenure review"? Guidelines to implement in their own research area 21 21 Q No. I am asking the questions, unfortunately. for tenured research, or for a tenure-track faculty. 22 22 A Then I'm not sure what you mean by "post-tenure So they would be expected to develop a 23 23 review." research focus. They would be expected to 24 Q Arguendo, hypothetically this form is distributed to 24 understand what was required of them and to comply 25 with what the University requirements are, which for School of Medicine faculty, perhaps with the 25 Page 280 Page 282 1 1 deletions mentioned by the Dean. What will be the non-tenured faculty would include an annual review. 2 2 disposition of it, if you know? For tenured--and in addition, for tenured 3 3 A I have already said that it didn't come from my faculty and non-tenured faculty, completion of the 4 office, and I don't know what the plans are. 4 Selective Salary Program, looking at E-mail from the 5 5 Q You don't. Are you aware that the form when University and from the School of Medicine to inform 6 6 completed and filed would be subject to public them about things that were happening. 7 7 disclosure under the Freedom of Information Act? So it would require a great deal of 8 8 A I don't know. recognition of their responsibility for handling 9 Q You don't know. Is that a concern? 9 their career and their success in their career, 10 10 A As I said, I have not been involved with the form. taking advantage of the opportunities that the 11 11 I don't know whether it would be available for University offers to improve their teaching, to 12 12 public information, and so I would leave that to improve their research skills, to go to grant-13 13 Legal. writing. So it is a very self-motivated career. 14 14 Q Is that going to be looked into, do you know? Q You were questioned by Mr. Gregory on cross-15 15 A I have no knowledge of anything about this form. examination about whether or not you participated in 16 May I give this back? 16 the Dean's final decision to recommend dismissal. 17 17 Q Oh, yes. Thank you. The question I have for you is, do you 18 MR. GREGORY: I have no further questions. 18 agree with the Dean's decision to recommend 19 Thank you, Doctor. 19 dismissal in Professor Needleman's case? 20 CHAIRPERSON STATHAM: Anything on 20 21 21 Q Counsel on cross-examination also asked you a bit redirect? 22 MS. GALANTE: Yeah. I do have some 22 about Professor Needleman's national reputation and 23 redirect. 23 citations to his work. 24 REDIRECT EXAMINATION 24 My question for you is, are citations to 25 BY MS. GALANTE: 2.5 one's historical work one of the factors that the

Page 283 Page 285 1 1 current productivity. Does that help your--with School of Medicine looks at as established, both in 2 2 the School of Medicine Factors and the contract, in your question? 3 3 measuring a faculty member's productivity, or Q No. I'm asking you. You used the phrase, "adequate 4 4 productivity." Correct? Do you remember it? whether or not they're meeting--what level they're 5 5 at in terms of their scholarship? 6 6 A No. and specifically the Factors talk about evidence Q All right, and my question is, is that the same as 7 7 of eminence requires continued success in obtaining scholarship, or different? 8 8 competitive investigator-initiated grants. A You know, honestly, your question doesn't make 9 So citations from work from previous 9 sense. That's why I tried to rephrase my answer, 10 10 years, decades previously, would not be considered previous answer. 11 as adequate productivity. 11 Q That's all right. I'll see if I can make better 12 Q So my one final question is about the School of 12 sense out of it. Is "adequate productivity" **Medicine Promotion and Tenure Factors that is** 13 13 different from "scholarship"? 14 Exhibit 6, the administration's Exhibit 6. 14 A Well, we talked about everything that a faculty 15 Counsel asked you about the fact that this 15 member has to do, so I'm not sure why or how you 16 was dated March 30TH of 2016, and I take full 16 compute adequate productivity to scholarship. They 17 responsibility for the copy that was submitted as an 17 don't seem to make sense in a sentence to me. 18 exhibit. I took this because this was the document 18 Q If my work is cited numerous times by colleagues and 19 that was produced to Mr. Gordon under his request. 19 others in the field, isn't that evidence of 2.0 However, you work with these documents on 20 scholarship? 21 a regular basis in your job. Is that correct? 2.1 A No. That is absolutely not evidence of scholarship. 22 A That is correct. 22 Why is that absolutely not? 23 Q Are you aware of any significant changes between 23 A So it's evidence of prior scholarship, decades ago. 24 last year's Factors and this year's Factors? 24 The citations are--there is--and again, I've 25 MR. GREGORY: Objection. The best 25 testified to this. The Dean testified to this, and Page 284 Page 286 1 evidence would be the Factors. 1 I can testify again. MS. GALANTE: And I will get a copy of 2 2 We all agree that Dr. Needleman was an 3 3 them and submit it. eminent scientist with a significant body of 4 CHAIRPERSON STATHAM: Overruled. Let her 4 research that he did over a period of time, but it 5 5 is not adequate to do something in the past and not 6 6 THE WITNESS: There are no substantive do--continue to work. 7 7 changes for Research Educator faculty that are So the Factors are clear. The 8 tenured professors. The expectations are still the 8 expectations are clear. Faculty cannot stop working 9 9 and think that their prior work is an adequate same. 10 MS. GALANTE: And before I rest, I will 10 evidence of why they are currently productive. 11 11 get a copy of last year's and offer it as an Dr. Needleman--and it appears you--think 12 exhibit, so that if the Committee wants to compare 12 that that is adequate. It is not. It is not at 13 13 word-for-word and see if there are any changes they 14 14 Q Do you personally know how many citations Dr. 15 15 Needleman had after 2010? I just want to go through my notes 16 A The citations refer to all of the citations. They 16 quickly, and then--I think that's all I have. 17 17 don't describe the citations--so I'm sorry. CHAIRPERSON STATHAM: Mr. Gregory? 18 18 MR. GREGORY: Yes. Q Are you finished? 19 No. I wasn't finished. I thought I was being 19 **RE-CROSS EXAMINATION** 20 interrupted, so--20 BY MR. GREGORY: 21 Q I don't think I did. Sorry. 2.1 Q Doctor, when asked about citations, you indicated in 22 All right. So the citations refer to what has 22 your attorney's question that was not adequate 23 happened over time. So, for example, in my field of 23 productivity. What is the difference between 24 research, one of the most cited publications is a 24 adequate productivity and scholarship? 25 paper that never actually got published. 25 A So let me revise my statement. It's not evidence of

Page 287 Page 289 1 1 It's still somebody's dissertation, and that there is an unproductive Factor. 2 2 MS. GALANTE: It's a way of describing it's how you measure economic status of an 3 3 somebody's record. It doesn't mean that we have now individual. That was published, I think in 1975. 4 4 Virtually every manuscript that I see in added a new Factor to the Factors that have been 5 5 my research area cites that 1975 publication, even well-established. 6 CHAIRPERSON STATHAM: Okav. Overruled. 6 though it's not a publication, that dissertation, 7 7 even though that individual didn't publish it. I'll allow the question. Ask the question again. 8 8 So that is certainly not scholarship. MS. GALANTE: If you remember the 9 9 That was one evidence in 1975 of scholarship, but question. Sorry about that. 10 10 THE WITNESS: Would you like to repeat the the number of citations would be in the hundreds of 11 11 thousands probably, because every social scientist question? 12 12 uses the Hollingstadt (phonetic). Q (By Mr. Gregory) Do you recall it? 13 You have to cite that dissertation, 13 A Would you like to repeat it, please? 14 14 Q I will if you-because that is the original citation. That is not 15 15 A Yes. Please. evidence of ongoing scholarship. 16 16 The School of Medicine requires, the Q Yes, certainly. No. I asked the difference between 17 17 University requires that all of us continue to do productivity and scholarship and how--the fact we 18 18 our job, not just the first decade of our employment know, the primary concern, it is almost Aurelian in 19 19 but throughout our employment as a faculty member. terms of some faculty are productive but others can 20 20 That is where lack of productivity comes be more productive. 21 21 in. It doesn't mean that somebody's work is still How do we know, Doctor, how to apply that? 22 22 not cited. It doesn't mean that that prior work A So there are no new Factors. The Factors are 23 wasn't outstanding, but it's not adequate. 23 created by the Executive Committee of the Faculty 24 Does that answer your question? 24 Senate, and the administration does not create the 25 25 Q No, but we'll move along. Factors. Page 288 Page 290 1 1 A I thought it did. The Dean receives the Factors from the 2 2 Q Let me conclude, Doctor, by asking then, we Faculty Senate, the Executive Committee, and then 3 3 apparently have a new Factor, if you will, called can accept those if he concurs. So there is no new 4 "productivity," "lack of productivity," 4 Factor. 5 5 "unproductive." I find it difficult to understand that if 6 6 MS. GALANTE: I just want to put-there are expectations of the faculty that are very 7 7 Q (By Mr. Gregory) It has been my privilege to well specified in the Factors and Guidelines that 8 8 individuals, members of the faculty would not be represent the faculty for many years, tenure cases 9 and the rest, and we have not actually been 9 expected that their response to the Factors and 10 10 Guidelines would be to create, to produce, to comply confronted with that Factor or that concept. 11 11 So that's why I'm asking the difference with those Factors. 12 12 So I find it very difficult to believe between productivity and scholarship and 13 13 that anyone cannot understand that if you don't expectations. It seems like a rather amorphous 14 14 situation to apply, and I'm wondering if you could comply with the Factors you are going to be labelled 15 15 enlighten us as to how the faculty is judged in as being unproductive or ineffective or whatever 16 terms of productivity. 16 other terminology one might wish to use, a similar 17 17 MS. GALANTE: Before you answer, I'd like synonym. 18 to place an objection, that there is no foundation 18 That's the best I can do, but there is no 19 in the record that productivity is a new Factor. 19 new Factor. We're not making widgets. 20 I think there have been numerous 20 Q Has the Executive Committee adopted the concept of 21 explanations given as to what it means, what that 2.1 productivity? 22 word means, but there is no evidence or foundation 22 A The Executive Committee has not created a new 23 to say, "We now have a new Factor." It's a way--23 Factor, and I don't recall that it has ever 24 MR. GREGORY: Well, Joint Exhibit 2 is, 24 discussed adopting the concept of productivity, 25 Counsel. The team alleges at three different times 25 because I think that most faculty members know that

Page 291 Page 293 1 1 we have to be productive and that the criteria for We monitor the application process through 2 2 being productive are the Factors. the individual departments, and we also coordinate 3 3 Q Has the Executive Committee been asked to take the Master's program in the School of Medicine. 4 4 action to indicate that grantsmanship is of prime Q Do you have supervision over then the teaching of 5 5 importance if one is going to retain their tenured courses in the graduate program? 6 6 faculty position? A We monitor the teaching of it, but individual 7 7 departments determine what courses they are going to A No one ever said or asked the Executive Committee to 8 8 say that grantsmanship was the primary--in fact, you teach, how frequently they are going to teach, and 9 can't get a grant without having preliminary data, 9 who the participant in that instructional material 10 10 publications, and a record that allows you to get 11 11 grants. So Department (A)--my department happens 12 12 So no one has ever tried to get the to be Physiology--our offerings are set by the 13 Executive Committee, to my knowledge, to make that a 13 Department of Physiology, but that program has to go 14 14 through the University's graduate school and has to stipulation. 15 15 MR. GREGORY: Thank you, Doctor. That's be certified by the University's Board of Governors. 16 16 all I have. Q Do you currently hold any other positions at the 17 17 MS. GALANTE: Thank you. University? 18 18 (At 10:21 a.m., witness excused) A I have a faculty appointment in the Department of 19 19 CHAIRPERSON STATHAM: Okay. Step down. Physiology, where I'm a professor, and I'm also the 20 20 Do you want to take a five-minute break? Director of the MD/PhD program for the School of 21 21 (At 10:21 a.m., recess taken) Medicine. 22 22 (At 10:32 a.m., back on the record) Q And what does that involve, as Director? 23 23 CHAIRPERSON STATHAM: Would you like to The MD/PhD program is a specialized track where 24 call your next witness? 24 applicants both apply to a program where they will 25 25 MS. GALANTE: I would. The administration simultaneously be studying medicine for two years, Page 292 Page 294 1 1 calls Dr. Daniel A. Walz. followed by a four-year cycle into our graduate 2 CHAIRPERSON STATHAM: Dr. Walz, would you 2 programs, where they will complete their PhD work. 3 3 raise your right hand? Do you swear to tell the Then they return to the medical program 4 truth, the whole truth and nothing but the truth? 4 for the final two years of their clinical training. 5 5 DR. WALZ: I do. At the end of that eight-year period of time they 6 6 CHAIRPERSON STATHAM: Thank you. Go receive both the medical degree, M.D., and the Ph.D. 7 7 ahead. 8 DANIEL A. WALZ 8 Q You indicated that you have been a faculty member 9 (At 10:33 a.m., sworn as a witness, 9 here at Wayne? 10 testified as follows) 10 DIRECT EXAMINATION 11 11 Are you tenured? 12 BY MS. GALANTE: 12 Yes, I am. 13 13 Q And how long have you been a faculty member here at Q Dr. Walz, could you tell this Committee where you 14 14 are currently employed? the University? 15 15 A Currently employed at the School of Medicine, Wayne A I was appointed to the faculty in 1973. State University, as the Associate Dean for Research 16 16 Q And what other positions have you held at the 17 17 and Graduate Programs. University in the past, other than your current 18 18 Q And how long have you held that position? 19 A I have been the Associate Dean for Research and 19 A Sure. In addition to my holding a position in the 20 20 Graduate Programs since the year 2014. Department of Physiology, in 1989 I was asked to 21 21 Q And give us a brief idea of your responsibilities as join the University's central administration, where 22 22 Associate Dean for Research and Graduate Programs. I served first as the Associate Vice President for 23 A My primary responsibilities are on the Graduate 23 Research, and subsequently served as both the 24 Programs side of the dual appointment, where I 24 Interim and then the Vice President for Research, as 2.5 oversee the intake of new Ph.D. students. 25 well as the Dean of the graduate school.

Page 295 Page 297 1 1 When I finished that tour of duty, if I objection, Mr. Chairman, because it has not been 2 2 can use that phrase, I re-joined the School of established. This was pre-charges of Dr. Needleman, 3 Medicine and was also dually appointed as the Deputy and if that is not the case, then it's irrelevant. 4 4 Director of the Environmental Health Sciences MS. GALANTE: Why is it irrelevant to 5 5 Institute for the University. document what the University's records show in terms 6 6 Q Do you still do research? of his teaching record? 7 A Yes, I do. I share--I do not have my own laboratory 7 The University, the Dean testified that he 8 8 at the present time. I share space with a colleague relied upon that in summary form. This gives us the 9 9 in the Department of Physiology, where we are documents that support that. 10 10 studying some basic cell biology of the blood cell MR. GREGORY: Because it--11 11 called blood platelet. CHAIRPERSON STATHAM: How about--do you 12 Q In addition to your administrative responsibilities, 12 have any indication that he checked Dr. Needleman's 13 do you still teach? 13 record prior to March 23RD or 24TH of 2016? Did he 14 A Yes. Actually I start a cycle of teaching in the 14 know about that? 15 15 MS. GALANTE: I think he-graduate Physiology course in April, where I teach 16 16 mechanisms of blood coagulation. Q (By Ms. Galante) Have you been aware of or checked 17 For 19 years I have been the Co-Director 17 Dr. Needleman's record prior to March of 2016? A It's a memory question. Prior to March of 2016. I 18 of a spring curriculum that is referred to as 18 19 19 "Responsible Conduct in Research," which is a course can't say with certainty that I have or I have not. 20 20 required of all students who receive stipend or We look at them. They are in our office. 21 21 graduate stipend support from the National I know we have evaluated the curriculum, 22 22 Institutes of Health. not specific instructors, but we have evaluated the 23 23 Q So in your role as the Associate Dean of Research curriculum over time as we reorganized and 24 and Graduate Programs, are you aware of whether or 24 repurposed some of our courses, one of which Richard 2.5 not Professor Needleman has taught or does teach in 25 was teaching. Page 296 Page 298 1 1 Q And when you say "Richard," you are referring to Dr. the graduate programs? 2 2 A My awareness of it would be, as it would be for any Needleman? 3 3 faculty member, through the syllabus that is offered A Dr. Needleman, excuse me. 4 in a given course, and we receive a summary that is 4 Q Okay. 5 5 kept in our office of the individual's--what is MR. GREGORY: Mr. Chairman, this is so 6 6 called a SET score, Student Evaluation of Teaching important that I am confident it's after-acquired 7 7 score for individual courses and instructors in evidence, and one of the elements, as you know, of 8 8 adequate cause is adequacy of investigation. those courses. 9 Q Do you know who Professor Needleman is? 9 We have asserted in our Answer and the 10 10 evidence will show that the investigation was 11 11 Q Have you had an opportunity to review Professor inadequate, flawed, and this is bootstrapping, pure 12 Needleman's teaching activities in your graduate 12 and simple, to call in people to say, "Oh, yeah. He 13 13 didn't meet productivity standards," when it's not programs? 14 14 evidence that was before the Dean or relied upon by MR. GREGORY: Objection, no foundation. 15 15 When was this done? I suspect it was subsequent to the Dean. 16 the charges and therefore would be irrelevant. 16 Thus there is no foundation for this 17 CHAIRPERSON STATHAM: Okay. Would you 17 witness's testimony. 18 rephrase your question? 18 CHAIRPERSON STATHAM: I'm going to sustain 19 Q (By Ms. Galante) Do you have any knowledge of what 19 that, because I think that--20 Professor Needleman's teaching activities have been 20 MS. GALANTE: Well, can I respond to that? 21 21 CHAIRPERSON STATHAM: Yeah. in the graduate program--22 CHAIRPERSON STATHAM: In when? 22 MS. GALANTE: All of this information is 23 Q (By Ms. Galante) Over the last five years or so? 23 in summary form in the Selective Salary 24 CHAIRPERSON STATHAM: Okay. 24 documentation that the Dean has relied upon and that 2.5 MR. GREGORY: Well, still the same 25 Dr. Delaney-Black has testified to.

Page 299 Page 301 1 1 This is not evidence that we are creating Those took into consideration his teaching 2 after the fact. The SET scores for his teaching 2 record and how he was viewed. 3 have been established at the end of each of the 3 CHAIRPERSON STATHAM: Okay. 4 courses that he taught. 4 MS. GALANTE: And he can tell us what 5 5 This is evidence that is in his files, courses that Professor Needleman taught and what years he taught them. That is the kind of detail 6 that is in the department records and that was part 6 7 7 of the Selective Salary evaluation. He was judged that isn't in the summary. 8 8 by the committees, year after year after year, on The summary is the compilation of all of 9 his teaching. 9 that. This is the detail of what that is. 10 10 Those scores show how he was judged. This MR. GREGORY: Well, and it's obviously not 11 11 is the documentation that supports that. It's not material that was considered by the Dean. The Dean 12 newly-created evidence. It's evidence that existed 12 has testified. Dr. Delaney-Black has testified. 13 all along. 13 You have the evidence, and again, this is 14 MR. GREGORY: Not through this witness. 14 pure bootstrapping. 15 15 CHAIRPERSON STATHAM: I think he has a She has not established the fundamental fact that he 16 was consulted, that he was involved in any respect 16 point, Counselor. If we are talking about anything 17 17 that was discovered after the discipline was with the charges against Dr. Needleman. 18 18 MS. GALANTE: But why do we have to rendered, was instituted, it was after-acquired 19 19 establish that he was consulted? The Dean testified evidence. 20 about all the people that were invited in, all the 20 MS. GALANTE: But it--make that statement 21 21 records that were pulled. again. I was listening to what you said, that if 22 22 They then summarized those records and this was what? 23 23 came up with the chart that is listed in Exhibit 8 CHAIRPERSON STATHAM: Well, I think Mr. 24 and the records that are listed in Exhibit 9. So 24 Gregory has a point. If he is testifying about 25 that is all the summary of what his teaching has 25 something discovered after the discipline was Page 300 Page 302 1 1 been. rendered, it's not what the Dean relied on when he 2 2 CHAIRPERSON STATHAM: Okay, and what is disciplined. 3 3 the purpose of this witness now? MS. GALANTE: Well, it's--4 MS. GALANTE: To inform the Committee of 4 CHAIRPERSON STATHAM: It says something 5 5 what his SET scores have been that justified the that came after. 6 6 teaching scores that he has gotten. MS. GALANTE: Okay. It's not evidence 7 7 CHAIRPERSON STATHAM: Okay. I will allow that was discovered afterwards. Dr. Delaney-Black 8 8 testified that she reviewed his entire department 9 MR. GREGORY: It's in evidence, and he 9 file, personnel file, his department records which 10 wasn't involved. This is all after the fact. He 10 contain all of this information. 11 MR. GREGORY: That's the end of it. You had nothing to do with the charges. I'm assuming 11 12 that because he hasn't been asked that question. 12 have it. 13 13 MS. GALANTE: Whether he has been MS. GALANTE: So am I allowed to proceed? 14 14 CHAIRPERSON STATHAM: If you're testifying involved--no, he has not been involved in the Dean's 15 15 process, but the Dean relied upon records that are about something that happened prior to his 16 contained in his department. 16 discipline, yeah. 17 17 CHAIRPERSON STATHAM: And he is testifying MS. GALANTE: Okay. Yeah, we are covering--all of this covers prior to. So let's go 18 18 as to the records that the Dean relied on. 19 19 MS. GALANTE: He is testifying on the back then--I lost track of where I was. 20 20 records that--I mean, I can't tell you that the Dean Q (By Ms. Galante) Can you tell the Panel what 21 actually looked at the SET scores, because that is 21 courses Professor Needleman has taught prior to 22 not something that he would--I mean, if he had to do 22 today--so in other words, prior to March of 2016, 23 23 that, he would never have time for anything, but he what his historical record of teaching has been 24 relied upon the summaries and the Selective Salary 24 over, say, the last four or five years? 25 25 A It has been in the--there are several courses that scores.

Page 303 Page 305 1 1 Dr. Needleman has been engaged in from our records. THE WITNESS: Six hours total. 2 2 CHAIRPERSON STATHAM: Total in the year, The main one from my point of view is the 3 3 student contact? fundamental course in Biochemistry that is available 4 4 to all graduate students. THE WITNESS: In the semester, yes. 5 5 Biochemistry is BMB 7010. That course Q (By Ms. Galante) And that is only offered once a 6 6 there is--we offer courses in two different year? 7 7 A It's offered in the fall semester. structures. We admit doctoral students, Ph.D. 8 8 students, into an integrated Biomedical Sciences Q Fall semester, so that is a total of six contact 9 curriculum. 9 hours for the year? 10 10 That is called the IBS Curriculum. Prior A For the semester. 11 11 to two years ago that curriculum had two phases to Q For that course. For that semester, but it is only 12 12 it, the first phase being Cell Biology, and the offered once? 13 second phase being Biochemistry. 13 14 14 O Are you aware of whether or not--so would the Two years ago that was collapsed into a 15 15 lectures that Professor Needleman teaches, these six unified course and rearranged, and the curriculum 16 16 draws from all seven of our Basic Science one-hour lectures, are they the same year after year 17 17 departments. since he has been teaching it? 18 18 A I think by topic, by heading they are. Content-wise In parallel, there each department--19 19 Biochemistry and Molecular Biology being one, it can vary from year to year as new discoveries are 20 20 Physiology being another as an example, they each made and lectures are altered and changed over the 21 21 offer their own doctoral program, starting with a course of one year, compared to the next and 22 22 foundational course, and in this case that would compared to the next. 23 23 have been BMB 7010. Q And so it would be up to the individual faculty 24 Dr. Needleman has been an instructor in 24 member to update those materials? 25 that BMB 7010, I believe our records show since 2008 25 A Correct. Page 304 Page 306 1 1 Q And do you know whether or not Professor Needleman annually. That course is offered annually during 2 2 for this course has listed any preparation hours? the fall semester. 3 3 It is a required course for all doctoral A For the records that I have available, there is no 4 students in Biochemistry, and it is open to any 4 indication of preparation hours, preparation time. 5 5 other doctoral program student in the School of There is no number of hours listed. 6 6 Medicine Q Okay. So he hasn't listed--generally when you are 7 7 Q And I think you described basically what that was. updating your course materials, would that be 8 So is this course individually taught by Dr. 8 considered preparation time? 9 Needleman? 9 10 A No, it is not. The BMB 7010 course consists of at 10 Q And you said this would have been done in the fall, 11 least four instructors from the Department of 11 this course, the fall semester? 12 12 Biochemistry, one of whom is Dr. Needleman. 13 Q That is the total in terms of instructors for the 13 Q Can you tell us--so these are all Biochemistry 14 14 course? They are all from Biochemistry? professors, but this particular course, can you tell 15 A They are all from Biochemistry. 15 us how Professor Needleman's load for this course is 16 16 Q Do you know, do you have any firsthand knowledge of compared to the other faculty members? A The course has a total of 48 contact hours, credit 17 how many--so different faculty give different 17 18 18 lectures in terms of that course. Do you know how hours--contact hours through the semester, and Dr. 19 many lectures he gives in that course? 19 Needleman has responsibility for six of them. 20 20 A Our records indicate that Dr. Needleman presents Q And have you had an opportunity to check--well, 21 21 six--has been presenting six credit hours--six let's explain for the Panel what SET scores are, 22 22 contact hours, excuse me--six contact hours each because that was mentioned. 23 year in Biochemistry 7010. 23 A Sure. SET scores are--the acronym is Student CHAIRPERSON STATHAM: Is that six hours a 24 24 Evaluation of Teaching. The University mandates 2.5 week or--25 that all courses have the opportunity for students

Page 307 Page 309 1 who are the recipients of the information, the 1 records? 2 A Into our office. It comes in to one of our staff opportunity to evaluate both the content of the material being provided, as well as the individual 3 3 people, and I obtained it from her. 4 4 Q And have you had a chance to review this? instructors and how the students would rate that 5 5 instructor on each year. A Yes, I have. 6 Q And it covers specifically Professor Needleman's SET Q And have you pulled the SET scores for Professor 7 7 scores for fall of 2011 through fall of 2015 for BMB Needleman for the years, 2011 to 2015? 8 8 7010. Am I correct? A We have, yes. 9 9 Q One other preliminary question. When you talk about 10 10 the ratings in SET scores, can you tell us what the O And could you interpret this for us and tell us what 11 the scores are, or represent? 11 range of ratings are and what they mean? 12 A Yeah. This is very uniform across the University. 12 A Well, I'll start with the--13 They range from a SET score of 1 to 5, 5 being 13 MR. GREGORY: Objection to reading from it 14 until it is offered and received. 14 excellent and going down to 1 being poor. So it's a 15 MS. GALANTE: Oh, I'm sorry. You're 15 1, 2, 3, 4 or 5 issued by each individual student 16 16 who is responding--who has completed a SET score correct. 17 CHAIRPERSON STATHAM: It's in. 17 request. 18 18 MS. GALANTE: Yeah. I thought he had said MR. GREGORY: Well, objection. I don't 19 that it was admitted. 19 recall anything in the charges or Dean's testimony 20 20 about the SET scores or reliance, so this is all new MR. GREGORY: Did you say it was admitted? 21 CHAIRPERSON STATHAM: I admitted it. 21 material. 22 MR. GREGORY: Oh, I didn't hear that. Beg 22 MS. GALANTE: Well, there wasn't any. I 23 23 your pardon. mean, he didn't get down to that much specifics, but 24 24 THE WITNESS: I will look just at the top both he and Dr. Delaney-Black testified that they 25 25 page, which is the fall of 2015. The subsequent relied upon his Selective Salary Reviews for the Page 308 Page 310 1 1 last four or five years, all of which evaluate ones, the format is exactly the same. The scoring 2 2 teaching. numbers you can find on the summary sheets. 3 3 One of the factors in evaluating teaching Starting at the very top you will see that 4 is how that faculty member is perceived by the 4 on the top right-hand corner it says how many 5 5 students that they teach. students responded. In this particular year 16 6 6 CHAIRPERSON STATHAM: I will allow it and students completed their SET score evaluation out of 7 7 overrule Mr. Gregory, but I should say that one the 69 students involved in the course. 8 8 thing--it may be a business document, but it is CHAIRPERSON STATHAM: And this is the team 9 9 certainly hearsay. taught class we're talking about? 10 10 He can't cross-examine the students, and THE WITNESS: This is the team taught 11 we don't know who the students were, but I will take 11 class, and there is a summary for every instructor, 12 12 it for what it's worth. for each one. This happens to be Dr. Needleman's. 13 13 MS. GALANTE: Okay. This would be the CHAIRPERSON STATHAM: Oh, these are 14 14 administration's Exhibit 16. graded--okay. Yeah. I see it. 15 (At 10:54 a.m., Employer's 15 Q (By Ms. Galante) So just to clarify, based on your 16 Exhibit 16 marked and received) 16 question, this is an evaluation only of Professor 17 17 CHAIRPERSON STATHAM: And it relates to Needleman's performance? 18 teaching, which is one of the accusations--18 A Correct. 19 MS. GALANTE: It relates to the teaching 19 O His six lectures? 20 of this particular course. 20 A Correct. 21 Q (By Ms. Galante) So have you had an opportunity to 21 CHAIRPERSON STATHAM: Yeah. It's clear. 22 review this Employer's Exhibit 16, Dr. Walz? 22 THE WITNESS: So on the first box that you 23 23 see at the top it says, "Summary of the Overall 24 Q And so you would have been the one that obtained 24 Course Evaluation." The students have rated the 2.5 this information from the University's business 25 overall course as 3, which would put it right in the

Page 311 Page 313 1 1 middle of "Good," using the vocabulary of the continue to seek out, based on these scores--2 2 MR. GREGORY: Objection. scoring system. 3 3 Q (By Ms. Galante) For teaching this course? "How much did you learn from this course?" 4 4 It was 3.6, so it would be somewhere between "Good" MR. GREGORY: It has now been stated 5 5 and "Very Good," and the next line down was the several times. He was not involved. This is 6 6 individual instructor evaluation. opinion that was not relied upon by the Dean. 7 7 Q (By Ms. Galante) Let's move on to the next course This particular year Dr. Needleman was 8 8 evaluated as a 2.9, which put him on the edge of that he has taught, BMB 7030. Is that correct, or 9 being evaluated as "Good," his overall teaching. 9 is that the one that we just talked about? 10 10 If you want to go down further, you can A 7030? 11 11 find the same box for 2014, which is about three or Q 7030. 12 four--three pages--I think it's three pages, fourth 12 A Correct. 7030 is basically a techniques course, introducing graduate students to techniques that 13 page down, and 2014, 53 of the 78 students enrolled 13 14 14 might be of value to them as they proceed in their in that year, a much bigger sample size. 15 15 doctoral training, covering the fundamentals of the The students overall rated the course 4 as 16 16 compared to 3 the prior year, and Dr. Needleman was how to and why in biotechnology. 17 17 CHAIRPERSON STATHAM: Again, what is the evaluated as a 4.1, which would put him between 18 18 number of this course? "Very Good" and "Excellent" in 2014. 19 19 THE WITNESS: 7030. BMB 7030. If you go down three more pages to 2013, 20 20 now we have a similar large statistical sample, 54 Q (By Ms. Galante) And is this also a team taught 21 21 of 77. The students were equally or almost equally course? 22 22 favorable to the course as a whole, 3.8. A I believe that it is. 23 Dr. Needleman was evaluated a 2.8 that 23 Q And did you pull Dr. Needleman's SET scores for this 24 particular year, so we're looking at an individual 24 course? 25 year compared to the next. 25 A We did. Page 312 Page 314 1 1 I think if you look at all of them on MS. GALANTE: This would be our proposed 2 2 Exhibit 17. average, you would see that Dr. Needleman averages 3 3 out to just slightly above 3.0, "Good," to put a (At 11:01 a.m., Employer's 4 vocabulary word on it. 4 Exhibit 17 marked) 5 Q (By Ms. Galante) And in your opinion when you look 5 Q (By Ms. Galante) Well, what do your records show in at these SET scores, what does this tell you? This 6 6 terms of Professor Needleman's contact hours for 7 7 this team taught course, 7030? 8 MR. GREGORY: Well, objection. He was not 8 A I believe this one also had contact hours totaling 9 involved. 9 six. 10 CHAIRPERSON STATHAM: Sustained. 10 MR. GREGORY: Could we get copies, 11 MR. GREGORY: His opinion now is--11 Counsel? 12 MS. GALANTE: But he evaluates--12 MS. GALANTE: Of what? Oh, no. That was 13 CHAIRPERSON STATHAM: I think the 13 the wrong one. I'm just asking him questions about 14 14 documents speak for themselves. 15 15 MR. GREGORY: Yeah. MR. GREGORY: About what? MS. GALANTE: About what his knowledge of 16 CHAIRPERSON STATHAM: He testified it was 16 17 17 1 in 5, 1 being bad, 5 being good, and these in terms of the contact hours, how much did 18 documents, all in there, plus the student comments. 18 Professor Needleman teach in BMB 7030. I haven't 19 Q (By Ms. Galante) So this is an instructor that is 19 asked about SET scores yet. 20 very experienced? 20 THE WITNESS: Contact hours, I believe, 2.1 2.1 A Correct. were six contact hours in this course as well. 22 Q Teaching material that he has taught for many years. 22 Q (By Ms. Galante) Do you know how many years he 23 Is that correct? 23 taught this course? 24 A Correct. 24 A I don't recall. It's a number of years, but I can't 25 Q And is this the type of instructor that you would 25 give you the range or time on that.

WSU School of Medicine v AAUP Richard Needleman, Ph.D., Volume 2

		Page 315		Page 317
1	_		1	_
2		And do you have SET scores on this course? There are SET scores on this course as well. I	1 2	MR. GREGORY: Voir dire?
3	А		3	CHAIRPERSON STATHAM: Yeah.
		believe Dr. Needleman's SET score ranged between 2.4	1	MR. GREGORY: Doctor, when did you extract
4	^	and 2.8.	4	proposed Exhibit 17 and 16 from your files?
5	Q	So did Professor Needleman teach any of the IBS	5	THE WITNESS: Probablyas you have them
6		courses?	6 7	in your hands now?
7	А	He did teach in the IBS curriculum when we had two		MR. GREGORY: Yeah. Two weeks ago?
8		separate sections, when we had the Cell Biology	8	THE WITNESS: Oh, several months ago.
9		section and the Biochemistry section. He was an	9	MR. GREGORY: Several months ago at the
10		instructor in the Biochemistry component of that	10	request of Ms. Galante, I would assume.
11	_	course.	11	THE WITNESS: Correct.
12	_	Do you know what years he taught IBS 7010?	12	MR. GREGORY: Were they previously given
13	Α	7010 and 7020, I believe, and I think the years were	13	to Dean Sobel?
14		up to 2014. That's when we reorganized the course.	14	THE WITNESS: I do not know.
15	Q	Does he still currently teach any portion of the IBS	15	MR. GREGORY: You did not personally?
16		course?	16	THE WITNESS: I did not, no.
17	Α	Not when it was reorganized into a common course	17	MR. GREGORY: But you did not personally
18		where both Biochemistry and Cell Biology were	18	give them to him?
19		combined into a single offering. Dr. Needleman does	19	THE WITNESS: No, I did not.
20		not teach in that course.	20	MR. GREGORY: Did you give them to Dr.
21		Do you know why he no longer teaches in that course?	21	Delaney-Black?
22	Α	Well, it was at the direction of the course	22	THE WITNESS: No, I did not.
23		coordinators, who at the time were Dr. Trulecki	23	MR. GREGORY: Were you consulted by Dean
24		(phonetic), who has left the University, and Dr.	24	Sobel regarding the SET scores?
25		Finley (phonetic), who is currently the course	25	THE WITNESS: No, I was not.
		Page 316		Page 318
1		director. It was their decision, I'm told.	1	MR. GREGORY: Were you consulted by Dr.
2		MR. GREGORY: Objection, hearsay.	2	Delaney-Black?
3		CHAIRPERSON STATHAM: Sustained.	3	THE WITNESS: No.
4	0	(By Ms. Galante) Do you have any firsthand	4	MR. GREGORY: Were you consulted by anyone
5	٠	knowledge of why Professor Needleman is no longer	5	regarding Dr. Needleman's SET scores?
6		teaching this course?	6	THE WITNESS: By Dr. Trulecki as we were
7	Α	_	7	reviewing the reorganization of the course.
8		coordinated the course, but that would be my	8	MR. GREGORY: But that is the only other
9		personal knowledge.	9	occasion?
10	Q	Do you know whether it was Professor Needleman's	10	THE WITNESS: Correct.
11	Ť	choice to no longer teach it, or the course	11	MR. GREGORY: Again, Mr. Chair, it's
12		Director's?	12	irrelevant. It's after-acquired. I would note that
13		MR. GREGORY: Objection. She is leading.	13	it is not on the dossier, Employer Exhibit No. 8.
14		MS. GALANTE: I'm asking him if he	14	It has everything else practically.
15		MR. GREGORY: He said he did not know.	15	If the SET scores had been considered, I'm
16		CHAIRPERSON STATHAM: Sustained.	16	certain it would have appeared on this document, and
17	Q	(By Ms. Galante) Do you have the SET scores for	17	it doesn't. So now again I use the term,
18	•	this course?	18	bootstrapping, and that is exactly what it is.
19	Α	We do.	19	CHAIRPERSON STATHAM: I'm going to admit
20		And is this the documenttake a look at this. This	20	the SET scores as they relate to the accusations of
21	-	would be the Employer's Exhibit 17.	21	teaching that led to discipline in your evidence.
22		CHAIRPERSON STATHAM: This was your	22	By the same token, as I said before, I
23		proposed Exhibit 17?	23	think SET scores may be a business document, but
24		MS. GALANTE: 17, yes.	24	they are certainly hearsay, because I don't know how
25		CHAIRPERSON STATHAM: Mr. Gregory?	25	you examine the students or identify the students.

WSU School of Medicine v AAUP Richard Needleman, Ph.D., Volume 2

		Page 319			Page 321
1		MS. GALANTE: I understand.	1		and let her ask the question, how many hours,
2		CHAIRPERSON STATHAM: Who filled these	2		contact hours was he teaching, based on your
3		out.	3		records, prior to the discipline.
4		MS. GALANTE: So Employer's Exhibit 17	4		MS. GALANTE: Okay, and that is the
5		CHAIRPERSON STATHAM: Is admitted.	5		question.
6		MS. GALANTE: Is admitted, and it speaks	6	Q	(By Ms. Galante) How many hours, based upon the
7		for itself.	7		records that you pulled, was he teaching per year
8		(At 11:08 a.m., Employer's	8		prior to March of 2016? You can look at that.
9		Exhibit 17 received)	9		MS. GALANTE: I'm not going to offer this
10	Q	(By Ms. Galante) Dr. Walz, are you aware of any	10		unless Counsel would like it, but I have redacted
11		other courses that Professor Needleman has taught in	11		names of everybody else, but it gives him an
12		the last five years in the graduate program?	12		opportunity to refresh his recollection.
13	Α	I believe in the Department of Biochemistry there is	13		THE WITNESS: The total on the form in my
14		an additional course that is referred to as BMB	14		hands right now is 15. 15 contact hours.
15		7330.	15		CHAIRPERSON STATHAM: 15 total contact
16	Q	And what is your knowledge of his teaching in that	16		hours in a year? Correct?
17		course?	17		MS. GALANTE: For teaching.
18	Α	Similar to my knowledge based on others, which is	18		CHAIRPERSON STATHAM: Not per semester or
19		the enrollment numbers and the Student Evaluation of	19		anything else?
20		Teaching at the end of the course.	2.0		THE WITNESS: No.
21	Q	Do you know what years he taught that course?	21		CHAIRPERSON STATHAM: Total in a year?
22	Α	I believe it was first offered in 2014, although I'm	22		THE WITNESS: Per year.
23		not positive that is the starting year, and 2015.	23	Q	(By Ms. Galante) And does he list any preparation
24	Q	And the only SET scores you pulled were for 2016?	24		hours?
25	Α	Yes.	25	Α	No, he does not.
		Page 320			Page 322
1	Q	Which would have ended at what point?	1		MS. GALANTE: I have no more questions.
2	Α	2016, the academic year would have ended in late	2		Oh. I have one more question.
3		April, early May of 2016.	3	Q	(By Ms. Galante) In one of your rolesI'm not sure
4		MS. GALANTE: So given the Arbitrator's	4		which one it wasdid you ever have an opportunity
5		ruling, I won't offer these for admission, because	5		to implement moving Professor Needleman's lab space
6		they are technically during that same time period,	6		from Scott Hall to the Lande Building?
7		but I will just withdraw that.	7	Α	Yes, I did.
8	Q	(By Ms. Galante) Did you have an opportunity to	8	Q	And when would that have occurred?
9		review the departmentso as you were pulling all of	9	Α	I believe it was in the year 2008 and 2009, in that
10		this information, the department records would show	10		window of time.
11		who teaches what and what they revealed to the	11	Q	And who made that request to you?
12		department in terms of their contact hours and	12	Α	Dr. Rosen.
13		preparation hours? Is that	13	Q	Dr. Rosen?
14	Α	Yes.	14	Α	Dr. Rosen made the request. It went to the Dean's
15	Q	Okay, and so that's where you would have gotten the	15		office and it came to me via Dr. Mentzer, who was
16		information, directly from what Professor Needleman	16		Dean at the time.
17		submits to the department?	17	Q	So you would have taken your direction from the
	Α	That is correct.	18		Dean?
18		In terms of his contact hours, and to your knowledge	19	Α	Correct.
	Q		20	Q	You would have had to have the Dean's approval to
18	Q	then, has he ever listed anything more than this 12	1		
18 19	Q	then, has he ever listed anything more than this 12 to 15 contact hours a year for teaching?	21		make that change?
18 19 20	Q		1	Α	make that change? Correct.
18 19 20 21	Q	to 15 contact hours a year for teaching?	21		
18 19 20 21 22	Q	to 15 contact hours a year for teaching? MR. GREGORY: Objection, leading, and	21 22		Correct.

Page 323 Page 325 1 1 administrative structure we have in place today, so graduate education is separate from medical school, 2 2 we did not have a Vice Dean for Research in the medical student education. 3 3 School of Medicine. We're talking specifically about graduate 4 4 Q Okay. student education. 5 5 A So in my capacity as the Associate Dean for Q What option, if any, does the faculty have to 6 6 Research, I had to intercede when departments decline to teach a course? 7 A I think if the area subject matter were clearly 7 requested additional space for new faculty 8 8 recruitment or reassignment of space inside of the outside of their area of expertise or training they 9 inventory they managed. 9 would have the prerogative of saying perhaps there 10 10 Q Do you have any firsthand knowledge as to why this is a better individual, but they would also be told 11 change was being made? 11 that there is a shared responsibility for making 12 12 A The Department of Biochemistry was in the process of sure that our curriculum is covered. 13 hiring a new faculty member, Dr. Li, L-I, and Dr. 13 Q Let me understand the preparatory hours you spoke 14 Rosen specifically requested that the laboratory 14 15 space Dr. Needleman had assigned to him be in turn 15 A Yes. 16 16 assigned to the recruitment of Professor Li, Dr. Li. Q Is that a requirement to be recorded? 17 Q And is that something that is typically done for a 17 Recorded? Requirement? 18 new faculty member that is brought in as a 18 Q Yeah. You were referring to some document. 19 19 researcher, that they are given laboratory space? A Yes. 20 20 A Yes, it is. Q And you said that prep time did not show, and I'm 21 21 MS. GALANTE: I have no more questions. just asking what the practice is or the requirement. 22 22 CHAIRPERSON STATHAM: Mr. Gregory? A It's self-reported. So it can be--so we can 2.3 MR. GREGORY: Yes. 23 typically account for when an individual is being 24 CROSS-EXAMINATION 24 asked to take on new teaching material it requires a 2.5 BY MR. GREGORY: 25 significantly greater amount of preparation time, Page 324 Page 326 1 1 Q How are courses assigned in Dr. Needleman's but every year--I can only use myself as an example 2 2 department? in the question you're asking. 3 3 A Within every department there are structures in Every year as I am preparing to repeat my 4 place for what courses are being proposed and 4 lectures, I spend approximately an hour to an hour 5 5 created. Within the department it is generally the and a half of time for each one of my contact hours, 6 6 course coordinator who makes up the syllabus and refreshing my material, making sure that it's 7 7 assigns curriculum. contemporary and ready to be delivered. 8 8 He has to make sure that individual **Q** What significance if any does it have for this 9 9 faculty members are going to be available during Committee? Are you saying he didn't prepare? 10 10 that particular period of time. A I have no idea if he prepared. All I can say is he 11 They may be on sabbatical. They may be 11 reported no preparation time. 12 12 absent from the University, so it has to be balanced Q Was he disciplined or admonished about that? 13 13 out. Generally it is done on an annual basis. Don't know. 14 14 Q Is the course coordinator a separate position from Q Did you review the SET scores as they come in? 15 the chair? 15 Α Do I typically review the SET scores? 16 16 Q Yes. 17 17 Q What is the chair's role, if any, in assigning A I want to understand your question. No, I do not. 18 18 Q You do not. Does anyone else that you know? 19 A The chair's role generally is making sure that there 19 Certainly at the departmental level they do. When 20 20 is a balance of instructional offerings throughout SET scores are released, they come back to the 21 21 the respective department. It depends a little bit course coordinator, and whoever that individual is 22 on the individual chairs. 22 then breaks them down and shares them with the 23 Some chairs are more engaged in the 23 individual lecturers. 24 teaching activity. Some chairs are more engaged in 24 Q Could Dr. Needleman have taught courses that you 25 the research, so it's a balancing point, and 25 would not have a record of or access to a record of?

	Page 327	Page 329
1	A If he is an instructor of record, no. We would have	if he is willing to stipulate that the Arbitrator
2	that record.	2 ruled that an Article XXIV proceeding was not
3	Q So the record is clear, Doctorbear with me. You	mandatory or necessary in order for the University
4	answered this in part, but as I understand, you had	4 to implement a Board of Governors dismissal
5	no conversations with Dean Sobel about the SET	5 proceeding under this statute.
6	scores prior to August 5 of 2016?	6 Are we stipulating to that?
7	A That is correct.	7 MR. GREGORY: We will so stipulate, but I
8	Q Or even to-date?	8 think we made it clear yesterday. To phrase another
9	A Correct.	9 way, the use of Article XXIV is not a condition
10	Q To-date, all right, and the same question as to Dr.	precedent to a Board of Governors statute dismissal
11	Delaney-Black. No conversation with her?	11 proceeding.
12	A Also correct.	12 MS. GALANTE: And that was the
13	Q What you have done here today was prepare these	Arbitrator's ruling. At this time the
14	documents at Ms. Galante's request and testify?	administration rests in terms of its case, but I
15	A Correct.	would like to reserve the right for rebuttal.
16	MR. GREGORY: All right. Nothing further.	16 CHAIRPERSON STATHAM: Okay. Do you want
17	Thank you, Doctor.	to proceed, Mr. Gregory, with your opening
18	MS. GALANTE: I just want tojust	statement, or would you rather break for lunch and
19	redirect.	19 then do it?
20	REDIRECT EXAMINATION	20 MR. GREGORY: Well, I would like about ten
21	BY MS. GALANTE:	or fifteen minutes with my client.
22	Q These are notthese records have been in existence	22 CHAIRPERSON STATHAM: That's fine.
23	at the time they were created. Is that correct?	MR. GREGORY: For discussion.
24	A They were not created for me. They are University	24 (At 11:20 a.m., recess taken)
25	records that are compiled annually and put into our	25 (At 12:27 p.m., back on the record)
	Page 328	Page 330
1	Page 328 office records, as well as the departmental records.	Page 330 CHAIRPERSON STATHAM: Ready to go back on
1 2	_	
	office records, as well as the departmental records.	1 CHAIRPERSON STATHAM: Ready to go back on
2	office records, as well as the departmental records. Q Did you ever personally receive any complaints about	1 CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion,
2	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching?	1 CHAIRPERSON STATHAM: Ready to go back on 2 the record, and we'll start with your motion, 3 Counselor? 4 MR. GREGORY: Yes. May it please the 5 Committee and you, Mr. Chairman, during the recess
2 3 4	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but	1 CHAIRPERSON STATHAM: Ready to go back on 2 the record, and we'll start with your motion, 3 Counselor? 4 MR. GREGORY: Yes. May it please the 5 Committee and you, Mr. Chairman, during the recess 6 we distributed a document entitled, "Respondent's
2 3 4 5	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was	1 CHAIRPERSON STATHAM: Ready to go back on 2 the record, and we'll start with your motion, 3 Counselor? 4 MR. GREGORY: Yes. May it please the 5 Committee and you, Mr. Chairman, during the recess 6 we distributed a document entitled, "Respondent's 7 Motion to Dismiss the Charges."
2 3 4 5 6	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in
2 3 4 5 6 7 8	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman?	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges
2 3 4 5 6 7 8 9	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the
2 3 4 5 6 7 8 9 10	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing.
2 3 4 5 6 7 8 9 10 11	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into
2 3 4 5 6 7 8 9 10 11 12	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the
2 3 4 5 6 7 8 9 10 11 12 13 14	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it
2 3 4 5 6 7 8 9 10 11 12	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down.	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down. (At 11:18 a.m., witness excused)	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the specific charge of failure to complete an academic
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down. (At 11:18 a.m., witness excused) MS. GALANTE: I have one more thing. We	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the specific charge of failure to complete an academic assignment competently.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down. (At 11:18 a.m., witness excused) MS. GALANTE: I have one more thing. We had talked about the Article XXIV and Lee	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the specific charge of failure to complete an academic assignment competently. Thus it is very appropriate that a Motion
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down. (At 11:18 a.m., witness excused) MS. GALANTE: I have one more thing. We had talked about the Article XXIV and Lee Hornberger's decision on this matter, and I think my	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the specific charge of failure to complete an academic assignment competently. Thus it is very appropriate that a Motion to Dismiss be granted at this time, and that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down. (At 11:18 a.m., witness excused) MS. GALANTE: I have one more thing. We had talked about the Article XXIV and Lee Hornberger's decision on this matter, and I think my understanding is a little bit different of Gordon's,	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the specific charge of failure to complete an academic assignment competently. Thus it is very appropriate that a Motion to Dismiss be granted at this time, and that recommendation in turn go to the President of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down. (At 11:18 a.m., witness excused) MS. GALANTE: I have one more thing. We had talked about the Article XXIV and Lee Hornberger's decision on this matter, and I think my understanding is a little bit different of Gordon's, and I just want to make sure that the record is	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the specific charge of failure to complete an academic assignment competently. Thus it is very appropriate that a Motion to Dismiss be granted at this time, and that recommendation in turn go to the President of the University.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	office records, as well as the departmental records. Q Did you ever personally receive any complaints about Professor Needleman's teaching? A We have hadpersonally to me by a student, no, but I had to interact with Dr. Trulecki in my capacity as Associate Deanhe was the Assistant Deanin how to manage the complaints that Dr. Trulecki was receiving as one of the course coordinators. Q About Professor Needleman? MR. GREGORY: Objection, hearsay. Move to strike. CHAIRPERSON STATHAM: Sustained. MS. GALANTE: I have no more questions. Thank you, Dr. Walz. THE WITNESS: Thank you. CHAIRPERSON STATHAM: All right. Step down. (At 11:18 a.m., witness excused) MS. GALANTE: I have one more thing. We had talked about the Article XXIV and Lee Hornberger's decision on this matter, and I think my understanding is a little bit different of Gordon's,	CHAIRPERSON STATHAM: Ready to go back on the record, and we'll start with your motion, Counselor? MR. GREGORY: Yes. May it please the Committee and you, Mr. Chairman, during the recess we distributed a document entitled, "Respondent's Motion to Dismiss the Charges." It should be considered frankly in conjunction with the Answer and Rebuttal of Charges that we filed yesterday at the outset of the hearing. I submit that if the Committee goes into Executive Session and examines the motion, the Answer and Rebuttal and the exhibits to-date, it will be clear that the Employer has not established a prima facie case, that they have not by preponderance of evidence shown a violation of the specific charge of failure to complete an academic assignment competently. Thus it is very appropriate that a Motion to Dismiss be granted at this time, and that recommendation in turn go to the President of the

Page 331 Page 333 1 1 MS. GALANTE: Do you want me to respond at heavy burden. We just have to show a little bit 2 2 more evidence in our favor on the subject of whether this point? 3 CHAIRPERSON STATHAM: If you would like, 3 or not the charge has been sustained. 4 yeah. 4 The statutes when they're written, whether 5 5 MS. GALANTE: I would like to at least they are written by the Michigan legislature, the U.S. Senate, the Board of Governors here, they are 6 address some of the information in here. I haven't 6 7 7 generally written in broad terms, in language that had an opportunity to do a very thorough--because I 8 8 just saw this on my desk when I got back from lunch. can cover a variety of circumstances. 9 The same thing with the Response that Mr. 9 In this case they gave three different 10 10 Gregory submitted to everyone, which is not part of reasons for just adequate cause, and one of them is 11 11 the procedure in something like this. I read that this failure to complete academic assignment--12 12 perform competently. 13 It was probably 9:00, 10:00 o'clock at 13 You have heard a lot of testimony here 14 night when I finally got to it, and it's just full 14 about academic assignments and what that means. 15 15 of all kinds of undocumented hearsay, and pretty This is a highly skilled profession, highly educated 16 outrageous in that regard in terms of the statements 16 people who have the academic freedom to decide for 17 17 that are made in there that are totally unsupported. themselves how they are going to teach, what 18 18 Most of the statements here are also research they are going to do, what their topic of 19 19 unsupported speculation. They are now claiming research is going to do. 20 discrimination, that people with lesser job 20 This administration cannot invade that 21 21 performance were treated differently. province, but they made it clear, everybody's 22 22 He has submitted--there is no evidence of expectations. The initial offer letter that 23 23 that, but getting to the actual nitty gritty of it, Professor Needleman received that I was going to use the statute itself, the Board of Governors' statute 24 24 on cross-examination of him tells him you have to do 25 25 has no provision for granting the motion to dismiss teaching, research, service. Page 332 Page 334 1 1 a case. Every faculty member has to do that. 2 2 Maybe in the clinical setting it's a little bit It basically says that this Committee 3 3 should be proceeding by a stenographer, and this different, but they're seeing patients. Those are 4 Committee is supposed to consider this matter in an 4 the academic assignments that professionals in 5 5 Executive Session and prepare a report for the academia perform. President as expeditiously as possible. 6 6 In fact, the 1966 AAUP statement on 7 7 It should include specific and clear-cut Professional Ethics states: 8 findings on all the factual issues, using the 8 "As members of an academic institution, 9 standard of the preponderance of the evidence. 9 professors seek above all to be effective 10 I'd like to--and the contract itself 10 teachers and scholars." 11 between the parties acknowledges--so the Union There is a lot of self-motivation, and 11 12 acknowledges the validity of this statute under 12 there is a lot of room--so this isn't an hourly job. 13 13 Article VII: This isn't my administrative assistant who I'm "Continuation of past policies, 14 directing and saying, "I want you to do this first, 14 15 15 except as modified by this agreement, and then I want you to do that. I need this today. 16 the following actions formally approved 16 That can wait until tomorrow." 17 by the Board of Governors shall remain 17 This is not that kind of profession, so 18 18 unchanged for the members of the bargaining there is not specific assignments given to faculty 19 19 members, "Today you're going to do this. Tomorrow unit." 20 20 One of those is Statute 2.51.01, which we you do something else," which is how the Union is 21 21 are relying upon here. Preponderance of the trying to characterize this procedure. 22 22 evidence, as I stated in my opening statement, this This statute should be interpreted 23 23 is not a criminal matter that requires beyond a broadly. A couple of more things I wanted to 24 reasonable doubt. 24 mention. Competence, the term "competence" used in Preponderance of the evidence is not a 25 the statute which the Union has acknowledged or 25

	Page 335		Page 337
1	whether you use the term "effectiveness," or	1	meaning the Dean of the School of Medicine
2	"excellence," excellence is the standard used in all	2	"I am convinced that reasonable
3	of the School of Medicine Factors.	3	grounds exist for initiating dismissal
4	To be excellent, you would have to be	4	proceedings."
5	competent. You would have to be more than	5	He then cites the statute and informs
6	competent, so competence is almost like the basic	6	Professor Needleman that he has a right under this
7	level of performance.	7	statute to whatthis peer review. This Hearing
8	In all of these, whether or not somebody	8	Panel is now reviewing this evidence.
9	is performing competently or effectively or	9	That is what is provided for in the
10	excellently, these are all subjects of the Selective	10	statute. So to say there is no peer review, you
11	Salary Review process that is done on a yearly basis	11	have to as peers, as academics, look at this
12	and is dictated by the contract.	12	evidence and evaluate it, and that takes careful
13	These are peer evaluations. You heard the	13	consideration.
14	testimony in that regard. So I think given all of	14	According to the statute, as I just said,
15	that, to say that we have not met our prima facie	15	you have to look at the evidence, and you have to
16	case of establishing this is simply untrue, and so I	16	make specific factual findings and then make your
17	ask that the motion be denied.	17	recommendation to the President, but this statute
18	CHAIRPERSON STATHAM: Okay. Mr. Gregory,	18	says the Board of Governors has the ultimate
19	any response?	19	decision here.
20	MR. GREGORY: Please. There is no peer	20	It goes to the President with the
21	evaluation. That's part of the problem. This was	21	recommendation from this Committee, and then the
22	peremptory.	22	President takes it to the Board of Governors.
23	It was driven by budget considerations,	23	So given all of that, I don't see how you
24	and there is insufficient evidence that Dr.	24	can say that there is no peer review involved.
25	Needleman did not perform, given the status he	25	CHAIRPERSON STATHAM: Okay. At this time
	Dama 226		
	Page 336		Page 338
1	Page 336 enjoyed with respect to any requirements of unit	1	Page 338 we will take the Committee, and we will step out and
1 2	enjoyed with respect to any requirements of unit Factors.	l	we will take the Committee, and we will step out and
	enjoyed with respect to any requirements of unit	1 2 3	we will take the Committee, and we will step out and go into Executive Session briefly.
2	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not	2	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to
2	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary	2 3	we will take the Committee, and we will step out and go into Executive Session briefly.
2 3 4	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent.	2 3 4	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go.
2 3 4 5	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary	2 3 4 5	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out.
2 3 4 5 6	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and	2 3 4 5 6	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right.
2 3 4 5 6 7	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of	2 3 4 5 6 7	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken)
2 3 4 5 6 7 8	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here.	2 3 4 5 6 7 8	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record)
2 3 4 5 6 7 8 9	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in	2 3 4 5 6 7 8 9	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on
2 3 4 5 6 7 8 9	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion.	2 3 4 5 6 7 8 9	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to
2 3 4 5 6 7 8 9 10	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address	2 3 4 5 6 7 8 9 10	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive
2 3 4 5 6 7 8 9 10 11	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the	2 3 4 5 6 7 8 9 10 11	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session.
2 3 4 5 6 7 8 9 10 11 12	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr.	2 3 4 5 6 7 8 9 10 11 12 13	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review here is simply not true, but most importantly, I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for your kind attention to our motion.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review here is simply not true, but most importantly, I think, once under the statute if the President	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for your kind attention to our motion. Our firstI'm going to waive an opening
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review here is simply not true, but most importantly, I think, once under the statute if the President agrees with the recommendation of the Dean, which he	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for your kind attention to our motion. Our firstI'm going to waive an opening and refer you to my Answer and Rebuttal of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review here is simply not true, but most importantly, I think, once under the statute if the President agrees with the recommendation of the Dean, which he did, he not only just agreed with it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for your kind attention to our motion. Our firstI'm going to waive an opening and refer you to my Answer and Rebuttal of the charges, particularly since we are trying very hard
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review here is simply not true, but most importantly, I think, once under the statute if the President agrees with the recommendation of the Dean, which he did, he not only just agreed with it. He did his own evaluation and said:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for your kind attention to our motion. Our firstI'm going to waive an opening and refer you to my Answer and Rebuttal of the charges, particularly since we are trying very hard to conclude this proceeding.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review here is simply not true, but most importantly, I think, once under the statute if the President agrees with the recommendation of the Dean, which he did, he not only just agreed with it. He did his own evaluation and said: "Upon careful review of his	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for your kind attention to our motion. Our firstI'm going to waive an opening and refer you to my Answer and Rebuttal of the charges, particularly since we are trying very hard to conclude this proceeding. Our first witness is Dr. Parrish.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	enjoyed with respect to any requirements of unit Factors. The Board of Governors statute does not prohibit a Motion to Dismiss, or for summary judgment. There is precedent. There was one case that preceded this, and a Motion to Dismiss was granted at the conclusion of the Employer's case, and that is what we seek here. We ask that the Committee consider it now in Executive Session and grant our motion. MS. GALANTE: May I just briefly address his issue of peer review? The Dean and all of the people that he consulted with, all the chairs, Dr. Delaney-Black, the Vice President of Research, all the people that we heard were involved in the initial process, they were evaluating his academic record as judged by his peers on a yearly basis. Okay? So to say there was no peer review here is simply not true, but most importantly, I think, once under the statute if the President agrees with the recommendation of the Dean, which he did, he not only just agreed with it. He did his own evaluation and said:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	we will take the Committee, and we will step out and go into Executive Session briefly. MS. GALANTE: Okay, or do you want us to leave? Because I don't know where else you can go. We'll step out. CHAIRPERSON STATHAM: All right. (At 12:43 p.m., recess taken) (At 1:16 p.m., back on the record) CHAIRPERSON STATHAM: We will go back on the record. Mr. Gregory, you asked the Committee to consider your Motion to Dismiss in Executive Session. We have done that, and we arewe have agreed that we will take your motion under advisement and not rule on it at this time, and we would like you to proceed with your case. MR. GREGORY: All right. Thank you, Mr. Chairman, and members of the Committee as well, for your kind attention to our motion. Our firstI'm going to waive an opening and refer you to my Answer and Rebuttal of the charges, particularly since we are trying very hard to conclude this proceeding.

Page 339 Page 341 1 raise your right hand? Do you swear to tell the 1 Q Is the Union--2 truth, the whole truth and nothing but the truth? 2 I'm also Vice President of the Michigan AFT. 3 DR. PARRISH: I do. 3 Q Is the Union committed to providing representation 4 4 CHARLES JAMES PARRISH to those faculty of the School of Medicine who were 5 5 (At 1:17 p.m., sworn as a witness, alleged to be unproductive and received notices to 6 6 that effect? testified as follows) 7 DIRECT EXAMINATION 7 A Yes. They are members, and they get representation. 8 8 BY MR. GREGORY: We guarantee their right to due process. 9 Q Please state your full name for the record. 9 Q What has been your involvement in the process? 10 10 A Charles James Parrish. Among the 43 or so people who have received letters 11 11 Q And what is your position at Wayne State University? basically threatening, saying that if they didn't 12 A I'm Professor of Political Science and President of 12 basically pull up their socks, they would-the Wayne State AAUP-AFT, Local 6075. MS. GALANTE: I object to the 13 13 14 Q And what department are you in at the University? 14 characterization. 15 A Political Science. 15 THE WITNESS: Sorry. 16 16 Q And are you tenured, of course? MS. GALANTE: There is no foundation for 17 17 Α 18 Q How long have you been on the faculty? 18 THE WITNESS: But they were in the course 19 19 A Since 1971. I trump Dan Walz. of that, that they said that the proceedings could 20 20 Q What is your current position in the AAUP-AFT? lead to termination in that letter. 21 21 A I'm President of the Union. Q (By Mr. Gregory) Do you know who was responsible 22 Q How long have you held that position? 22 for the process that was invoked in March of 2016, 23 23 Oh, on and off for 15 years. and particularly due to the fact that for many years 24 Q And what prior positions have you held? 24 the School of Medicine had been told to take action 25 A I was chair of the Political Science Department from 25 to correct alleged underperformance? Page 340 Page 342 1 1971 to 1976. I was Director of the Institute of 1 A Well, it's a complicated story, but it began back in 2 Gerontology from--also from 1972 to 1985. 2 the period when Parisi was--Valerie Parisi was Dean. Q Have you been a member of the Union's negotiating 3 3 I know that she went to the Board of Governors and 4 committees? 4 in the course of conversation complained about her 5 5 A On various of them, yes, a number of them. faculty, that there were people who were collecting 6 6 Q How many times? a salary and living elsewhere and so on. 7 7 A Oh, beginning in 1986, I was on almost all of them, The Board then ordered a review by the 8 lacking perhaps two. I think one. So I have been 8 internal auditor. That review has, I think, already 9 involved in negotiations since then. 9 been referred to here, to see--and they looked at 10 10 Q Do you hold any positions in the Michigan Conference around 50 faculty members and decided that there 11 11 AAUP? were some that were not perhaps doing well, but most 12 A I'm President of the Michigan Conference. 12 of them were doing fine in terms of their--I think 13 13 they termed them as being active. Q For how long? 14 14 A Oh, I've been President for--again, on and off, It was something that was in response to 15 1.5 because there are term-limited and so on, on and off the Board's deep concern about the status of the 16 faculty at the School of Medicine. 16 since the early 1990s. 17 Q What action if any was taken at that time? 17 Q Do you hold or have you held positions in the 18 None so far as I can tell, that--so far as I can 18 national AAUP? 19 19 A I have been a member of the National Council for tell. The person, I think, by rumor but I don't 20 20 over a decade. know if it's true--21 MS. GALANTE: Well, I'm going to object if 2.1 Q Are you currently holding any position in the 22 22 it's hearsay. 23 THE WITNESS: Okay, fine. 23 A Not in the National AAUP, although in the AFT I am a 24 CHAIRPERSON STATHAM: Sustained. 24 member of the Higher Education Policy Committee of 25 THE WITNESS: That's fine, but I think 2.5 the National AFT.

Page 343 Page 345 1 1 THE WITNESS: That's right. there were some effects in the faculty, but there 2 was no--to my knowledge there was no systematic 2 CHAIRPERSON STATHAM: Testifying as to the 3 3 attempt to bring the faculty up to a different goals of the Medical School on the basis that he 4 standard of productivity or anything of that sort, 4 can't speak for the Medical School. You can 5 5 or performance. testify, Mr. Parrish, to what somebody told you, 6 what you heard. 6 After Roy Wilson was hired as President--7 7 THE WITNESS: I can testify--I can he was a former Dean of a medical school and former 8 8 certainly testify to many of the things that I heard President of the University of Colorado Denver--he 9 9 initiated changes in the Medical School which in these meetings with the faculty and with their 10 10 involved the appointment of a different Dean, administrators. 11 11 appointing Jack Sobel. I can give you examples of meetings in 12 He also hired several people externally, 12 which Dr. Delaney-Black was present in which people 13 David Hefner, his Vice President for Health Affairs. 13 were admonished, that they should submit grants to 14 Dwight Munson was brought on as his assistant, and 14 places that have high overhead, that we have a--15 15 I can give you a specific example. I was eventually Lisa Keane was brought on as the head of 16 16 the faculty practice plan, the University Physicians asked to sit, asked to represent a faculty member in 17 17 Oncology, and we met with the chair of Oncology, and Group. 18 18 he was--From that time forward there was a 19 19 tremendous pressure on the Medical School faculty in This particular faculty member was 20 20 terms of the pressure to increase the productivity presented with the results of what Dr. Delaney-Black 21 21 in terms of grants that was cited in my many said she had basically produced based upon the 22 22 meetings with the-annual salary estimations in the Department of 23 23 Well, as part of this process, some 40 to Oncology. 43 faculty members were sent letters saying that 24 24 As a result of this, this was a faculty 25 they were--that they should have some kinds of 25 member who was tenured in 2014 and was being put on Page 344 Page 346 1 expectations for improved productivity or they were 1 the list to be de-tenured in 2016. It was reversed. 2 2 subject to possible termination. We had a variety of people. Professor 3 3 I sat in on many of their interactions to Larry Matherly (phonetic) was there and so on, and 4 represent them, in many of their interactions with 4 the result was that the chair did not know that he 5 the administration as this went forward. 5 had submitted, I think, three other grants since 6 I would--my estimate, my judgment is that 6 that time and that--and it was eventually he was 7 the goals of the Medical School--7 taken off the list, but this was wholly an 8 MS. GALANTE: I'm going to object that you 8 administrative operation. 9 are stating what the goals of the Medical School 9 He was told that he should not submit 10 are. I think there is no foundation for him to--10 to--basically he should submit to--CHAIRPERSON STATHAM: Sustained. 11 11 MS. GALANTE: I'm going to object. Isn't 12 THE WITNESS: Well, my--12 this hearsay, that he is telling us what other 13 MS. GALANTE: That means you can't answer 13 people said as out of court statements? 14 the question. 14 CHAIRPERSON STATHAM: I'm going to 15 15 overrule you, and--well, it is hearsay. I'll take THE WITNESS: No. I understand that. 16 CHAIRPERSON STATHAM: You don't have to 16 it for what it is. 17 17 MS. GALANTE: I mean, we don't know the explain. 18 THE WITNESS: Thank you very much. I specifics. How do I cross-examine? I don't know 18 19 19 understand. I've been here many times, Linda. who the faculty member is. I don't know when this 20 20 MS. GALANTE: I stand corrected. I stand meeting took place--21 21 corrected. Since the question was sustained, and he THE WITNESS: I can tell you--22 was continuing to answer--22 MR. GREGORY: He just told us that part. 23 23 CHAIRPERSON STATHAM: Yeah. He was THE WITNESS: I just told you I can tell 24 talking about the goals, and you objected to his--24 vou. 2.5 MS. GALANTE: Right. 25 CHAIRPERSON STATHAM: I think that's a

Page 347 Page 349 1 1 question you can ask him on cross. which to bring pressure on people who perhaps aren't 2 THE WITNESS: Sure. 2 performing up to the level that the Salary 3 CHAIRPERSON STATHAM: And it is hearsay, 3 Committees believe they ought to be performing. 4 4 but we'll take it for what it's worth. If they are not performing there are these 5 5 THE WITNESS: It's what I experienced sanctions, and we even have a section at the end of 6 6 myself and heard, and it was also supported, by the it which says that if you--that the administration 7 7 if they--if people don't perform well and improve way, by an earlier version of the expectations grid 8 8 that we saw here, in which people that had a thing their thing, that it's up to the administration at 9 which said in that grid--and you can look at it if 9 that point to do what they please with respect to 10 10 it is available-the Board of Governors statutes. 11 11 It said that you should submit to NIH, So we have been very deeply concerned 12 12 NSF, or the Department of Defense, and the reason about this, and we have great sympathy with the 13 was the high--as Dr. Beppler (phonetic), chair of 13 problems of the Medical School, but at the outset of 14 14 this I advised Jack Sobel and I advised the faculty the department, said, it was high overhead. 15 15 So it was pretty directive in terms of that what they should do is they should go through 16 16 what you should be doing in terms of your own work. this mentoring process. 17 17 Q (By Mr. Gregory) Why is that a concern? I talked with the President about this. 18 18 A It's a concern because it is a violation of the The President's response was he wasn't prepared to 19 19 academic freedom that is guaranteed by tenure. wait three years, and I reminded him that tenure 20 20 Tenure is a guarantee of academic freedom and a takes a long time. Tenure revocation takes a long 21 21 guarantee that you can do the research that you time too, and it is a very difficult process. 22 22 think is interesting and important to you. So am I--is that responsive enough? 23 23 Once you get tenure you have that right, Q Yes, indeed. Let me return momentarily, Dr. 24 and the problem is that at the present in my 24 Parrish, and I'm looking at Respondent's Exhibit 1, 25 25 estimation, in my experience from sitting in on all which was the copy of the internal audit done in Page 348 Page 350 1 September of 2010, and at page 6 of that exhibit the 1 of these things, is that the School of Medicine is 2 2 auditors recommended that a determination be made if interested in bringing in money from grants to 3 there was compliance with the University policy, 3 defray the salaries of the researchers, and that 4 05.05, which is also in evidence, and calls for peer 4 that is a paramount concern, and their concern for 5 5 review of performance. tenure is de minimus. 6 6 It also references Article XXIV, at that Q Does that mean the Union sanctions faculty that 7 7 perhaps really do nothing? time, which did have a provision about performance: 8 A If you do nothing, there are--we have over the 8 "...substantially below the unit 9 period of our negotiations, we have negotiated in 9 factors expectations for a period of 10 Article XXIV various kinds of ways in which you can 10 three years." 11 mentor faculty who are seen in the annual salary 11 12 process to not do as well as others in professional 12 Q Do you know based upon your knowledge and experience 13 13 terms. whether there was any follow-up by the School of 14 That we have negotiated. We have made it 14 Medicine in regard to those--15 stronger as we have had these discussions. For 1.5 A So far as I know, there was none. The Article XXIV 16 example, we--I think Dr. Delaney-Black had testified 16 has been, despite our struggles in negotiating it in 17 that we put sanctions in so that if you persistently 17 attempting to address this, the administration has 18 don't submit--18 been very, very reluctant to invoke this or to deal 19 We did have cases of people who would not 19 with this particular issue. 20 submit their annual summaries, their three-year 20 I know of no Article XXIV actions in the 21 summaries, and they were being given across-the-21 School of Medicine. 22 board. Now they cannot do that. If they do it two 22 Q What is post-tenure review and the Union's position 23 years in a row there are sanctions, and you don't 23 regarding it? 24 even get any salary increase for that. 24 A Post-tenure review is to review people who have not 25 The Union has agreed that this is a way in 25 measured up in terms of the standards as you

Page 351 Page 353 1 1 enunciated them with Article XXIV, and to deal with termination, tenure track faculty members. 2 this. There is a great movement toward post-tenure 2 I think when the President appointed the 3 3 review in higher education. team that is running the Medical School, Hefner and 4 You have states like Wisconsin which are 4 Keane and Dwight Munson, that we started down this 5 5 passing laws, and Iowa, Texas, that are passing laws track of the revocation of tenure. 6 to try to force post-tenure review in a systematic 6 We now have two cases, and the main--on 7 7 the main campus, and they are going to have a lot 8 We have dealt with that through Article 8 more, I suspect. 9 XXIV, and that's what we thought we were getting 9 Once the administrators get this in 10 when we did these very difficult negotiations. The 10 their--and particularly after this latest 11 administration has not responded appropriately in 11 arbitration, which I think the University and the 12 the view of the Union to this. 12 Union both lost, we are going to have administrators 13 Q Why is peer evaluation important, if it is, and does 13 picking off faculty members they don't like or who 14 it also involve elements of faculty governance? 14 are perhaps vulnerable in the fact that they haven't 15 15 A That is the key. The key is tenure is a difficult published much in the last few years. 16 subject. The criticism is why should people have 16 It's going to transform Wayne State 17 17 lifetime, you know, protection due to tenure. University. It's going to transform our nature in 18 18 My view of tenure is that it's somewhat higher education. 19 19 like Churchill's view of democracy. It's the worst There is a possibility if this continues 20 of all possible systems except for all others. 20 that we will become a pariah university, where we 21 This system is to be--this system is one 21 will find that people will not want to come here 22 22 that has--that does incur some losses, some because of our reputation and the lack of respect 23 23 problems, but it is the one that protects the for tenure. 24 concept of why we have universities. 24 I think that this is a responsibility that 25 We have universities to generate 25 this Hearing Panel has to put an end to it and stop Page 352 Page 354 1 1 knowledge, and the generation of knowledge means it right now. 2 2 Q Dean Sobel in his March 23, 2016 letter to some 40 that the research that is done there must be 3 3 protected and that the researchers must be members of the faculty in the School of Medicine 4 protected. 4 asserts that they have failed--5 5 After we get--we go through a tenured MS. GALANTE: Wait. I'm going to object 6 6 system and the tenure system decides that you get there, because you're taking one letter and now 7 7 tenure, well, after that what you do in research is saying that all 40--which you haven't established 8 8 how many letters have been sent out--all say the really up to the individual person. 9 If you take the instant case, an argument 9 same thing. 10 10 can clearly be made, and it will be made, I think, There is no foundation for that. I think 11 11 that Professor Needleman changed his research. we need to stick to the facts of this case, which is 12 He was--for whatever reason. It's up to 12 one letter. 13 him--he changed his research, and that research is 13 MR. GREGORY: Well, I thought we had 14 not valued by the administration of the Medical 14 testimony that it was the same letter. 15 School or the administration of the University. 15 CHAIRPERSON STATHAM: I thought--that's my 16 The problem is that our view is that peer 16 recollection too. 17 review has to be part of the process, has to be at 17 MS. GALANTE: From whom? 18 the heart of the process of the protection of 18 MR. GREGORY: I thought that--19 tenure. 19 MS. GALANTE: No. Dr. Delaney-Black said 20 Tenure is vital, and I'm afraid that if 20 she did not--she did not say that. I can probably 21 this case goes negatively, that this will be the 21 find it. 22 opening shot for a broader--much broader tenure 22 MR. GREGORY: Well, I'll tell you what. 23 attack, and I don't know of any other university 23 I'll recall Dr. Parrish, but meanwhile I will call 24 that has singled out 40-some faculty members and 24 Dean Sobel and he can testify. 25 said that they are basically subject to possible 25 Will you produce him for me then, so we

Page 355 Page 357 1 1 letter that were sent, and I think that from the can clear this up? 2 2 meetings that we held in which Dr. Delaney-Black was MS. GALANTE: You want all 43 letters that 3 3 present at most of them, we held with various were sent out. I will stipulate--4 4 MR. GREGORY: I don't want the letters, faculty members who had received that letter, to my 5 5 because I know they are all the same. knowledge, to the best of my knowledge they received 6 6 MS. GALANTE: Well, then why don't you ask that letter. 7 7 the witness if he has seen them and if he can verify They were certainly having meetings, and I 8 8 that they are the same? have seen more than one letter, and they are all 9 I mean, your question was based on the 9 the--all the ones I've seen are the same. 10 10 assumption that they are all the same. I think that you--that we find that 11 11 MR. GREGORY: Well, I'm confident they productivity is almost always defined in terms of 12 were all the same, but if you are disturbed by that, 12 grants and grant money, increasing grant money and 13 we'll get the Dean back in. Do you want to do that? 13 increasing salaries devoted to put on those grant 14 14 MS. GALANTE: Not right now. I think you 15 should finish with your case. I guess the question 15 Q We have noted on this record that productivity does 16 is, you're asking this witness about what these 16 not appear in the collective bargaining agreement. 17 letters say without establishing that he has seen 17 18 them all. 18 **Q** Does not appear in the School's Promotion and Tenure 19 That is a simple question, and now you 19 Factors, does not appear in the scoring. Is it 20 want to call the Dean back in. 20 essentially a non-academic concept, productivity, MR. GREGORY: Yeah, I do, because you are 21 2.1 just from administrators worried about the budget in 22 phrasing that, because I think you know as well as I 22 the School of Medicine? 23 do they were--23 A It's a commonly used euphemism, I think, for work, 24 MS. GALANTE: I have not seen 43 letters. 24 scholarly work or whatever, and then administrators 25 The only letter I have seen is the letter in this 25 are more prone to use that than I think are faculty Page 356 Page 358 1 1 case, so I can't--I mean, I don't understand why or faculty leadership. 2 this is--either this witness has seen them and can 2 The question is from my experience in 3 3 testify to them or he can't, but I don't-these meetings, is that it is very clear that this 4 I object to a broad question about all 43 4 is something that was particularly present in the 5 5 letters in this case. meetings and in the information that the faculty was 6 6 CHAIRPERSON STATHAM: Okay. Do you want being given after the advent of this new management 7 7 to rephrase your question? team, who is very experienced and very talented 8 8 MR. GREGORY: I understand. I'll people but primarily are their non-academics. 9 9 They're not professors. They're not rephrase, but I'm not going to abandon the other 10 10 question. clinicians. They are people who know medical 11 11 Q (By Mr. Gregory) Dr. Parrish, our Joint Exhibit 2 finances and are pretty good at that, and I have to 12 12 in this case is a March 23, 2016 letter from Dr. say, you know, I admire their expertise. 13 13 Sobel to Dr. Needleman, and in it the Dean asserts, I don't think they should be in charge of 14 and I quote: 14 medical schools. 15 "...because of their..."--15 Q Based on your experience, does every grant provide 16 meaning among others Dr. Needleman--16 full salary compensation? 17 17 "...failure to maintain sufficient level A No, not usually. 18 of productivity." 18 How does that work? 19 Is that a term you are familiar with? Do 19 A Well, what happens is that you provide indirect 20 vou know what that means? 20 costs. You will have an allocation of your salary, 21 21 A No. I don't know specifically what that means. I part of your salary. The average, I think, of your 22 can certainly tell you what my impression is in 22 salary is probably in the--across NIH, probably in 23 dealing with these people. I have seen more than 23 the range of 25% or more. 24 one letter. 24 Traditionally here there was a problem of 25 I'm quite sure that they are all the same 25 people not putting enough of their salaries on the

Page 359

direct costs, and certainly that needed to be increased because people here were paid 12 months salaries.

If you were sitting there and looking at whether or not to allocate 25 or 30% of the salary on your grant, or allocate 10% and then put the other money into a post-doc, you would get greater productivity, and you assume--

The problem with that system was that the chairs signed off on this. The administrators signed off on this. The public view seemed to be that it was all the fault of the faculty members.

The incentives were there, and they were signed off on by faculty chairs and so on. So certainly there is a challenge to increase the amount of money that is offloaded on the grants, but everybody has got some problems with it.

Everybody has got their hands dirty with that particular system, and I think that it has been announced publicly. It was announced in my hearing at one of the retreats that I was graciously invited to by the Dean of Medicine, that the average out there was 40% across medical schools.

That was countered by some work that was done by faculty members in which they said it was

Page 361

Q And who was on that committee?

A I'm sorry. I didn't review that. There are so many two-in committees. I can't recall.

Q Was Provost Margaret Winters on it, for example?

A Yes, she was. She was. Yes. That--you're quite right, and I appreciate your reminding me, but Provost Margaret Winters and so on, we thought we had a reasonable solution to this.

What had happened was that in the period of the previous President, we had a proposal, a Draconian proposal on tenure that we pointed out that tenure revocation could come, that a person could be notified for tenure in their proposal on one day, have a hearing that day with whoever was the administrator, be fired the next day, and the Union couldn't do anything until they were already on the street.

We stopped that, a combination that didn't come--I think we talked with the Board of Governors, and we talked with people externally, and they ultimately withdrew it, but we had--

We did work this out, and this was--and Margaret was one of the people involved in the recommendations.

Q Now did this joint two-in committee of

Page 360

Page 362

nearer 25% at best. So it's a complex kind of series of issues.

Q Has the administration at the School of Medicine or the University generally come to you to negotiate any changes to deal specifically with the School of Medicine budget issues?

A No. I have advised--I advised Jack and I advised--you know, I wrote to the faculty of the School of Medicine that I knew--that we would hope that the devices in the contract were sufficient to deal with these problems, and they said no.

The President said no, that he wasn't prepared to wait three years while the mentoring process went on.

Q Was there a substantial amendment to Article XXIV, Section (C), in the last collective bargaining?

17 A Yes.

Q And what was that amendment?

19 A That was making much more--making stronger the 20 sanctions for those people who had not submitted 21 their three-year summaries of their CVs in each 22 vear. so--

Q Was there a recommendation prior to that from a two-in committee?

25 A Yes.

administration and faculty reach an agreement and recommendation?

A Yes. I don't remember all the details, but essentially it was--the weight was in strengthening the mentoring process.

Q And do you recall consideration of whether the procedure should be punitive or remedial, and they decided it would be remedial?

A They decided that it should be remedial rather than punitive. That was the key to it.

Q And do you recall, did they deal with concerns of academic freedom and due process?

A Yes, and that people should have academic freedom and due process, and they should--and it wasn't spelled out with great specificity, but the principle was certainly enunciated.

Q Prior to the situation we now have in the School of Medicine--you have been around here a long time--

A To say the least.

Q How many dismissal proceedings have we had?

A We have had two in my experience, and one was in the Adamany administration, but around 1990, and it was a member of the Engineering Department, and it was--it got to the hearing--to a Hearing Panel.

I sat in on that panel although he had his

Page 363 Page 365 1 1 own lawyer, not the Union's lawyer, and the panel Q And you heard Dean Sobel's testimony here? 2 2 voted in favor of the faculty member, and that was Α Yes. 3 3 Q Correct? Are you telling this Panel that you do not the end of that. 4 4 The second one was the one that we believe Dean Sobel is sincere when he says he has 5 5 referred to here. It was a case of someone who was the highest respect for the concept of tenure? 6 tenured at 40%. Because he was tenured at 40% he 6 A No. I--7 7 Q That's a "yes" or "no," and-was not a member of the bargaining unit. You have 8 8 to be 50% to be a member of the bargaining unit. MR. GREGORY: No, no. 9 So we did not represent him, but his 9 THE WITNESS: No. Well--10 10 lawyer went through the same procedure that we have MR. GREGORY: He can answer it. 11 MS. GALANTE: It's a "yes" or "no" 11 here, and it was dismissed in summary judgment 12 before any defense was given. 12 question, and he is saying no, he is not. THE WITNESS: Yes, or no. I said no. 13 Q And to your knowledge, there are four School of 13 14 Medicine cases pending after this case? 14 CHAIRPERSON STATHAM: She can ask leading 15 15 A Yes. So we don't have the schedule. They're not questions. 16 16 all scheduled. THE WITNESS: No. I believe that Jack 17 17 Q And in the faculty generally, there are two has--is a sincere man. He is a very decent man. He 18 18 possibilities pending, you say? is someone I have had great respect for over time. 19 19 A There are two in the--there are two on the other Indeed I was the one who first introduced 20 side of the campus, and one in the Education School 20 him to President Wilson, and that was the first time 21 and one in the College of Liberal Arts and Sciences, 21 he had gotten to meet him. 22 22 and they are just at the beginning stage of this. I was very pleased when Jack was appointed 23 23 I met with the individual, the people and as Dean, because I thought that Jack had a sincere 24 the Deans involved, and we will have another meeting 24 commitment to academic values. I think that he has 25 25 shortly. made some mistakes, I think, in terms of the way in Page 364 Page 366 1 which this has operated, and I have differences with Q Do you have any knowledge or information as to why 2 2 the President didn't meet with Dr. Needleman and him, but I respect him. 3 perhaps others before the charges were actually 3 Q (By Ms. Galante) Do you believe his testimony when 4 issued? 4 he said that he gave careful and individual 5 5 A No. I have no--I have not discussed that with the consideration to every one of these cases? 6 6 President at all A Oh, I think that's--yes. I think that's--I believe 7 7 MR. GREGORY: I have nothing further. him. That's the problem. The problem is that--8 8 Q My question doesn't call for you to give me a whole Thank you, sir. 9 CHAIRPERSON STATHAM: Counsel? 9 explanation. Yes or no? 10 MS. GALANTE: Thank you. 10 A I won't explain it to you. Q It's just a "yes" or "no," if you believe him or you 11 **CROSS-EXAMINATION** 11 12 BY MS. GALANTE: 12 don't, and you said that you do. 13 Q So in your direct examination, Professor Parrish, 13 MR. GREGORY: No. This thing doesn't work 14 14 you indicated that these letters that the Dean sent that wav. 15 15 to the faculty stated before taking further steps MS. GALANTE: Yes, it does. On cross-16 there was--your criticism was there was no attempt 16 examination if he wants to--17 17 to increase the level of productivity. CHAIRPERSON STATHAM: She can ask leading 18 So you yourself had used the term, 18 questions, but I think he has got a right to give 19 "productivity," haven't you? 19 you an answer to your question. 20 A Yes, and mistakenly. 20 MS. GALANTE: My question was does he 21 2.1 Q Mistakenly? I have to laugh, but that's what you believe him or does he not, and he answered that he 22 said. So you talk about this internal audit, and 22 does believe him. 23 Dean Parisi. Now that was a different 23 CHAIRPERSON STATHAM: Okay. True. 24 administration. Am I not correct? 24 Q (By Ms. Galante) So how many faculty are there 2.5 A You are absolutely right. 25 total--well, am I correct that there are at least

Page 367 Page 369 1 1 600 faculty in the School of Medicine? it, but I'm only talking about Article XXIV. The 2 2 arbitrator ruled, did he not, that after pages--this A Yes. 3 3 Q And out of those 600 faculty, am I also correct that is a 38-page decision that went through all of the 4 4 there were only 40 to 43 letters that were sent, arguments that were raised by the Union. Is that 5 5 such as the letter that Professor Needleman correct? 6 6 He thoroughly addressed all the arguments received? Is that correct? 7 7 A Yes, but I can-raised? 8 8 Q That's all my question was. Were there more A He addressed them. He did not thoroughly address 9 letters? 9 any of them, many of them. 10 10 Q But he addressed them. Okay. We're not going to A Yes, only 43. 11 11 Q Only 43. Now that may sound like a lot. I'm not criticize arbitrators here today, but--12 minimizing that by any stretch, but he testified 12 A Oh, I am. 13 that he was doing a review of all the faculty, and 13 Q Well, you can, but he--read this if I am correct: 14 he also testified--14 "I deny the grievance that utilization 15 Do you believe that he was sincere in his 15 of Article XXIV is a mandatory predicate 16 16 statement about how--what he identified as before the Employer can bring a Board of 17 17 unproductive faculty affected the morale of other Governors statute dismissal proceeding for 18 18 hard-working faculty in this School? alleged performance issues." 19 19 A Not as much as the action against the 43 is Have I read that correctly? 20 affecting morale. 20 A You have read that correctly, and--21 Q So you think that that has more effect, but do you 21 Q And that's on page 36. That's the only question on 22 22 believe him when he says that--well, this is a new the table, whether I have read it correctly, and 23 23 procedure. that is on page 36 of this Opinion. 24 A I believe him. 24 MS. GALANTE: I move for admission of this 25 25 O You believe him. Okay. as the Employer's Exhibit 18. Page 370 Page 368 1 1 A It's a new procedure because it is so unusual. (At 1:59 p.m., Employer's 2 2 Q Well, there have been questions throughout here on Exhibit 18 marked) 3 cross-examination by your Counsel about why didn't 3 CHAIRPERSON STATHAM: Mr. Gregory? 4 we do something before. 4 MR. GREGORY: I wish Counsel--in fairness, 5 So now that we are finally doing it, you 5 would you read the second part to the Committee 6 are criticizing the administration for doing what 6 about mentoring? What does it say about--7 they are being criticized for not having done 7 MS. GALANTE: That's not the issue we are 8 sooner. Is that correct? 8 discussing. 9 A I'm criticizing them for not having taken advantage 9 MR. GREGORY: Oh, yes, it is. 10 10 MS. GALANTE: The issue is whether or of the remedies that we negotiated to try to deal 11 11 with this problem. not--no. There is a procedure for mentoring under 12 Q Which brings me to the decision in the grievance 12 Article XXIV. 13 13 that you filed, and Mr. Gregory represented you, and MR. GREGORY: And it's mandatory, is it 14 14 I now have to admit this entire decision, because not? 15 15 many of the statements you made here are arguments MS. GALANTE: No. What it says is--16 16 that you raised in this arbitration. MR. GREGORY: You can't have your cake and 17 Am I correct that the Union did not 17 eat it too. 18 18 MS. GALANTE: All right. I will read it. negotiate and could have negotiated--they might not 19 19 have gotten an agreement, but there was no agreement "I grant the grievances that the 20 20 Employer cannot use a mentoring procedure that Article XXIV is a mandatory process? It's an 21 21 different from the mentoring procedure in option? 22 22 A The decision that was taken in the Hornberger Article XXIV." 23 23 decision is a decision in my view that the So if we're going to mentor Professor 24 24 administration and the Union lost. Needleman, we are supposed to do it pursuant to 25 Article XXIV, but it doesn't say that mentoring is 2.5 Q Well, I understand that there are other pieces to

	Page 371	Page 373
1	mandatory.	1 referenced involving a faculty member who was a 40%
2	MR. GREGORY: Well, you are mentoring now,	was dismissed was on the notice issue. Is that
3	SO	3 correct?
4	MS. GALANTE: I'm mentoring?	4 A I don't know. I didn'tI never saw his letters or
5	MR. GREGORY: I'm trying to tell you	5 his interaction. That, it was allit would be all
6	youwell, never mind.	6 hearsay. I talked with him.
7	MS. GALANTE: You know what?	7 Q And I couldI have that Opinion with me. If it's
8		
9	CHAIRPERSON STATHAM: Do you have any	8 necessary I can probably admit that. Let me give 9 that some thought.
	objection, Mr. Gregory, to the admission of the	
10	Hornberger arb decision?	jum, see a ceparate case state esparate
11	MR. GREGORY: Yes. It's irrelevant.	11 facts. Will you agree to that?
12	MS. GALANTE: I don't see how it can be	12 A Of course.
13	irrelevant when Dr. Parrish is here testifying about	13 Q And you were not involved in that case?
14	Article XXIV and raising the same arguments that	14 A No.
15	were raised.	15 Q Nor the other one, so you don't really know what the
16	CHAIRPERSON STATHAM: I'm going to	16 facts were?
17	overrule you. I think the Committee would like to	17 A I was involved in the first one.
18	see the arbitration award.	18 Q You were in the first one. I stand corrected. Of
19	MR. GREGORY: All right.	19 the 43 letters that were sent, you heard Dean
20	CHAIRPERSON STATHAM: After all the talk	Sobel's testimony about how when he met with them,
21	about it.	some of them he felt that there were other things
22	(At 2:00 p.m., Employer's	22 that could be done?
23	Exhibit 18 received)	He gave individual consideration to each
24	MS. GALANTE: I have copies of just the	case. Do you have reason to disbelieve him in that
25	ruling portion, but I will have copies made of the	25 regard?
	Page 372	Page 374
1	entire Opinion.	1 A Dean Sobel did that, and he did it entirely on his
2	•	
	CHAIRPERSON STATHAM: Yeah. We'd like the	2 own judgment, no reference to any peer review
3	CHAIRPERSON STATHAM: Yeah. We'd like the whole	The second of th
	whole	3 whatsoever.
3 4	whole MS. GALANTE: Because it has become an	 3 whatsoever. 4 Q Do you consider this hearing peer review?
3 4 5	whole MS. GALANTE: Because it has become an issue.	whatsoever. 4 Q Do you consider this hearing peer review? 5 A I consider this hearing as following the required
3 4 5 6	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your	whatsoever. 4
3 4 5 6 7	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first
3 4 5 6 7 8	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure
3 4 5 6 7 8 9	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation.
3 4 5 6 7 8 9	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there.	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's
3 4 5 6 7 8 9 10	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may	whatsoever. 4
3 4 5 6 7 8 9 10 11	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"?	whatsoever. 4
3 4 5 6 7 8 9 10 11 12 13	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes.	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the
3 4 5 6 7 8 9 10 11 12 13 14	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his
3 4 5 6 7 8 9 10 11 12 13 14	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is.	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation?
3 4 5 6 7 8 9 10 11 12 13 14 15 16	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct?	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct.	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct. Q So of these 43 letters, would you agree with me, Dr.	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct? A It says what it says. Of course it does.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct. Q So of these 43 letters, would you agree with me, Dr. Parrish, that this letter that Professor Needleman	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct? A It says what it says. Of course it does. Q And of these 43 cases, there are five that are
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct. Q So of these 43 letters, would you agree with me, Dr. Parrish, that this letter that Professor Needleman received from Dean Sobel dated March 23 puts him on	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct? A It says what it says. Of course it does. Q And of these 43 cases, there are five that are subject to this dismissal proceeding?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct. Q So of these 43 letters, would you agree with me, Dr. Parrish, that this letter that Professor Needleman received from Dean Sobel dated March 23 puts him on notice that the University may be taking further	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct? A It says what it says. Of course it does. A The Dean has stated that they are up to 11 that are
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct. Q So of these 43 letters, would you agree with me, Dr. Parrish, that this letter that Professor Needleman received from Dean Sobel dated March 23 puts him on notice that the University may be taking further action?	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct? A It says what it says. Of course it does. And of these 43 cases, there are five that are subject to this dismissal proceeding? A The Dean has stated that they are up to 11 that are being counted right now.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct. Q So of these 43 letters, would you agree with me, Dr. Parrish, that this letter that Professor Needleman received from Dean Sobel dated March 23 puts him on notice that the University may be taking further	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct? A It says what it says. Of course it does. A The Dean has stated that they are up to 11 that are
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	whole MS. GALANTE: Because it has become an issue. Q (By Ms. Galante) I would like to now turn your attention to Article XXIV, which was negotiated, and ask you under Section (1), "Faculty Professional Duties," Subparagraph (c), "Professional Review and Development, Paragraph (5) under there. Am I correct that it says, "may recommend"? A Yes. Q Okay. So again A It is what it is. Q The language of the contract is that it is permissible, but it is not mandatory. Correct? A Yes. That is correct. Q So of these 43 letters, would you agree with me, Dr. Parrish, that this letter that Professor Needleman received from Dean Sobel dated March 23 puts him on notice that the University may be taking further action?	whatsoever. Q Do you consider this hearing peer review? A I consider this hearing as following the required Board statutes. The peer review I'm concerned with is the peer review when you takewhen you first accuse people or bring them into the tenure revocation. Q Is there anything in the Board of Governors's statute that says that the administration has to have some peer review in addition to the recommendation of the Executive of the School to the President, and then the President giving his recommendation? A The statute says what it says. Q Okay, and this Hearing Panel consists of all faculty members. Correct? A It says what it says. Of course it does. And of these 43 cases, there are five that are subject to this dismissal proceeding? A The Dean has stated that they are up to 11 that are being counted right now.

Page 375 Page 377 Q So there are a total of five cases? 1 1 decisions. He made the decision? 2 A Yes. 2 A They made recommendations to--I think Dr. 3 Q One of which is this current case? 3 Delaney-Black said that they made recommendations to 4 4 A Yes. the Dean. Of course the Dean made the decisions. 5 5 Q And I know you have expressed on your direct He is the responsible person. 6 examination that you are fearful that this is going **Q** There is nothing about this process that violates to be the downfall of Wayne State University, and 7 7 the contract, however, is there? 8 8 that this is going to open the flood gates to A I would reserve judgment on that. I don't--every 9 faculty being de-tenured. 9 aspect of this, it depends. We believe that the 10 10 Do you not think that the process contract gives due process to every faculty member, 11 11 implemented here gives a faculty member adequate due and we wish to defend it, and any violations of that 12 process, to have a hearing like this with six 12 we view as a violation of the contract. 13 faculty members? 13 Q And aren't you defending that here today? 14 14 A I think that--certainly I'm not criticizing the fact A Absolutely. 15 15 that we--that there are six faculty members Q Okay, but you haven't filed a grievance, at least to 16 16 available who can exercise their judgment as to the my knowledge, saying that this process violated the 17 17 validity of the administration's case. contract? 18 A We have to see how this comes out. 18 What I am much more deeply concerned about 19 19 is the meat axe approach of identifying 43 faculty Q So depending on the results, you may do that, but as 20 20 members, or any large group of faculty members for of this point--21 A We'll see. 2.1 the possibility of sending them through this 22 Q We'll see. Okay. Am I correct in reading Article 22 23 23 Q So you describe it as a meat axe approach, sort of 24 24 "Except as modified by this agreement, just putting people on the chopping block, which 25 the following actions formally approved by 25 means you are saying that you don't believe Dean Page 376 Page 378 1 1 Sobel's testimony about how he reviewed every single the Board of Governors shall remain unchanged 2 2 for members of the bargaining unit," file? 3 3 A I have--of course I believed every word that the and among them is Statute 2.51.01? 4 Dean said, but I am not endorsing the Dean's 4 A Absolutely. It's our view that those statutes have 5 judgment. 5 been read into the contract. 6 6 Q Okay. That's fair enough. Q It's a different issue whether or not it is 7 7 A I mean, why-incorporated. Do you agree that this is what it 8 Q But you're talking about a process, and you're 8 states? 9 saying--I mean, he engaged in a process. 9 A I know what it states, and I--10 10 A A wrong process. Q The following action--11 Q So basically it boils down to you disagree with the 11 It states what it states. They can all read it too. 12 12 Okay. So this is the same statute that has this 13 A I disagree with the process. I disagree with the 13 process set forth in it. Correct? 14 14 process whereby this is wholly an administrative The process is something we have agreed to remains 15 decision. Indeed, Dr. Delaney-Black testified as to 15 the same unless we agree to some change in it. The 16 the membership of the committee that first 16 actual process--processes can be misused. You can 17 17 identified these 43 people or however many. have the violation of people's due process rights. 18 There was no academic faculty 18 In this, if you decide that someone who is 19 representation on that committee. I think there was 19 a highly honored scholar in the Humanities or 20 one person who was basically an administrator who 2.0 wherever is subject to this, I think we would object 21 2.1 to it. It's no different than what are our had faculty status on this committee with Dwight 22 Munson and these other people who identified them. 22 objections with respect to Mr. Needleman. 23 They are administrators. They are not 23 Q But your rights as President of the Union in 24 even academics. 24 defending your faculty members would be that if you 25 Q And Dean Sobel testified they didn't make any 25 felt that the process was violating the contract,

Page 379 Page 381 1 1 your option is to file a grievance. Correct? while we pass them out to the Committee. 2 A Yes. We can always do that. 2 (At 2:24 p.m., Respondent's 3 Q I understand, but as of today that has not been 3 Exhibit 6 marked) 4 4 Q (By Mr. Gregory) I show you Respondent's 6 for done. Do you have any firsthand knowledge that 5 5 Dwight Munson or David Hefner identified any of the identification, Doctor. Can you identify it, 6 43 individuals? 6 please? 7 A Only as was testified by Dr. Delaney-Black. 7 A Yes. It's my current C.V. 8 Q You're mischaracterizing her testimony, but you have 8 Q All right, and it was prepared and is up-to-date as 9 9 of February 6TH of 2016? 10 10 A She identified the committee that made the A Yes. It's up-to-date. 11 11 Q It is up-to-date? recommendations, and Munson was on it. Q No, she--well, her testimony stands as it is. 12 12 A Yes, it is. 13 13 MR. GREGORY: Well, we offer Respondent's 14 Q And the committee, but you have no firsthand 14 6 into evidence. 15 15 knowledge of what took place in any of those MS. GALANTE: Just give me a second. I 16 16 would like to place an objection to this document 17 17 A Of course not. I wasn't in the meetings. because it was prepared and never submitted to the 18 MS. GALANTE: I have no more questions. 18 University administration as part of this dismissal 19 19 Thank you. proceeding. 20 20 CHAIRPERSON STATHAM: Mr. Gregory? CHAIRPERSON STATHAM: Mr. Gregory? 21 21 MR. GREGORY: Nothing further. MR. GREGORY: We have had testimony from 22 CHAIRPERSON STATHAM: Any more questions? 22 witnesses for the Employer as to his activity 23 23 MR. GREGORY: No. subsequent and to-date, and that's why it's being 24 CHAIRPERSON STATHAM: Dr. Parrish, you can 24 offered, plus it would be inclusive of matters that 25 2.5 step down. were in that period just prior to the charges. Page 380 Page 382 1 1 THE WITNESS: Thank you. I think it an appropriate defense in any 2 2 (At 2:10 p.m., witness excused) event to the charges which are before the Committee, 3 CHAIRPERSON STATHAM: Can we take a 3 of course. 4 five-minute break before you call your next witness? 4 CHAIRPERSON STATHAM: Anything else? 5 MR. GREGORY: Fine. 5 MS. GALANTE: But what he is saying, he 6 (At 2:10 p.m., recess taken) 6 has objected to things that were not--the 7 (At 2:22 p.m., back on the record) 7 administration when they made the decision did not 8 CHAIRPERSON STATHAM: Can we go back on 8 have this document from Professor Needleman. 9 9 I mean, he met with the Dean on May 23RD. the record? Are you ready to call your next 10 10 witness? He didn't say, "Here's my updated resume." This 11 11 MR. GREGORY: Yes, we are. We call Dr. document was never considered by the administration 12 12 as part of its process. Needleman. 13 13 We're seeing it now for the first time CHAIRPERSON STATHAM: Doctor, would you 14 today, and so it's irrelevant to the decision that 14 raise your right hand? Do you swear to tell the 15 was made by the Dean because he didn't have this 15 truth, the whole truth and nothing but the truth? 16 16 DR. NEEDLEMAN: I do. 17 17 CHAIRPERSON STATHAM: Okay. Your RICHARD B. NEEDLEMAN 18 objections are duly noted. I'm going to overrule 18 (At 2:23 p.m., sworn as a witness, 19 them and admit it. You can argue weight it should 19 testified as follows) 20 be given in closing arguments or post-hearing 2.0 DIRECT EXAMINATION 21 briefs. It's admitted, Respondent Exhibit 6, Dr. 2.1 BY MR. GREGORY: 22 22 Q Doctor, please state your full name for the record. Needleman's C.V. 23 23 Richard Bruce Needleman. (At 2:28 p.m., Respondent's 24 24 Q In a moment we are going to hand you Respondent Exhibit 6 received) 25 (At 2:28 p.m., Respondent's 2.5 Exhibit 6 for identification. Give us a moment

Page 383 Page 385 1 1 Exhibit 7 marked) After high school I went to Brandeis 2 Q (By Mr. Gregory) I show you Respondent Exhibit 7 2 University, and I majored in Mathematics. However, 3 for identification entitled, "Expanded NIH 3 I was really a Physics major. Mathematics simply 4 Biographical Statement." Can you identify it? 4 has fewer requirements than Physics for lab work. 5 5 A Yes, I can. I then went to the Stony Brook Institute 6 O Tell us what it is. 6 of Theoretical Physics, where I was working on a 7 7 A The NIH requires now a biographical statement in thesis on Kaluza-Klein field theory. It's a quantum 8 addition to the C.V. This is a biographical 8 field theory. 9 statement that compares my 2016 grant submission, 9 At the same time I was getting interested 10 10 but I have appended in italics some extra personal in Biology, which was common at the time. I met Sy 11 11 information, so to tell the Committee what the Fogel, who was a biologist at City University of New 12 entries actually mean. 12 York, and he recruited me to go to City University 13 Q When was this document prepared? 13 of New York at Brooklyn College. 14 A It was prepared when I submitted my first--well, the 14 Sy was a major figure in yeast biology. He 15 15 NIH document was prepared probably in October, 2016, basically established the basic rules for DNA 16 but I prepared the expanded version maybe two weeks 16 recombination using yeast. 17 17 ago. After I went to Brooklyn College with Sy, 18 Q Was this something that would be used for future 18 I took a post-doc at Albert Einstein College of 19 19 grant applications? Medicine, but before that I went to the Public 20 A Well, the expanded biographical statement would be. 20 Health Research Institute of New York for a brief 21 Everything not in italics would be used, and in fact 21 period, where my thesis advisor was taking a 22 22 it will be. sabbatical and the sabbatical prevented my defending 23 23 Q Is this required by-my thesis. 24 Yes, it is. 24 During that time I developed the first 25 25 Q The grant? All right. mitochondrial genetic system. That is to say, I Page 384 Page 386 1 1 MR. GREGORY: We offer Respondent's 7 in found the first system where I could easily make 2 2 evidence. mutations in mitochondrial DNA, as well as nuclear 3 3 MS. GALANTE: I again object for the DNA, that affected mitochondrial development. 4 reason that he says this document was prepared two 4 Let me--before I talk about science, I'm 5 5 weeks ago. going to talk in normal language, as if I met 6 6 It was not provided to the Dean prior to someone at a party in explaining this. Okay? I 7 7 when he met with him or any time after that so that know--8 the Dean could take it under consideration and give 8 Q If you could go more slowly, Doctor--9 it what weight he thought was due to it. 9 Okay. I know many people here are technically 10 10 So think it's irrelevant to the issue that trained, but I would like to just talk very simply 11 11 about what is going on. So this was the first is before this Panel, whether or not we had evidence 12 12 system. We learned how mitochondrial genes work. to justify our decision. 13 13 We learned to identify them. By making CHAIRPERSON STATHAM: I'll overrule you 14 mutations we could study what these products did. I 14 and admit that, and again it goes to--you can argue 15 received a call from Jim Watson while I was at 15 to the weight it should be given. 16 Julius's laboratory, asking me to come to Cold 16 (At 2:31 p.m., Respondent's 17 17 Spring Harbor and give the university a seminar. Exhibit 7 received) 18 I went to Cold Spring Harbor. I gave a 18 Q (By Mr. Gregory) A great deal of the information we 19 19 need, Doctor, is in your C.V. and the NIH bio, but seminar and afterwards found that some of my papers 20 were reflected in the book called, "Landmarks of 20 tell the Committee briefly your educational 21 21 Yeast Biology." background and why you came to Wayne State 22 This basic discovery allowed me basically 22 University for employment. 23 23 A Okay. I went to high school in Brooklyn, and I was to choose any medical school I wished to go to, 24 not--major campuses. I was hired by this medical 24 on a track team with Bernie Sanders, which only 25 school, and I was also offered a position at the 2.5 explains my accent and the fact I'm very old.

19

20

21

22

23

24

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

25

Page 387 1 1 University of California Berkeley with Sy Fogel, who 2 moved out there, and also the Wayne State University 2 3 3 undergraduate campus. 4 4 I came to Wayne State University School of 5 5 Medicine because it was a hard money school. Most 6 medical schools are soft money. 6 7 7 They require that you sign a contract on 8 8 joining them that says that a certain percentage of 9 your grant money must be supported, must support 9 10 10 vour salarv. 11 11 The amount decreases. Albert Einstein 12 College of Medicine in New York offered me a soft 12 13 money contract. I would have much preferred going 13 14 to Albert Einstein everything else being equal, but 14 15 15 Wayne State was a hard money school. 16 16 The presumption was that you would never 17 17 have to use grant money to support your salary. It 18 was never a condition of tenure. That is the reason 18

Q Yes, please.

in the department, or--

19

20

21

22

23

24

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A Okay. So I joined the Biochemistry Department, and at the time it was a very old-fashioned department. At the time it was really the flowering of yeast genetics. There were about 50 yeast geneticists in

I came here. Should I continue about my experience

then?

A Well, there was--Barry hired molecular biologists, and we had the old-time protein chemists. We had the new young molecular biologists, but over a time interval Barry decided that he wanted to have a European or Japanese type department, which means there is one professor and everybody works for him.

Page 389

So Barry wanted all the Assistant Professors to do his work with him, to collaborate. Needless to say, people objected to it. In fact, people left.

The entire Molecular Biology section left. Alex went to University of Michigan. Studitsky went to Fox-Chase. We were completely decimated. Barry hired new people who were physical biochemists and made--under the conditions that they work and do his research for him.

Bill Brusilow and I were the two last molecular biologists in the department, and we essentially withdrew from the department. We essentially didn't go to the faculty meetings, and we didn't participate at all in the department.

Q Why did you do that?

A We did it because Barry was taking all the resources of the department, everything that we had in

Page 388

the world. I was one of them. Our department was mostly protein chemistry, rather old-fashioned.

Ray Brown, who was chairman, didn't exactly want to hire me, but Sepia Lee (phonetic), who is an old-time famous mitochondrialist, wanted to, and my job here was secured when Ray Brown called up Sy Fogel in Berkeley and found out I was actually offered a tenure line in Berkeley.

So I came here. After a few years Ray Brown retired and Barry Rosen came in, and in the beginning Barry Rosen decided we were going to have a modern department.

So he started hiring molecular biologists, geneticists. Alex Nympha (phonetic) came from the Stanich's (phonetic) lab at MIT. Ephylodemia Studitsky (phonetic) came from Misha Beckoff's (phonetic) lab in Russia, a very famous lab, many other people, and the early years were quite good.

We had seminars together. We had joint parties together outside the school. Our doors at the labs were always open. People circulated back and forth.

Graduate students came in, came out, and it was quite nice.

Q What was the department in its composition back

Page 390

overhead and putting it into his laboratory.

We couldn't get any kind of--usually you could ask for some money to do some project. I might need a microscope. My team might need a

might need a microscope. My team might need a microscope, so we put in some money. We asked Barry to supply the rest from grant overhead.

Barry would not supply or help anybody there except himself. Okay? He was taking over more and more labs, and we withdrew, and you saw the consequences when Barry came here.

I was at the height of my, you know, research career when Barry claims he sent a memo to the Dean asking for my dismissal and Brusilow's dismissal. I don't know--

MS. GALANTE: I'm going to object to the characterization of the record. You're saying he claimed. He had a document.

THE WITNESS: Oh, yeah. He had a document, fine.

MS. GALANTE: That showed that. THE WITNESS: Yeah, sure. He did. MR. GREGORY: It's inappropriate to argue.

23 MS. GALANTE: I'm sorry. 24 THE WITNESS: No. You're absolutely

right. He had a document showing that. I had no

Page 391 Page 393 1 knowledge of this document. I don't want to 1 all the textbooks. 2 2 speculate why, but I had no knowledge, and my In addition, we were able to make some 3 3 research record was good, and so was Bill's. materials which are good for biodetection, and 4 4 That is my interaction with Barry Rosen. unfortunately biowarfare as well, and for computing. 5 5 Barry left, and we had a temporary chair who was It's a purple membrane. So that means when photons 6 Robert Frank, who was an ophthalmologist, for a 6 absorb it goes through a color change. 7 7 couple of years, who had no biochemistry experience If you make certain mutants, you can use 8 8 at all. it to store information, but more importantly you 9 This was followed by Bharati Mitra, who 9 can also use it for rapid information storage. 10 10 was appointed by the Dean with no input from the For example, if you are doing, let's say, 11 11 faculty. We were not allowed to vote on her missile defense, you don't need permanent storage, 12 appointment. She was essentially an Emergency 12 but you need rapid and fast and large scale storage. 13 Manager appointed by the Dean, representing the Dean 13 If you think of a camera, a camera has 24 14 14 and not the faculty. megapixels. These--each molecule was a pixel. 15 15 That persisted up to this year, when our Okay? You can make holographic movies in three 16 16 departments were combined. My department was dimensions that move, okay, and I did this for 17 17 combined with Immunology, Microbiology, and Phil awhile in the Pentagon. 18 18 Pellet (phonetic) was appointed in the same way. I did this with--well, I consulted for the 19 19 Pentagon, like I said, and we had the MetroLaser Once again, no democratic vote. He 20 represents the Dean. So for the past ten years or 20 contract, and it became the basis really of 2.1 21 optogenetics, which is a major research area in the so we have had no chair representing the faculty. 22 22 20TH century, 21ST century. Q Did you nonetheless pursue your research and publish 23 23 Q When did that take place, timeframe-wise? 24 24 My C.V. is very bad. As somebody said, you would A Yeah. Maybe I should go to the last ten years, and 25 25 have to look here. In the '90s, late '90s probably. we should come to this dispute here. I won't go Page 392 Page 394 1 1 Q During this period, did you receive any direction through all the stuff I did. Okay. 2 2 So I and colleagues had a--well, I was a from the chair as to the--3 3 PI on an NSF grant on bacteriorhodopsin and A Well, seemingly, from what he just submitted--4 halorhodopsin. It concerned proton transport. 4 REPORTER: Excuse me. He is kind of 5 5 Proton transport is quite important in Biology. cutting you off. "Did you receive any 6 6 direction..."--In fact, if you think about the most 7 7 important proteins, you would come up with maybe DNA THE WITNESS: Sorry. 8 polymerase which makes DNA, but you would certainly 8 Q (By Mr. Gregory) Yeah, from the chair regarding the 9 come up with the ATPAs, which is the proton 9 focus of your research? 10 translocating membrane-bound enzyme. 10 A Sorry. Barry introduced me to Janos. The deal was 11 11 The halorhodopsin and bacteriorhodopsin that I wanted to use my biophysics, my physics 12 are similar. They are retinal proteins. They're 12 background in some sort of pigment system. 13 13 purple. They're gorgeous. They sit in the Originally I wanted Chlamydomonas pigment, 14 14 bacterium. Light comes in. The photons are which turned out to be more important for 15 15 absorbed. A proton is pumped out, and those protons optogenetics than the one we chose, but Janos did 16 then are used to do work. 16 not want to do that, so we worked on 17 This is actually the basis of almost all 17 bacteriorhodopsin. 18 Biology, the use of these proton gradients. So we 18 He is a long-time bacteriorhodopsin 19 did this, and we have essentially completed--I 19 worker. He introduced me to his friend, Akio Maeda, 20 worked with Yanos Lanyi at the University of 20 who was chair at Kyoto University, and we actually 21 California Irvine, and Akio Maeda, Kyoto University. 21 had some common ancestry in terms of science. 22 She was chair of Biophysics. 22 So I was the head of an NSF grant. I 23 It was the best collaboration of my life. 23 chaired many international meetings. There was a 24 We essentially solved the entire problem of proton 24 patent that was possible for this procedure that I

had developed, but in fact the patent was never made

25

25

transport. We had a complete model. It appears in

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

4

5

6

7

8

9

10 11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Page 395 1 by Wayne State, and I won't go through the long 2 story. 3 The guy was called Dieter Osterheldt, who 4 was the head of Max Panck Institute in Munich. He 5 patented my letter I sent him explaining the 6 procedure. He had absolutely nothing to do with it. 7 Wayne State miffed on the patent, okay, 8 and that patent also forms the basis for 9 optogenetics and may be worth something. I don't 10 know, but the end point of that research was that 11 Dieter won a 200,000 mark prize for his discovery. 12 So we had some materials made. Okay. After bacteriorhodopsin was essentially finished, 13 14 there was some questions that were left that it was 15 difficult or trivial or--I don't know. 16 They were tedious questions, and we didn't 17 want to deal with them basically. I was getting 18 tired of this. Janos wanted to work with other 19 organisms to look at the photopigments, but I didn't 20 want to, because for one thing, when I deal with 21 those experiments I sit in a dark room. 22 I don't like to have students or 23 technicians work with a laser. It's dangerous. You 24 have to adjust the beam. You wear goggles, but you 25 can't really see. You have got to take the goggles

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A That was probably 2000--I have the paper, so 2002 or something. Okay? So Bill and I started investigating phenylbutyrate, first in yeast and then in other systems.

We also investigated MSO. There has been testimony that I was working on four different areas at the same time. Okay. Papers that came out of that were absolutely in the same area.

One says liver failure. That is the same area as the ALS. It is the same area as the glutamate area. This all concerned the effects of glutamate, glutamine on function. It's the same thina.

We showed a couple of important things. Bill--we had no money for this, and the idea of us getting a grant on this topic is ludicrous. First of all, the idea is essentially crazy, okay, because even if--

Take an important molecule like glutamate and knock it down in the brain, you don't know what is going to happen. We knew that it got to the brain, because in dogs it causes convulsions.

In primates it's much less toxic, so we knew it would pass the brain barrier, the blood/brain barrier, but the rest of it we didn't

Page 396

It's too dangerous for the students and too dangerous for the technicians, so I was doing all the experiments myself, but doing experiments is not so glamorous, and then sitting in the dark, twiddling a dial, hitting a laser, recording information, spending my life this way, I was tired of it after ten years.

So I wanted to do something else. At the same time, Bill Brusilow, who was my friend and colleague, decided he had to get out of E. coli genetics.

E. coli genetics was not being well-funded by the NIH, so Bill and I got together and we went to this project on--well, we had an idea, and calling it an idea is probably to give it too much credit, so a notion.

In fact, if I had gotten this as a grant I probably would have said, "You shouldn't be doing this. It's very speculative." The speculation was that excess glutamate is seemingly important in many neurological diseases and conditions.

We had a drug--two drugs actually--that could modulate glutamate levels, we thought.

Q Set the time for us, Doctor.

Page 398

Page 397

know very much about it, but in fact it turns out that not only does it reduce glutamate in the brain, but it can reduce glutamate in certain areas of the brain.

Glutamate can be made and destroyed in many different ways. So even though we used a very specific inhibitor, okay, essentially every molecule of this inhibitor that binds a glutamine molecule inactivates it. Glutamine synthetase inactivates

Even though we had that, we weren't able to modulate glutamine levels in the brain, and glutamate levels in the brain, as well as some other neurochemicals.

We knew it was regional. We worked with Matt Galloway here, his MRS or Magic Angle (phonetic), and we also showed that it can extend the lifetime of the ALS mouse.

It's a mouse model for ALS, and it would extend the life about 8 to 10%, which doesn't sound like much, but it's pretty much the average for even human drugs.

We also found the following. There is a problem in ALS experimentation, and it's this. If you have patients and you are trying to do a drug

Page 399 Page 401 1 1 trial, you can--it's difficult to find the measure mice are fine. 2 2 So it's another use for MLS, ALS. I'll of the disease progression. Okay? 3 3 stop--once I get started talking, I don't stop. There are all stages of disease. You can 4 Okay. So we had these four papers coming out. 4 do physiological tests, but they are not very 5 5 accurate, so we wanted some sort of measure of There has been testimony here that I have no work 6 past 2010. 6 disease progression so we could do drug trials. You can see in the Rebuttal of charges I 7 7 It turns out that we found that amino acid 8 8 changes in the blood actually can show progression have four papers. Actually there is another one 9 9 of the disease in ALS, and we were about to use this which is a trivial paper. I didn't count it. There 10 10 in the clinical trial when on a day Bill tried to are four papers, and they look exactly--you know, I 11 have the same productivity as any of the professors 11 take the human protocol to our ALS clinic here, we 12 12 found that Dean Parisi had a fight with the head of that was in charge. 13 the clinic and it closed. 13 These are not a focus that has been 14 14 changed. The focus has always been on There is an old--in Pasternak there is a 15 15 glutamate/glutamine. It has always been on MSO or poem which says, "(Speaking in Russian)," which 16 phenylbutyrate, which are two drugs that modulate 16 means "Living one's life is not like crossing a 17 17 these chemicals. field." Okay? Don't worry about it. It's terrible 18 18 So the notion that these are in different Russian anyway. Don't worry about it. 19 19 Living one's life is not like crossing a areas and I've lost my focus only occurs to people 20 20 field. So at the end we are completely thwarted by who don't read the abstracts, okay, who read the 21 titles and think they are different subjects. 21 it. We had some papers coming out of this. It 22 Q Hold it just for a second, Doctor. 22 turns out that acute liver failure is also a major 23 23 disease which kills one to six million people a (At 2:50 p.m., Respondent's 24 24 Exhibit 8 marked) vear. 25 25 It's a disease of ammonia metabolism. MSO Q (By Mr. Gregory) I show you Respondent's Exhibit 8 Page 400 Page 402 1 for identification. Can you identify it as an 1 can in fact inhibit and change ammonia metabolism in 2 2 article that you provided at my request? the brain. Bill--mostly because this is great work, 3 3 it's not mine. It's mostly Bill's. 4 When Bill came back from a Padua 4 Q In regard to the Dean's assertion that you had 5 5 sabbatical, I helped the student to do some of the changed your research focus? 6 6 A I did. immunological experiments, but basically Bill did it 7 7 all himself at that point. He did most of it there. Q The Committee will have in due course a chance to 8 This is also relevant to the idea that 8 read the article. What will they learn from it? 9 it's important to be middle author and end author. 9 A Well--10 We have a paper on the amino acids in ALS mice. I'm 10 MS. GALANTE: Could I ask for voir dire 11 not the senior author. Bill always is. 11 before that? 12 Bill financed all his work with his own 12 MR. GREGORY: Oh, I'm sorry. I quickly 13 money. He bought mice. He spent hundreds of 13 offer--I offer 8 into evidence. 14 thousands of dollars doing this research. Okay? 14 CHAIRPERSON STATHAM: Counsel? 15 But according to Wayne State, it's probably not 15 MS. GALANTE: What is the source of this 16 worthwhile because they had no overhead money on it. 16 article? 17 This is how we funded the papers that are 17 THE WITNESS: Nature. 18 here, but in the case of acute liver failure, you 18 MS. GALANTE: Nature? Oh, I'm asking you 19 can take LDS and Degal (phonetic), two chemicals 19 though. I would like it on the record. 20 that cause liver failure in mice. 20 THE WITNESS: Nature News and Comments, 21 When you injected the mouse, at the end of 21 and--22 24 hours 100% of the mice are dead. If you take out 22 MS. GALANTE: Is this a website? 23 the liver, it looks like a cracker. You can break 23 THE WITNESS: It's a website for Nature 24 it and crack it. You give them MSO during this 24 magazine, yeah. 25 process, you get essentially 90% survival and the 25 MS. GALANTE: For Nature magazine, and

Page 403 Page 405 1 1 of--there is a whole Komoltorov (phonetic) deal with when did you pull this document? 2 2 THE WITNESS: Probably--it's marked how you do statistics, but we didn't find anything 3 3 October 26, 2016, so probably soon after that. I practical. Okay? 4 4 don't know exactly. You would like to know things like if I 5 5 MS. GALANTE: I have no objection. took a thousand light bulbs and made them, how many 6 CHAIRPERSON STATHAM: All right. It is 6 are bad? How many do I have to take out and test to 7 7 admitted as Respondent's Exhibit 8. find out--if I shoot a gun at a target, how many 8 8 (At 2:52 p.m., Respondent's things will hit the target if I only test a certain 9 Exhibit 8 received) 9 number. 10 Q (By Mr. Gregory) In the changed research that you 10 That is that branch of statistics. 11 have simply described, is it still in process? 11 Biologists do it all wrong, always. They use what 12 12 is called a Fisher t', and a Fisher t' is a number Q And what is the status? 13 13 which is .05. They say it's gray. It's sometimes 14 A Well, unfortunately, because the ALS clinic closed, 14 different. It's .06. They start looking for 15 I tried to get the research transferred to the ALS 15 excuses to fix the data, and there are many excuses. 16 16 clinic at Henry Ford, but I was told that this So I had a graduate student, Monica Bame. 17 17 research would not generate enough money. We worked the first time on the Internet. So I had 18 18 I have always done cheap research, and sent her data. She had sent me data. I made many 19 19 they decided that the research requires simply blood mistakes in data entry. She would correct them. 20 samples in ALS patients, a longitudinal study. It 20 We tried to learn the proper procedures, 21 has been known in humans that amino acids change in 21 and I'm sort of proud of the way the statistics were 22 the blood in ALS patients. 22 done. We used t tests for effect CIs (phonetic). 23 This is probably from several causes. One 23 We did certain other things, CIs, and I think we did 24 is there is a general muscle wasting in ALS 24 it pretty well, but a statistician would probably 25 25 patients, and this leads to changes in the amino say it's terrible. Page 404 Page 406 acid composition. 1 1 I'm not too worried because in fact we had 2 2 On top of that we found disease-specific small numbers of mice anyway, and we only accepted 3 3 changes that change. All the literature on ALS very, very large significant changes in our paper. 4 amino acids has been--well, I don't know, random. I 4 We had many changes, and we only talked 5 5 mean, they take ten patients and they look at them. about the largest ones, and it's a definite pattern 6 6 They are mixed genders and at different of changes in the plasma of these mice. So--7 7 stages of the disease, and they show abnormalities Q Let me interrupt you, Doctor. Have you made any 8 in ALS in the amino acids, but they are always 8 grant applications with respect to the--9 different abnormalities. Okay? 9 A We were going--yeah, we were going--10 10 What we wanted to do was to do it REPORTER: Excuse me. Go ahead, Mr. 11 statistically properly. We wanted to follow the 11 Gregory. 12 same patient, take blood samples every couple of 12 Q (By Mr. Gregory) Have you made any grant 13 weeks, run the amino acid analysis on them and see 13 applications with regard to the use of--14 14 how the patterns changed. A Yeah. The application was going to be with the ALS 15 They changed in a very particular way in 15 clinic with Rick Lewis (phonetic). We had talked to 16 ALS mice. In fact, ALS non-symptomatic mice show 16 him before, and we were going to use their patients 17 abnormalities in ALS in amino acids as well, so we 17 and follow the plasma amino acid changes. 18 thought this would be a nice statistical study. 18 It's easy. It's fast, and they are 19 Our statistical studies of mice, 19 sampling the patients anyway, because they are on 20 unfortunately--well, you can read the papers. We 20 Riluzole, which is a drug which basically doesn't 21 did it the best way we can. I learned to do 21 work, frankly. It's a drug which makes very little 22 statistics. 22 difference in the life of ALS patients when it is 23 There are two branches of statistics. 23 There are--there is a mathematical theory, a 24 24 So we were going to piggyback on his 25 measured theory of vague integrals with functions 25 clinical research. The idea was we needed MDs. We

Page 407 1 1 needed patients. Once we had that we were going to 2 2 submit a grant on in fact a clinical study. 3 As I said, on the day Bill went down to 4 4 give his grant in to the Human Investigations 5 5 Committee, we found the clinic was dead. 6 Q When did you first ever submit a grant to NIH? 6 7 A Oh, I have no idea. When I first came. 7 8 Q Several times? 8 9 A Oh, yeah, when I first came. I mean, this notion 9 10 10 that I heard here was, "Well, it's easy to get a 11 11 grant. You get a grant, you give it to NIH, and 12 they improve it." 12 It comes back and they say, "Oh, Richard, 13 13 14 you know, the experiment really is no good. It's 14 15 going to need data," and I keep sending it in and I 15 16 16 keep getting corrections. 17 Let me tell you. Everyone here knows. 17 18 You send it in. You usually get nonsense back. You 18 19 get things which in total are not helpful to what 19 20 you are doing. 20 21 (At 2:56 p.m., Respondent's 21 22 Exhibit 9 marked) 22 23 Q (By Mr. Gregory) Will you please look at Respondent 23 24 **Exhibit 9 for identification?** 24 25 25 A Yes. This is a grant application. Page 408 1 1

Page 409

submitted somewhere in October, I think.

Q It was not granted?

A No. I got some reviews, and I can tell you what the reviews are.

Q Yeah.

A The reviews were amazing. One guy or gal--I have to use "gal" because I don't know--said, "I don't believe it." That was the end of the review.

You can say, "I don't believe it," but you have to say, "I don't believe it why." Another person said, "I think there is something wrong with the strains."

What was wrong with the strains? I have no idea. The problem is that it is entirely novel. It's written in a bad way actually. It's written for an expert in yeast genetics.

I got back reviews that show that people not only didn't know yeast genetics, but told me that I didn't know how to do yeast genetics. They were going to help me do the basic crosses and I had learned something from them, things that we do for graduates in the first day in class.

If you look at this, there are many crosses, so the notion that I couldn't do crosses is kind of absurd. It went to people who knew nothing

Page 410

Q When was this made in regard to your research?

A Well, this is new research, unfortunately, and once again I'm changing my focus. Why? Because I can't do the ALS work any more, so I'm back to yeast, and I'm back to using some other data.

There has been a lot of interest in these times on genetic changes which are not really base changes in genes, but changes rather in the association of chromosomes.

In this grant application, I show for the first time that in yeast there is this nomical (phonetic) transvection, where genes move around and change expression on different chromosomes.

MS. GALANTE: Can I do a voir dire on this exhibit?

MR. GREGORY: I haven't--let me finish, please.

MS. GALANTE: Okay.

Q (By Mr. Gregory) What is this exactly, this application?

A This is an application on a new observation about 21 22 yeast genetic changes. 23

Q When was it made?

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

24

25

A Well, I had an NSF in before this, but this particular one was probably--I don't know. It was about yeast genetics, and went to people who were not qualified to comment on any of these experiments.

Usually we get back a comment on an experiment, and usually if they would reject a grant to say, "Not enough preliminary data," because there is never enough preliminary data, or if you propose Experiment A instead of Experiment B that is in the grant, even though Experiment A and Experiment B are essentially the same, that is a matter of taste.

I didn't even get any of that. I had only one comment on a particular experiment when they said, "This is a very difficult experiment. It may not work."

That would be great, except for the fact that when I wrote the experiment I said, "This is a very difficult experiment. It may not work, but I think we can make it work."

So all I got was a reiteration of what was in the grant. Okay? So Von Hemerals (phonetic) once said that if you have something novel, the first time they tell you it's wrong, the second time they tell you it's wrong it's right but it's not interesting, and the third time they tell you it's interesting, right, but someone else discovered it

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

	Page 411			Page 413
1	first.	1		THE WITNESS: No, I'm not admitting it's
2	So I'm still trying to get this thing	2		incomplete.
3	accepted. I need to re-write it. I need to make it	3		CHAIRPERSON STATHAM: Whether it's
4	less forbidding, but I put it here to belie the	4		complete or not is something else.
5	notion that I do no intellectual work. Okay?	5		THE WITNESS: The biographical information
6	MR. GREGORY: All right. We offer 9 in	6		would be in there, in my NIH thing which I
7	evidence.	7		submitted, the sign-offs by theyou know,
8	CHAIRPERSON STATHAM: Ms. Galante?	8		bureaucrats here and so on.
9	MS. GALANTE: I'm just trying to figure	9		CHAIRPERSON STATHAM: It's in.
10	out when thisI can'tthere is no date on it, so	10		(At 3:01 p.m., Respondent's
11	I'm trying to figure out	11		Exhibit 10 marked)
12	THE WITNESS: It was submitted in October,	12	^	(By Mr. Gregory) Doctor, I show you Respondent
13	2016, I think, to NIH, but when I prepared itwell,	13	Ų	Exhibit 10. Can you identify it and describe what
14	I prepared it before that.	14		it represents?
15	MS. GALANTE: 2016. I'm comparing that to	15	Λ	I can. Since I was told in the charging letter that
16	the list I have.	16	_	I had no publications in 13 years, I decided to put
17	THE WITNESS: Maybe it's this	17		some of the publications that I had in 13 years.
18	MS. GALANTE: Your grant application. I'm	18		I didn't put complete copies of the
19	just trying to sort through, but if you are saying	19		earlier ones, but I put complete copies of the four
20	it was submitted	20		ALS papers, four MSO phenylbutyrate papers that I
21	THE WITNESS: It was submitted.	21		had.
22	MS. GALANTE: Then I have no problem with	22		So these are the papers all in a single
23	it.	23		area, regardless of what people are saying about it.
24	THE WITNESS: And it's in stasis now,	24		One is on liver failure. Two are on ALS, and one is
25	because I can't get myself to work on it, given the	25		on something else, glutamine synthetase in the
	because I carre get myself to work of he given the			on comeaning closy gracemine cynanicated in the
	Page 412			Page 414
1	nature of these hearings. I'm just not	1		brain.
2	psychologically ready to change this thing.	2	Q	And were they published in refereed journals?
3	CHAIRPERSON STATHAM: It is admitted as	3	Α	Definitely. I don't understand how they decided
4	Respondent's Exhibit 9. It's the NIH grant	4		that I don't publish in refereed journals. I never
5	application.	5		
6	(At 2.00 Description	1		publish in anything else but refereed journals.
	(At 3:00 p.m., Respondent's	6		publish in anything else but refereed journals. MR. GREGORY: We offer 10 in evidence.
7	Exhibit 9 received)	6 7		
8	Exhibit 9 received) MS. GALANTE: Could I ask one more	7 8		MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection.
8 9	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this	7 8 9		MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted,
8 9 10	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application?	7 8 9 10		MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed
8 9 10 11	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It's	7 8 9 10 11		MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title.
8 9 10 11 12	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet.	7 8 9 10 11 12		MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's
8 9 10 11 12 13	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what?	7 8 9 10 11 12 13		MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received)
8 9 10 11 12 13 14	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It's-unfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its	7 8 9 10 11 12 13	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr.
8 9 10 11 12 13 14 15	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that.	7 8 9 10 11 12 13 14 15	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were
8 9 10 11 12 13 14 15	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection"	7 8 9 10 11 12 13 14 15	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel.
8 9 10 11 12 13 14 15 16 17	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection"MS. GALANTE: I guess I object to it	7 8 9 10 11 12 13 14 15 16	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit?
8 9 10 11 12 13 14 15 16 17	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application.	7 8 9 10 11 12 13 14 15 16 17	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our
8 9 10 11 12 13 14 15 16 17 18	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application. THE WITNESS: Well, the parts that you	7 8 9 10 11 12 13 14 15 16 17 18	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our Answer and Rebuttal.
8 9 10 11 12 13 14 15 16 17 18 19 20	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application. THE WITNESS: Well, the parts that you want don't tell you anything. I mean, you know,	7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our Answer and Rebuttal. CHAIRPERSON STATHAM: Do we have a copy of
8 9 10 11 12 13 14 15 16 17 18 19 20 21	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application. THE WITNESS: Well, the parts that you want don't tell you anything. I mean, you know, this is essentially	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our Answer and Rebuttal. CHAIRPERSON STATHAM: Do we have a copy of that?
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application. THE WITNESS: Well, the parts that you want don't tell you anything. I mean, you know, this is essentially MS. GALANTE: So you're admitting it's	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our Answer and Rebuttal. CHAIRPERSON STATHAM: Do we have a copy of that? MR. GREGORY: Yes, you do. You got that
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application. THE WITNESS: Well, the parts that you want don't tell you anything. I mean, you know, this is essentially MS. GALANTE: So you're admitting it's incomplete?	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our Answer and Rebuttal. CHAIRPERSON STATHAM: Do we have a copy of that? MR. GREGORY: Yes, you do. You got that when we started the hearing.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application. THE WITNESS: Well, the parts that you want don't tell you anything. I mean, you know, this is essentially MS. GALANTE: So you're admitting it's incomplete? CHAIRPERSON STATHAM: I will overrule you	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our Answer and Rebuttal. CHAIRPERSON STATHAM: Do we have a copy of that? MR. GREGORY: Yes, you do. You got that when we started the hearing. CHAIRPERSON STATHAM: Okay. Is it a Joint
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Exhibit 9 received) MS. GALANTE: Could I ask one more question about this? What is the title of this grant application? THE WITNESS: Good question. It'sunfortunately it's in the packet. MS. GALANTE: It's what? THE WITNESS: It's in the packet of its submission. I didn't put the cover pages from that. It should be there, called "Transvection" MS. GALANTE: I guess I object to it because it is an incomplete grant application. THE WITNESS: Well, the parts that you want don't tell you anything. I mean, you know, this is essentially MS. GALANTE: So you're admitting it's incomplete?	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q	MR. GREGORY: We offer 10 in evidence. CHAIRPERSON STATHAM: Ms. Galante? MS. GALANTE: I have no objection. CHAIRPERSON STATHAM: It is admitted, Respondent's Exhibit 10. "Publications in Refereed Journals" is the title. (At 3:03 p.m., Respondent's Exhibit 10 received) (By Mr. Gregory) Please direct your attention, Dr. Needleman, to your Rebuttal of the charges that were made against you by Dean Sobel. MS. GALANTE: Is this a new exhibit? MR. GREGORY: It's an attachment to our Answer and Rebuttal. CHAIRPERSON STATHAM: Do we have a copy of that? MR. GREGORY: Yes, you do. You got that when we started the hearing.

	Page 415			Page 417
1	MS. GALANTE: No. No, no, no. I have a	1		label it as an exhibit?
2	number of things I want to address on that exhibit.	2		MR. GREGORY: Let's make this Respondent
3	MR. GREGORY: It was submitted as a	3		11.
4	pleading, but if you wish we could make it an	4		MS. GALANTE: Since you're referring to
5	exhibit.	5		it.
6	CHAIRPERSON STATHAM: All right. I just	6		CHAIRPERSON STATHAM: All right.
7	wanted to check. Okay.	7		MR. GREGORY: And it's entitled, "Rebuttal
8	MR. GREGORY: Does everyone have it?	8		of Charges, a Brief Brief by Richard Needleman."
9	CHAIRPERSON STATHAM: Yeah.	9		CHAIRPERSON STATHAM: Okay. It's in.
10	MR. GREGORY: All right. Excellent.	10		(At 3:06 p.m., Respondent's
11	MS. GALANTE: Just can you give me a	11		Exhibit 11 marked and received)
12	minute to find my copy?	12	Q	(By Mr. Gregory) Do you have your Rebuttal in front
13	MR. GREGORY: No.	13		of you?
14	MS. GALANTE: No? You don't happen to	14	Α	I do.
15	have an extra copy. Right? If you have it. I	15	Q	Which now is Respondent Exhibit 11.
16	can't find mine. Are you offering this as an	16	Α	I'm sorry for shouting, but I'm not used to this
17	exhibit?	17		thing, and I'm very nervous.
18	MR. GREGORY: No. I don't ask for it to	18		CHAIRPERSON STATHAM: That's okay. Keep
19	be an exhibit. It's a pleading, but I'm going to	19		shouting and we can hear you better.
20	use it in testimony.	20		THE WITNESS: It's very strange.
21	MS. GALANTE: I guessI mean, I know he's	21	Q	(By Mr. Gregory) Directing your attention to the
22	not offering it, but he is planning on using this	22		first page, will you tell the Committee how you
23	for the testimony, and it's just replete with	23		happened to compose the chart or graph that is
24	hearsay, so he has already given that to the	24	Α	Yes. In fact we have materials that show how I
25	Committee, which I had no idea.	25		calculated the chart. We have backup materials
	Page 416			Page 418
1	It's one thing to submit a pleading, but	1		taken down from the lab that we can give you, but
2	this is an 11-page document written by Professor	2		the purpose of the first chart is to show
3	Needleman that is just full of hearsay upon hearsay	3		You know, I saw yesterday they are saying
4	upon hearsay.	4		I had only two papers in the last four years. Fine.
5	So I object to this being considered by	5		The papers will be financed by Bill. Bill is
6	the Panel without some foundation.	6		financing them. I think they are good papers.
7	CHAIRPERSON STATHAM: Mr. Gregory?	7		I will spare you going into why I think
8	MR. GREGORY: I don't know where the	8		they are good. A lot of information we have in
9	hearsay is. He is responding to specific charges by	9		there, but the question really is, how does that
10	Dean Sobel.	10		compare to other people in my department?
11	MS. GALANTE: He talks about other	11		According to Dean Sobel's letterand I
12	people's records in his department with no	12		quote:
13	documentation of who they are, how he got that	13		"He has established a 13-year record
10	documentation of who they are, now he got that			action and advantage of a constituted H
14	information.	14		of no original research of any kind."
	information. He talks about another case where he	14 15		No original research of any kind, but then he says:
14 15 16	information. He talks about another case where he claims the University did certain things, which he	15 16		No original research of any kind, but then he says: "and only one publication as first
14 15	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of	15		No original research of any kind, but then he says:
14 15 16 17 18	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable.	15 16 17 18		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research,
14 15 16 17 18 19	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable. CHAIRPERSON STATHAM: I'll admit it for	15 16 17		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research, but I also have a publication as first author. His
14 15 16 17 18 19 20	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable.	15 16 17 18 19 20		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research, but I also have a publication as first author. His entire letter is contradictory and filled with
14 15 16 17 18 19 20 21	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable. CHAIRPERSON STATHAM: I'll admit it for	15 16 17 18 19 20 21		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research, but I also have a publication as first author. His entire letter is contradictory and filled with falsehoods, and you can find myyou have before you
14 15 16 17 18 19 20 21	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable. CHAIRPERSON STATHAM: I'll admit it for what it's worth, and you can ask him about it on cross. MS. GALANTE: Okay. Are we going to label	15 16 17 18 19 20 21 22		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research, but I also have a publication as first author. His entire letter is contradictory and filled with
14 15 16 17 18 19 20 21 22 23	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable. CHAIRPERSON STATHAM: I'll admit it for what it's worth, and you can ask him about it on cross. MS. GALANTE: Okay. Are we going to label it as an exhibit then so that	15 16 17 18 19 20 21 22 23		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research, but I also have a publication as first author. His entire letter is contradictory and filled with falsehoods, and you can find myyou have before you a list of some of my publications during this time period.
14 15 16 17 18 19 20 21 22 23 24	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable. CHAIRPERSON STATHAM: I'll admit it for what it's worth, and you can ask him about it on cross. MS. GALANTE: Okay. Are we going to label it as an exhibit then so that MR. GREGORY: We can. Apparently that	15 16 17 18 19 20 21 22 23 24		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research, but I also have a publication as first author. His entire letter is contradictory and filled with falsehoods, and you can find myyou have before you a list of some of my publications during this time period. The idea here is to look at the recent
14 15 16 17 18 19 20 21 22 23	information. He talks about another case where he claims the University did certain things, which he has no first-hand knowledge of. There is tons of information in here that is very objectionable. CHAIRPERSON STATHAM: I'll admit it for what it's worth, and you can ask him about it on cross. MS. GALANTE: Okay. Are we going to label it as an exhibit then so that	15 16 17 18 19 20 21 22 23		No original research of any kind, but then he says: "and only one publication as first author." So somehow I have no original research, but I also have a publication as first author. His entire letter is contradictory and filled with falsehoods, and you can find myyou have before you a list of some of my publications during this time period.

Page 419 Page 421 1 1 record, from any full professor who has not been experimentation. He bought all the mice, and we 2 targeted by Dean Sobel. Okay? 2 started, and we had four or five years without I have had four publications. You could 3 publications. This is true. 4 argue I had five, but I omitted the publication 4 A mouse experiment takes us close to eight 5 5 which essentially is trivial. I have my papers. months. We didn't even know the dose of this drug. 6 These papers are only in 2010. 6 A yeast experiment takes three days. An E. coli 7 7 Someone said that, well, you know, experiment takes one day. 8 8 citations in the past don't mean anything, and if I So we had a section of our work that we 9 was famous once I am no longer famous. You know, I 9 did not publish, but this is the purpose of tenure. 10 10 have no standing because on notice I haven't Okay? I'm a tenured professor. I should be allowed 11 11 published recently. to choose my own research and fund it and go in the 12 MS. GALANTE: I guess I'm objecting to his 12 direction I want to and not be told it's 13 mischaracterization of Dean Sobel's testimony. 13 nonproductive and I'm not bringing in grant money. 14 THE WITNESS: It's not Dean Sobel. 14 I can do research without grant money, 15 MS. GALANTE: Who are you referring to? 15 external grant money, because Bill was providing it. 16 THE WITNESS: Delaney-Black. 16 This equation of grant money with scholarship is 17 MS. GALANTE: Oh. Well, I object to your 17 nonsense. 18 18 characterization of her testimony. I think it's a The tenure track is in fact safe. Grant 19 19 misrepresentation of it. money cannot be substituted for scholarship. 20 CHAIRPERSON STATHAM: I'll let him answer. 20 Scholarship is the product of scholars, I guess. It 21 THE WITNESS: No. She said in fact--21 is the only way of judging scholarship, not money 22 22 MR. GREGORY: No, no. Just--there is no brought in. 23 23 standing to object to that testimony. Money is not even a tenure factor for 24 CHAIRPERSON STATHAM: I'll let him answer. 24 tenure in the first place, so how it could be a 25 Answer the question. 25 factor for continuing tenure is beyond me. Page 420 Page 422 1 1 THE WITNESS: No. I was told that, "Well, Q Hold it just a moment before we leave Table 1. 2 2 (At 3:11 p.m., Respondent's you know, Richard, you had a lot of citations. You 3 3 were famous once, but now you are sort of a burn Exhibit 12 marked) 4 out. You haven't done anything lately." 4 Q (By Mr. Gregory) I show you Respondent Exhibit 12 5 5 Yeah, "We can say that you were a famous for identification. Can you identify it and tell 6 6 scientist in your reputation, but you are not really the Committee how does it relate to Table 1? 7 7 a famous scientist because you're only as good as A Yes. I purposely omitted the names of the 8 your last five years, and the citations in the last 8 professors in Table 1. I don't believe the number 9 five years." 9 of grants--sorry, number of citations and number of 10 10 papers has any bearing on the quality of the work, That is nonsense, of course. However, 11 11 this is a chart only of the last five years. These including high citation numbers. 12 papers were written and published in the last five 12 I did some--I might as well comment on 13 this now. I did some very nice work, I thought, on years. My record is not distinguishable from 13 14 anybody else in my department who did not receive a 14 the MAL system. It got very few citations. It's 15 letter. 15 essentially a system which is not of interest to 16 So how I am deficient in the last five 16 many people. 17 years I don't know. Earlier, yes, when Bill and I 17 I thought the work was quite good. I did 18 changed fields, he from E. coli and me from 18 some other work where I got a lot of citations which 19 bacteriorhodopsin. 19 is more generally useful. There is no guestion that 20 We knew we were not going to get a grant. 20 citation numbers cannot be used to dilate people. 21 First of all, we had no preliminary data. Bill and 21 The only thing that they say, if I have a 22 I had never picked up a mouse. I didn't even know 22 lot of citations--and I do--the only thing that it 23 how to sex mice. 23 relates to is the fact that my work is of interest 24 I had no idea how to feed them. I had no 24 to a lot of people. 25 idea about anything. Bill paid for our early 2.5 It relates only to international

Page 423 Page 425 1 1 reputation. So if I have a lot of people citing me, CHAIRPERSON STATHAM: Mr. Gregory, did you 2 I have an international reputation. If I have more 2 admit--move to admit--oh, it's in. I'm sorry. 3 3 citations than Linda Hazlett, I'm not necessarily a MR. GREGORY: Was 12 admitted? CHAIRPERSON STATHAM: Respondent's Exhibit 4 4 better professor. I'm not necessarily a better 5 5 scientist. 12, was that admitted? 6 MR. GREGORY: Apparently not. I do. 6 It doesn't relate at all to individual 7 7 qualities, okay, but in order to prove that this CHAIRPERSON STATHAM: Do you want to move 8 8 table is accurate, I simply--this is simply my that for admission? 9 count. It's a download, and it's a hand count of 9 MR. GREGORY: I move it, please. 10 10 how I did the table entries. CHAIRPERSON STATHAM: Ms. Galante? 11 11 Unfortunately, you can see the names of MS. GALANTE: Well, I object to the 12 professors in this download, and the same thing is 12 validity of it, of the source, Google Scholar. There is like tens of sources where you can search 13 true of Table 2. 13 14 Q What is the difference between Table 1 and 2? 14 people's h scores, and they will all be somewhat 15 15 A Table 1 has only the people who weren't cited either different, and it's controversial in that regard. 16 16 for dismissal procedures for full professors or for So I don't see that this has any validity, 17 the other procedure, Article, what, XXIV? Whatever 17 so I object to it in that regard. 18 18 CHAIRPERSON STATHAM: Okay. Overruled. 19 19 The second table I put down everybody. You can argue that in your post-hearing brief. It's 20 20 Q Everybody in the department? admitted. 21 21 Who have not received dismissal letters only, so in (At 3:15 p.m., Respondent's 22 22 other words--Exhibit 12 received) 23 23 MS. GALANTE: In which table? THE WITNESS: The question is not h scores 24 THE WITNESS: It's the second table. 24 here. It's simply citation numbers. 25 MS. GALANTE: Oh, you're referring now to 25 MS. GALANTE: Oh, I'm sorry. Page 424 Page 426 1 which document? Just so I'm--1 THE WITNESS: But you are absolutely 2 MR. GREGORY: His rebuttal, page 2. 2 right, Ms. Galante. You're absolutely right. You 3 3 THE WITNESS: Yeah. I basically tried to can go to other sources and you can find 4 show that I'm not the worst professor in the 4 differences. You can find differences in h numbers, 5 5 department, and in terms of reputation I have, you but they are basically small. 6 6 know, an international reputation. If someone has 7,000 citations and your 7 7 It doesn't try to show that I'm better next search is not going to find 300--you know, this 8 8 is the best I could do. I couldn't search every than anybody, and you might think I'm saying this 9 only because I want to be nice and please the 9 10 10 If you have a name that is difficult to Committee. There may be something to that, but I 11 search that wasn't at Wayne State, I'm not trying to 11 actually genuinely believe that. 12 12 say anything about the quality of these people. I It doesn't say anything at all. We have a 13 13 great--well, we have a very good Associate Professor tried to disguise who they are, but in the 14 14 documentation you will have to see their names. I in our department who is exquisitely--I won't say 15 had no choice. 15 him or her--but does exquisite small scale work on 16 MR. GREGORY: Very well. It's in. 16 topics which people probably are never going to be 17 17 Q (By Mr. Gregory) Let's move now to the claim of interested in. 18 minimal teaching activity. 18 He or she will never generate high 19 19 citation numbers, but he or she is a superb When the department was Molecular Genetics, I taught 20 a lot. I had a special course with Bob Akins, and 20 scientist, and is not likely to do very well at 21 as Barry got rid of the molecular biologists, the 21 Wayne State as it is constituted right now. 22 protein chemists decided they weren't interested. 22 Q (By Mr. Gregory) Direct your attention, please, to 23 They weren't interested in Molecular 23 the charge that you engaged in minimal teaching 24 Biology, so they started cutting my courses. I'm 24 activity, and explain why you disagree with that 25 still interested in teaching, but if I were to ask 25 claim.

Page 427 Page 429 1 1 the department to actually institute some new thing is, even though I have no service and it has 2 2 been this way for some years, my service scores jump courses, I would not succeed. 3 3 The idea is to keep the course numbers all over the place in the Salary Committee. 4 4 small. We have only 14 students. Only four are I'll leave that to you to understand why. 5 5 currently taking courses. It means that there is an incredible amount of 6 6 If they were to give me a Molecular noise, and people should be picking out numbers, 7 7 because my status hasn't changed. Biology course, it would mean that some students 8 8 might get interested in Molecular Biology instead of The status--the Salary Committee should 9 9 Protein Chemistry. Okay? give me the same score. It may be a bad score, but 10 10 the same score each year. They don't. It jumps all I've taught everything I have been asked 11 11 to teach. I have volunteered every time they would over the place. 12 12 ask me to volunteer, except for Sharon Ackerman Q You didn't apparently impress Dean Sobel about your asked me recently after I got my dismissal letter to 13 13 research. He asserted that for a decade your 14 volunteer, and I was not disposed to volunteer for 14 research efforts have been mediocre to very low. 15 15 A Okay. I would like him to come and test him--read teaching under those circumstances. 16 my papers. You have four of them here. Ask him 16 So I teach as much as I'm asked. I've 17 17 about this. Read the bacteriorhodopsin papers-never refused a teaching assignment. I don't know 18 18 which he can't. what I'm supposed to do. I have some courses I 19 19 would like to teach that I'm thinking about. He can probably read the ALS papers. They 20 20 I'd like to do a history of Molecular are written in simple language. He can't read 21 anything else, but let him come here or get some 21 Genetics, starting with E. coli genetics, very 22 22 expert to say, "Well, Needleman, you know, you early, and then switch to CRISPR, with yeast in 23 23 between. published, but it's crap." 24 I'd like to do a historical study. I 24 I'd like when we do a review of faculty 25 25 would like to teach a statistical study where we not to rely on the Salary Committee, which never Page 428 Page 430 1 1 look at drug papers and other papers to look at looks at your papers. I'd like them to be able to 2 2 abnormalities, a statistical analysis, and teach our take these papers, take a look at them, read them, 3 3 students how to read a paper properly, but I have no decide whether they are substantive, decide whether 4 control over teaching assignments. 4 it is novel or not. 5 5 Q You are also charged with a virtual absence of I claim that these four papers have novel 6 service. What is your response to that? 6 ideas. Do I claim they are great papers? Probably 7 7 A Once again, I've run--how do I avoid service in my not. Are they going to change biological science? 8 department? There is only one way. I can refuse to 8 Probably not, but maybe. 9 run for election. I've never refused to run for 9 Maybe if we can modulate glutamate in the 10 election. I just recently ran. 10 brain and glutamine in the brain without 11 11 consequences, doing this actually you can extend the I may have won. I have no idea. Probably 12 12 not, but the protein chemists vote for the protein lifetime of the ALS mouse, but also of the 13 13 chemists, and the molecular biologists used to vote Alzheimer's mouse. 14 14 for molecular biologists, obviously, for friends. You can also improve memory using 15 15 phenylbutyrate. So these drugs have a role. There So as the department changed, I have run 16 every time, and I haven't won. How this is a 16 are also some problems with using these as drugs

among--but it is not colorless research.

colorless papers.

There is a phrase in Catalan where they

say, "He has the color of a dog running away," which

They have a point of view. They have

substance, and they have--they are human products.

I don't know how good they are. It's too early to

means he is colorless, and in fact these are not

17

18

19

20

21

22

23

24

25

17

18

19

20

21

22

23

24

25

service.

unsuited.

personal failing is beyond me. I can't do more

for the Faculty Senate here." As you can see from

my testimony today, I'm totally unsuited to run for

I don't have the personality necessary to

Faculty Senate. I don't relate easily. I'm totally

be a senator, so it is what it is. The strange

Now you'll say, "Well, you should have run

Page 431 Page 433 1 1 No, but Bill Brusilow spent hundreds of I'm not going to be claiming that these 2 2 are wonderful papers, but they are scholarly papers thousands of dollars doing this, and to be told that 3 3 done properly. that money doesn't count for anything, that we need Q Did any administrator discuss the nature or status 4 4 grant money for overhead is absurd. 5 5 of your research? Well, it's not absurd, but it's rather 6 A They are unqualified to discuss it. Okay? They're 6 troubling. So to answer the question, five years 7 7 not scientists. nothing in terms of papers. Next five years, yes, 8 8 Q Correct. to the present time. 9 Tell me who is going to read the bacteriorhodopsin 9 MR. GREGORY: Just give me a moment, 10 10 papers or be looking at FTIR. please. 11 11 Q Did anyone come to you and offer to--(At 3:22 p.m., Respondent's 12 12 A Of course not. They're not interested. Exhibit 13 marked) 13 Q No? 13 Q (By Mr. Gregory) You are being shown Respondent 14 A They don't care whether in fact--what the content 14 Exhibit 13 for identification. Can you state what 15 is. Okay? They care only that it exists, or even 15 it is and explain what it purports to represent? 16 16 not that, that I have grant money for it. There is A After I wrote the Rebuttal, I realized I needed 17 no interest in whether the research I did was good, 17 documentation for the tables, so rather than put it 18 18 bad or indifferent. in the Rebuttal itself I decided that I should put 19 19 Has anybody ever been fired for doing it in an appendix. 20 20 crummy research anywhere in academia? I doubt it. It starts by telling how I compiled Table 21 As long as you do something, publish something and 21 1, how I compiled Table 2, and I talk a little bit about the h-indexes. I don't want to offer this as 22 get money, they're perfectly content. 22 23 23 Q Proceeding with the Rebuttal, what is your response an h-index. I really don't. It's not a mark of 24 to the other allegations of the charge, that 24 scholarship particularly. 25 2.5 essentially for ten years you have been very It's a mark of arriving--well, actually Page 432 Page 434 1 1 inactive and unproductive? it's not arriving, but of fame in some ways, how 2 2 A It's false. I mean, the first five years I many people look at your work. It has little to do 3 3 explained. We had been active, but we didn't with the quality of the work. 4 publish any papers. We didn't know the system, and 4 You can do small scale work that is 5 5 we were essentially ignorant of everything about a exquisite, have a low h-index, and it should be 6 6 mouse, how to use them. perfectly fine, but once again, I was asked about 7 7 In fact, we set up the experiments international recognition, and a high h-index does 8 8 show international recognition. slightly wrong. What we did was we looked at end 9 point of death with some of these experiments, which 9 There is no way of saying it doesn't. MR. GREGORY: We offer 13 in evidence. 10 10 means the mouse's lifespan is when the mouse dies, 11 11 CHAIRPERSON STATHAM: Okay. The appendix but how does a mouse die? 12 We're not allowed to let a mouse die. We 12 to the Rebuttal is offered. Ms. Galante, 13 13 have to use the veterinarians. So there is a objections? 14 14 certain noise in the experiments to determine the MS. GALANTE: No objections. 15 15 CHAIRPERSON STATHAM: No objection? It's time of death. 16 It's blinded. The veterinarian decides 16 17 this mouse is in too much distress and it's 17 (At 3:25 p.m., Respondent's 18 essentially dead. So we have some other tests for 18 Exhibit 13 received) 19 19 Q (By Mr. Gregory) Have you in the course of your grip and some other things that don't involve death 20 20 career been involved internationally? when we did that. 21 21 Five years went by. We did work, and the A Yeah. I mean, my mitochondrial genetics work not 22 22 sixth year we published, and since then we have been only got me a major lecture at Cold Spring Harbor. 23 23 publishing on this. So, you know, do we have ten I was a graduate student, and the \$500 honorarium 24 grants? Ten graduate students turning this thing 24 was absolutely incredible. 25 25 My girlfriend and I lived on that for a out?

Page 435 couple of months in Brooklyn. I chaired international meetings. I chaired mitochondrial meetings. I chaired international retinal meetings with Don. When I say "chaired," if I chaired a 500-person session, not a small session of it. I toured China on the invitation of Wei Yue. Wei Yue is the first woman in China to actually get a Ph.D. She got it in Japan. She invited me to tour Nanjing, Shanghai, Hangzhou. I spent two weeks in her lab, talking to the people there about

bacteriorhodopsin.

It was in the 1990s, and the Chinese did not really speak English. My Chinese students gave me a series of Chinese slides, which I put up. I knew what they were, what was on it.

I mumbled something in English, and they were able to follow what I did. I toured Japan twice. I went to Hokkaido, Tokyo, Osaka, Spring 8, which is the Syncotron, Himeji. I think probably that's it.

I spent the time lecturing. I spent time in people's labs. Both trips were sponsored by the Japanese government, so I have international recognition, if that is the question.

Page 437

patient activity. Hopefully we have some good
results. Okay? That was the basic plan. Bill was
willing to spend once again hundreds of thousands of
dollars.

Bill may be appearing before your

Bill may be appearing before your Committee soon. Despite spending hundreds of thousands of dollars on his own research, somehow he is ready for dismissal.

Q The Dean also asserts that you had only four grant applications in the last ten years.

A Okay. Actually that is false, but it's not Jack's fault. Okay? What it is is, the many grants we write, a five- or six-page pre-grant, submit it. They read it, and then they decide whether in fact they want that full application.

I had about six or seven of those, to Karmanos, to DLE, to various other places. They are not in my C.V. As stated, my C.V. seems to be rather deficient.

I'm not interested in polishing my C.V. There is no reason to put those things in. They are failed applications, but we looked at some other applications, some other places, and we did submit. We tried to submit, but he's right otherwise.

Q What is your response to the Dean's claim of lack of

Page 436

Q What is your response to the Dean's assertion that

A That is absolutely true. I mean, I can't--I have not had a funded grant. We could never get funded for the MSO work. Why?

you have not had a funded grant for 13 years?

First of all, we're too old. I know this comes as a shock to people on this Committee, but Bernie Sanders was my classmate, which means we are about the same age.

We have no experience in--if you look at the exhibit that talks about the nature of switching fields, you are not going to get an NIH grant when you have never had a publication in a particular field. It's impossible.

It's hard enough to get it when you are, okay, in that field. We have no track record. We have no experience. It was foolish to even try, and we had no preliminary data, frankly.

The mice experiments took so long that we had no preliminary data until the fifth year. We started publishing, and the plan was, once again, to go into human trials with the ALS clinic here and use that to get our first clinical grant, and then to build on that, on that track record.

We would have data. We have clinical

Page 438

significant publications and the fact that you were listed as middle author?

A Okay. This is complete nonsense. This may work in clinical trials. In fact, Jack is not the first author on any of his papers. There is no reason to think that the senior author is the one that did the experiments.

In my cases, Bill and I collaborated for the last, oh, ten years. Bill did much more on the liver paper, both intellectually and in terms of real work than I did.

I worked mostly with the graduate student when he came back. Bill is senior author. I did much more work than Bill did on the ALS amino acid paper, working with it. Bill is senior author.

Why is Bill senior author? He funded the work. It's very simple. I've often had cases where I've done 80% of the work myself with a technician. My colleague, Corinne Michels, had a student who did maybe 20% of the work.

What did we do? Did I appear first on the paper? No. The student did. We wanted to give the student first authorship of the paper, often the first time they ever had first authorship.

This is what we do. Should I appear at

1

Page 439

the back as prime author? No. The student is

1

24

25

We didn't publish it because our

2 2 Corinne's author. So it was the student, me and interactions, chromosomes talking to each other, but 3 3 when we did this there was no technique at all that 4 4 It says nothing about who did most of the we could confirm this. 5 5 work. It says nothing about prestige. Clinical Athar works in fact exactly on this. In 6 scientists may do this if they look down. They say, 6 the last five years these techniques, looking at 7 well, you can put asterisks on it and say an equal 7 chromosome associations, have become prevalent. 8 8 thing. My idea for this is I would like to work 9 That's pretentious. I'm not worried about 9 with Athar on this. It's a good collaboration, 10 10 what people think about how much work I did on a equal collaboration, and I would like to teach him 11 11 paper or not. No one cares. You know, if my name the MAL system. 12 is on a paper, they will come up to me and ask me 12 The MAL system is a very strange system. No one works on it. There is all sorts of hidden 13 questions about it at any meeting. 13 14 They are not going to say, "Well, you're 14 lore. It's even difficult to get phenotypes in this 15 not senior author. We're not going to talk to you." 15 system. There are all sorts of strange things that 16 16 It's complete nonsense. happen. 17 Q Has your chair ever directed you to engage in 17 I would like to give it to Athar, and when 18 particular research or other activities that you 18 the time comes to retire, you know, the MAL work 19 19 declined? will go on, and we will have this. Plus I'll be 20 A I have not said a word to my chair in 20 years, 10 20 working intellectually on a topic that I think is 21 years, since she has been chair. I think I had a 21 extremely interesting. 22 22 very brief conversation once, maybe two years ago. Q Have you declined to participate in the Selective 23 23 Salary Review? 24 Q Have you received instruction from the Dean or Vice 24 You know, I just looked, and I have it in my 25 25 or Associate Deans? computer for 2015. I don't know if I ever sent it Page 440 1 1 A The procedure they are putting in place, they say, in. I did not realize this was a requirement. 2 2 "Why don't you go and get help on your grant?" Who Well, people will say, "Well, why didn't 3 3 is going to give me help on this very technical you read the Factors on page..."--whatever it is. I 4 grant? There is no one--well, actually there is one 4 don't read, you know, things that come from the 5 5 guy, Nick Davis, who I may ask for. Medical School. 6 6 If I want help on this grant from Nick, I I haven't followed--she is going to--you 7 7 know, I'm going to get jumped on, saying, "Well, go in and I say, "Nick, will you please read this 8 grant and tell me what you think?" I'm not going to 8 it's professional responsibility. You should read 9 fill out a form that says--my expectation is to get 9 this." 10 10 You get all sorts of junk, and you know, I this grant in. 11 11 don't pay any attention to it mostly, so--I'm not going to give it to anybody here 12 12 who thinks that just changing some of the technical Q Any other reasons? 13 13 comments or the boilerplate is going to make this A No. Well, no, but I was never going to get a salary 14 14 increase anyway from these guys. Okay? It's a grant go. 15 15 closed--I mean, outside of my department--I thought This grant needs a big revision to 16 simplicity. I know what it needs. I'm going to 16 about many ways of explaining it to the Committee. 17 17 have to work--if I don't get thrown out, I'm going I know we have somebody from the English 18 18 to work on it. My idea for this grant in MAL and Department and somebody from Spanish. For Professor 19 19 ZeWinters I would say, suppose you are in a yeast is the following. 20 20 I'm working with Athar Ansari, who is a department where everyone is post-Modern, and they 21 21 major--who is a biologist on main campus. I found are doing Therida (phonetic) and Foucault 22 22 out about Athar because I attended this seminar. (phonetic). 23 23 This work was done awhile ago, but we didn't publish You come in, and you decide you are going

to do the Spenser's Faerie Queen, the role of the

masque, and your critics are Epson (phonetic) and

Page 441

Page 442

hypothesis was that this was chromosomal

24

25

Page 443 Page 445 1 1 Rosemary Touf (phonetic). administrators." 2 You're not going to feel very comfortable. 2 MR. GREGORY: Just a second, please. 3 3 Q (By Mr. Gregory) At any time were you offered the They may be very nice people in your department, but 4 4 even so they are on the outside. That product, by opportunity to engage in what we call 5 5 the way, was chosen by my wife, so it's not a "expectations," in short, a form of mentoring? 6 6 strange topic. A Not as far as I know. 7 7 Q Did you have any discussion whatsoever with your So let's say suppose you are in the 8 8 Spanish Department and they are all-chair regarding the charges? 9 9 DR. FERRER: We don't have a department A Once again, I've only talked to my chair maybe three 10 10 chair. sentences in the last ten years. She's not a chair. 11 11 THE WITNESS: Okay, but suppose you are in She is an Emergency Manager. Okay? 12 12 a Spanish Department where people are doing Chairs are elected and represent the 13 literature, comparative literature, and everyone is 13 faculty. We haven't had such a representative in 14 14 eight years. doing a Capparano Navaka (phonetic). They are doing 15 15 Vega and you decide, well, you know, you are going Q After the meeting with the Dean and his company on 16 16 to do Neruda (phonetic). May 23, was there any further contact from the 17 17 Dean's office regarding your performance? The problem is that most of those guys, 18 18 older professors, are very nice, but they're sort of A Not that I know. 19 19 Q Not with you directly? maybe philanthropists, and they sort of--they are 20 20 against the republicans, and doing Neruda is not so 21 Q Were you at any time told that you had to be 21 great. 22 22 productive with respect to grant funding, and if Suppose it's even worse than that. 23 23 Suppose you decide to do Lorca, who was murdered by 24 Franco. Lorca was gay and a leftist. That's even 24 A No, but obviously I want to get grant funding. I 25 worse. Suppose it's even worse than that. Suppose 25 don't want Bill who is paying too much money for Page 444 Page 446 1 you were going to do Catalan. You want to do 1 this stuff. 2 2 REPORTER: You didn't have a full Montalban, and look at things like "The Pianist." 3 3 You are going to look at the--not question. You got cut off. 4 detective novels of Montalban and decide how they 4 MR. GREGORY: I got cut off? 5 tell us about post-Franco Spain. You are going to 5 REPORTER: "Were you at any time that you 6 6 be outside that department. had to be productive regarding grant funding..."--7 7 I'm the same way. I do the prevalent A (By Mr. Gregory) At any time? 8 8 work. Molecular Biology is much stronger everywhere A No, but it's understood. 9 than Protein Chemistry is, but I'm on the outside. 9 Q But of course you are willing to apply, if you--10 10 Well, I'm trying. You know. I'm the same way. 11 People are nice, but we have nothing in 11 Q Yeah. 12 12 I'm trying to get funds for this yeast project. 13 Q Doctor, have you been told by any administrator what 13 Here we have a lot of preliminary data. I think it 14 14 is very interesting data. Will we get it? It's academic assignment you have not performed 15 15 competently? very difficult. 16 16 A No. My life is trying to figure out how things It's very difficult because the subject 17 17 work, do this, do my work. I don't talk to matter is so bizarre in some ways. It's very 18 18 difficult because NIH is difficult now. I'll do my administrators. 19 19 MS. GALANTE: I'm sorry. I didn't hear 20 20 MR. GREGORY: I have no further questions that last answer. "I don't what?" 21 21 at this time. REPORTER: To administrators. "I don't 22 CHAIRPERSON STATHAM: Cross? 22 talk to administrators." 23 23 MS. GALANTE: Oh. MS. GALANTE: Yes. I'm ready. This may 24 be a little awkward because I'm right next to you, 24 REPORTER: "My life is trying to figure 25 so I'll try and slide down a bit. 2.5 out how things work. I don't talk to

Page 447 Page 449 1 THE WITNESS: I won't bite. I'll watch--1 Q I am going to ask you to take a look at Article XXIV 2 2 MS. GALANTE: Well, I didn't mean that. I in the contract, that first paragraph, and read that 3 3 just meant in terms--I don't want to feel like I'm for us. 4 4 in your face as I'm questioning you. A (Reading): 5 5 THE WITNESS: I'm not dangerous. "The duties of faculty shall be reasonable 6 6 MS. GALANTE: So I was concerned about me. and fair and shall reflect teaching duties. 7 7 not you, being the dangerous one. research activity, creative professional 8 8 **CROSS-EXAMINATION** activity, and service to Wayne State 9 BY MS. GAI ANTF: 9 University." 10 10 Q Professor Needleman, would you agree with the Q So I used the term "responsibilities." Would you 11 11 statement that tenure carries both rights and agree that "duties" means the same thing? 12 responsibilities? 12 A Well, sure. I should teach. I should do research, A I don't know what it means. 13 13 and I should do as much service as possible. 14 O You don't know what that means? 14 Q So you admit that as a tenured faculty member you 1.5 15 A Tenure is a legal contract between the Union and the have duties or responsibilities? 16 16 University. That's what tenure means. Whatever A As a faculty member. 17 17 tenure means, it's a legal question. Q Okay. Do you believe tenure is an indefinite 18 Q So you don't believe that as a tenured faculty 18 entitlement? 19 19 member, this is that you have tenure, not the Union? A I believe that once--that tenure can only be revoked 20 20 A My tenure resides, as far as I understand it, in the for a cause, moral turpitude, other causes as is 21 21 Board of Governors, and the Board of Governors' traditional. I don't believe that there is a 22 22 statutes. I don't know what-continuing tenure notion that the tenure factors can 23 Q But I mean, the tenure is granted to you, not to the 23 extend indefinitely. 24 24 You get tenure today, and the same Factors 25 A Yeah. Whatever rights that tenure has are granted 25 can be used tomorrow to deny me tenure, which seems Page 448 Page 450 1 1 to be the position of the University. to me via the legal apparatus that we have at Wayne 2 State. Q So you understand that the Board of Governors' 3 3 Q So you recognize that as a tenured faculty member statute that we're talking about here today, which 4 you have rights? 4 is an exhibit in this case, defines the adequate 5 5 A I have rights. That is according to statute, cause for tenured faculty in this University? 6 6 whatever the statutory rights are. A I imagine it does. What it means, I have no idea. 7 7 Q Okay. I'm not asking you to define what those Q Do you agree with me that the standards at this 8 8 University for a tenured faculty member are rights are. I'm just asking you do you recognize 9 9 excellence in teaching and scholarly activity? that you have rights as a tenured faculty? 10 10 A Well, clearly I have rights. A If that's what it says. 11 Q Okay. Do you recognize that you also have 11 Q So if that is what it says, you're not disagreeing 12 12 with that. You have been through how many yearly responsibilities as a tenured faculty member? 13 13 Selective Salary Reviews, would you say? A I have responsibilities as an intellectual. I'm a 14 14 scientist. It's not as a--A I have no idea. 15 Q I'm not--again, I'm going to stop you for a minute. 15 Q You have no idea, but certainly at least ten to 20? 16 You're not answering my question. 16 It's required by contract. Correct? 17 17 A No. Then, no. There are no particular A I still have no idea. 18 responsibilities as a tenured faculty member that 18 Q So you have never opened the contract and looked at 19 are not in the contract or are my legal obligations. 19 20 2.0 I mean, if it's in the contract, then yes, but if A I have no idea about how many Selective Salary 21 21 it's not in the contract, then no. things I have been through. 22 Q Okay. Then let's go to the contract, and so you 22 Q Would you agree that you have been through one every 23 have no responsibilities other than what is set 23 year that you have been here? 24 forth in the contract is what you're telling us? 24 A Probably not. 25 25 A Well, no. Q Probably not? When would you not have been?

Page 451 Page 453 1 1 A Probably when I decided that there was no point number of years. 2 2 going through one, because I was never going to get At year X plus five, let's say, your 3 it, but I also did not know that it was a salary will decrease by a certain amount. At X plus 4 requirement, so--4 ten it will decrease even further. Okay? Your 5 5 Q Okay. So you are not aware of the contract salary is not guaranteed. 6 6 requirement--That is a condition of tenure or 7 7 employment. Then there are the hard money schools, A No. I wasn't at that time. I am now aware of it. 8 8 Q You are now aware of it since this hearing? which don't say that. They say nothing about--you 9 9 Right. I was amazed, actually. I thought that in know, the assumption is in fact that your salary 10 10 fact you could skip it, and if you skipped it three will be present, even if you have no grants. The 11 11 times there was something that would happen, but money is hard. 12 maybe--I have in fact the 2015 on my computer, ready 12 Q So if I'm understanding your answer correctly, you are saying it's your understanding that Wayne State 13 to go in. 13 14 I don't even know whether it went in or 14 University has never penalized a faculty member by a 15 not. However, I got some Selective Salary scores, 15 salary reduction if they don't have grant support? 16 16 which suggest to me that in fact I have put in A No. Wayne State University may have done a lot of 17 17 things, legal and illegal. I'm saying simply that Selective Salary. 18 Q Are you familiar with the School of Medicine Factors 18 there is a contract. 19 19 that has been marked--the School of Medicine I don't know what the legalisms are, but 20 20 **Promotion and Tenure Factors for faculty?** there is a doctrine called something like implied 21 21 A I think I know the first one about scholarship. I covenant of good faith, good will and good faith, 22 22 don't know the others. good faith and good will, which means that you can't Q Okay. So I'm going to show you it's Exhibit 5. So 23 23 make up things after the contract. 24 you didn't start out as a tenured professor here. 24 I came here only because it was a hard 25 Correct? 2.5 money school, and you can't all of a sudden decide Page 452 Page 454 1 that, well, it's not really a hard money school. I 1 2 2 Q You started out and worked your way through the have to support my salary on my grants. 3 3 process of becoming a full professor and a tenured Q So you are saying that Wayne State University can 4 professor? 4 never change anything? 5 A Correct. 5 A I'm not legal, I--6 Q And that process is dictated through the Promotion 6 Q I'm asking your position, that they can never change 7 7 and Tenure Factors for faculty in the School that anything in this school over 40 years of your 8 you're in. Correct? 8 tenure? 9 9 A I'm completely in ignorance. 10 Q And it spells out in detail what those factors are. 10 MR. GREGORY: I'm going to object. It's 11 Is that correct? 11 argumentative. It's argument now. 12 12 CHAIRPERSON STATHAM: I'll sustain that. A Well, I assume it does, yes. 13 Q You have never read that either? 13 MS. GALANTE: Okay. I will withdraw the 14 14 A Well, it has been a long time since I had to worry auestion. 15 15 about whether I got tenure or not. When I was Q (By Ms. Galante) So going back to the last page of 16 preparing my packet, I'm sure I read it. 16 this document, which I will--17 17 Q And you are a Research Educator? MR. GREGORY: What document? 18 Α 18 MS. GALANTE: The one we were talking 19 Q So you made a statement on your direct examination 19 about, the Factors, Exhibit 6. 20 that you had no idea you would ever be required to 20 Q (By Ms. Galante) Page 15, am I correct that this 2.1 have funding. You would have not come here if you 2.1 document states what the expectations are in order 22 knew that was a requirement? 22 to get tenure in the first place? 23 A No. I have stated the fact that there are two kinds 23 A It states what Jack Sobel thinks the expectations 24 of medical schools. One, you sign a contract which 24 are. I have no idea whether it's a legal 2.5 says you will get your salary, full salary for "X" 25 requirement. I have no idea about the contract.

Page 455 Page 457 1 1 You have to ask Charlie about whether these are science, I would be happy to do it. 2 2 Q When was the last time you formally mentored a legal requirements, or whether they just made them 3 3 4 4 He can tell me that I need 30% of my A Well, Monica Bame, who is actually formally Bill's 5 5 grants, my salary, you know? I cannot answer legal student. I spent more time with her than 6 questions. I'm completely ignorant. probably--Amruka, who worked on the liver paper, I 7 7 spent a lot of time with her. Q So you consider it a legal question? Q When? 8 8 A Yes. All tenure--all contracts are legal. You 9 9 provide salary for certain benefits. A Well, whenever the papers came out, in 2014 and--you 10 10 MR. GREGORY: There is no question. Just can see in the papers. Monica Bame--11 11 wait for a question. Q Is she still a student here? 12 Q (By Ms. Galante) Okay. So am I correct in reading 12 A No. She's at U. of M. She has the PhD. 13 this that this document states that there is an 13 Q So you changed--you voluntarily, which you have the 14 expectation for success in competitive external 14 right to do, changed your research focus in about 15 15 20082 funding on a national level? 16 16 A It may state that, but whether it's true or not and A You know, I'm so bad with numbers. No, it's earlier 17 17 than that. It was earlier, because Bill and I--let a condition of tenure is something for the lawyers. 18 18 me quickly look at this. I'm terrible--I know. I It's something for the Union. It's not for me to 19 19 have to apologize, because there are two things I say. 20 20 Q Does it also say: 21 21 "Sustained performance in teaching and One is actually remember names of people, 22 22 service are required"? for some reason, and the other thing is actually to 23 23 A It can say anything it likes, but once again it's a place myself in certain timelines, and I'm not 24 legal issue for what that actually means. I taught 24 senile, but I have not ever been able to do this. 25 as much as I can teach. I couldn't teach any more. 2.5 Let me see if I can find it. Page 456 Page 458 1 1 I gave as much service as I could. I ran Q Was it around the 2004--2 2 for everything. You know, you can say--Jack Sobel A I know that the phenylbutyrate--see, the 3 3 can say anything he likes in the document. I'm not phenylbutyrate papers were over here where I started 4 bound by it. I'm bound by the Union contract and 4 working with Bill, so that's 2004 when I worked with 5 5 the Union's interpretation. Bill. Yeah, 2002. 6 6 Q Let's talk for a moment about that service. So you So somewhere around 2002, 2004 we started 7 7 testified you ran for every committee that you could working on glumatine, maybe a little later, MSO 8 run for, and you were just never elected? 8 probably later than that, 2006. 9 9 Q You also talked about the fact that you were going A That is correct. 10 10 Q So do you recognize that there are lots of other to submit a grant application. 11 ways that a faculty member can do service? 11 A Well, I'm going to try to get this--12 12 No. The one that we discussed. I'm not talking A For example? 13 13 about what you do in the future, but the one that Q For example, scholarly service, review of articles, 14 14 serve on an editorial committee? you discussed that was marked as an exhibit. 15 A Okay. I review articles often, but I don't put them 15 A Yeah. That has to go back. It has to be revised. 16 16 on my C.V. I don't need to polish my C.V. and spend I haven't revised it yet. 17 17 my time on it. Q Okay. You were going to work--you needed to work in 18 Q Do you recognize that there are--or you can mentor 18 a clinic, you said, because you needed MD patients, 19 19 and--20 20 A Sure. I would be happy to mentor a student, but we A Yeah. We had a research project. We were going to 21 21 have no students to mentor. We have 14 students, take our last paper which shows the amino acid 22 2.2 four of whom are taking courses, ten who are doing changes in the ALS patients and ask the question. 23 PhDs. I have mentored students as a PhD advisor. 23 This is in mice. Do these changes occur 24 I mean, if you have an extra student 24 in humans? We had evidence that in humans there 2.5 wandering around who wants to talk to me about 2.5 were changes, but the statistics were so bad that

Page 459 Page 461 1 1 you couldn't conclude anything about it. comparison of yourself to other people in your 2 2 We had certain amino acids that would department. 3 predict what an asymptomatic ALS mouse was compared 3 That would be this first chart on 4 4 **Respondent's Exhibit 11?** to wild life, and we would like to be able to look 5 5 at drugs that they were using in the clinic and just A Correct. 6 6 Q There is no question yet. So my question to you is, look at progression in real life patients. 7 7 do you recognize, Professor Needleman, that your That would be a clinical application, and 8 8 we tried to get funding for that, but only with the department--your department, not just you, but one 9 MDs in the clinic. 9 at your department was one of two that were 10 10 Q Okay, and you said that you could not get Henry Ford identified by Dean Sobel as being what he considered 11 11 failed departments? interested? 12 12 A They were definitely not interested. They were I'm asking you if--it's a "yes" or "no" 13 arrogant, completely dismissive, and the reason 13 question. 14 seems to be that this is too easy. They didn't want 14 A Do I know that? 15 15 something where you take blood--Q Yeah. 16 16 Q Well, did they give you a reason? Well, without explanation, I can say he says that, 17 17 A It's hard--this is Medical School. It's very hard 18 18 Q You may dispute that, but-to get--it's like the Army. You get reasons, but 19 19 you are not really sure what the real reasons are. Α Oh, yes. 20 20 Q Okay. So did you try going to any other hospitals, Q You recognize that he says that. Okay, and how 21 21 any other-many--not talking about any merger of that 22 22 A No other hospitals have ALS clinics as far as I department anywhere else. How many people are in 23 23 know. The U. of M. is not a place that I would even the Biochemistry Department, or were? 24 try to get something. 24 Right now I would--I don't know, maybe ten, twelve. 25 Q So there was no place outside of the Detroit area 25 We have lost--we had 25 at one time. People left, Page 460 Page 462 1 1 that you could go? so--Parisi didn't support us at all, so--2 2 Q Parisi, meaning the prior Dean? A Do? No. We have to be present. We have to take 3 3 the blood if we are going to do the project, and Α Dean Parisi, right. 4 probably it is hard to get people interested 4 Q So of the faculty members that I have listed--I 5 outside. 5 mean, I don't know who you are comparing yourself 6 6 Q So let's turn to Respondent's Exhibit No. 9, this 7 7 NIH grant application. Who wrote this? You're listing four professors here, and I 8 8 don't want to get into names, because I don't think A Well, I wrote it. 9 Q You wrote it? 9 it's appropriate to be using names of people in this 10 10 A I wrote most of it. Athar wrote the last three proceeding, but my question is, do you have any 11 11 pages of it. firsthand knowledge of any discussions that took 12 12 place between any of the four professors that you Q You wrote the last three pages? 13 13 list in your chart--you know who they are. We A No. Athar Ansari probably wrote the last three 14 14 pages. I wrote most of the other grant. It's don't--any firsthand knowledge of discussions 15 15 basically my grant, and Athar basically joined it, between them and Dean Sobel? 16 but with 50%--we're equal on this grant. 16 A I have absolutely no idea of anything. 17 17 Q And this is not a complete--Q Okay. That is all my question was. Do you have any 18 A It's not complete in the sense that it has to have a 18 firsthand knowledge of how many people in your 19 biographical statement. It has to have a budget. 19 department were given a letter such as the letter 20 It has to have a cover page. 20 you were given? 21 It has to have all these things which are 2.1 A I can count, and--but I would rather not try. I 22 not relevant to the nature of the issue of whether I 22 mean, none of these people I know were given letters 23 have done some work or not. 23 of any kind. 24 Q Thank you. So you also in this Rebuttal document 24 Q These four people? 25 talk about the fact that you have done your own 25 A That is correct.

Page 463 Page 465 1 1 quite long paragraph where you say Q Okay. So you don't know whether and what 2 2 discussions Dean Sobel had with them regarding their "parenthetically." Okay? So you make some 3 performance, because you have already told us that, 3 statements here parenthetically about another 4 4 but of the ones that-faculty member who was, according to your statements 5 5 So you received a letter, and you have 6 6 already mentioned your colleague, Bill Brusilow, and "Reappointed to the School after his 7 7 you said he is going to be here too, so he has also extensive fraudulent scientific activity." 8 8 received a letter? So do you have any firsthand knowledge--9 9 10 Q And he is also subject to a dismissal proceeding. 10 Q And what is that firsthand knowledge? 11 Is that correct? 11 A I'm involved in the case. I have a lawyer, at 12 A Correct. 12 Honigman and something or other, who is my lawyer in 13 Q As for the other members of your department, I 13 this particular lawsuit that Fazlul Sarkar started 14 can't--again, it's difficult to do this, but you 14 against certain people. 15 have no firsthand knowledge of whether or not they 15 I'm not a party to the lawsuit, but it's 16 have had any discussions with the Dean about their 16 about to be deposed. Hence, I have complete 17 performance. Is that correct? 17 knowledge of what the filings were and what the 18 18 stipulations were in this case. A Discussion--well, discussions, no, but I think I 19 19 Q And I don't think I would dispute and you're not know who is getting letters and who didn't. We 20 talked to them. I mean, we talked to people. 20 disputing that a committee did a research misconduct 2.1 Q Okay, and you know that you and Brusilow received 2.1 investigation of Professor Sarkar and found that he 22 those letters? 22 had committed research misconduct? 23 23 A I know someone else, yeah. Yes. A It was a wonderful investigation by Phil Cunningham. 24 24 Q So you made the comment on direct examination with It took--okay. It was tremendously done. 25 25 regard to this chart on the top of page 2 of your Q All right. So the investigation was done, but my Page 464 Page 466 1 1 Rebuttal statement. concern is that you are saying here that the School 2 2 This is where you list the professors by of Medicine reappointed him. How do you know that? 3 3 letters, (A), (B), (C), (D), (E) and (F). A Because I'm party to the lawsuit. I have seen the 4 A And they are different than the first chart 4 filings in the ACLU. I've seen the filings with my 5 5 actually. It's random. 6 6 Q Correct. Okay. So this chart you list the number Q So if I were to tell you that the University gave 7 7 of times you were cited and your h-index, and your him a one-time limited extension of his contract so 8 8 that they could complete their research misconduct number of papers. Again, you're comparing yourself 9 to other professors in your department whose names 9 investigation, would you have any ability to dispute 10 we don't know. Correct? 10 that? 11 A Who have not received dismissal letters. 11 A Would I have the ability to dispute that? As I 12 Q To your knowledge? 12 understand it, he was given a one-year extension to 13 13 A To my knowledge. They may have received other kinds come back to Wayne State. He was given a one-year 14 14 reappointment. That's as far as I know. 15 Q And it was based on that that you make the 15 Q So because the research misconduct investigation was 16 conclusion that you were not the worst in your 16 ongoing at that time? 17 17 department. A Well, I don't know why, but he was given a 18 18 A Well, this chart-one-year--he came back to Wayne State for a year. 19 **Q** That was the statement you made. 19 You know, I can't--20 20 A Well, then I should take it back, because this chart Q And what I'm telling you is, if that were done so 21 21 that the University could complete it's research merely shows that I have an international 22 reputation, okay, more so than others. 22 misconduct, you can't dispute that, can you? 23 Q Okay, and I don't think anybody was disputing that. 23 A Yes. I mean, I have no idea whether it was done or 24 No, but it doesn't mean anything. 24 not. I can only tell you the Internet--everyone 25 Q I want to go to page 4 of your Rebuttal, and it's a 25 knows things that in fact he came back and was

		Page 467			Page 469
1		_	1		
1 2		completing his fraudulent work for another year, and	2		documents that are part of Exhibit 8, which was admitted as an exhibit here.
3		Wayne State was getting grant money.	3		
	^	That is a commonly accepted view.	4		In particular I want to refer to page 3, which
4 5	Ų	So would the University be able to under all the	5		
6		discussions we have had today about due process	6		MR. GREGORY: What are we looking at now?
7		given to tenured faculty members, do you think the	7		MS. GALANTE: Exhibit 8, page 3.
8		University could just dismiss somebody without	8	_	MR. GREGORY: Thank you.
9	٨	completing their research misconduct investigation?	9	Q	(By Ms. Galante) Is a document that was part of
10	Α	• •	10		your Selective Salary Review with regard to teaching for 2014/2015. Is that something you would fill out
11	^	University.	11		
12	Ą	Oh, okay. Well, quitting is a different thing. He quit, and he came back. His tenure was removed.	12	۸	as a faculty member? Well, because it says "Unknown," probably.
13	А	• •	13	A	So if it says "Unknown," it was yours?
14		He tried to go to Mississippi. Mississippi found	14		
15		out about him. Mississippi said, "We don't want	15	A	- , , , , , , , , , , , , , , , , , , ,
16	^	you." He's suing Mississippi. At what point was his tenure removed?	16	Ų	And am I correct here then that you tell the
17		When he left Wayne State University. He resigned.	17		administration that hours of preparation, total number of learners, all of that is unknown by you?
18	_	, , , , ,	18	۸	
19	Q	,	19	A	So
20	٨	That is a different thing.	20		
21	Α	But you lose their tenure when you resign.	21	А	Should I tell you why? I just want to complete the
22		MR. GREGORY: Does this have anything to do with it?	22	_	answer. Sure.
23		MS. GALANTE: Well, yeah. It has to do	23	_	In one lecture course I have actually a terrible
24		with the fact that he is making	24	А	first lecture. It's on bio-energetics. It's on
25		THE WITNESS: I should go to law school.	25		non-equal thermodynamics. I change it every year.
20		THE WITNESS. I should go to law school.			non equal diermodynamics. I change it every year.
		Page 468			Page 470
1		MS. GALANTE: These representations to the	1		I spend hours and hours trying to make it
2		Panel about things that he has no firsthand	2		comprehensible to students.
3		knowledge about.	3		I finally wind up saying this is all
4		THE WITNESS: I'm involved in the lawsuit.	4		culture. You don't need this on your exam. Let me
5		MS. GALANTE: I find it particularly	5		explain it to you. Okay?
6		offending.	6		On that lecture alone I probably worked 75
7	Q	(By Ms. Galante) Are you aware of the fact that on	7		hours this year. Does it get better each year?
8		October 19TH of 2015 then-Provost Margaret Winters	8		Maybe. It's still not good. I have no idea how
9		sent Dr. Sarkar a letter indicating that:	9		many hours I spent. I'm not a bureaucrat. I don't
10		"Your appointment terminates on January	10		sit down and tally it.
11		31, 2016, and you will not be renewed"?	11		I could put down any number you'd like
12	Α	I have no idea.	12		here, but it would be a lie, so I'm saying
13	Q	Okay. So you can't dispute that?	13		"Unknown," because it actually is unknown. You
14	Α	No.	14		know, I don't know how much I work on it.
15	Q	So when you make these statements here, you don't	15		All I can tell you is for that lecture I
16		really know for sure?	16		work an awful lot on it. I mean, it's different
17	Α	From what I have seen in the filings in the ACLU and	17		each year, and if you go through my lectures you
18		my lawyer's filings, what I'm stating is correct.	18		will see it's different each year.
19		Now could I be wrong?	19	Q	
20	Q	But you don't know if those filings contain	20	Α	, , , , , , , , , , , , , , , , , , , ,
21		University records about his appointments or not?	21	Q	• •
22	Α	Yes. You're right. I don't know the entire history	22	Α	
23		of the case in all its details.	23	Q	
24	Q	·	24		access it. When was the last time
25		important. I want to go through some of the	25	Α	Probably a long time ago. I go to the lablook.

Page 471 Page 473 1 1 This is not a corporation. I go to the lab when I lack of effort that the--2 2 CHAIRPERSON STATHAM: I think the last need to go to the lab. I don't go to the lab when I 3 3 am writing papers at home. question was, in the last two and half years, how 4 4 I don't go to the lab--with Monica Bame I many times have you come into the lab? 5 5 did everything by Internet. The whole notion that Q (By Ms. Galante) Do you know? 6 this is an industrial deal where I have to come in 6 CHAIRPERSON STATHAM: Do you know? 7 7 THE WITNESS: Of course not. particular hours is antithetical to everything that 8 8 molecular biologists do. This is not our culture. CHAIRPERSON STATHAM: He said he didn't 9 Q And I don't think anybody is alleging that. 9 know. 10 10 A No, but you're trying to say that--when is the last MS. GALANTE: He said he doesn't know. 11 11 time? I have no idea. I do know recently I Q (By Ms. Galante) So if I tell you it was six times, 12 haven't. I have been writing grants. I have also 12 you can't dispute that, that your access card was 13 unfortunately been involved in this thing. 13 used? 14 14 A I have no idea. There is no reason for me to go from Ann 15 15 Arbor to Wayne State to sit in a lab with poor CHAIRPERSON STATHAM: Could we take a 16 ventilation, where the cockroaches are as big as 16 five-minute break? 17 17 small mice, okay, with heat that we have to use a MS. GALANTE: Sure. I just have a little 18 18 fan while we're there, when I could be sitting at bit more, but I'm trying to sort through--19 19 home and actually working on something. CHAIRPERSON STATHAM: Okay. Why don't we 20 Q So you do the majority of your work at home? 20 take a short five-minute break. 21 A No. It depends on where we are. It depends on 21 (At 4:07 p.m., recess taken) 22 22 where I am in my career, and where we are in the (At 4:14 p.m., back on the record) 23 23 research. When I had graduate students I was in MS. GALANTE: I have no more cross-24 every day, too much. 24 examination for Dr. Needleman. 25 I was in weekends. Graduate students need 25 CHAIRPERSON STATHAM: All right. Dr. Page 472 Page 474 1 1 Needleman, you can take your seat, normal seat. constant babying. They need constant attention, and 2 they got constant attention. When I had certain--2 MR. GREGORY: Sit back down, Richard. 3 3 At one point my technicians could make up CHAIRPERSON STATHAM: Oh, I'm sorry. 4 mutants by themselves. Okay? I only did the laser 4 MS. GALANTE: Gordon has more. You're not 5 5 work, the experimental work on the optical finished yet. 6 multichannel analyzer. 6 THE WITNESS: I thought you said you had 7 7 So they could work, make mutants. I could no more questions. 8 stay home, write and think about it, and then I 8 MS. GALANTE: But your attorney does. 9 would come in and work. So depending on the 9 CHAIRPERSON STATHAM: Redirect. 10 10 REDIRECT EXAMINATION circumstances I'm in a lot, I'm in very little. 11 Q In the last two and a half years, how many times do 11 BY MR. GREGORY: 12 you think you have come to campus? 12 Q Richard, as you know, your career is on the line. 13 A I have no idea. I often--I mean, I have no idea. 13 We have had a lot of discussion. Your career of 14 14 Q Where do you park? course is at stake. 15 A I park on the street, or I park in the parking lot. 15 We have had numerous discussions about 16 Q In the parking structure? You have a parking access 16 this case, and about the fact that you are entitled 17 code? 17 to due process, which is going to be done by this 18 MR. GREGORY: How is this relevant to 18 19 anything? 19 Is there anything more you wish to tell 20 MS. GALANTE: I think it's relevant. 20 the Committee at this point about your career and 2.1 THE WITNESS: Is it relevant to anything 21 your performance? 22 you claim in the letter? 22 A No. I think my career has been reasonable. I 23 MR. GREGORY: Objection. We're so far 23 think, you know, we had certain up/downs, especially 24 afield. Where does he park, and--24 with the change of focus. I wish I had more money 2.5 MS. GALANTE: I think it's relevant to the 25 for the ALS work.

		1	
	Page 475		Page 477
1	I wish we didn't have to use Bill's money,	1	MS. GALANTE: The School of Medicine
2	but this is a researcher's life. I have been very	2	Promotion Factors.
3	successful before this thing.	3	MR. GREGORY: Oh.
4	I think my success in the lastwell, in	4	MS. GALANTE: Okay, and the copy that I
5	the five years I think the papers are good and may	5	had was
6	be valuable, and I work on science, and I hope very	6	MR. GREGORY: I don't want to substitute
7	much that I get this grant, because this is a brand	7	anything. That's what you introduced, and
8	new concept.	8	MS. GALANTE: So youokay. So then we'll
9	I love working with Athar. The biological	9	add this as a new exhibit.
10	science department on main campus is fantastic now,	10	CHAIRPERSON STATHAM: Okay, because I
11	and I would very much like to finish up my career	11	think, Mr. Gregory, your argument was that that was
12	looking at gene/chromosome interactions.	12	not relevant because it came after the disciplinary
13	MR. GREGORY: Thank you. Thank you.	13	proceedings.
14	That's all I have.	14	MR. GREGORY: Yes. That's right.
15	MS. GALANTE: Nothing further.	15	CHAIRPERSON STATHAM: And the
16	(At 4:16 p.m., witness excused)	16	administration's answer was, well, it's the same as
17	CHAIRPERSON STATHAM: No more witnesses?	17	the one we had prior to that disciplinary
18	MR. GREGORY: No.	18	proceeding.
19	CHAIRPERSON STATHAM: You are going to	19	MR. GREGORY: Well, all right, but what
20	rest?	20	they're saying after I brought it to their
21	MR. GREGORY: We are going to rest, yes.	21	attention
22	CHAIRPERSON STATHAM: You don't have any	22	MS. GALANTE: That's fine.
23	other questions for Dr. Needleman?	23	CHAIRPERSON STATHAM: We'll put that in as
24	MS. GALANTE: I have no further rebuttal.	24	Respondent's exhibit
25	I just	25	MS. GALANTE: Employer's.
	Page 476		Page 478
1	CHAIRPERSON STATHAM: But you do have a	1	CHAIRPERSON STATHAM: Sorry.
2	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead.	2	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what?
2 3	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of	2 3	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19.
2 3 4	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things.	2 3 4	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's
2 3 4 5	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had	2 3 4 5	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received)
2 3 4 5 6	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to	2 3 4 5 6	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the
2 3 4 5 6 7	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine	2 3 4 5 6 7	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award.
2 3 4 5 6 7 8	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors.	2 3 4 5 6 7 8	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been
2 3 4 5 6 7 8	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with	2 3 4 5 6 7 8 9	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted.
2 3 4 5 6 7 8 9	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday.	2 3 4 5 6 7 8 9	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in.
2 3 4 5 6 7 8 9 10	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this	2 3 4 5 6 7 8 9 10	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that?
2 3 4 5 6 7 8 9 10 11	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get	2 3 4 5 6 7 8 9 10 11	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that?
2 3 4 5 6 7 8 9 10 11 12 13	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year.	2 3 4 5 6 7 8 9 10 11 12	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18.
2 3 4 5 6 7 8 9 10 11 12 13	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this. Do we want to substitute this for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing. I would like to submit a final brief
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this. Do we want to substitute this for the prior one	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing. I would like to submit a final brief instead of a closing argument, a brief, and just set
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this. Do we want to substitute this for the prior one CHAIRPERSON STATHAM: Which said 2016.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing. I would like to submit a final brief instead of a closing argument, a brief, and just set forth what I believe the evidence is and our
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this. Do we want to substitute this for the prior one CHAIRPERSON STATHAM: Which said 2016. MS. GALANTE: Which said 2016.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing. I would like to submit a final brief instead of a closing argument, a brief, and just set forth what I believe the evidence is and our support, and of course Gordon would set forth what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this. Do we want to substitute this for the prior one CHAIRPERSON STATHAM: Which said 2016. MS. GALANTE: Which said 2016. MR. GREGORY: So what exhibit is it?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing. I would like to submit a final brief instead of a closing argument, a brief, and just set forth what I believe the evidence is and our support, and of course Gordon would set forth what he thinks it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this. Do we want to substitute this for the prior one CHAIRPERSON STATHAM: Which said 2016. MS. GALANTE: Which said 2016. MR. GREGORY: So what exhibit is it? CHAIRPERSON STATHAM: And I think the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing. I would like to submit a final brief instead of a closing argument, a brief, and just set forth what I believe the evidence is and our support, and of course Gordon would set forth what he thinks it CHAIRPERSON STATHAM: Mr. Gregory, I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	CHAIRPERSON STATHAM: But you do have a couple of things. Onego ahead. MS. GALANTE: Just housekeeping kind of things. CHAIRPERSON STATHAM: Go ahead. You had one exhibit that was in 2016 you wanted to MS. GALANTE: The School of Medicine Factors. CHAIRPERSON STATHAM: Replace that with 2015. We talked about that yesterday. MS. GALANTE: And so the questionso this is the 2014 one. So they don't necessarily get updated every year. CHAIRPERSON STATHAM: Okay. MS. GALANTE: So this was the 2014 one, for 2014/'15, and the question is, do we want to substitute this? Gordon, I would certainly allow you to weigh in on this. Do we want to substitute this for the prior one CHAIRPERSON STATHAM: Which said 2016. MS. GALANTE: Which said 2016. MR. GREGORY: So what exhibit is it?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	CHAIRPERSON STATHAM: Sorry. Administration's Exhibit No. what? REPORTER: Employer 19. (At 4:18 p.m., Employer's Exhibit 19 marked and received) CHAIRPERSON STATHAM: And you got us the Hornberger award. MS. GALANTE: That had already been admitted. CHAIRPERSON STATHAM: That is already in. MR. GREGORY: And what number is that? 18? MS. GALANTE: Hornberger was the 18. CHAIRPERSON STATHAM: This is 19, the tenure Factors. MS. GALANTE: So I guess there are a couple of other things to discuss, and that is briefing, final briefing. I would like to submit a final brief instead of a closing argument, a brief, and just set forth what I believe the evidence is and our support, and of course Gordon would set forth what he thinks it

	Page 479		Page 481
1	MR. GREGORY: Yeah, indeed. I would	1	MS. GALANTE: And send to each of the
2	rather we had oral summation. I think the record is	2	panel. Okay.
3	complete, but she certainly has that prerogative.	3	CHAIRPERSON STATHAM: Since I understand
4	CHAIRPERSON STATHAM: Okay. Whenyou are	4	from prior conversations that in this Committee I
5	not going to be able to do that post-hearing brief	5	don't get a vote.
6	until you get the	6	MS. GALANTE: Correct.
7	MS. GALANTE: Transcript.	7	MR. GREGORY: Correct.
8	CHAIRPERSON STATHAM: The transcript.	8	CHAIRPERSON STATHAM: Is everybody correct
9	Right? When is the transcript going to be ready?	9	on that?
10	REPORTER: Two weeks.	10	MS. GALANTE: Yes.
11	MS. GALANTE: Two weeks. So let's look at	11	CHAIRPERSON STATHAM: That's fine.
12	our calendars.	12	MS. GALANTE: The only other thing I can
13	CHAIRPERSON STATHAM: I would say briefs	13	think of is typically we would submit our brief in
14	due 30 days after you receive the transcript?	14	pdf form. The question is, would the Panel also
15	MS. GALANTE: That's fine with me.	15	want a Word document so that they can easily take
16	CHAIRPERSON STATHAM: Is that sufficient	16	portions of either brief if they want to use it?
17	time? That would be what date?	17	I don't know how you feel about that,
18	MR. GREGORY: Well, Tammy can let us know,	18	Gordon.
19	I guess, when she gets a chance.	19	SHERRY: We have done that, yeah. Put it
20	REPORTER: Well, 30 days from now would be	20	in a Word document.
21	around April 14TH, 15TH.	21	CHAIRPERSON STATHAM: Everybody wants it.
22	MS. GALANTE: No. He said 30 days from	22	MS. GALANTE: So each person would get the
23	when we receive the transcript.	23	pdf, which obviously verifies this is my final brief
24	REPORTER: Well, if you get the transcript	24	and nobody can change it, and then a Word copy of it
25	around April 14TH, 15TH, then it will be around May	25	so that if they want to take itbecause you guys
			Page 482
_			-
1	14TH, 15TH.	1	have to do a written report.
2	CHAIRPERSON STATHAM: Well, so briefs	2	CHAIRPERSON STATHAM: Okay.
3	would be due around, let's say May 15TH for the sake	3	MS. GALANTE: And there is no deadline
4	of	4	under the statute. It just says as expeditiously as
5	MS. GALANTE: That's a Monday, so that	5	possible.
6	would work.	6	CHAIRPERSON STATHAM: Okay. Well, after
7	MR. GREGORY: Okay. May 15TH.	7	we get
8	CHAIRPERSON STATHAM: May 15TH, briefs	8	MS. GALANTE: So that is subject to
9	due.	9	interpretation.
10	MR. GREGORY: How do we serve and	10	CHAIRPERSON STATHAM: After we get the
11	exchange?	11	briefs and we have read them, I will contact the
12	CHAIRPERSON STATHAM: Why don't you	12	Committee and we'll meet and discuss this report.
13	E-mail them both to Sherry's E-mail?	13	MS. GALANTE: Well, thank you very much.
14	MS. GALANTE: Can you give us that,	14	I appreciate everyone's attention. I know this is
15	Sherry?	15	difficult.
16	SHERRY: It's Sherry.Sangster@gmail.com.	16	CHAIRPERSON STATHAM: Thank you very much.
16	MC CALANTE, And so we would buck out the	17	I would like to meet with
17	MS. GALANTE: And so we would just submit		MC CALANTE Was M. I.
17 18	it electronically to her, and she will distribute it	18	MS. GALANTE: Yes. You keep your exhibit
17 18 19	it electronically to her, and she will distribute it to the Committee?	18 19	books.
17 18 19 20	it electronically to her, and she will distribute it to the Committee? CHAIRPERSON STATHAM: Well, submit them to	18 19 20	books. CHAIRPERSON STATHAM: And I would like to
17 18 19 20 21	it electronically to her, and she will distribute it to the Committee? CHAIRPERSON STATHAM: Well, submit them to her, and have you got all the Panel's E-mail	18 19 20 21	books. CHAIRPERSON STATHAM: And I would like to meet with my Committee briefly, five or ten minutes.
17 18 19 20 21 22	it electronically to her, and she will distribute it to the Committee? CHAIRPERSON STATHAM: Well, submit them to her, and have you got all the Panel's E-mail addresses?	18 19 20 21 22	books. CHAIRPERSON STATHAM: And I would like to meet with my Committee briefly, five or ten minutes. MS. GALANTE: Sure. We can leave.
17 18 19 20 21 22 23	it electronically to her, and she will distribute it to the Committee? CHAIRPERSON STATHAM: Well, submit them to her, and have you got all the Panel's E-mail addresses? MS. GALANTE: We do.	18 19 20 21 22 23	books. CHAIRPERSON STATHAM: And I would like to meet with my Committee briefly, five or ten minutes.
17 18 19 20 21 22	it electronically to her, and she will distribute it to the Committee? CHAIRPERSON STATHAM: Well, submit them to her, and have you got all the Panel's E-mail addresses?	18 19 20 21 22	books. CHAIRPERSON STATHAM: And I would like to meet with my Committee briefly, five or ten minutes. MS. GALANTE: Sure. We can leave.

4	Page 483
1	CERTIFICATE OF COURT REPORTER
2	
3	
4	I certify that this transcript,
5	consisting of 245 pages, is a complete, true, and
6	correct transcript of the proceedings and testimony
7	taken in this case on Thursday, March 30, 2017.
8	
9	4/11/17 Jamera a. O'Coreor
10	
11	Date TAMARA A. O'CONNOR
12	CSMR 2656, CER 2656
13	2385 Jakewood Drive
14	
14	pz West Bloomfield, Michigan 48324

			<u> </u>	
A	262:8,11 263:24	ACLU 466:4	369:6,8,10	369:24 371:9
a 345:14 448:14	268:23 273:19	468:17	addresses 480:22	425:8
awell 392:2	281:18 320:2	acquired 320:23	adequacy 298:8	admit 303:7 318:19
A)my 293:11	330:18 333:11,14	acronym 306:23	adequate 271:23	328:25 368:14
a.m 239:13 243:2,4	333:16 334:4,8	across-the- 248:14	283:11 284:22,24	373:8 382:19
291:18,21,22	336:16 347:19,20	348:21	285:3,12,16 286:5	384:14 416:19
292:9 308:15	362:12,13 365:24	across-the-board	286:9,12 287:23	449:14
314:3 319:8	376:18 444:14	248:8	298:8 333:10	admitmove 425:2
328:18 329:24	academics 337:11	Act 280:7	375:11 450:4	admitoh 425:2
A6 257:18,19,25	376:24	action 264:20 265:2	adjust 395:24	admitted 309:19,20
AAUP 334:6	accent 384:25	273:21 291:4	administering	309:21 319:5,6
340:11,18,23	accept 290:3	341:24 342:17	266:17	382:21 403:7
AAUP-AFT 339:13	accepted 406:2	367:19 372:23	administration	412:3 414:9 425:3
339:20	411:3 467:3	374:24	240:6 251:13	425:5,20 469:2
abandon 356:9	access 326:25	action 378:10	252:11 262:15	478:9
ability 466:9,11	470:24 472:16	actions 332:16	281:10,17 289:24	admitting 412:22
able 393:2 398:11	473:12	350:20 377:25	291:25 294:21	413:1
430:1 435:18	accomplishment	active 342:13 432:3	329:14 333:20	admonished 326:12
457:24 459:4	274:22	activities 252:5	344:5 349:6,8	345:13
467:4 479:5	accomplishments	296:12,20 439:18	350:17 351:11	adopted 290:20
abnormalities	275:4	activity 324:24	352:14,15 360:3	adopting 290:24
404:7,9,17 428:2	account 325:23	381:22 424:24	362:1,22 364:24	advance 267:3
about 370:6	accreditation	426:18 437:1	368:6,24 374:11	advantage 282:10
aboutdo 297:11	251:23 252:2	449:7,8 450:9	381:18 382:7,11	368:9
aboutyou 453:8	accreditor 252:4	465:7	469:16	advent 358:6
above- 239:9	accurate 252:3	actual 331:23	administration's	advice 260:14
absence 428:5	258:19 399:5	378:16	283:14 308:14	267:7 268:9
absent 324:12	423:8	actuallythat	375:17 477:16	advise 243:18
absolutely 248:23	accusations 318:20	396:23	478:2	advised 349:14,14
262:6 285:21,22	accusations	acute 399:22	administrative	360:7
364:25 377:14	308:18	400:18	295:12 323:1	advised 360:7
378:4 390:24	accuse 374:8	adamant 252:25	334:13 346:8	advisedI 360:7
395:6 397:8 426:1	acid 399:7 404:1,13	Adamany 362:22	376:14	advisement 330:25
426:2 434:24	406:17 438:14	add 278:12 477:9	administrator	338:15
436:3 462:16	458:21	added 289:4	361:15 376:20	advisor 385:21
absorb 393:6	acids 400:10	addition 282:2	431:4 444:13	456:23
absorbed 392:15	403:21 404:4,8,17	294:19 295:12	Administrator	Affairs 259:20
abstracts 401:20	459:2	374:12 383:8	257:20	343:13
absurd 409:25	Ackerman 427:12	393:2	administrators	afield 472:24
433:4,5	acknowledged	additional 319:14	345:10 353:9,12	afraid 352:20
academia 334:5	334:25	323:7	357:21,24 359:10	AFT 340:23,25
431:20	acknowledges	address 331:6	376:23 444:18,21	341:2
academic 251:15	332:12	336:11 350:17	444:22 445:1	after-acquired
251:19 260:5,22	acknowledgesso	369:8 415:2	admire 358:12	298:6 301:18
260:25 261:10,20	332:11	addressed 270:4	admission 320:5	318:12
, , , , , , , , , , , , , , , , , , ,			l	

again 372:14	allows 291:10	announced 359:20	appearing 240:9,14	278:19 332:16
age 436:9	ALS 397:10 398:18	359:20	437:5	377:25
ago 285:23 303:11	398:19,24 399:9	annual 247:8,17	appears 263:11	approving 277:18
303:14 317:7,8,9	399:11 400:10	282:1 324:13	286:11 392:25	approximately
383:17 384:5	401:2 403:14,15	345:22 348:11,20	appended 383:10	326:4
439:22 440:23	403:20,22,24	annually 263:1	appendix 242:21	April 295:15 320:3
470:25	404:3,8,16,16,17	276:25 304:1,1	433:19 434:11	479:21,25
agree 248:21,23	406:14,22 408:4	327:25	applicants 293:24	arb 371:10
260:16 282:18	413:20,24 429:19	Ansari 440:20	application 242:13	arbitration 242:5
286:2 372:19	430:12 436:22	460:13	293:1 406:14	353:11 368:16
373:11 378:7,15	438:14 458:22	answer 249:14	407:25 408:10,20	371:18
447:10 449:11	459:3,22 474:25	279:13 284:5	408:21 411:18	arbitrator 329:1
450:7,22	alsothe 270:21	285:9,10 287:24	412:5,10,18	369:2
agreed 336:22	altered 259:14	288:17 298:9	437:15 458:10	Arbitrator's 320:4
338:14 348:25	305:20	330:9,14 338:21	459:7 460:7	329:13
378:14	Alzheimer's 430:13	344:13 365:10	applications 383:19	arbitrators 369:11
agreement 332:15	amazed 451:9	366:19 414:19	406:8,13 437:10	Arbor 471:15
357:16 362:1	amazing 409:6	419:20,24,25	437:22,23	areor 456:18
368:19,19 377:24	amendment 360:15	433:6 444:20	applied 258:16	arethe 306:23
agrees 336:21	360:18	453:12 455:5	apply 288:14	arethere 285:24
ahead 268:4 272:9	amino 399:7	469:21 477:16	289:21 293:24	404:24
292:7 406:10	400:10 403:21,25	answer 344:22	446:9	arewe 338:13
476:2,5	404:4,8,13,17	answered 267:21	appointed 294:15	348:8
Akins 426:20	406:17 438:14	327:4 366:21	295:3 353:2	area 271:5 275:8
Akio 392:21 394:19	458:21 459:2	answering 448:16	365:22 391:10,13	281:20 287:5
Albert 385:18	ammonia 399:25	anticipated 277:17	391:18	325:7,8 393:21
387:11,14	400:1	antithetical 471:7	appointing 343:11	397:8,10,10,11
Alex 388:14 389:13	amongbut 430:17	anybody 390:7	appointment	413:23 459:25
all 443:8	amorphous 288:13	420:14 424:8	275:21 292:24	areas 264:4 397:6
allit 373:5	amount 276:22	431:19 440:11	293:18 343:10	398:3 401:19
allegations 431:24	325:25 359:16	464:23 471:9	391:12 468:10	argue 382:19
alleged 244:6	387:11 429:5	anyway 399:18	appointments	384:14 390:22
255:23 258:14	453:3	406:2,19 442:14	468:21	419:4 425:19
341:5,25 369:18	analysis 404:13	apologize 457:19	appreciate 361:6	Arguendo 279:24
alleges 288:25	428:2	app 412:25	482:14	argument 352:9
alleging 471:9	analyzer 472:6	apparatus 448:1	apprised 276:23	454:11 476:25
allocate 359:5,6	ancestry 394:21	apparently 288:3	approach 375:19	477:11 478:20
allocation 358:20	and 365:7 369:20	416:24 425:6	375:23	argumentative
allow 268:4,20	402:21 458:19	429:12	appropriate 261:3	454:11
272:9 278:11,16	472:24 477:7	appear 246:7	275:5,7 330:20	arguments 368:15
289:7 300:7 308:6	andbut 462:21	357:16,18,19	382:1 462:9	369:4,6 371:14
476:17	andwell 346:15	438:21,25	appropriately	382:20
allowed 302:13	andyou 457:9	APPEARANCES	351:11	Army 459:18
386:22 391:11	Angle 398:16	240:1	approval 322:20	arriving 434:1
421:10 432:12	Ann 471:14	appeared 318:16	approved 277:16	arrivingwell
	l	1	1	l

	Ī	I	I	I
433:25	324:1	attempting 350:17	awhile 393:17	bargaining 332:18
arrogant 459:13	assigning 324:17	attend 247:8	440:23	357:16 360:16
article 242:11	assignment 251:16	attended 255:7	awkward 446:24	363:7,8 378:2
247:20 276:6	251:19 260:22,25	266:10 440:22	axe 375:19,23	barrier 397:24,25
328:20 329:2,9	261:10 263:24	attention 258:1		Barry 388:10,11
332:13 348:10	330:19 427:17	338:19 372:7	B	389:5,8,14,24
350:6,15,20 351:1	444:14	414:14 417:21	B 241:14 380:17	390:5,7,10,12
351:8 360:15	assignment	424:22 442:11	410:8,9 464:3	391:4,5 394:10
368:20 369:1,15	333:11	472:1,2 482:14	babying 472:1	426:21
370:12,22,25	assignments 260:6	attention 477:21	back 245:17 251:4	base 408:7
371:14 372:7	261:20 262:3,8,11	attorney 250:10	261:19 267:8	based 248:10 261:6
377:22 402:2,8,16	263:4 268:23	474:8	274:17 280:16	268:9 276:15
423:17 449:1	273:20 274:14	attorney's 284:22	291:22 302:19	310:15 313:1
articles 279:10	281:18 333:14	audit 349:25	326:20 329:25	319:18 321:2,6
456:13,15	334:4,18 428:4	364:22	330:1 331:8 338:8	345:21 350:12
Arts 363:21	assigns 324:7	auditor 342:8	338:9 342:1	355:9 358:15
asked 244:7 248:18	assistance 266:22	auditors 350:2	355:13,20 380:7,8	464:15
261:15 267:20	assistant 243:17	August 327:6	388:21,25 400:4	basedno 261:6
269:18 282:21	328:6 334:13	Aurelian 289:18	407:13,18 408:4,5	basic 295:10
283:15 284:21	343:14 389:8	author 400:9,9,11	409:17 410:4	303:16 335:6
289:16 291:3,7	assisted 249:19	418:17,19 438:2,5	438:13 439:1	385:15 386:22
294:20 300:12	Associate 240:3	438:6,13,15,16	454:15 458:15	409:20 437:2
314:19 325:24	292:16,19,22	439:1,2,15	464:20 466:13,18	basically 263:12
338:10 345:16,16	294:22 295:23	authorship 438:23	466:25 467:12	304:7 313:12
390:5 427:10,13	323:5 328:6	438:24	473:22 474:2	332:2 341:11,12
427:16 434:6	424:13 439:25	available 246:4,18	background 384:21	345:21 352:25
asking 256:23	association 408:9	259:18 261:23	394:12	376:11,20 385:15
260:20,23 261:17	associations 441:7	270:22 280:11	backup 417:25	386:22 395:17
272:19 279:21	assume 261:5	303:3 306:3 324:9	bacteriorhodopsin	400:6 406:20
285:3 288:2,11	317:10 452:12	375:16	392:3,11 394:17	424:3 426:5
314:13 316:14	assume 359:8	available 347:10	394:18 395:13	460:15,15
325:21 326:2	assuming 300:11	average 312:2	420:19 429:17	basis 283:21 324:13
355:16 386:16	assumption 355:10	358:21 359:22	431:9 435:12	335:11 336:17
390:13 402:18	453:9	398:21	bacterium 392:14	345:3 392:17
448:7,8 454:6	asterisks 439:7	averages 312:2	bad 312:17 393:24	393:20 395:8
461:12	asymptomatic	avoid 428:7	405:6 409:15	412:25
aspect 377:9	459:3	award 371:18	429:9 431:18	beso 325:22
asserted 298:9	Athar 440:20,22	478:7	457:16 458:25	bethis 351:21
429:13	441:5,9,17 460:10	aware 255:17 271:1	Baker 251:1	beam 395:24
assertion 402:4	460:13,15 475:9	280:5 283:23	balance 324:20	bear 259:2
436:1	ATPAs 392:9	295:24 297:16	balanced 324:12	bearing 422:10
asserts 354:4	attachment 414:18	305:14 319:10	balancing 324:25	Beckoff's 388:16
356:13 437:9	attack 352:23	451:5,7,8 468:7	Bame 405:16 457:4	becoming 452:3
assessment 271:12	attempt 343:3	awareness 296:2	471:4	beenwell 404:4
assigned 323:15,16	364:16	awful 470:16	Bame 457:10	Beg 309:22
	301.10			208007.22

began 256:18 342:1	399:10 400:4,6,11	394:11	bound 456:4,4	343:14,15 421:22
beginning 257:10	400:12 407:3	biotechnology	box 310:22 311:11	477:20
340:7 363:22	418:5,5 420:17,21	313:16	brain 397:20,22,24	Brown 388:3,6,10
388:11	420:25 421:15	biowarfare 393:4	398:2,4,12,13	Bruce 239:7 380:23
behalf 240:9,14	433:1 437:2,5	bit 282:21 324:21	400:2 414:1	Brusilow 389:18
belie 411:4	438:8,9,13,14,15	328:22 333:1	430:10,10	396:10 433:1
believe 243:11	438:16 445:25	334:2 433:21	branch 405:10	463:6,21
246:15 250:8,9,17	457:17 458:4,5	446:25 473:18	branches 404:23	Brusilow's 390:13
251:1,2 259:25	463:6	bite 447:1	brand 475:7	Brusilow 270:6
269:6 273:24	Bill's 391:3 400:3	bizarre 446:17	Brandeis 385:1	budget 335:23
277:25 290:12	457:4 475:1	blinded 432:16	break 291:20	357:21 360:6
303:25 313:22	Billmostly 400:2	block 375:24	329:18 380:4	460:19
314:8,20 315:3,13	Billwe 397:15	blood 295:10,11,16	400:23 473:16,20	build 436:24
319:13,22 322:9	binds 398:8	399:8 403:19,22	breaks 326:22	Building 240:6
349:3 365:4,16	bio 384:19	404:12 460:3	brief 292:21 385:20	322:6 470:19
366:3,6,11,21,22	bio-energetics	blood 459:15	417:8,8 425:19	bulbs 405:5
367:15,22,24,25	469:24	blood/brain 397:25	439:22 478:19,20	burden 333:1
375:25 377:9	biochemistry 303:3	Bloomfield 483:14	479:5 481:13,16	bureaucrat 470:9
409:8,9,10 422:8	303:5,13,19 304:4	BMB 241:21 242:3	481:23	bureaucrats 413:8
424:11 447:18	304:12,14,15,23	303:5,23,25	briefing 478:18,18	burn 420:3
449:17,19,21	306:13 315:9,10	304:10 309:7	briefly 336:11	business 308:8,25
478:21,25	315:18 319:13	313:8,19 314:18	338:2 384:20	318:23
believed 376:3	323:12 387:22	319:14	482:21	but 369:11 461:18
benefits 455:9	391:7 461:23	board 248:15	briefs 382:21	by 383:23
Beppler 347:13	biochemists 389:15	260:17 293:15	479:13 480:2,8	byno 271:8
Berkeley 387:1	biodetection 393:3	329:4,10 331:24	482:11	by 110 2 / 1.0
388:7,8	biographical 242:9	332:17 333:6	bring 245:20	C
Bernie 384:24	383:4,7,8,20	336:3 337:18,22	273:10 343:3	c 360:16 372:9
436:8	413:5 460:19	342:3,7 348:22	349:1 369:16	464:3
best 283:25 290:18	biological 430:7	349:10 361:19	374:8	C.V 247:16 251:20
357:5 360:1	475:9	369:16 374:6,10	bringing 348:2	252:1 261:22
392:23 404:21	biologist 385:11	378:1 447:21,21	421:13	262:13,14 264:17
426:8 446:19	440:21	450:2	brings 368:12	381:7 382:22
better 269:24	biologists 388:13	Board's 342:15	broad 281:19 333:7	383:8 384:19
285:11 325:10	389:2,4,19 405:11	Bob 426:20	356:4	393:24 437:18,18
417:19 423:4,4	426:21 428:13,14	body 286:3	broader 352:22	437:20 456:16,16
424:7 470:7	471:8	boilerplate 440:13	broadermuch	Cadillac 240:12
beyond 332:23	biology 295:10	boils 376:11	352:22	cake 370:16
421:25 428:17	303:12,19 315:8	book 244:16 386:20	broadly 334:23	calculated 417:25
Bharati 391:9	315:18 385:10,14	books 482:19	Brook 385:5	calendars 479:12
big 263:15 440:15	386:21 389:12	bootstrapping	Brooklyn 384:23	California 387:1
471:16	392:5,18 426:24	298:11 301:14	385:13,17 435:1	392:21
bigger 311:14	427:7,8 444:8	318:18	Brooks 240:12	call 291:24 298:12
Bill 389:18 396:10	Biomedical 303:8	bought 400:13	brought 245:23	354:23 355:20
396:14 397:2	biophysics 392:22	421:1	250:12 323:18	366:8 380:4,9,11
3,0.11.3,7.2	~10pii, 5105 572.22		200.12 323.10	,

206 15 445 4	222 0 225 16	202 0 450 15	220.24.221.2	400 12 412 2
386:15 445:4	333:9 335:16	392:8 450:15	330:24 331:3	408:13 412:2
470:20	336:6,8 338:16	476:17 479:3	335:18 337:25	430:7 454:4,6
called 254:4 257:21	352:9,21 354:11	certainty 297:19	338:6,9,25 342:24	469:25 474:24
266:9,11 288:3	355:15 356:1,5,12	CERTIFICATE	344:11,16,23	481:24
295:11 296:6	363:5,14 372:25	483:1	345:2 346:14,25	changed 259:20,21
303:10 386:20	373:10,13,24	certified 293:15	347:3 354:15	264:16 305:20
388:7 395:3	375:3,17 400:18	certify 483:4	356:6 364:9	352:11,13 401:14
405:12 412:16	416:15 450:4	chair 249:16,17,17	365:14 366:17,23	402:5 403:10
453:20	465:11,18 468:23	263:2,3,4,7 267:1	370:3 371:8,16,20	404:14,15 420:18
calling 396:16	474:16 483:7	269:18,20 270:22	372:2 379:20,22	428:15 429:7
calls 292:1 350:4	cases 288:8 348:19	318:11 324:15	379:24 380:3,8,13	457:14
camera 393:13,13	353:6 363:14	339:25 345:17	381:20 382:4,17	changedyou
campus 253:1	366:5 374:20,24	346:4 347:13	384:13 402:14	457:13
262:7,9 353:7	375:1 438:8,17	391:5,21 392:22	403:6 411:8 412:3	changes 260:2
363:20 387:3	Catalan 430:18	394:2,8,20 439:17	412:24 413:3,9	277:17 283:23
440:21 472:12	444:1	439:20,21 443:10	414:7,9,20,24	284:7,13 343:9
475:10	cause 298:8 333:10	445:8,9,10	415:6,9 416:7,19	360:5 399:8
campuses 386:24	400:20 449:20	chair's 324:17,19	416:25 417:6,9,18	403:25 404:3
can't 466:19	450:5	chaired 394:23	419:20,24 425:1,4	406:3,4,6,17
can'tagain 463:14	causes 397:22	435:1,2,3,5,5	425:7,10,18	408:7,8,8,22
can'tI 356:1	403:23 449:20	chairman 297:1	434:11,15 446:22	458:22,23,25
436:3	cell 295:10,10	298:5 330:5	454:12 473:2,6,8	changing 408:3
can'tthere 411:10	303:12 315:8,18	338:18 388:3	473:15,19,25	440:12
can 367:7	central 264:4	CHAIRPERSON	474:3,9 475:17,19	characterization
canit's 399:1	294:21	239:10 268:3	475:22 476:1,5,9	272:5 273:12
capacity 323:5	century 393:22,22	272:8 277:20,23	476:14,21,24	341:14 390:16
328:5	CER 240:15 483:12	278:10,15 280:20	477:10,15,23	419:18
Capparano 443:14	certain 276:21,21	281:13 284:4,17	478:1,6,10,14,24	characterize
caption 275:18	318:16 387:8	289:6 291:19,23	479:4,8,13,16	334:21
card 473:12	393:7 398:3 405:8	292:2,6 296:17,22	480:2,8,12,20,24	characterizing
care 431:14,15	405:23 416:16	296:24 297:11	481:3,8,11,21	273:12
career 253:19	432:14 453:3	298:18,21 300:2,7	482:2,6,10,16,20	charge 247:4 260:4
256:16,17 269:25	455:9 457:23	300:17 301:3,15	chairs 267:3,8,8	260:9,16 265:2
282:9,9,13 390:12	459:2 465:14	301:23 302:4,14	272:14 277:5	330:18 333:3
434:20 471:22	474:23	304:24 305:2	324:22,23,24	358:13 401:12
474:12,13,20,22	certain 472:2	308:6,17 309:17	336:13 359:10,14	424:23 431:24
475:11	certainly 248:17	309:21 310:8,13	445:12	charged 253:20
careful 336:24	255:9 256:20	310:21 312:10,13	challenge 359:15	258:14 263:12
337:12 366:4	257:4,7 258:23	312:16 313:17	chance 309:4 402:7	428:5
cares 439:11	263:3,24 277:7	316:3,16,22,25	479:19	charges 242:17
carries 447:11	287:8 289:16	317:2 318:19	change 264:7,11	245:21 263:11
case 255:1 267:22	308:9 318:24	319:2,5 320:25	269:9 322:21	272:2 273:10
282:19 297:3	326:19 345:8	321:15,18,21	323:11 378:15	296:16 299:17
303:22 329:14	356:22 357:7	323:22 328:12,16	393:6 400:1	300:11 307:19
330:16 332:1	359:1,15 362:16	329:16,22 330:1	403:21 404:3	330:7,9 338:22

	1	1	1	I
364:3 381:25	circulated 388:21	355:1 358:3	collective 357:16	239:14 243:18,20
382:2 401:7	circumstances	clear-cut 332:7	360:16	245:18,23 246:4,5
414:15 416:9	333:8 427:15	clearly 248:9	college 261:7	247:24 249:7,10
417:8 445:8	472:10	320:23 325:7	363:21 385:13,17	249:19 250:5,13
charging 413:15	CIs 405:22,23	352:10 448:10	385:18 387:12	258:18,24 259:15
Charles 241:11	citation 287:14	client 329:21	color 393:6 430:19	259:24 264:23,24
339:4,10	422:11,20 424:19	clinic 399:11,13	Colorado 343:8	266:16 269:17
Charlie 455:1	425:24	403:14,16 406:15	colorless 430:17,20	271:2 276:8 278:8
chart 299:23	citations 242:19	407:5 436:22	430:21	284:12 289:23
417:23,25 418:2	282:23,24 283:9	458:18 459:5,9	combination	290:2,20,22 291:3
420:11 461:3	284:21 285:24	clinical 294:4 334:2	361:18	291:7,13 292:13
463:25 464:4,6,20	286:14,16,16,22	399:10 406:25	combined 315:19	300:4 326:9 330:5
chart 464:18	287:10 419:8	407:2 436:23,25	391:16,17	330:12 332:2,4
chartyou 462:13	420:2,8 422:9,14	438:4 439:5 459:7	come 245:1 247:22	336:9 337:21
chat 256:9	422:18 423:3	clinicians 358:10	254:10 256:9	338:1,10,18
cheap 403:18	426:6	clinics 459:22	274:2 280:3	340:24 360:24
check 415:7	citationsand	close 421:4	326:14,20 353:21	361:1,25 370:5
checkwell 306:20	422:22	closed 399:13	360:4 361:12	371:17 376:16,19
checked 297:12,16	citationsso 286:17	403:14	386:16 391:25	376:21 379:10,14
chemicals 400:19	cite 287:13	closedI 442:15	392:7,9 429:15,21	381:1 382:2
401:17	cited 285:18 286:24	closing 382:20	431:11 439:12	383:11 384:20
chemistry 388:2	287:22 343:21	478:20	442:4,23 452:21	402:7 407:5
427:9 444:9	423:15 464:7	CNS 264:4	466:13 471:6	415:25 417:22
chemists 389:3	cites 287:5 337:5	Co-Director 295:17	472:9,12 473:4	422:6 424:10
426:22 428:12,13	citing 423:1	coagulation 295:16	comeI 361:19	429:3,8,25 436:7
Chief 250:18	City 385:11,12	cockroaches	comes 287:20 309:2	437:6 442:16
China 435:7,8	claim 424:25	471:16	377:18 392:14	456:7,14 465:20
Chinese 435:13,14	426:17 430:5,6	code 472:17	407:13 436:7	474:18,20 480:19
435:15	437:25 472:22	Cold 386:16,18	441:18	481:4 482:12,21
Chlamydomonas	claimed 258:3	434:22	comfortable 443:2	committees 249:13
394:13	390:17	coli 396:11,13	coming 399:21	299:8 340:4 349:3
choice 316:11	claiming 331:19	420:18 421:6	401:4	361:3
426:15	431:1	427:21	commencing	Committeesthe
choose 386:23	claims 390:12	collaborate 389:9	239:13	243:20
421:11	416:16	collaborated 438:8	comment 410:2,4	common 315:17
chopping 375:24	clarify 310:15	collaboration	410:12 422:12	385:10 394:21
chose 267:12	class 310:9,11	392:23 441:9,10	463:24	444:12
394:15	409:22	collapsed 303:14	comments 268:10	commonly 357:23
chosen 443:5	classes 324:18	colleague 295:8	312:18 316:7	467:3
chromosomal	classmate 436:8	396:11 438:19	402:20 440:13	communicated
441:1	clear 268:25 269:16	463:6	commitment	247:2 262:25
chromosome 441:7	269:21 286:7,8	colleagues 254:8,10	365:24	company 445:15
chromosomes	310:21 327:3	269:19 285:18	committed 341:3	comparative
408:9,13 441:2	328:24 329:8	392:2	465:22	443:13
Churchill's 351:19	330:15 333:21	collecting 342:5	committee 239:11	compare 284:12
	l	l	l	l

418:10	completion 244:21	Condon 239:16	318:1,4 336:13	454:25 456:4
compared 269:5	282:3	conduct 253:3,7,8	393:18	466:7
305:21,22 306:16	complex 360:1	253:11,24 295:19	contact 256:8 262:1	contracts 455:8
311:16,25 459:3	compliance 350:3	Conference 340:10	265:3 304:22,22	contradictory
compares 383:9	complicated 342:1	340:12	305:3,8 306:17	418:20
compares 383.9	complicated 342.1 comply 252:12	confident 298:6	314:6,8,17,20,21	contribute 248:6
462:5 464:8	258:8,10 259:11	355:11		contributed 249:23
			320:12,19,21	
comparison 461:1	262:19 281:24	confirm 441:4	321:2,14,15 326:5	contribution
compensation	290:10,14	confronted 288:10	445:16 482:11	249:25
358:16	component 315:10	conjunction 330:9	contain 302:10	control 428:4
competence 334:24	compose 417:23	consequence	468:20	controversial
334:24 335:6	composition 388:25	273:20	contained 300:16	425:15
competent 262:17	404:1	consequences	contains 245:7	conversation
335:5,6	comprehensible	390:10 430:11	contemporary	327:11 342:4
competently 260:6	470:2	consider 251:15	326:7	439:22
260:22,25 261:11	compute 285:16	252:10 281:4,6	content 307:2	conversations
262:12 263:5,25	computer 441:25	332:4 336:9	431:14,22	327:5 481:4
330:19 333:12	451:12	338:11 374:4,5	Content-wise	convinced 337:2
335:9 444:15	computing 393:4	455:7	305:18	convulsions 397:22
competitive 275:10	concept 288:10	consideryou're	CONTENTS 241:1	cooperate 248:1
283:8 455:14	290:20,24 351:24	281:1	context 265:11	coordinate 293:2
compilation 301:8	357:20 365:5	consideration	Continuation	coordinated 316:8
compiled 327:25	475:8	301:1 337:13	332:14	coordinator 324:6
433:20,21	concern 245:18	362:6 366:5	continue 257:3	324:14 326:21
complained 342:4	253:11 254:6	373:23 384:8	287:17 313:1	coordinators
complaints 263:8	280:9 289:18	considerations	387:19	315:23 328:8
328:2,7	342:15 347:17,18	335:23	continued 239:25	copies 244:15
complete 247:15	348:4,4 466:1	considered 281:7	240:1 242:1 275:9	314:10 371:24,25
260:21 278:4	concerned 273:23	283:10 301:11	283:7	413:18,19
294:2 330:18	349:11 374:6	306:8 318:15	continues 353:19	copy 275:24 277:13
333:11 392:25	375:18 392:4	320:24 330:8	continuing 344:22	283:17 284:2,11
413:4,18,19 438:3	397:11 447:6	382:11 416:5	421:25 449:22	349:25 414:20
439:16 460:18	concerns 265:3	461:10	contract 247:19	415:12,15 477:4
465:16 466:8,21	362:11	consist 247:15	248:18 249:5	481:24
469:20 479:3	conclude 288:2	consistent 264:1	259:14 261:2	Corinne 438:19
483:5	338:23 459:1	consistently 262:19	275:24 283:2	439:3
complete 460:17	concluded 482:23	consisting 483:5	332:10 335:12	Corinne's 439:2
completed 280:6	conclusion 270:17	consists 304:10	360:10 372:16	corner 310:4
307:16 310:6	336:7 464:16	374:17	377:7,10,12,17	corporation 471:1
completedI	concurs 290:3	constant 472:1,1,2	378:5,25 387:7,13	correct 244:4
392:19	condition 329:9	constituted 424:21	393:20 447:15	251:10 254:1
completely 389:14	387:18 453:6	constitutes 251:19	448:19,20,21,22	255:13 258:9
399:20 454:9	455:17	260:21	448:24 449:2	263:13 281:2
455:6 459:13	conditions 389:16	consulted 299:16	450:16,18 451:5	283:21,22 285:4
completing 467:1,8	396:22	299:19 317:23	452:24 453:18,23	305:25 309:8,9,16
l compressing 107.1,0	370.22	277.17 311.23	102.21 103.10,23	300.20 307.0,7,10
	-	-	-	-

				_
310:18,20 312:21	391:7 397:14	covered 325:12	crosses 409:20,24	410:6,7 420:21
312:23,24 313:8	404:12 435:1	covering 313:15	409:24	436:18,20,25
313:12 317:11	476:2 478:17	coveringall	crossing 399:16,19	446:13,14
318:10 320:18	course 255:4	302:18	crummy 431:20	date 245:10 411:10
321:16 322:19,22	260:19 265:18	covers 302:18	CSMR 240:15	479:17 483:11
327:7,9,12,15,23	273:21 295:15,19	309:6	483:12	dated 258:12
341:25 364:24	296:4 303:3,5,15	crack 400:24	culture 470:4 471:8	283:16 372:21
365:3 366:25	303:22 304:1,3,8	cracker 400:23	Cunningham	David 343:13 379:5
367:3,6 368:8,17	304:10,14,18,19	crap 429:23	465:23	Davis 440:5
369:5,13 372:11	305:11,21 306:2,7	crazy 397:17	current 257:6	day 361:14,14,15
372:17,18 373:3	306:11,14,15,17	create 256:1,3	266:5 278:14	399:10 407:3
374:18 377:22	308:20 310:7,24	289:24 290:10	285:1 294:17	409:22 421:7
378:13 379:1	310:25 311:3,15	created 255:19	339:20 375:3	471:24
405:19 431:8	311:22 313:3,7,12	289:23 290:22	381:7	days 421:6 479:14
450:16 451:25	313:18,21,24	324:5 327:23,24	currently 256:24	479:20,22
452:1,5,8,11	314:7,21,23 315:1	creating 299:1	286:10 292:14,15	de 348:5
454:20 455:12	315:2,11,14,16,17	creative 449:7	293:16 315:15,25	de-tenured 346:1
456:9 461:5	315:20,21,22,25	credit 248:19	340:21 427:5	375:9
462:25 463:9,11	316:6,8,11,18	261:25 262:1	curriculum 242:7	dead 400:22 407:5
463:12,17 464:6	318:7 319:14,17	304:21 306:17	295:18 297:21,23	432:18
464:10 468:18	319:20,21 324:6	396:17	303:9,10,11,15	deadline 482:3
469:15,18 470:19	324:14 325:6	criminal 332:23	315:7 324:7	deal 282:7 350:18
481:6,7,8 483:6	326:21 328:8	CRISPR 427:22	325:12	351:1 360:5,10
corrected 344:20	339:16 341:18	criteria 267:10,17	cut 446:3,4	362:11 368:10
344:21 373:18	342:4 373:12	268:5 276:4,10	cutting 394:5	384:18 394:10
corrections 407:16	374:19 376:3	291:1	426:24	395:17,20 405:1
correctly 369:19,20	377:4 379:17	criticism 351:16	CVs 360:21	471:6
369:22 453:12	382:3 402:7	364:16	cycle 294:1 295:14	dealing 356:23
costs 358:20 359:1	420:10 426:20	criticize 369:11		dealt 351:8
couldI 373:7	427:3,7 431:12	criticized 368:7	$\frac{\mathbf{D}}{\mathbf{D}}$	Dean 243:17,18
Council 340:19	434:19 446:9	criticizing 368:6,9	D 464:3	244:3 245:20
counsel 240:3,4	469:23 473:7	375:14	damage 264:4,5	246:8 247:5
264:20 282:21	474:14 478:22	critics 442:25	Dan 339:19	249:19,20,22,23
283:15 288:25	courses 293:5,7	cross 347:1 416:21	dangerous 395:23	250:7,18,22,25
314:11 321:10	296:7,8 297:24	446:22	396:2,3 447:5,7	252:15,18,22
364:9 368:3	299:4 301:5	cross- 282:14	Daniel 241:7 292:1 292:8	255:6,8 256:8,15
402:14	302:21,25 303:6	366:15 473:23	dark 395:21 396:5	256:19,22 257:8
Counselin 370:4	306:25 315:6	cross-examination	data 244:22,24	258:24 259:5,9
Counselor 301:16	319:11 324:1,4	241:4,9,13,16	245:7 246:18,25	260:1,13,14 261:4
330:3	326:24 426:24	243:6 282:21	247:7 250:1	261:22 264:23
count 401:9 423:9,9	427:2,5,18 456:22 court 346:13 483:1	323:24 333:24	268:18,19,20	265:2,4,5,8,11,17
433:3 462:21 counted 374:23	covenant 453:21	364:11 368:3 447:8	270:8 291:9	266:10,19 267:12
counted 374:23	cover 333:8 412:15	cross-examine	405:15,18,18,19	267:16,21,25 268:8,9 269:5,22
countered 339.24 couple 334:23	460:20	308:10 346:18	407:15 408:5	269:24 270:15,21
Couple 334.23	400.40	300.10 340.10	107.10 100.5	209.24 270.13,21
	1	1	1	1

270:22 271:1,10	decade 268:13	363:12 382:1	387:23 388:1,12	despite 278:5
272:23 273:3,21	269:13,14 287:18	393:11	388:25 389:6,19	350:16 437:6
277:15 278:19	340:20 429:13	deficient 420:16	389:20,22,25	destroyed 398:5
280:1 285:25	decades 283:10	437:19	391:16 416:12	detail 301:6,9
290:1 292:16,19	285:23	define 448:7	418:10 420:14	452:10
292:22 294:25	decent 365:17	defined 260:16	423:20 424:5,14	details 362:3
295:23 297:7	decide 252:4	261:1 279:6	426:19 427:1	468:23
298:14,15,24	256:10 333:16	357:11	428:8,15 442:18	detective 444:4
299:19 300:15,18	378:18 430:3,3	defines 450:4	442:20 443:3,8,9	deteriorate 256:18
300:20 301:11,11	437:14 442:23	definite 406:5	443:12 444:6	determination
302:1 313:6	443:15,23 444:4	definitely 414:3	461:2,8,9,22,23	259:16 350:2
317:13,23 320:24	453:25	459:12	462:19 463:13	determine 264:21
322:16,18 323:2,5	decided 342:10	definition 260:20	464:9,17 475:10	268:6,8 293:7
327:5 336:12,21	362:8,9 388:11	260:20 279:12	department	432:14
337:1 342:2 343:7	389:5 396:11	defray 348:3	303:18	determined 268:8
343:10 354:2,24	403:19 413:16	Degal 400:19	departmentI	determining
355:13,20 356:13	414:3 426:22	degree 294:6,7	442:15	267:10
359:22 364:14,23	433:18 451:1	Delaney-Black	departmentso	Detroit 239:12
365:1,4,23 372:21	decides 260:24	241:3 243:3 281:1	320:9	240:7,13 243:1
373:19 374:1,22	352:6 432:16	298:25 301:12	departmentyour	459:25
375:25 376:4,12	decimated 389:14	302:7 307:24	461:8	develop 281:22
376:25 377:4,4	decision 242:5	317:21 318:2	departmental	developed 385:24
382:9,15 384:6,8	245:20 254:12	327:11 336:14	249:7 326:19	394:25
390:13 391:10,13	258:25 260:4,12	345:12,20 348:16	328:1	development
391:13,20 399:12	260:13,14 261:3	354:19 357:2	departments	278:23,25 372:10
414:16 416:10	267:14 282:16,18	376:15 377:3	247:12 293:2,7	386:3
418:11 419:2,13	316:1 328:21	379:7 419:16	303:17 323:6	devices 360:10
419:14 429:12	337:19 368:12,14	deletions 280:1	391:16 461:11	devoted 357:13
437:9 439:24	368:22,23,23	delivered 326:7	dependent 252:3	dial 396:6
445:15 461:10	369:3 371:10	democracy 351:19	depending 377:19	dictated 335:12
462:2,3,15 463:2	376:15 377:1	democratic 391:19	472:9	452:6
463:16 Decrete 255:20	382:7,14 384:12	denied 335:17	depends 324:21	didn'tI 373:4
Dean's 255:20	decisions 377:1,4	Denverhe 343:8	377:9 471:21,21	didn'tit 257:24
260:7 265:12	decline 325:6	deny 369:14 449:25	deposed 465:16	die 432:11,12
278:5 282:16,18 300:14 307:19	declined 439:19 441:22	department 247:24 249:10 293:11,11	Deputy 295:3	dies 432:10
		293:13,18 294:20	deriving 270:13 describe 279:19	Dieter 395:3,11
322:14,20 376:4 402:4 436:1	decrease 453:3,4 decreases 387:11	295:9 299:6	286:17 375:23	difference 258:20 284:23 288:11
437:25 445:17		300:16 302:8,9	413:13	289:16 406:22
Deanhe 328:6	deep 342:15 deeply 349:11	304:11 319:13	described 264:9	423:14
Deanin 328:6	375:18	320:10,12,17	304:7 403:11	differences 366:1
Deans 250:11,24	defend 377:11	323:12 324:2,3,5	describes 247:20	426:4,4
363:24 439:25	defending 377:13	324:21 339:14,25	describing 289:2	different 255:17
death 432:9,15,19	378:24 385:22	345:22 347:12,14	desire 266:21	270:16 285:7,13
debate 279:11	defense 347:12	362:23 387:20,22	desk 331:8	288:25 303:6
	defende 5 T / . 12	302.23 301.20,22	465H 331.0	200.23 303.0

204.17.17.220.22	1:	J:: 220.7.21	D4242-0	261.22.262.20
304:17,17 328:22	disagree 255:2,22	dismiss 330:7,21	Doctor 243:8	261:23 262:20
333:9 334:3 343:3	259:4 376:11,13	331:25 336:4,7	244:15,19 246:6	276:19 283:20
343:10 364:23	376:13 424:24	338:11 467:7	255:4 256:22	297:9 312:14,18
370:21 378:6,21	disagreeing 450:11	dismissal 239:1	257:11,17 258:1	327:14 469:1
397:6 398:6	disbelieve 373:24	249:8,16,18,20	259:2 266:3	dog 430:19
401:18,21 404:6,9	disciplinary 477:12	253:21 259:1	267:24 268:6	dogs 397:22
405:14 408:13	477:17	272:2 282:16,19	270:1,20 273:1	doing 257:23 263:4
425:15 464:4	discipline 301:17	329:4,10 337:3	277:11,19 278:17	267:5 268:17
467:11,19 470:16	301:25 302:16	362:20 369:17	280:19 284:21	270:16 342:11,12
470:18	318:21 321:3	374:21 381:18	288:2 289:21	347:16 367:13
differentcertai	464:14	390:13,14 423:16	291:15 317:3	368:5,6 393:10
255:16	disciplined 302:2	423:21 427:13	327:17 338:25	396:3,4,19 400:14
differently 272:1,6	326:12	437:8 463:10	380:13,22 381:5	407:20 430:11
331:21	disclosure 280:7	464:11	384:19 396:25	431:19 433:2
difficult 290:5,12	discovered 301:17	dismissed 263:12	401:22 406:7	442:21 443:12,14
349:21 351:10,15	301:25 302:7	363:11 373:2	413:12 444:13	443:14,20 456:22
395:15 399:1	410:25	dismissive 459:13	Doctor 386:8	dollars 400:14
410:13,17 426:10	discoveries 305:19	displayed 253:23	Doctorbear 327:3	433:2 437:4,7
441:14 446:15,16	discovery 386:22	disposed 427:14	doctoral 303:7,21	Don 435:4
446:18,18 463:14	395:11	disposition 280:2	304:3,5 313:15	don't 356:3
482:15	discretion 261:5,6	dispute 391:25	doctrine 453:20	don'tany 462:14
dilate 422:20	discrimination	461:18 465:19	document 246:11	don'tevery 377:8
dimensions 393:16	331:20	466:9,11,22	246:25 258:17,19	Donald 239:21
dire 317:1 402:10	discuss 253:7 267:4	468:13 473:12	259:12 273:13	doors 388:20
408:14	273:22 431:4,6	disputing 246:6	274:17,20 277:14	dose 421:5
direct 241:8,12,15	478:17 482:12	464:23 465:20	283:18 297:5	dossier 244:17
243:16 292:11	discussed 250:5	dissertation 287:1	308:8 318:16,23	245:20 246:5,8
339:7 359:1	290:24 364:5	287:6,13	325:18 330:6	265:10 318:13
364:13 375:5	458:12,14	distinguish 418:25	381:16 382:8,11	dossiers 247:12
380:20 414:14	discussing 370:8	distinguishable	383:13,15 384:4	doubt 254:22
424:22 452:19	discussion 243:19	420:13	390:17,19,25	332:24 431:20
463:24	269:3 329:23	distraught 254:3	391:1 403:1 416:2	downfall 375:7
directed 439:17	445:7 474:13	distress 432:17	424:1 454:16,17	download 423:9,12
directing 258:1	Discussionwell	distressed 254:3	454:21 455:13	Dr 243:24 246:1,12
334:14 417:21	463:18	distribute 254:13	456:3 460:24	246:15 249:8
direction 315:22	discussions 256:4	480:18	469:8 481:15,20	250:17 251:1,2
322:17 394:1,6	348:15 462:11,14	distributed 256:5	documenttake	252:13,19,23
421:12	463:2,16,18 467:5	279:24 330:6	316:20	253:2 255:6
directive 347:15	474:15	disturbed 355:12	documentation	256:13,15,24
directly 320:16	disease 399:2,3,6,9	DLE 437:17	298:24 299:11	257:11 258:4,13
445:19	399:23,25 404:7	DNA 385:15 386:2	416:13 426:14	258:22,23 259:1,3
director 293:20,22	disease-specific	386:3 392:7,8	433:17	259:5,6,9,10
295:4 316:1 340:1	404:2	DNP 252:7	documents 244:25	260:4 261:19
Director's 316:12	diseases 396:22	docontinue 286:6	246:1,10,21	265:10 268:24,25
dirty 359:18	disguise 426:13	dothe 422:22	247:15 259:25	269:3 270:6,16
unity 557.10	uisguist 720.13	40-tile 722.22	271.13 237.23	207.3 270.0,10
		•	•	•

272:18 275:14	dually 295:3	educational 384:20	employer's 241:20	Ephylodemia
281:1 286:2,11,14	due 341:8,23	Educator 274:8	242:2,4,22 261:14	388:15
292:1,2,5,13	351:17 362:12,14	275:23 284:7	308:15,22 314:3	Epson 442:25
297:2,12,17 298:1	375:11 377:10	452:17	316:21 319:4,8	equal 387:14 439:7
298:3,25 299:17	378:17 384:9	effect 258:22,23	336:8 369:25	441:10 460:16
301:12 302:7	402:7 467:5	259:3,5,6,7 273:9	370:1 371:22	equally 311:21,21
303:1,24 304:8,12	474:17 479:14	341:6 367:21	477:25 478:4	equation 421:16
304:20 306:18	480:3,9	405:22	employment	especially 474:23
307:24 308:22	duly 382:18	effectit 259:4	287:18,19 384:22	essentially 357:20
310:12 311:7,16	duties 372:9 449:5	effective 334:9	453:7	362:4 389:20,21
311:23 312:2	449:6,11,15	effectively 248:21	ended 320:1,2	391:12 392:19,24
313:23 315:3,19	duty 295:1	335:9	endorsing 376:4	395:13 397:17
315:23,24 317:20	Dwight 343:14	effectiveness 335:1	ends 245:16	398:7 400:25
318:1,5,6 319:10	353:4 376:21	effects 343:1	engage 439:17	410:10 419:5
322:12,13,14,15	379:5	397:11	445:4	422:15 431:25
323:13,13,15,16		effort 263:23 473:1	engaged 270:5	432:5,18
324:1 326:24	E	efforts 429:14	271:8 303:1	essentially 412:21
327:10 328:5,7,14	E 396:11,13 420:18	eight 421:4 445:14	324:23,24 376:9	establish 299:19
335:24 336:13	421:6 427:21	eight-year 294:5	424:23	established 283:1
338:24 339:3	464:3	Einstein 385:18	Engineering	297:2 299:3,15
345:12,20 347:13	E-mail 282:4	387:11,14	362:23	330:15 354:7
348:16 349:23	480:13,13,21	either 249:12	English 276:13	385:15 418:13
354:19,23 356:11	E.G 275:5	269:17,25 423:15	435:14,17 442:17	establishing 335:16
356:12,13,16	earlier 245:25	452:13 481:16	enjoyed 336:1	355:17
357:2 364:2	269:4 347:7	elected 247:23	enlighten 288:15	estimate 344:6
371:13 372:19	413:19 420:17	445:12 456:8	enrolled 311:13	estimation 347:25
376:15 377:2	457:16,17	election 428:9,10	enrollment 319:19	estimations 345:22
379:7,24 380:11	earliest 256:16	electronically	entire 302:8 368:14	Ethics 334:7
380:16 382:21	early 256:19 320:3	480:18	372:1 389:12	euphemism 357:23
414:14 443:9	340:16 388:18	elements 298:7	392:24 418:20	European 389:6
468:9 473:24,25	420:25 427:22	351:14	468:22	evaluate 307:2
475:23	430:24	eligible 248:9	entirely 374:1	308:1 337:12
Draconian 361:11	easily 386:1 428:22	Emergency 391:12	409:14	evaluated 297:21
draft 277:15	481:15	445:11	entitled 239:10	297:22 311:8,9,17
draws 303:16	easy 406:18 407:10	eminence 275:6,8	330:6 383:3 417:7	311:23
Drive 483:13	459:14	283:7	474:16	evaluates 312:12
driven 335:23	eat 370:17	eminent 286:3	entitlement 449:18	evaluating 308:3
drug 398:25 399:6	economic 287:2	employed 261:12	entries 383:12	336:16
406:20,21 421:5	edge 311:8	292:14,15	423:10	evaluation 296:6
428:1	editorial 456:14	employer 239:5	entry 405:19	299:7 306:24
drugtwo 396:23	educated 333:15	240:9 257:21	enunciated 351:1	310:6,16,24 311:6
drugs 396:23	education 250:16	258:2 261:13	362:16	319:19 335:21
398:22 401:16	325:1,2,4 340:24	318:13 330:15	Environmental	336:23 351:13
430:15,16 459:5	351:3 353:18	369:16 370:20	295:4	evaluations 335:13
dual 292:24	363:20	381:22 478:3	enzyme 392:10	event 382:2
	I	I	I	I

eventually 343:15	474:10	299:23,24 308:14	272:2,13,17 274:5	explains 384:25
346:6	examine 318:25	308:16,22 314:2,4	274:7 275:14	explanation 366:9
everybody 321:11	examines 330:13	316:21,23 317:4	277:6,7 281:16	461:16
359:17,18 389:7	example 251:23	318:13 319:4,9	284:8 286:8	explanations
423:19,20 481:8	252:5 257:5	349:24 350:1	288:13 290:6	288:21
481:21	286:23 303:20	356:11 369:25	333:22 344:1	express 254:6
everybody's 333:21	326:1 345:15	370:2 371:23	347:7 350:9 445:5	expressed 254:1
everyone's 482:14	348:16 361:4	380:25 381:3	454:21,23	266:21 375:5
evidence 245:19	393:10 456:12,13	382:21,24 383:1,2	expected 262:4	expression 408:13
258:2 262:10	examples 345:11	384:17 401:24,25	264:9 272:14	exquisite 424:15
269:1 275:8 277:5	excellence 335:2,2	403:7,9 407:22,24	277:9 281:22,23	434:5
283:6 284:1,25	450:9	408:15 412:4,7	290:9	exquisitelyI
285:19,21,23	excellent 307:14	413:11,13 414:10	expeditiously 332:6	424:14
286:10 287:9,15	311:18 335:4	414:13,17,25	482:4	extend 398:17,20
288:22 298:7,10	415:10	415:2,5,17,19	experience 347:25	430:11 449:23
298:14 299:1,5,12	excellently 335:10	416:23 417:1,11	350:12 358:2,15	extension 466:7,12
299:12 300:9	exception 279:16	417:15 422:3,4	362:21 387:19	extensive 245:24
301:13,19 302:6	excess 396:21	425:4,22 433:12	391:7 436:10,17	465:7
318:21 320:23	exchange 480:11	433:14 434:18	experienced 312:20	extent 267:15
330:17 331:22	excuse 298:3	436:11 450:4	347:5 358:7	external 269:15
332:9,22,25 333:2	304:22 394:4	451:23 454:19	experiment 407:14	274:12,16 421:15
335:24 337:8,12	406:10	458:14 460:6	410:5,8,8,9,9,12	455:14
337:15 350:4	excused 291:18	461:4 469:1,2,6	410:13,16,17	externally 343:12
381:14 384:2,11	328:18 380:2	476:6,23 477:9	421:4,6,7	361:20
402:13 411:7	475:16	478:2,5 482:18	experimental 472:5	extra 383:10
414:6 434:10	excuses 405:15,15	exhibit 477:24	experimentation	415:15 456:24
458:24 478:21	Executive 259:15	exhibitMr 277:21	398:24 421:1	extract 317:3
exactly 253:6,16	289:23 290:2,20	exhibits 241:19	experiments	extramural 275:11
262:14 264:7	290:22 291:3,7,13	242:1 330:14	395:21 396:4,4	extremely 441:21
277:9 310:1	330:13 332:5	exist 337:3	400:6 410:3 432:7	F
318:18 388:4	336:10 338:2,11	existed 246:25	432:9,14 436:19	
403:4 408:19	374:13	299:12	438:7	F 464:3
441:5	exemplary 256:16	existence 327:22	expert 409:16	face 447:4 facie 330:16 335:15
exactlyyou	exercise 375:16	exists 257:7 431:15	429:22	fact 246:6 283:15
401:10	exhibit 241:20	expanded 242:9	expertise 250:12	289:17 291:8
exam 470:4	242:2,4,6,8,10,12	245:15 383:3,16	271:5 325:8	299:2,15 300:10
examination 241:5	242:14,16,18,20	383:20	358:12	334:6 341:23
241:6,8,10,12,15	242:22 244:15,19	expectation 268:15	explain 306:21	353:14 375:14
241:17 280:24 282:15 284:19	245:2,16 246:7,12 246:19,23 251:13	269:23 281:9,15 440:9 455:14	344:17 366:10 424:24 433:15	383:21 384:25
292:11 327:20	255:5 257:18		470:5	389:10 392:6
339:7 364:13	258:2 259:2	expectations 261:13,14,16	470:5 explained 267:21	394:25 396:18
366:16 375:6	272:25 277:11	266:11,17,19	432:3	398:1 400:1
380:20 452:19	283:14,14,18	267:2,11,18 268:6	explaining 386:6	404:16 406:1
463:24 473:24	284:12 288:24	268:24 270:2	395:5 442:16	407:2 410:15
703.27 7/3.27	207.12 200.24	200.27 270.2	373.3 774.10	
	•	•	•	•

417:24 421:18	252:11 253:1,8,22	375:13,15,19,20	fast 393:12 406:18	finances 358:11
422:23 430:20	254:6,14,18,20,24	376:18,21 377:10	fault 359:12 437:12	financing 418:6
432:7 437:14	255:12,18,24	378:24 389:21	favor 333:2 363:2	find 253:3,18 266:6
438:1,4 441:5	256:2,8 259:15,19	391:11,14,21	favorable 311:22	277:12 290:5,12
451:10,12,16	259:20 260:24	428:20,22 429:24	Fazlul 465:13	310:2 311:11
452:23 453:9	261:1,9 262:5	445:13 447:18	fearful 375:6	353:21 354:21
458:9 460:25	264:10,24 265:5	448:3,9,12,18	February 381:9	357:10 399:1
466:25 467:24	265:14,15,18,23	449:5,14,16 450:5	feed 420:24	405:2,7 415:12,16
468:7 474:16	265:24 266:1,8,9	450:8 451:20	feel 443:2 447:3	418:21 426:3,4,7
fact 419:21	266:20,21 267:2	452:7 453:14	481:17	457:25 468:5
factwhat 431:14	267:13,18 269:6,8	456:11 462:4	felt 270:15 373:21	findings 332:8
factor 276:12 288:3	269:18 271:25	465:4 467:6	378:25	337:16
288:10,19,23	272:6 273:4,19	469:11	FERRER 443:9	fine 329:22 342:12
289:1,4 290:4,19	276:5,15,20,24	faculty 271:20	fewer 385:4	342:23,25 380:5
290:23 421:23,25	278:2,2 279:25	Faerie 442:24	field 256:14 285:19	390:19 401:1
factors 242:23	281:2,6,10,10,16	fail 273:19	286:23 385:7,8	418:4 434:6
258:3,5,8,12,15	281:18,19,21	failed 262:22	399:17,20 436:14	477:22 479:15
259:13,17,18,22	282:1,3,3 283:3	437:22 461:11	436:16	481:11
260:3 261:2 264:9	284:7 285:14	failed 354:4	fields 420:18	finish 355:15
273:25 274:3,8,21	286:8 287:19	failing 428:17	436:12	408:16 475:11
276:9,10,14,18	288:8,15 289:19	fails 248:2 252:11	fifteen 329:21	finished 271:21
277:7 281:19	289:23 290:2,6,8	failure 260:5,21	fifth 436:20	286:18,19 295:1
282:25 283:2,6,13	290:25 291:6	264:4 330:18	fight 399:12	395:13 474:5
283:24,24 284:1	293:18 294:8,13	333:11 356:17	figure 385:14 411:9	Finley 315:25
286:7 289:4,22,22	294:15 296:3	397:9 399:22	411:11 444:16,24	fired 361:15 431:19
289:25 290:1,7,9	304:17 305:23	400:18,20 413:24	file 302:9,9 376:2	first 261:16 267:19
290:11,14 291:2	306:16 308:4	fair 376:6 449:6	379:1	273:3 287:18
308:3 335:3 336:2	322:24 323:7,13	fairness 370:4	filed 272:2 280:6	294:22 303:12
350:9 357:19	323:18 324:9	faith 453:21,21,22	330:10 368:13	310:22 319:22
442:3 449:22,24	325:5 334:1,18	fall 304:2 305:7,8	377:15	334:14 338:24
451:18,20 452:7	339:18 341:4	306:10,11 309:7,7	files 246:2 299:5	365:19,20 373:17
452:10 454:19	342:5,10,16 343:1	309:25	317:4	373:18 374:7
476:8 477:2	343:3,16,19,24	false 432:2 437:11	filings 465:17 466:4	376:16 382:13
478:15	345:9,16,19,24	falsehoods 418:21	466:4 468:17,18	385:24 386:1,11
facts 253:8 354:11	346:19 348:6,11	fame 434:1	468:20	397:3,16 405:17
373:11,16	349:14 351:14	familiar 260:19	fill 440:9 469:10	407:6,7,9 408:11
factual 332:8 337:16	352:24 353:1,13	356:19 451:18	filled 319:2 418:20	409:22 410:22
	354:3 357:4,25	famous 388:5,17	final 282:16 283:12	411:1 417:22
faculty 239:1,8 240:6 244:6	358:1,5 359:12,14 359:25 360:8	419:9,9 420:3,5,7	294:4 478:18,19	418:2,16,19
246:14,16,17	362:1 363:2,17	fan 471:18 fantastic 475:10	481:23 finally 278:19	420:21 421:24 432:2 435:8 436:6
247:8,11,25 248:1	364:15 366:24	far 262:7 342:18,18	331:14 368:5	436:23 438:4,21
248:2,5,18,22	367:1,3,13,17,18	350:15 445:6	470:3	438:23,24,24
250:5,15 251:21	372:8 373:1	447:20 459:22	financed 400:12	449:2 451:21
251:25 252:5,10	374:17 375:9,11	466:14 472:23	418:5	454:22 461:3
251.25 252.5,10	511.11 515.7,11	100.11 1/2.23	110.5	101.22 101.3

464:4 469:24	374:5 377:25	four 302:24 304:11	313:15	314:1,5,12,16,22
firstI'm 338:20	378:10 398:23	308:1 363:13	funded 400:17	316:4,14,17,24
firstwell 383:14	440:19	397:6 401:4,8,10	436:2,4,4 438:16	317:10 319:1,4,6
first-hand 416:17	follows 243:5	413:19,20 418:4	funding 263:22	319:10 320:4,8
firsthand 304:16	292:10 339:6	419:3 421:2 427:4	269:15 274:12,16	321:4,6,9,17,23
316:4 323:10	380:19	429:16 430:5	275:11 445:22,24	322:1,3 323:21
379:4,14 462:11	fond 273:2	437:9 456:22	446:6 452:21	327:18,21 328:13
462:14,18 463:15	foolish 436:17	462:7,12,24	455:15 459:8	328:19 329:12
465:8,10 468:2	foragain 340:14	fourthree 311:12	funds 263:20	331:1,5 336:11
Fisher 405:12,12	forbidding 411:4	four-year 294:1	446:12	338:3 341:13,16
five 248:7,8,14	force 351:6	fourth 311:12	further 243:5	342:21 344:8,13
279:10 296:23	Ford 403:16 459:10	Fox-Chase 389:14	273:20 280:18	344:20,25 346:11
302:24 308:1	form 244:18,23	fragments 243:13	311:10 327:16	346:17 354:5,17
319:12 374:20	245:8 278:1,3,14	Franco 443:24	364:7,15 372:22	354:19 355:2,6,14
375:1 419:4 420:8	278:18,24,25	Frank 391:6	379:21 445:16	355:24 364:10,12
420:9,11,12,16	279:4,24 280:5,10	frankly 330:8	446:20 453:4	365:11 366:3,15
421:2 432:2,21	280:15 297:8	406:21 436:18	475:15,24	366:20,24 369:24
433:6,7 441:6	298:23 321:13	fraudulent 465:7	future 253:10	370:7,10,15,18
453:2 475:5	440:9 445:5	467:1	263:19 264:2	371:4,7,12,24
482:21	481:14	freedom 280:7	383:18 458:13	372:4,6 379:18
five- 437:13	formally 332:16	333:16 347:19,20		381:15 382:5
five-minute 291:20	377:25 457:2,4	362:12,13	G	384:3 390:15,20
380:4 473:16,20	format 310:1	frequent 273:23	gal 409:7	390:23 402:10,15
five-year 262:22	former 343:7,7	frequently 293:8	galI 409:6	402:18,22,25
fix 405:15	forms 395:8	friend 394:19	Galante 240:2	403:5 408:14,18
flawed 298:11	formulate 254:12	396:10	241:5,8,10,13,16	411:8,9,15,18,22
flood 375:8	forth 258:8 273:25	friends 428:14	244:16 251:5,9	412:8,13,17,22
flowering 387:24	378:13 388:22	fromalso 340:2	254:16 257:19,24	414:7,8,17 415:1
focus 264:8,8,12,15	448:24 478:21,22	front 417:12	267:19 272:4	415:11,14,21
269:12 281:23	forward 263:19	FTIR 431:10	273:11 275:25	416:11,22 417:4
394:9 401:13,14	264:8 343:18	full 262:24 274:8	277:12 278:12	419:12,15,17
401:19 402:5	344:5	283:16 331:14	279:5,9 280:22,25	423:23,25 425:10
408:3 457:14	Foucault 442:21	339:9 358:16	281:15 284:2,10	425:11,25 426:2
474:24	found 386:1,19	380:22 416:3	288:6,17 289:2,8	434:12,14 444:19
focused 268:13	388:7 398:23	419:1 423:16	291:17,25 292:12	444:23 446:23
271:19 274:10	399:7,12 404:2	437:15 446:2	296:19,23 297:4	447:2,6,9 454:13
Fogel 385:11 387:1	407:5 440:21	452:3,25	297:15,16 298:20	454:15,18,20
388:7	465:21 467:13	fully 258:8	298:22 299:18	455:12 467:23
follow 404:11	foundation 272:7	function 397:12	300:4,13,19 301:4	468:1,5,7 469:6,8
406:17 435:18	288:18,22 296:14	functions 404:25	301:20 302:3,6,13	472:20,25 473:5
follow-up 350:13	298:16 341:16	fund 421:11	302:17,20 305:5	473:10,11,17,23
followed 258:3	344:10 354:10	fundamental	307:22 308:13,19	474:4,8 475:15,24
294:1 391:9	416:6	274:24 299:15	308:21 309:15,18	476:3,7,11,15,22
followedshe 442:6	foundational	303:3	310:15 312:5,12	477:1,4,8,22,25
following 332:16	303:22	fundamentals	312:19 313:3,7,20	478:8,13,16 479:7
101101111111111111111111111111111111111			_	770.0,10,10

479:11,15,22	give 244:14 277:10	267:2,18 268:4	388:11 390:15	Governors 293:15
480:5,14,17,23	280:16 292:21	272:9 273:18	397:21 406:14,16	329:4,10 332:17
481:1,6,10,12,22	304:17 314:25	274:16 277:12	406:24 407:1,15	333:6 336:3
482:3,8,13,18,22	317:18,20 345:11	282:12 284:15	409:20 415:19	337:18,22 342:3
Galante's 327:14	345:15 366:8,18	292:6 293:13	416:22,25 418:7	349:10 361:19
Galloway 398:16	373:8 380:25	302:18 311:10,19	420:20 424:16	369:17 378:1
gates 375:8	381:15 384:8	330:1,22 338:2,4	426:7 430:7 431:1	447:21
gates 373.8 gay 443:24	386:17 396:16	338:9 349:15	431:9 436:12	Governors' 260:17
gay 443.24 genders 404:6	400:24 407:4,11	352:5 380:8	439:14,15 440:3,8	331:24 447:21
gene/chromosome	415:11 418:1	385:12 386:8,23	440:11,13,16,17	450:2
475:12	427:6 429:9 433:9	389:21 391:24,25	440.11,13,10,17	Governors's
	438:22 440:3,11	395:1 406:10	442.0,7,13,23	374:10
general 240:3,4 243:14 276:9	441:17 459:16	421:11 426:3	444:5 448:15	
403:24				graciously 359:21
	480:14	436:22 440:2,7,14	449:1 451:2,2,23	gradedokay 310:14
generally 324:5,13 324:19 333:7	given 258:18	441:19 448:22	454:10,15 458:9	
	266:22 267:7	451:13 458:15	458:11,17,20	gradients 392:18
360:4 363:17	272:10,12 281:19	460:1 464:25	459:20 460:3	graduate 292:17,20
422:19	288:21 296:4	467:13,25 468:25	463:7 474:17	292:22,23 293:5
generate 351:25	317:12 320:4	470:17,25 471:1,2	475:19,21 479:5,9	293:14 294:1,25
403:17 424:18	323:19 334:18	471:2,4,14 476:5	going 406:9	295:15,21,24
generation 352:1	335:14,25 337:23	goals 272:15 344:7	goingyeah 406:9	296:1,12,21 303:4
genes 386:12 408:8	348:21 358:6	344:9,24 345:3	good 243:8,8 311:1	313:13 319:12
408:12	363:12 382:20	goes 245:16 257:7	311:4,5,9,18	325:1,3 388:23
genetic 385:25	384:15 411:25	275:15,16 330:12	312:3,17 358:11	405:16 432:24
408:7,22	415:24 462:19,20	337:20 352:21	388:18 391:3	434:23 438:12
geneticists 387:25	462:22 466:12,13	384:14 393:6	393:3 407:14	471:23,25
388:14	466:17 467:6	goggles 395:24,25	412:11 418:6,8	graduates 409:22
genetics 387:25	gives 297:8 304:19	going 254:16	420:7 422:17	grant 242:13
396:12,13 409:16	321:11 375:11	261:13,16 263:18	424:13 430:24	263:13,23 265:16
409:18,19 410:1	377:10	271:13 273:9,11	431:17 437:1	268:21,21 269:15
426:19 427:21,21	giving 279:12	278:6,15 279:13	441:9 453:21,21	271:3,18 274:15
434:21	374:14	280:14 290:14	453:21,22,22	291:9 336:10
genuinely 424:11	glamorous 396:5	291:5 293:7,8	470:8 475:5	357:12,12,13
Gerontology 340:2	glumatine 458:7	298:18 307:14	Google 425:12	358:15 359:6
get 482:7	glutamate 396:21	318:19 321:9	Gordon 240:11	370:19 383:9,19
getit's 459:18	396:24 397:11,12	324:9 333:17,18	283:19 474:4	383:25 387:9,17
getwe 352:5	397:19 398:2,3,5	333:19,23 334:19	476:17 478:22	390:6 392:3
getting 248:8 257:2	398:13 430:9	338:20 342:21	481:18	394:22 396:18
268:14 331:23	glutamate/gluta	344:8 346:11,14	Gordon's 328:22	397:16 406:8,12
351:9 385:9	401:15	353:7,12,16,17	gorgeous 392:13	407:2,4,6,11,11
395:17 397:16	glutamine 397:12	354:5 356:9	gotten 300:6	407:25 408:10
407:16 463:19	398:8,9,12 413:25	369:10 370:23	320:15 365:21	410:5,9,20 411:18
467:2	430:10	371:16 375:6,8	368:19 396:18	412:4,10,18,25
Ghosh 239:23	go 244:17 251:4	380:24 382:18	governance 351:14	420:20 421:13,14
girlfriend 434:25	261:19 264:8	386:5,11 387:13	government 435:24	421:15,16,18
	l		l	<u> </u>

431:16 433:4	251:12 254:19,23	407:23 408:16,19	guy 395:3 409:6	367:18
436:2,4,12,23	257:17,20,22	411:6 413:12	440:5	hasis 365:17
437:9 440:2,4,6,8	258:1 267:24	414:6,14,18,22	guys 442:14 443:17	hasthat 351:22
440:10,14,15,18	268:5 272:10	415:3,8,10,13,18	481:25	haveof 376:3
445:22,24 446:6	273:16,18 277:10	416:7,8,24 417:2		havethey 430:23
453:15 458:10	277:19,21,22,25	417:7,12,21	H	haven'tlet 408:16
460:7,14,15,16	278:17 279:7,14	419:22 422:4	h 425:14,23 426:4	Hazelton 251:2,5,6
467:2 475:7	279:17 280:18	424:2,22 425:1,3	h-index 433:23	Hazlett 251:6,8
grant- 282:12	281:12 282:14	425:6,9 426:16,17	434:5,7 464:7	423:3
granted 330:21	283:25 284:17,18	433:9,13 434:10	h-indexes 433:22	he 297:15 316:14
336:7 409:2	284:20 288:7,24	434:19 445:2,3	had 361:21	heread 369:13
447:23,25	289:12 291:15	446:4,7,20 454:10	hadpersonally	head 343:15 394:22
granting 331:25	296:14,25 297:10	454:17 455:10	328:4	395:4 399:12
grants 257:3	298:5 299:14	467:21 469:5,7	half 326:5 472:11	heading 305:18
262:23 263:16,18	300:9 301:10,24	472:18,23 474:2	473:3	Health 295:4,22
263:20 264:2,14	302:11 307:18	474:11 475:13,18	Hall 239:11 322:6	343:13 385:20
264:22 268:14	308:7 309:13,20	475:21 476:23	halorhodopsin	hear 278:8 309:22
270:13 271:14	309:22 312:8,11	477:3,6,11,14,19	392:4,11	417:19 444:19
276:22,22 283:8	312:15 313:2,4	478:11,24 479:1	hand 257:17 292:3	468:24
291:11 343:21	314:10,15 316:2	479:18 480:7,10	339:1 380:14,24	heard 263:2,6
345:13 346:5	316:13,15,25	481:7	423:9	333:13 335:13
348:2 357:12	317:1,3,7,9,12,15	grid 247:17 347:7	handling 282:8	336:15 345:6,8
359:16 432:24	317:17,20,23	gridand 347:9	hands 317:6 321:14	347:6 365:1
437:12 453:10	318:1,4,8,11	grievance 368:12	359:18	373:19 407:10
454:2 455:5	320:22 323:22,23	369:14 377:15	Hangzhou 435:10	hearing 239:14
471:12	323:25 327:16	379:1	happen 397:21	245:13,14 246:11
grantssorry 422:9	328:10 329:7,17	grievances 370:19	415:14 441:16	253:3 278:9
grantsmanship	329:20,23 330:4	grip 432:19	451:11	330:11 337:7
291:4,8	331:10 335:18,20	gritty 331:23	happened 253:17	353:25 359:20
graph 417:23	338:10,17 339:8	grounds 337:3	253:22 286:23	361:14 362:24
gray 405:13	341:21 346:22	group 275:7 343:17	302:15 361:9	374:4,5,17 375:12
great 264:11	347:17 354:13,18	375:20	417:23	414:23 451:8
279:11 282:7	354:22 355:4,11	guarantee 341:8	happening 282:6	482:23
349:12 351:2	355:21 356:8,11	347:20,21	happens 293:11	hearingto 362:24
362:15 365:18	364:7 365:8,10	guaranteed 347:19	310:12 358:19	hearings 246:9
384:18 400:2	366:13 368:13	453:5	happy 456:20	412:1
410:15 430:6	370:3,4,9,13,16	guess 355:15	457:1	hearsay 308:9
443:21	371:2,5,9,11,19	412:17 419:12	Harbor 386:17,18	316:2 318:24
greatwell 424:13	379:20,21,23	421:20 478:16	434:22	328:10 331:15
greater 325:25	380:5,11,21 381:4	479:19	hard 269:9 338:22	342:22 346:12,15
359:7	381:13,20,21	guessI 415:21	387:5,15 436:15	347:3 373:6
Gregory 240:11,12	383:2 384:1,18	guided 276:8	453:7,11,24 454:1	415:24 416:3,3,4
241:4,6,9,12,15	390:22 394:8	Guidelines 259:13	459:17 460:4	416:9
241:17 243:7	401:25 402:12	281:20 290:7,10	hardthis 459:17	heart 352:18
244:14,18 251:11	403:10 406:11,12	gun 405:7	hard-working	heat 471:17
		<u> </u>	<u> </u>	<u> </u>

	<u> </u>	 		 [.
heavy 333:1	hold 293:16 340:10	howwhat 367:16	268:1 277:2	improved 344:1
Hefner 343:13	340:17 401:22	human 398:22	367:16 376:17,22	improving 268:16
353:3 379:5	422:1	399:11 407:4	379:5,10 461:10	inif 436:10
height 390:11	holding 294:19	430:23 436:22	identify 266:6	inability 271:2
held 239:9 246:14	340:21	Humanities 378:19	269:19 276:14	inactivates 398:9,9
292:18 294:16	Hollingstadt	humans 403:21	318:25 381:5	inactive 432:1
339:22,24 340:17	287:12	458:24,24	383:4 386:13	inadequate 298:11
357:2,3	holographic 393:15	hundreds 287:10	402:1 413:13	inappropriate
help 266:7 272:16	home 471:3,19,20	400:13 433:1	422:5	249:15 253:4
285:1 390:7	472:8	437:3,6	identifying 375:19	390:22
409:20 440:2,3,6	honestly 245:7,8	hypothesis 441:1	if 397:18	incentives 359:13
helped 400:5	253:5 254:21	hypothetically	ifit's 461:12	include 275:9 282:1
helpful 269:19	272:22 285:8	279:24	ignorance 454:9	332:7
407:19	Honigman 465:12		ignorant 432:5	included 248:11
Hemerals 410:20	honorarium 434:23	I	455:6	250:11 251:25
Henry 403:16	honored 378:19	I'm 424:1	illegal 453:17	includedI 250:8
459:10	hope 360:9 475:6	I 365:6 378:9	imagine 450:6	including 422:11
herbut 424:15	Hopefully 437:1	454:5	immunological	inclusive 381:24
hidden 441:13	Hornberger 242:5	Iare 257:8	400:6	income 274:15
high 345:14 347:14	368:22 371:10	Iis 349:22	Immunology	incomplete 412:18
384:23 385:1	478:7,13	Ilet 457:17	391:17	412:23 413:2
422:11 424:18	Hornberger's	IBS 303:10 315:5,7	impact 274:24	incorporated 378:7
434:7	328:21	315:12,15	implement 281:20	increase 266:21,23
highas 347:13	hospitals 459:20,22	idea 254:3,25	322:5 329:4	343:20 348:24
higher 340:24	hostile 253:13,15	258:20 292:21	implemented 258:4	359:15 364:17
351:3 353:18	253:16	326:10 396:15,16	375:11	442:14
highest 365:5	hour 326:4,4	397:15,17 400:8	implementing	increased 359:2
highly 333:15,15	hourly 334:12	406:25 407:7	268:1 278:18	increases 276:8
378:19	hours 261:25 262:1	409:14 415:25	implied 453:20	increasing 357:12
himhe 352:13	262:1 304:22,22	418:24 420:24,25	importance 291:5	357:13
himread 429:15	304:24 305:1,9	427:3 428:11	important 251:21	incredible 429:5
Himeji 435:20	306:2,4,5,17,18	440:18 441:8	253:9 298:6	434:24
hire 388:4	314:6,8,17,20,21	450:6,14,15,17,20	347:22 351:13	incur 351:22
hired 343:6,12	320:12,13,19,21	452:20 454:24,25	392:5,7 394:14	indefinite 449:17
386:24 389:2,15	321:1,2,6,14,16	462:16 466:23	396:21 397:14,19	indefinitely 449:23
hiring 323:13	321:24 325:13	468:12 470:8	400:9 468:25	independently
388:13	326:5 400:22	471:11 472:13,13	importantly 336:19	243:17
his 344:24	469:16 470:1,1,7	473:14	393:8	indicate 261:23
historical 282:25	470:9 471:7	ideas 430:6	impossible 436:14	291:4 304:20
302:23 427:24	hourscontact	identification	impress 429:12	indicated 246:15
history 427:20	306:18	380:25 381:5	impression 278:3	277:16 278:1
468:22	hourssix 304:21	383:3 402:1	356:22	284:21 294:8
hit 405:8	housekeeping	407:24 422:5	improve 253:9	364:14
hitting 396:6	476:3	433:14	282:11,12 349:7	indicating 277:2
Hokkaido 435:19	howthe 289:17	identified 259:14	407:12 430:14	468:9
110KKaiuu 733.17	110Wthe 207.17		TU/.12 TJU.1T	T00.7
	•		•	•

indication 297:12	initiated 244:7	422:15,23 431:17	465:25 466:9,15	350:19 370:7,10
306:4	264:23 275:11	interested 267:5	467:8	372:5 373:2 378:6
indifferent 431:18	343:9	268:16 348:2	investigations	384:10 455:24
indirect 358:19	initiates 281:18	385:9 424:17	275:2 407:4	460:22
individual 247:12	initiating 337:3	426:22,23,25	investigator 257:9	issued 307:15 364:4
287:3,7 293:2,6	injected 400:21	427:8 431:12	investigator-	issues 269:11 332:8
296:7 305:23	input 391:10	437:20 459:11,12	275:10	360:2,6 369:18
307:3,15 311:6,24	inquired 271:16	460:4	investigator-initi	it's 302:3 412:11
324:8,22 325:10	inquiry 270:11	interesting 347:22	283:8	it 297:10 478:23
325:23 326:21,23	inside 323:8	410:24,25 441:21	invitation 435:7	itbecause 481:25
352:8 363:23	instant 352:9	446:14	invited 299:20	itmake 301:20
366:4 373:23	institute 295:5	Interim 294:24	359:21 435:9	itwell 411:13
423:6	340:1 385:5,20	internal 342:8	invoke 350:18	italics 383:10,21
individual'swhat	395:4 427:1	349:25 364:22	invoked 341:22	
296:5	instituted 301:18	international	involve 293:22	J
individually 265:13	Institutes 295:22	256:13,25 257:12	351:14 432:19	Jack 343:11 349:14
267:22 304:8	institution 251:22	275:5,12 394:23	involved 243:16	360:7 365:16,22
individuals 243:23	334:8	422:25 423:2	250:3 265:15	365:23 438:4
250:13,14,15	instruction 439:24	424:6 434:7,8	267:14 280:10	454:23
261:2 267:5	instructional 293:9	435:2,3,24 464:21	299:16 300:10,14	Jack's 437:11
268:12 272:13	324:20	internationally	310:7 312:9 313:5	Jakewood 483:13
290:8 379:6	instructor 303:24	434:20	336:15 337:24	James 239:10
industrial 471:6	307:5 310:11	Internet 405:17	340:9 343:10	241:11 339:4,10
ineffective 290:15	311:6 312:19,25	471:5	361:23 363:24	Janos 394:10,15
inform 282:5 300:4	315:10 327:1	Interneteveryone	373:13,17 434:20	395:18
information 245:15	instructors 296:7	466:24	465:11 468:4	January 468:10
245:23 246:3,7	297:22 304:11,13	interpret 309:10	471:13	Japan 435:9,18
247:18,25 248:11	307:4	interpretation	involvedno	Japanese 389:6
251:24 252:3,23	insufficient 335:24	456:5 482:9	300:14	435:24 Leakle 240:12
256:7 263:3 280:7	intake 292:25	interpreted 334:22	involvement 341:9	Jeakle 240:12
280:12 298:22	integrals 404:25	interrupt 406:7	involving 373:1	Jennifer 239:16
302:10 307:1	integrated 303:8	interrupted 266:3	Iowa 351:5	Jim 386:15
308:25 320:10,16	intellectual 411:5	286:20	irrelevant 296:16	job 283:21 287:18 331:20 334:12
331:6 358:5 364:1	448:13	interval 389:5	297:3,4 318:12	388:6
382:16 383:11	intellectually	interview 247:11	371:11,13 382:14	
384:18 393:8,9	438:10 441:20	247:21	384:10	John 250:8 join 294:21
396:7 413:5	interact 328:5	introduced 365:19	Irvine 392:21	join 294.21 joined 387:22
416:14,18 418:8	interaction 373:5	394:10,19 477:7	is 312:7,11 370:15	460:15
informs 337:5	391:4	introducing 313:13	417:23	joining 387:8
inhibit 400:1	interactions 344:3	invade 333:20	isand 285:24	joint 255:5 272:25
inhibitor 398:7,8	344:4 441:2	inventory 323:9	iseither 356:2	288:24 356:11
initial 246:5 333:22	475:12	investigated 397:5	isI 279:10	361:25 388:19
336:16	intercede 323:6	investigation 200:9	isokay 244:17	414:24
initially 247:25	interest 269:23	investigation 298:8	iswe 303:6 issue 269:12 336:12	Jose 239:17
initiate 244:5	270:2 408:6	298:10 465:21,23	Issue 209.12 330.12	003C 237.17
	1	1	1	1

journals 242:15	knew 254:8,9,10	421:5 424:6 426:7	466:25	latest 353:10
275:3 414:2,4,5	397:21,24 398:15	427:17 429:22	knowsthat 261:9	laugh 364:21
414:11	409:25 420:20	430:24 432:4,23	Komoltorov 405:1	law 467:25
judge 269:24 276:4	435:16 452:22	436:6 439:11	Kuhn 239:21	laws 351:5,5
judged 248:10	knewthat 360:9	440:16 441:18,24	Kyoto 392:21	lawsuit 465:13,15
288:15 299:7,10	knock 397:20	441:25 442:4,7,10	394:20	466:3 468:4
336:17	know 244:2 245:7,8	442:17 443:15		lawyer 363:1,1,10
judging 421:21	245:9,10,12,14,22	445:6,18 446:10	L	465:11,12 466:5
judgment 336:5	250:14 253:5	447:13,14,22	L-I 323:13	lawyer's 468:18
344:6 363:11	254:2,21 256:12	451:3,14,21,22	lab 322:5 385:4	lawyers 273:1
374:2 375:16	256:22,23 260:18	453:9,19 455:5	388:15,17,17	455:17
376:5 377:8	260:23 261:15,18	456:2 457:16,18	418:1 435:11	LDS 400:19
Julie 266:25 267:3	262:7,9,10,14	458:2 459:23	470:19,21 471:1,2	lead 270:8 341:20
267:9	265:9 267:25	461:14,24 462:5	471:2,15 473:4	leadership 275:6
Julius's 386:16	271:10 272:22,25	462:13,22 463:1	lablook 470:25	358:1
jump 429:2	276:18,20 277:9	463:19,21,23	labwith 471:4	leading 256:5
jumped 442:7	278:21,22 279:9	464:10 466:2,14	label 416:22 417:1	264:22 281:12,14
jumps 429:10	280:2,4,8,9,11,14	466:17,19 468:16	labelled 290:14	316:13 320:22
junk 442:10	285:8 286:14	468:20,22 470:14	laboratory 295:7	365:14 366:17
just 475:25	289:18,21 290:25	470:14 471:11	323:14,19 386:16	leads 403:25
Justthere 419:22	296:9 297:14,21	473:5,6,9,10	390:1	learn 264:15 311:3
justified 300:5	298:7 304:16,18	474:12,23 479:18	labs 388:21 390:9	402:8 405:20
justify 384:12	306:1 308:11	481:17 482:14	435:23	learned 386:12,13
	314:22 315:12,21	know 386:7	lack 273:5 287:20	404:21 409:21
K	316:10,15 317:14	390:14	288:4 353:22	learners 469:17
Kaluza-Klein	318:24 319:21	knowsaid 409:7	437:25 473:1	leave 259:22
385:7	326:13,18 338:4	knowledge 254:23	lacking 340:8	280:12 338:4
Karmanos 437:17	341:21 342:3,20	256:7 276:18	Lande 322:6	422:1 429:4
Keane 343:15	346:4,17,18,19	280:15 291:13	470:19	482:22
353:4	350:12,15,20	296:19 304:16	Landmarks 386:20	leaves 248:20
keep 250:19 407:15	351:17 352:23	314:16 316:5,9	language 333:7	lecture 434:22
407:16 417:18	355:5,22 356:20	319:16,18 320:19	372:16 386:5	469:23,24 470:6
427:3 482:18	356:21 358:10,12	323:10 343:2	429:20	470:15
kept 262:13 296:5	360:8 371:7 373:4	350:12 352:1,1	Lanyi 392:20	lecturers 326:23
key 351:15,15	373:15 375:5	357:5,5 363:13	large 311:20	lectures 304:18,19
362:10	378:9 386:9	364:1 377:16	375:20 393:12	305:15,16,20
kills 399:23	390:11 395:10,15	379:4,15 391:1,2	406:3	310:19 326:4
kind 301:6 334:17	397:20 398:1	416:17 462:11,14	largest 406:5	470:17
338:19 360:1	401:10 403:4	462:18 463:15	Larry 346:3	lecturing 435:22
390:2 394:4	404:4 405:4	464:12,13 465:10	laser 395:23 396:6	led 318:21
409:25 418:14,15	407:14 408:25	465:17 468:3	472:4	Lee 328:20 388:4
462:23 476:3	409:18,19 412:20	knowledge 465:8	lastlet's 261:19	left 315:24 389:11
kinds 331:15	413:7 415:21	known 403:21	lastwell 475:4	389:12 391:5
343:25 348:10	416:8 418:3 419:7	knows 261:12,14	late 320:2 393:25	395:14 461:25
452:23 464:13	419:9 420:2,17,22	279:7 407:17	lately 420:4	467:17

				- 5
leftist 443:24	275:12 283:4	434:2 446:24	349:24 359:4	maintaining 273:7
legal 280:13 447:15	326:19 335:7	458:7 472:10	405:14 431:10	major 269:2 385:3
447:17 448:1,19	349:2 356:17	473:17	441:6 469:5	385:14 393:21
453:17 454:5,24	364:17 455:15	lived 434:25	475:12	399:22 434:22
	levels 396:24	liver 264:4 397:9	looks 246:24 283:1	
455:2,5,7,8,24			400:23 430:1	majorwho 440:21
legalisms 453:19	398:12,13	399:22 400:18,20		majored 385:2
legislature 333:5	Lewis 406:15	400:23 413:24	Lorca 443:23,24	majority 471:20
lengthy 279:11	Li 323:13,16,16	438:10 457:6	lore 441:14	making 277:18
Lessem 250:9	Liberal 363:21	living 342:6 399:16	lose 467:20	290:19 324:19
lesser 331:20	lie 470:12	399:19	losses 351:22	325:11 326:6
let's 302:18 306:21	life 392:23 396:7	load 306:15	lost 302:19 353:12	360:19 386:13
313:7 393:10	398:20 399:16,19	Local 339:13	368:24 401:19	making 467:24
417:2 426:17	406:22 444:16,24	long 257:15 271:3	lostwe 461:25	MAL 422:14
443:7 448:22	459:4,6 475:2	292:18 294:13	lot 333:13 334:11	440:18 441:11,12
453:2 456:6 460:6	lifespan 432:10	339:18,22 340:13	334:12 353:7	441:18
479:11 480:3	lifetime 351:17	349:20,20 362:18	367:11 408:6	man 365:17,17
letter 243:23	398:18 430:12	395:1 431:21	418:8 420:2	man's 253:19
253:20 254:13,17	light 392:14 405:5	436:19 452:14	422:18,22,24	manage 328:7
254:24 255:5,9,11	478:25	465:1 470:25	423:1 426:20	managed 323:9
255:14,17,19,21	likes 455:23 456:3	long-time 394:18	446:13 453:16	management 358:6
255:22 256:1,11	limited 466:7	longer 315:21	457:7 470:16	Manager 391:13
265:22 273:13,14	Linda 240:2 244:14	316:5,11 419:9	472:10,15 474:13	445:11
333:22 341:20	251:7 277:10	longitudinal 403:20	lots 456:10	mandates 306:24
354:2,6,12,14	344:19 423:3	look 245:2 248:17	Lou 250:9	mandatory 329:3
355:25,25 356:12	line 253:19 311:5	251:4,12 259:23	love 475:9	368:20 369:15
356:24 357:1,4,6	388:8 474:12	272:25 275:18	low 429:14 434:5	370:13 371:1
357:8 367:5	Lisa 239:18 343:15	297:20 309:24	ludicrous 397:16	372:17
372:20 395:5	list 242:19 321:23	312:1,5 316:20	lunch 329:18 331:8	manner 264:2
413:15 418:20	346:1,7 411:16	321:8 337:11,15		manuscript 287:4
420:15 427:13	418:22 462:13	347:9 393:25	M	manynot 461:21
462:19,19 463:5,8	464:2,6	395:19 401:10	M 240:2 457:12	manyso 304:17
468:9 472:22	listed 250:7 299:23	404:5 407:23	459:23	March 239:12
letterand 418:11	299:24 306:2,5	409:23 418:24	M.D 294:6	243:2 253:20
Letterthe 266:5	320:20 438:2	428:1,1 430:2	madeunder	254:13 255:5
letters 243:10	listedgenerally	434:2 436:10	389:16	258:12 264:18
254:7 266:5	306:6	439:6 444:2,3	Maeda 392:21	283:16 297:13,17
272:19 341:10	listedI 462:4	449:1 457:18	394:19	297:18 302:22
343:24 354:8	listening 301:21	459:4,6 479:11	magazine 242:11	321:8 341:22
355:2,4,17,24	listing 462:7	looked 267:22	402:24,25	354:2 356:12
356:5 364:14	literature 404:3	268:11 280:14	Magic 398:16	372:21 483:7
367:4,9 372:19	443:13,13	300:21 342:9	main 303:2 353:7	Margaret 361:4,7
373:4,19 423:21	little 251:18 260:1	432:8 437:22	440:21 475:10	361:23 468:8
462:22 463:19,22	324:21 328:22	441:24 450:18	mainon 353:6	mark 395:11
464:3,11	333:1 334:2	looking 255:4	maintain 257:1	433:23,25
level 262:5 273:8	406:21 433:21	282:4 311:24	262:17 356:17	marked 241:19
L				

242.1 200.16	407.0 412.20	270.25 292.5	262.5.264.10	200.1 206.22
242:1 308:16	407:9 412:20	279:25 282:5	262:5 264:10	280:1 306:22
314:4 370:2 381:3	415:21 419:8	283:1,2,13 287:16	266:2,20 267:2,13	463:6
383:1 401:24	427:7 432:2	292:15 293:3,21 293:25 295:3	269:19 276:15	mentor 265:24
403:2 407:22	434:21 436:3		278:2 281:2,18	266:6,8 348:11
413:11 417:11	442:15 447:2,23	304:6 323:3 335:3	285:15 287:19	370:23 456:18,20
422:3 433:12	448:20 456:24	341:4,24 342:16	294:8,13 296:3	456:21
458:14 478:5	462:5,22 463:20	348:1 350:14,21	305:24 308:4	mentored 456:23
markedthe	464:24 466:23	354:3 357:22	323:13,18 334:1	457:2
451:19	470:16 472:13	359:22 360:3,6,9	340:3,19,24	mentoring 265:21
masque 442:25	meaning 266:25	363:14 367:1	345:16,19,25	265:22 266:1
Master's 293:3	269:17 337:1	385:19 387:5,12	346:19 362:23	269:17 349:16
material 293:9	356:16 462:2	451:18,19 466:2	363:2,7,8 373:1	360:13 362:5
301:11 307:3,21	means 262:2	476:7 477:1	375:11 377:10	370:6,11,20,21,25
312:22 325:24	288:21,22 333:14	Medicine 337:1	447:19 448:3,12	371:2,4 445:5
326:6	344:13 352:1	Medicineyou	448:18 449:14,16	Mentzer 322:15
materials 248:6	356:20,21 375:25	362:18	450:8 453:14	merely 464:21
305:24 306:7	389:6 393:5	mediocre 429:14	456:11 465:4	merger 461:21
393:3 395:12	399:16 429:5	meet 252:13,19	469:11	merit 248:10,10,13
417:24,25	430:20 432:10	253:2 265:13,18	member's 252:5	met 246:17 249:1
mathematical	436:8 447:13,14	267:7 272:14	281:11 283:3	254:5 258:23
404:24	447:16,17 449:11	298:13 364:2	memberI 248:19	259:5,9 266:25
Mathematics 385:2	450:6 453:22	365:21 482:12,17	members 239:14	267:3 270:21
385:3	455:24	482:21	247:11 250:20	335:15 345:17
Matherly 346:3	meant 447:3	meeting 247:22,23	266:21 269:7	363:23 373:20
Matt 398:16	measure 287:2	250:24 252:15,18	271:1 290:8,25	382:9 384:7
matter 239:2,10	399:1,5	253:6 259:24	306:16 324:9	385:10 386:5
325:7 328:21	measured 350:25	264:17 266:10	332:18 334:8,19	metabolism 399:25
332:4,23 410:10	404:25	269:22 277:6	338:18 341:7	400:1
446:17	measures 272:15	346:20 363:24	342:10 343:24	methodology
matters 381:24	measuring 283:3	439:13 445:15	352:24 353:1,13	269:10
Max 395:4	meat 375:19,23	meetingwhat	354:3 357:4	MetroLaser 393:19
maybeI 451:12	mechanisms	283:4	359:12,25 374:18	mice 400:10,13,20
MD 458:18	295:16	meetings 243:22	375:13,15,20,20	400:22 401:1
MD/PhD 293:20,23	medical 250:15,21	246:13,13,16,20	378:2,24 462:4	404:16,16,19
MDs 406:25 459:9	294:3,6 325:1,2	251:3 253:24	463:13 467:6	406:2,6 420:23
mebefore 386:4	343:7,9,19 344:7	255:8 267:13	membership	421:1 436:19
mesix 304:22	344:9 345:3,4	343:22 345:9,11	376:16	458:23 471:17
mean 251:5 260:18	349:13 352:14	357:2,7 358:3,5	membrane 393:5	Michels 438:19
279:6,7,19,22	353:3 358:10,14	379:16,17 389:21	membrane-bound	Michigan 239:12
287:21,22 289:3	359:23 386:23,24	394:23 435:2,3,3	392:10	240:7,13 243:1
300:20,22 307:11	387:6 442:5	megapixels 393:14	memo 390:12	333:5 340:10,12
307:23 346:17	452:24 459:17	member 239:8	memory 297:18	341:2 389:13
348:6 355:9 356:1	medicine 239:4,20	246:17 247:25	430:14	483:14
376:7,9 382:9	247:14 258:5	248:2,6 251:21,25	mention 334:24	Microbiology
383:12 404:5	271:25 274:4,9	256:2 259:19	mention 334.24 mentioned 250:22	391:17
303.12 707.3	211.23 217.7,7	250.2 257.17	mentioned 250.22	371.11
	•	-	•	•

miawagaa 200.4 5	MI C 401.2	mana maldaa	namas 221.11	260.2 270.16
microscope 390:4,5	MLS 401:2	moremaking	names 321:11	269:3 270:16
middle 311:1 400:9	model 392:25	360:19	422:7 423:11	272:18 275:14
438:2	398:19	morning 243:8	426:14 457:21	286:2,15 295:25
miffed 395:7	modern 388:12	motion 330:2,7,13	462:8,9 464:9	296:9 297:2 298:2
million 399:23	modified 332:15	330:20,25 331:25	Nanjing 435:10	298:3 299:17
mind 371:6	377:24	335:17 336:4,7,10	national 256:13,20	301:5 302:21
mine 400:3 415:16	modulate 396:24	338:11,14,19	256:24 257:6,12	303:1,24 304:9,12
minimal 424:23	398:12 401:16	mouse 398:18,19	257:14 275:5,11	304:20 305:15
426:18	430:9	400:21 420:22	282:22 295:21	306:1,19 307:7
minimizing 367:12	molecular 303:19	421:4 430:12,13	340:18,19,22,23	311:7,16,23 312:2
minimus 348:5	388:13 389:2,4,12	432:6,10,11,12,17	340:25 455:15	314:18 315:5,19
minute 415:12	389:19 426:19,21	459:3	national/internat	316:5 319:11
448:15	426:23 427:6,8,20	mouse's 432:10	257:1	320:16 323:15
minutes 250:19	428:13,14 444:8	move 287:25 313:7	nature 242:11	326:24 328:9
251:4 253:5	471:8	328:10 369:24	270:18 353:17	333:23 335:25
329:21 482:21	molecule 393:14	393:16 408:12	402:17,18,20,23	337:6 352:11
mis-quote 274:19	397:19 398:7,8	425:7,9 426:17	402:25 412:1	356:13 364:2
mischaracterizat	moment 380:24,25	moved 387:2	431:4 436:11	367:5 370:24
419:13	422:1 433:9 456:6	movement 351:2	460:22	372:20 378:22
mischaracterizing	momentarily	movies 393:15	Navaka 443:14	380:12,16,17,23
379:8	349:23	moving 322:5	nearer 360:1	382:8 414:15
misconduct 465:20	Monday 480:5	MSO 397:5 399:25	necessarily 423:3,4	416:3 417:8
465:22 466:8,15	money 263:13	400:24 401:15	476:12	429:22 447:10
466:22 467:8	348:2 357:12,12	413:20 436:5		461:7 473:24
			necessary 329:3	
Misha 388:16	359:7,16 387:5,6	458:7	373:8 428:24	474:1 475:23
misrepresentation	387:9,13,15,17	multichannel 472:6	need 259:17 264:8	Needleman's 246:1
419:19	390:3,5 397:15	mumbled 435:17	264:12 334:15	256:15 265:10
missile 393:11	400:13,16 403:17	Munich 395:4	354:11 384:19	282:19,22 296:12
missing 250:20	421:13,14,15,16	Munson 250:18	390:4,4 393:11,12	296:20 297:12,17
Mississippi 467:13	421:19,21,23	343:14 353:4	407:15 411:3,3	306:15 309:6
467:13,14,15	431:16,22 433:3,4	376:22 379:5,11	433:3 455:4	310:12,17 313:23
mistaken 248:24	445:25 453:7,11	murdered 443:23	456:16 470:4,23	314:6 315:3
mistakenly 364:20	453:25 454:1	muscle 403:24	471:2,25 472:1	316:10 318:5
364:21	467:2 474:24	mutants 393:7	needed 359:1	322:5 324:1 328:3
mistakes 365:25	475:1	472:4,7	406:25 407:1	382:22
405:19	Monica 405:16	mutations 386:2,14	433:16 458:17,18	Needleman
misused 378:16	457:4,10 471:4	my 344:12	Needleman 239:7	356:16
MIT 388:15	monies 357:14	myon 279:10	241:14 242:7	Needlemanand
mitochondrial	monitor 293:1,6	myyou 418:21	249:8 252:13,19	286:11
385:25 386:2,3,12	Montalban 444:2,4	myselfmet 267:1	252:23 253:2	Needless 389:10
434:21 435:2	months 317:8,9		255:6 256:13,24	needs 440:15,16
mitochondrialist	359:2 421:5 435:1	N	257:11 258:4,13	negatively 352:21
388:5	Moore 240:12	name 250:6,21	258:22,23 259:1,3	negotiate 360:4
Mitra 391:9	moral 449:20	339:9 380:22	259:5,9,11 260:5	368:18
mixed 404:6	morale 367:17,20	426:10 439:11	261:20 268:24,25	negotiated 348:9
	ĺ		ĺ	~
I—————————————————————————————————————				

				- 5
348:14 368:10	142.2 10 444.11	note 258:12 267:23	273:11 277:14	occurs 401:19
372:7	443:3,18 444:11		341:13 342:21	October 383:15
	Nick 440:5,6,7	318:12		
negotiatedthey	night 331:12,14	noted 357:15	344:8 346:11	403:3 409:1
368:18	NIH 242:9 257:5	382:18	354:5 356:4	411:12 468:8
negotiating 340:3	347:11 358:22	notes 284:15	378:20 384:3	of 406:13 480:4
350:16	383:3,7,15 384:19	notice 372:22 373:2	390:15 412:17	ofthere 405:1
negotiations 340:9	396:14 407:6,11	419:10	416:5 419:17,23	ofthey 443:19
348:9 351:10	411:13 412:4	notices 341:5	425:11,17 454:10	ofusually 390:2
Neruda 443:16,20	413:6 436:12	notified 361:13	objected 277:24	offending 468:6
nervous 264:4	446:18 460:7	notion 396:17	344:24 382:6	offer 265:23 266:5
417:17	nitty 331:23	401:18 407:9	389:10	284:11 303:6,21
neurochemicals	no 379:9	409:24 411:5	objecting 419:12	320:5 321:9
398:14	noI 364:5	449:22 471:5	objection 267:20	333:22 381:13
neurological	noto 343:2	novel 274:23	267:23 272:4	384:1 402:13
396:22	noise 429:6 432:14	409:14 410:21	279:5 281:12	411:6 414:6
never 257:7 262:13	nomical 408:11	430:4,5	283:25 288:18	431:11 433:22
286:25 300:23	non-academic	novels 444:4	296:14 297:1	434:10
371:6 373:4	357:20	NSF 347:12 392:3	307:18 309:13	offerI 402:13
381:17 382:11	non-academics	394:22 408:24	312:8 313:2 316:2	offered 268:24
387:16,18 394:25	358:8	nuclear 386:2	316:13 320:22	272:1,17 296:3
410:7 414:4	non-equal 469:25	number 255:8	328:10 371:9	304:1 305:5,7,12
420:22 424:16,18	non-symptomatic	266:12,15 272:23	381:16 403:5	309:14 319:22
420.22 424.10,18	404:16	· · · · · · · · · · · · · · · · · · ·		
		276:21,22 287:10	414:8 434:15	381:24 386:25
429:25 436:4,13	non-tenured 282:1	306:5 313:18	472:23	387:12 388:8
442:13 450:18	282:3	314:24 340:5	objectionable	434:12 445:3
451:2 452:13	nonproductive	405:9,12 415:2	416:18	offering 315:19
453:14 454:4,6	254:4 421:13	422:8,9,9 453:1	objections 378:22	415:16,22
456:8	nonproductivity	464:6,8 469:17	382:18 434:13,14	offerings 293:12
new 264:21 288:3	257:16 258:14	470:11 478:11	obligation 258:21	324:20
288:19,23 289:4	270:25	numbers 310:2	obligations 448:19	offers 282:11
289:22 290:3,19	nonsense 407:18	319:19 406:2	observation 408:21	office 240:4 247:4
290:22 292:25	420:10 421:17	422:11,20 424:19	obtain 265:24	249:5,6 254:11
305:19 307:20	438:3 439:16	425:24 426:4	obtained 260:14	255:20 259:19
323:7,13,18	normal 386:5 474:1	427:3 429:6	278:1 308:24	280:4 296:5
325:24 358:6	not 445:23 469:18	457:16	309:3	297:20 309:2
367:22 368:1	notagain 448:15	numerous 254:6	obtaining 275:9	322:15 328:1
385:11,13,20	notcan 278:12	285:18 288:20	283:7	445:17
387:12 389:4,15	notchanging	474:15	obtains 247:24	offloaded 359:16
408:2,21 414:17	264:6	Nympha 388:14	obviously 301:10	oftenI 472:13
427:1 475:8 477:9	notmajor 386:24		428:14 445:24	oh 251:7 253:15
newly-created	notno 370:11	0	481:23	257:22,23 275:24
299:12	notshe 354:20	o'clock 331:13	occasion 318:9	277:25 280:17
News 402:20	notso 305:14	O'CONNOR	occasions 250:4	298:12 309:15,22
nice 388:24 404:18	notthe 382:6	240:15 483:11	occur 458:23	310:13 314:12
422:13 424:9	notthese 327:22	object 254:16	occurred 322:8	317:8 322:2
		_		
L				

				1 age 307
220.22.240.7.14	440.17 451.5 22	166.10	andoned 242.7	200.10 201.2
339:23 340:7,14	449:17 451:5,23	466:18	ordered 342:7	380:18 381:2
366:6 369:12	453:4 454:13	OneCard 470:23	organisms 395:19	382:23,25 384:16
370:9 390:18	455:12 456:15	ones 294:18 310:1	original 274:23	401:23 403:8
402:12,18 407:7,9	458:17 459:10,20	357:9 406:5	275:2 287:14	407:21 412:6
407:13 419:17	461:20 462:17	413:19 463:4	418:14,15,18	413:10 414:12
423:25 425:25	463:1,21 464:6,22	ongoing 276:5	Originally 394:13	417:10 422:2
438:9 444:23	464:23 465:2	287:15 466:16	Osaka 435:19	425:21 433:11
461:19 467:11,18	467:11 468:13	open 304:4 375:8	Osterheldt 395:3	434:17 473:21,22
469:14 474:3	470:5,23 471:17	388:21	other 459:21	475:16 478:4
477:3	472:4 473:19	opened 450:18	ought 349:3	482:23
okay 276:2 278:15	476:14 477:4,10	opening 329:17	out 411:11	P14359 240:11
289:6 291:19	479:4 480:7 481:2	332:22 338:20	outall 354:8	P35914 240:2
296:17,24 298:4	482:2,6	352:22	outif 405:7	packet 412:12,14
300:2,7 301:3	old 384:25 436:6	operated 366:1	outcome 267:12	452:16
302:6,17 306:6	oldin 399:14	operation 346:8	outcomes 253:10	Padua 400:4
308:13 320:15	old-fashioned	ophthalmologist	outrage 254:1,2	page 241:2 258:11
321:4 323:4	387:23 388:2	391:6	outrageous 331:16	258:11 275:1,17
329:16 335:18	old-time 388:5	opinion 312:5,11	outset 330:10	275:18 276:3,5
336:18 337:25	389:3	313:6 328:25	349:13	309:25 311:13
338:3 342:23	older 443:18	369:23 372:1	outside 325:8	350:1 369:21,23
356:6 366:23	omitted 419:4	373:7	388:20 442:15	417:22 424:2
367:25 369:10	422:7	opinions 250:2	443:4 444:6,9	442:3 454:15,20
372:14 374:17	onwell 396:15	opportunities	459:25 460:5	460:20 463:25
376:6 377:15,22	once 270:8 305:5	282:10	outstanding 287:23	464:25 469:3,6
378:12 382:17	305:12 336:20	opportunity 272:11	overall 310:23,25	pages 311:12,19
384:23 386:6,9	347:23 353:9	272:12 296:11	311:9,15	412:15 460:11,12
387:22 390:8	391:19 407:1	306:20,25 307:2	overhead 345:14	460:14 483:5
392:1 393:15,16	408:2 410:21	308:21 320:8	347:14 390:1,6	pagesI 311:12
395:7,12 397:2,7	419:9 420:3 428:7	321:12 322:4	400:16 433:4	pagesthis 369:2
397:17 398:7	434:6 436:21	331:7 445:4	overrule 268:3	paid 359:2 420:25
399:2,17 400:14	437:3 439:22	optical 472:5	272:8 278:16	Panck 395:4
401:4,20 404:9	445:9 455:23	option 248:21	308:7 320:25	panel 239:15,20
405:3 408:18	oncethat 449:19	252:9 325:5	346:15 371:17	302:20 306:21
410:20 411:5	Oncology 345:17	368:21 379:1	382:18 384:13	337:8 353:25
414:24 415:7	345:17,23	options 256:10	412:24	362:24,25 363:1
416:22 417:9,18	one's 264:6 282:25	273:22	Overruled 278:10	365:3 374:17
419:2 421:10	399:16,19	optogenetics	284:4 289:6	384:11 416:6
423:7 425:18	one 476:20	393:21 394:15	425:18	468:2 481:2,14
423.7 423.18 427:9 429:15	Onego 476:2	395:9	oversee 292:25	Panel's 480:21
	onego 4/6:2 oneneither 257:8	or 304:25 387:20	UVEI SEE 292.23	
431:6,15 434:11	oneneither 257.8 onewell 440:4	orI 395:15	P	paper 286:25 397:1 400:10 401:9
436:16 437:2,11			P.C 240:12	
437:12 438:3	one-hour 305:16	oral 479:2	p.m 329:25 338:7,8	406:3 428:3
439:23 442:14	one-time 466:7	order 253:6 257:1	339:5 370:1	438:10,15,22,23
443:11 445:11	one-year 466:12,13	329:3 423:7	371:22 380:2,6,7	439:11,12 457:6
448:7,11,22	one-yearhe	454:21	3/1.22 300.2,0,/	458:21
	I	I	I	I

papers 386:19	381:18 382:12	pattern 406:5	439:10 442:2	persisted 391:15
397:7 399:21	469:1.8	patterns 404:14	443:3,12 444:11	persistently 348:17
400:17 401:4,8,10	participant 293:9	pay 442:11	457:21 460:4	person 268:1
404:20 413:20,20	participate 248:2	paying 445:25	461:1,22,25 462:9	342:19 352:8
413:22 418:4,5,6	248:12,13 252:8	pdf 481:14,23	462:18,22,24	361:12 376:20
419:5,6 420:12	389:22 441:22	peer 275:7 335:13	463:20 465:14	377:5 409:11
422:10 428:1,1	participated	335:20 336:12,18	people's 378:17	481:22
429:16,19 430:1,2	264:24 282:15	337:7,10,24 350:4	416:12 425:14	personal 247:10
430:5,6,21 431:2	participating	351:13 352:16	435:23	316:9 383:10
431:2,10 432:4	276:25	374:2,4,6,7,12	perceived 308:4	428:17
433:7 438:5 457:9	particular 245:12	peer-reviewed	percentage 387:8	personality 428:24
457:10 458:3	250:3 259:12	275:3	peremptory 335:22	personally 250:19
464:8 471:3 475:5	306:14 308:20	peers 336:17	perfectly 431:22	252:13 265:1
papers 429:17	310:5 311:7,24	337:11	434:6	286:14 317:15,17
paragraph 273:3,7	324:10 345:19	Pellet 391:18	perform 260:5	328:2
275:19 372:10	350:19 359:19	penalized 453:14	261:10 262:11	personnel 246:1
449:2 465:1	404:15 408:25	penalty 249:2	273:19 333:12	302:9
parallel 303:18	410:12 436:13	pending 363:14,18	334:5 335:25	Ph.D 239:7 292:25
paramet 303.18	439:18 448:17	Pentagon 393:17	349:7	294:6 303:7 435:8
paramount 348.4 pardon 271:22	465:13 469:3	393:19	performance	phase 303:12,13
309:23	471:7	people 243:11	252:14 268:16	phases 303.12,13
	particularly 253:18	254:5 298:12	269:1 310:17	PhD 294:2 456:23
parenthetically 465:2,3	338:22 341:23	299:20 309:3	331:21 335:7	457:12
_	358.22 341.23	331:20 333:16		PhDs 456:23
pariah 353:20 Parisi 342:2,2	433:24 468:5	336:13,15 341:10	343:5 350:5,7 369:18 445:17	
364:23 399:12		342:5 343:12		phenotypes 441:14
462:2,3	parties 332:11 388:20	345:12 346:2,13	455:21 463:3,17 474:21	phenylbutyrate 397:3 401:16
	parts 256:16	347:8 348:19		413:20 430:15
park 472:14,15,15 472:24	412:19		performed 260:24 261:20 262:12	458:3
		349:1,7 350:24 351:16 353:21	444:14	
parking 472:15,16 472:16	party 386:6 465:15 466:3	356:23 358:8,10		phenylbutyrate 458:2
Parrish 241:11	pass 381:1 397:24	358:25 359:2	performing 253:21 262:8 335:9 349:2	Phil 391:17 465:23
338:24 339:3,4,10	1			
345:5 349:24	passing 351:5,5 Pasternak 399:14	360:20 361:20,23	349:3,4	philanthropists
		362:13 363:23	period 257:15	443:19
354:23 356:11	patent 394:24,25	374:8 375:24	259:10 270:24,24 271:3 286:4 294:5	Philip 239:22,22
364:13 371:13	395:7,8	376:17,22 386:9		phonetic 244:13
372:20 379:24	patented 395:5	388:18,21 389:10	320:6 324:10	267:1 287:12
part 245:19,20	patient 404:12	389:11,15 399:23	342:2 348:9 350:9	315:24,25 346:3
250:13 251:22	437:1	401:19 409:17,25	361:9 381:25	347:13 388:4,14
254:12,22 256:4	patients 334:3	410:1 413:23	385:21 394:1	388:15,16,17
260:4,12 299:6	398:25 403:20,22	418:10 422:16,20	418:23,25	391:18 398:17
327:4 331:10	403:25 404:5	422:24 423:1,15	periods 262:22	400:19 405:1,22
335:21 343:23	406:16,19,22	424:16 426:12	permanent 393:11	406:15 408:12
346:22 352:17	407:1 458:18,22	429:6 434:2	permissible 372:17	410:20 442:21,22
358:21 370:5	459:6	435:11 436:7	permit 264:2	442:25 443:1,14
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

443:16	platelet 295:11	371:25	preceded 336:6	President 249:21
photons 392:14	pleading 415:4,19	portions 481:16	precedent 329:10	258:25 259:7
393:5	416:1	posed 270:4	336:5	260:8,10 261:4
photopigments	please 244:15 245:2	position 252:6	predicate 369:15	272:20 294:22,24
395:19	251:12 257:18	258:7 259:12	predict 459:3	330:22 332:6
phrase 285:3 295:2	258:11 266:16	291:6 292:18	preferred 387:13	336:14,20 337:17
329:8 430:18	272:25 277:11	294:19 324:14	preliminary 268:18	337:20,22 339:12
		339:11,20,22	268:19,19 291:9	339:21 340:12,14
phrasing 355:22	289:13,15 330:4 335:20 339:9		307:9 410:6,7	,
physical 389:15		340:21 350:22	,	341:2 343:8,13
Physicians 343:16	349:9 380:22	386:25 450:1	420:21 436:18,20	349:17 353:2
physics 385:3,4,6	381:6 387:21	454:6	446:13	360:12 361:10
394:11	407:23 408:17	positions 293:16	prep 325:20	364:2,6 365:20
physiological 399:4	414:14 424:9,22	294:16 339:24	preparation 306:2	374:14,14 378:23
Physiology 293:13	425:9 433:10	340:10,17	306:4,4,8 320:13	President's 349:18
293:19 294:20	440:7 445:2	positive 267:17	321:23 325:25	President 343:6
295:9,15 303:20	pleased 365:22	319:23	326:11 469:16	pressure 343:19,20
Physiologyour	plural 243:21	possession 246:19	preparatory	349:1
293:12	plus 277:4 312:18	246:22	325:13	prestige 439:5
PI 392:3	381:24 441:19	possibilities 363:18	prepare 244:18	presumption
Pianist 444:2	453:2,3	possibility 353:19	245:4,5 255:21	387:16
picked 420:22	poem 399:15	375:21	326:9 327:13	pretentious 439:9
picking 353:13	point 243:12	possible 332:6	332:5	pretty 331:15
429:6	301:16,24 303:2	344:2 351:20	prepared 245:8,9	347:15 358:11
pieces 368:25	320:1 324:25	352:25 394:24	245:11,12,14	398:21 405:24
piggyback 406:24	331:2 349:9	449:13 482:5	326:10 349:18	prevalent 441:7
pigment 394:12,13	395:10 400:7	possibly 258:16	360:13 381:8,17	444:7
pixel 393:14	430:22 432:9	post-doc 359:7	383:13,14,15,16	prevented 385:22
place 267:20 272:4	451:1 467:16	385:18	384:4 411:13,14	previous 258:17,17
272:15 288:18	472:3 474:20	post-Franco 444:5	preparing 326:3	263:3,7 279:1,3
323:1 324:4	point 377:20	post-hearing	452:16	283:9 285:10
379:15 381:16	pointed 361:11	382:20 425:19	preponderance	361:10
393:23 421:24	policies 332:14	479:5	330:17 332:9,21	previously 243:4
429:3,11 440:1	policy 340:24 350:3	post-Modern	332:25	283:10 317:12
454:22 457:23	polish 456:16	442:20	prerogative 325:9	prima 330:16
459:23,25 462:12	polishing 437:20	post-tenure 279:4,6	479:3	335:15
place 346:20	Political 339:12,15	279:8,18,20,22	present 264:10	primarily 358:8
placed 265:21	339:25	350:22,24 351:2,6	295:8 345:12	primary 289:18
266:11 267:11	polymerase 392:8	potential 267:4	347:24 357:3	292:23
places 345:14	poor 262:20 263:8	potentially 266:23	358:4 433:8	primaryand
437:17,23	269:1 307:14	practical 405:3	453:10 460:2	268:22
plan 343:16 436:21	471:15	practically 318:14	presentI 256:1	primaryin 291:8
437:2	portfolio 247:16	practice 325:21	presented 245:19	primary-in 231.8 primates 397:23
planning 415:22	portfolionot	343:16	345:20	prime 291:4 439:1
plans 280:4	247:16	pre-charges 297:2	presenting 304:21	principle 362:16
plasma 406:6,17	portion 315:15	pre-grant 437:13	presenting 304.21	principle 302.10 prior 249:17
piasina 400.0,1/	puruun 313.13	pre-grant 43/.13	presents 304.20	PLIUL 447.17
	1	1	1	1

				<u> </u>
252.15.257.6	260.11.420.16	1 262.15	200.6.210.16	451,20,452.6
252:15 257:6	360:11 430:16	produce 263:15	309:6 310:16	451:20 452:6
263:4 264:18	procedure 269:23	271:14 275:15	314:6,18 315:5	477:2
285:23 286:9	331:11 334:21	276:14,15,17	316:5,10 319:11	prone 357:25
287:22 297:13,17	362:7 363:10	290:10 354:25	320:16 322:5	proper 405:20
297:18 302:15,18	367:23 368:1	produced 283:19	323:16 328:3,9	properly 404:11
302:21,22 303:10	370:11,20,21	345:21	333:23 337:6	428:3 431:3
311:16 321:3,8	394:24 395:6	product 421:20	339:12 346:2	proposal 361:10,11
327:6 339:24	423:17 440:1	443:4	352:11 364:13	361:13
360:23 362:17	procedures 405:20	productive 252:25	367:5 370:23	propose 410:7
372:25 381:25	423:16	255:15 264:13	372:20 382:8	proposed 314:1
384:6 462:2	proceed 302:13	265:17 269:7	389:7 416:2 419:1	316:23 317:4
476:20 477:17	313:14 329:17	271:13,24 286:10	421:10 423:4	324:4
481:4	338:16	289:19,20 291:1,2	424:4,13 442:18	prospect 264:21
privilege 288:7	proceeding 239:1	445:22 446:6	447:10 451:24	270:13
prize 395:11	329:2,5,11 332:3	productivity	452:3,4 461:7	protected 352:3,4
probably 287:11	338:23 369:17	265:20 266:22	465:21	protection 351:17
331:13 354:20	374:21 381:19	273:4,6,8,24	professors 284:8	352:18
358:22,22 373:8	431:23 462:10	274:2,5,6 276:12	306:14 334:9	protects 351:23
383:15 393:25	463:10 477:18	276:13,20 283:3	358:9 389:9	protein 388:2 389:3
396:16,19 397:1	proceedings 239:9	283:11 284:23,24	401:11 422:8	426:22 427:9
400:15 403:3,23	337:4 341:19	285:1,4,12,16	423:12,16 443:18	428:12,12 444:9
405:24 424:16	362:20 477:13	287:20 288:4,4,12	462:7,12 464:2,9	proteins 392:7,12
428:11 429:19	483:6	288:16,19 289:17	program 244:11	protocol 399:11
430:6,8 435:20	process 243:9	290:21,24 298:13	268:2 274:10	proton 392:4,5,9,15
450:24,25 451:1	247:20 250:3	343:4,20 344:1	276:3 282:4 293:3	392:18,24
458:8 460:4,13	252:2 265:11,12	356:18 357:11,15	293:5,13,20,23,24	protons 392:15
469:12,14 470:6	265:13 266:7	357:20 359:8	294:3 303:21	proud 405:21
470:25 478:25	293:1 300:15	364:17,19 401:11	304:5 319:12	prove 423:7
probablyAmru	323:12 335:11	products 386:14	program 296:21	provide 358:15,19
457:6	336:16 341:8,9,22	430:23	programs 292:17	455:9
Probablyas 317:5	343:23 348:12	profession 333:15	292:20,22,24	provided 256:20
probablyI 408:25	349:16,21 352:17	334:17	294:2 295:24	307:3 337:9 384:6
Probablyit's	352:18 360:14	professional 281:4	296:1,13	402:2
403:2	362:5,12,14	281:9 334:7	progression 399:2	provides 252:6
problem 263:15	368:20 375:10,12	348:12 372:8,9	399:6,8 459:6	providing 250:1,1
269:11 335:21	375:22 376:8,9,10	442:8 449:7	prohibit 336:4	341:3 421:15
347:24 352:16	376:13,14 377:6	professionals 281:7	project 271:19	province 333:21
358:24 359:9	377:10,16 378:13	334:4	390:3 396:15	provision 331:25
366:7,7 368:11	378:14,17,25	professor 262:5,24	446:12 458:20	350:7
392:24 398:24	382:12 400:25	274:8 275:22	460:3	Provost 361:4,7
409:14 411:22	403:11 452:3,6	282:19,22 293:19	promotion 242:23	Provost's 249:5
443:17	467:5 474:17	295:25 296:9,11	244:9 249:7	psychologically
problems 263:17	processprocesses	296:20 301:5	259:23 273:25	412:2
265:19 349:13	378:16	302:21 305:15	275:22 276:11	public 280:6,12
351:23 359:17	processes 244:5	306:1,15 307:6	283:13 357:18	359:11 385:19
	F- STEERS Z 11.0	300.1,13 307.0	200.10 007.10	307.11 300.17

				Page 511
	I	I	I	
publication 265:16	pursue 391:22	356:7,10 358:2	ran 428:10 456:1,7	373:15 385:3
268:11 271:14	purview 249:12	365:12 366:8,19	random 404:4	387:24 393:20
287:5,6 418:16,19	put 268:17 272:15	366:20 367:8	464:5	395:25 407:14
419:4 436:13	310:25 311:8,17	369:21 412:9,11	range 307:11,13	408:7 418:9 420:6
publications	312:3 327:25	418:9 419:25	314:25 358:23	433:23 435:14
242:15 263:18	345:25 348:17	422:19 425:23	ranged 315:3	454:1 459:19
264:3,22 269:13	353:25 357:13	433:6 435:25	rank 276:16	468:16
270:8 274:11	359:6 390:5 411:4	446:3 447:17	rapid 393:9,12	reappointed 465:6
275:2 276:21	412:15 413:16,18	448:16 454:14	rate 307:4	466:2
286:24 291:10	413:19 423:19	455:7,10,11	rated 310:24	reappointment
413:16,17 414:10	433:17,18 435:15	458:22 461:6,6,13	311:15	466:14
418:22 419:3	437:21 439:7	462:10,17 473:3	ratings 307:10,11	rearranged 303:15
421:3 438:1	451:16 456:15	476:16 481:14	Ray 388:3,6,9	reason 252:22
publicity 254:7	470:11 477:23	questionso 476:11	Re-Cross 241:6	253:2 255:2
publicly 359:20	481:19	questioned 282:14	284:19	347:12 352:12
publish 257:3	put 288:6	questioning 447:4	re-joined 295:2	372:25 373:24
287:7 391:22	puts 372:21		re-state 263:14	384:4 387:18
	1	questions 268:10 279:21 280:18	re-write 411:3	437:21 438:5
414:4,5 421:9	putting 358:25 375:24 390:1			
431:21 432:4		314:13 322:1	reach 270:17 362:1	457:22 459:13,16
440:23,25	440:1	323:21 328:13	read 245:24,25	471:14
published 286:25	pz 483:14	365:15 366:18	253:5 275:19	reasonable 332:24
287:3 353:15	Q	368:2 379:18,22	277:8 331:11	337:2 361:8 449:5
414:2 419:11		395:14,16 439:13	369:19,20,22	474:22
420:12 429:23	qualified 410:2	446:20 455:6	370:5,18 378:5,11	reasons 333:10
432:22	qualify 257:5	474:7 475:23	401:20,20 402:8	442:12 459:18,19
publishing 261:21	qualities 423:7	quick 277:13	404:20 428:3	reassignment 323:8
261:24 264:1	quality 422:10	quickly 284:16	429:17,19,20	rebuttal 242:17,21
268:12 432:23	426:12 434:3	402:12 457:18	430:2 431:9	329:15 330:9,14
436:21	quantum 385:7	quit 467:9,9,12	437:14 440:7	338:21 401:7
pull 313:23 341:12	Queen 442:24	quite 253:15	442:3,4,8 449:2	414:15,19 417:7
403:1	question 255:17	268:25 269:21	452:13,16 482:11	417:12 424:2
pulled 299:21	261:16,17 263:14	356:25 361:5	reading 274:25	431:23 433:16,18
307:6 319:24	265:1 268:4 270:1	388:18,24 392:5	275:1 309:13	434:12 460:24
321:7	270:3 272:5,9	422:17 465:1	377:22 449:4	464:1,25 475:24
pulling 320:9	279:13,15 281:14	quitting 467:11	455:12	recall 244:3 248:17
pumped 392:15	282:17,24 283:12	quote 356:14	ready 326:7 330:1	254:22 256:3,6
punitive 362:7,10	284:22 285:2,6,8	418:12	380:9 412:2 437:8	266:12,15 270:3
pure 298:11 301:14	287:24 289:7,7,9		446:23 451:12	272:23 289:12
purple 392:13	289:11 296:18	<u>R</u>	479:9	290:23 307:19
393:5	297:18 300:12	raise 248:8 263:13	real 438:11 459:6	314:24 354:23
purports 433:15	307:9 310:16	292:3 339:1	459:19	361:3 362:6,11
purpose 300:3	321:1,5 322:2	380:14	reality 270:23	receive 294:6
418:2 421:9	326:2,17 327:10	raised 368:16 369:4	realize 442:1	295:20 296:4
purposely 422:7	344:14,21 347:1	369:7 371:15	realized 433:16	328:2 394:1,5
pursuant 370:24	355:9,15,19 356:4	raising 371:14	really 348:7 352:8	420:14 479:14,23
_				ĺ

				<u> </u>
receiveas 248:17	377:2,3 379:11	reduction 453:15	422:23,25	482:1,12
received 241:19	recommended	refer 286:16,22	released 326:20	reported 240:15
242:1 254:7 278:3	249:20 350:2	338:21 469:3	relevant 278:7	326:11
308:16 309:14	recommending	refereed 242:15	400:8 460:22	REPORTER
319:9 333:23	258:25 276:7	414:2,4,5,10	472:18,20,21,25	257:21 394:4
341:5,10 357:4,5	record 251:10	reference 273:24	477:12	406:10 444:21,24
367:6 371:23	255:4 262:18	374:2	reliance 307:20	446:2,5 478:3
372:21 382:24	265:16 268:11	referenced 373:1	relied 297:8 298:14	479:10,20,24
384:17 386:15	269:1 277:13	references 350:6	298:24 300:15,18	483:1
403:9 412:7	278:13 288:19	referred 255:11	300:24 302:1	represent 288:8
414:13 417:11	289:3 291:10,22	295:18 319:14	307:25 313:6	309:11 344:4
423:21 425:22	297:6,13,17 301:2	342:9 363:5	reluctant 350:18	345:16 363:9
434:18 439:24	302:23 326:25,25	referring 274:20	rely 429:25	433:15 445:12
463:5,8,21 464:11	327:1,2,3 328:23	298:1 325:18	relying 332:21	representation
464:13 478:5	329:25 330:2	417:4 419:15	remain 332:17	341:3,7 376:19
receives 290:1	336:17 338:8,10	423:25	378:1	representations
receiving 328:8	339:9 357:15	reflect 449:6	remains 378:14	468:1
recess 291:21	380:7,9,22 390:16	reflected 244:19	remedial 362:7,8,9	representative
329:24 330:5	391:3 402:19	386:20	remedies 368:10	445:13
338:7 380:6	418:13 419:1	refresh 321:12	remember 253:6	represented 368:13
473:21	420:13 436:16,24	refreshing 326:6	253:16 255:10	representing
recipients 307:1	473:22 479:2	refuse 428:8	272:24 285:4	391:13,21
recognition 275:6	record 277:19	refused 427:17	289:8 362:3	represents 391:20
282:8 434:7,8	recordI'm 277:22	428:9	457:21	413:14
435:25	recorded 325:16,17	regard 244:6 266:9	remembered	republicans 443:20
recognize 448:3,8	recording 262:15	331:16 335:14	253:15	repurposed 297:24
448:11 456:10,18	396:6	350:14 373:25	reminded 349:19	reputation 256:14
461:7,20	records 243:18	402:4 406:13	reminding 361:6	256:21,25 257:2,5
recollection 321:12	297:5 299:6,21,22	408:1 425:15,17	removal 467:18	257:6,7,12,14,14
354:16	299:24 300:15,18	463:25 469:9	removed 467:12,16	282:22 353:22
recombination	300:20 302:9	regarding 252:14	rendered 301:18	420:6 423:1,2
385:16	303:1,25 304:20	317:24 318:5	302:1	424:5,6 464:22
recommend 249:8	306:3 309:1 314:5	350:23 394:8	renewed 468:11	request 283:19
249:16,18 265:23	320:10 321:3,7	445:8,17 446:6	reorganization	307:17 317:10
266:1,8 282:16,18	327:22,25 328:1,1	463:2	318:7	322:11,14 327:14
372:12	416:12 468:21	regardless 413:23	reorganized 297:23	402:2
recommendation	recruited 385:12	regional 398:15	315:14,17	requested 323:7,14
249:11,22,23	recruitment 323:8	regular 283:21	repeat 266:3	require 265:23
259:7 260:7	323:16	regularly 267:7	289:10,13 326:3	282:7 387:7
267:18 330:22	redacted 321:10	reiteration 410:19	rephrase 281:14	required 247:8,11
336:21,25 337:17	redirect 241:5,10	reject 410:5	285:9 296:18	248:6 251:24
337:21 360:23	241:17 280:21,23	relate 318:20 422:6	356:7,9	275:3 281:24
362:2 374:13,15	280:24 327:19,20	423:6 428:22	Replace 476:9	295:20 304:3
recommendations	474:9,10	related 250:12	replete 415:23	374:5 383:23
267:15 361:24	reduce 398:2,3	relates 308:17,19	report 267:8 332:5	450:16 452:20
		l		

		_		
455:22	439:18 449:7,12	417:10 422:2	retired 388:10	rid 426:21
requirement	452:17 457:14	425:4,21 433:11	retreats 359:21	right 244:3 249:3
248:25 249:4	458:20 465:20,22	434:17 460:6	return 294:3	251:9,11 255:16
251:22 325:16,17	466:8,15,21 467:8	461:4 477:24	349:23	260:11 266:13
325:21 442:1	471:23	responding 416:9	revealed 320:11	272:22 273:16
451:4 452:22	research 271:6	respondingwho	reversed 346:1	274:18 285:6,11
454:25	researcher 323:19	307:16	review 243:16,17	286:22 292:3
requirement	researcher's 475:2	response 277:24	247:9,10,17	310:25 321:14
451:6	researchers 348:3	290:9 331:9	264:24 279:4,6,8	327:10,16 328:16
requirements	352:3	335:19 342:14	279:18,20,23	329:15 330:24
261:1,7 262:19	reserve 329:15	349:18 428:6	282:1 296:11	337:6 338:6,17
275:21 281:25	377:8	431:23 436:1	308:22 309:4	339:1 341:8
336:1 385:4 455:2	resides 447:20	437:25	320:9 326:14,15	344:25 345:1
requires 251:20	resign 467:20	responsibilities	335:11 336:12,18	347:23 350:11
283:7 287:16,17	resigned 467:17	292:21,23 295:12	336:24 337:7,10	354:1 355:14
325:24 332:23	resigning 467:18	447:12 448:12,13	337:24 342:7,8	361:6 364:25
383:7 403:19	resonate 257:25	448:18,23 449:10	350:5,22,24,24	366:18 370:18
research 256:16	resources 389:24	449:15	351:3,6 352:17	371:19 374:23
264:15,21 265:2,4	respect 299:16	responsibility	361:2 367:13	380:14 381:8
265:8 266:22,24	336:1 349:9	244:8,9,10,21,22	372:9 374:2,4,6,7	383:25 390:25
267:6,7 269:13	353:22 365:5,18	244:24 247:6	374:12 409:8	403:6 410:23,25
270:5,12,13,14,18	366:2 378:22	265:6 278:23	429:24 441:23	411:6 415:6,10,15
271:13,19 273:6	406:8 445:22	282:8 283:17	456:13,15 469:9	417:6 424:21
274:8,10,11,22	Respectfully	306:19 325:11	reviewed 302:8	426:2,2 437:24
275:4,8,15,22	257:11	353:24 442:8	376:1	446:24 451:9
281:20,21,23	respective 324:21	responsible 265:4	reviewing 264:17	457:14 461:24
282:12 284:7	respond 298:20	278:18 295:19	318:7 337:8	462:3 465:25
286:4,24 287:5	331:1	341:21 377:5	reviews 307:25	468:22 470:21
292:16,19,22	responded 310:5	responsive 349:22	409:3,4,6,17	473:25 477:14,19
294:23,24 295:6	351:11	rest 269:5 284:10	450:13	479:9
295:19,23 323:2,6	Respondent 239:8	288:9 390:6	revise 284:25	right-hand 310:4
324:25 333:18,19	240:14 277:11	397:25 475:20,21	revised 259:17	rights 378:17,23
333:25 336:14	380:24 382:21	rests 329:14	458:15,16	447:11,25 448:4,5
347:21 352:2,7,11	383:2 407:23	result 275:4 345:24	revision 440:15	448:6,8,9,10
352:13,13 385:20	413:12 417:2,15	346:4	revocation 349:20	rigorous 274:23
389:17 390:12	422:4 433:13	resulted 243:10	353:5 361:12	Riluzole 406:20
391:3,22 393:21	Respondent's	results 345:20	374:9	Robert 391:6
394:9 395:10	242:6,8,10,12,14	377:19 437:2	revoked 449:19	Roberta 244:13
400:14 402:5	242:16,18,20	resume 278:8	Richard 239:7	role 243:9 266:17
403:10,15,17,18	330:6 349:24	382:10	241:14 297:24	295:23 322:23
403:19 406:25	381:2,4,13 382:23	Resumed 241:3	298:1 380:17,23	324:17,19 430:15
408:1,2 418:14,15	382:25 384:1,16	retain 291:5	407:13 417:8	442:24
418:18 421:11,14	401:23,25 403:7,8	retinal 392:12	420:2 474:2,12	rolesI'm 322:3
429:13,14 430:17	407:21 412:4,6	435:3	Rick 406:15	room 395:21
431:5,17,20 437:7	413:10 414:10,12	retire 441:18	Rico-Ferrer 239:17	roomso 334:12
, , , , , , , , , , , , , , , , , , , ,	,			

Rosemary 443:1	451:15,17 452:25	310:4,23 332:2	345:3,4 348:1	306:23 307:6,10
Rosen 322:12,13,14	452:25 453:3,5,9	337:18 349:6	349:13 350:13,21	307:20 309:7,11
323:14 388:10,11	453:15 454:2	365:4 367:22	352:15 353:3	312:6 313:23
391:4	455:5,9 469:9	370:15 372:11	354:3 357:22	314:19 315:1,2
row 348:23	Salary 248:22	374:11,16,16,19	360:3,5,8 362:17	316:17 317:24
Roy 343:6	Samiran 239:23	374:19 384:4	363:13,20 367:1	318:5,15,20,23
rule 338:15	sample 311:14,20	387:8 397:9	367:18 374:13	319:24 326:14,15
ruled 329:2 369:2	samples 403:20	399:15 418:15	384:23 385:1	326:20 327:6
rules 385:15	404:12	439:4,5 450:10,11	386:23,25 387:4,5	425:14,23 429:2
ruling 320:5 329:13	sampling 406:19	452:25 461:16,20	387:15 388:20	451:15
371:25	Sanction 249:3	469:12,13 482:4	442:5 451:18,19	scores 313:1
rumor 342:19	sanctioned 248:7	saysmy 440:9	452:7 453:25	scoring 310:1 311:2
run 404:13 428:9,9	sanctions 248:1,3,4	scale 393:12 424:15	454:1,7 459:17	357:19
428:15,19,21	248:5 348:6,17,23	434:4	465:6 466:1	Scott 239:11 322:6
456:8	349:5 360:20	schedule 363:15	467:25 476:7	search 425:13
runhow 428:7	Sanders 384:24	scheduled 363:16	477:1	426:7,8,11
running 353:3	436:8	scholar 378:19	School's 275:13	seat 474:1,1
430:19	Sanino 244:13	425:12	357:18	second 261:17
Russia 388:17	Sarkar 465:13,21	scholarly 273:6	School 344:7	273:7 303:13
Russian 399:15,18	468:9	274:11 357:24	schools 358:14	363:4 370:5
	sat 243:19,22 344:3	431:2 450:9	359:23 387:6	381:15 401:22
S	362:25	456:13	452:24 453:7	410:22 423:19,24
sabbatical 248:20	saw 252:22 253:1	scholars 334:10	science 303:16	445:2
324:11 385:22,22	264:2 268:25	421:20	339:12,15,25	section 315:9,9
400:5	279:2 331:8 347:8	scholarship 283:5	386:4 394:21	349:5 360:16
safe 421:18	373:4 390:9 418:3	284:24 285:7,13	430:7 457:1 475:6	372:8 389:12
sake 480:3	sayJack 456:2	285:16,20,21,23	475:10	421:8
salaries 348:3	sayso 261:9	287:8,9,15 288:12	Sciences 295:4	sections 315:8
357:13 358:25	saying 259:10	289:17 421:16,19	303:8 363:21	secured 270:9
359:3	269:6 273:2 325:9	421:20,21 433:24	scientific 465:7	388:6
salary 244:11,25	326:9 334:14	451:21	scientist 286:3	see 243:8 255:3
245:1 247:5,9,10	341:11 343:24	school 239:4,20	287:11 420:6,7	258:15 269:10
247:21,23 249:10	354:7 365:12	247:13 254:9	423:5 424:20	271:23 284:13
262:20 263:1	375:25 377:16	258:5 261:7	448:14	285:11 287:4
276:3,7,24 277:1	382:5 390:16	265:25 266:7	scientists 431:7	310:3,14,23 312:2
277:4 282:4	411:19 413:23	269:6,8 271:25	439:6	337:23 371:12,18
298:23 299:7	418:3 424:8 434:9	274:4,9 279:25	score 277:1 296:6,7	377:18,21,22
300:24 307:25	442:7 453:13,17	282:5 283:1,2,12	307:13,16 310:6	395:25 401:7
335:11 342:6	454:3 466:1 470:3	287:16 292:15	315:3 429:9,9,10	404:13 423:11
345:22 348:11,24	470:12 477:20	293:3,14,20	scored 252:7	425:16 426:14
349:2 358:16,20	sayingI 376:9	294:25 295:2	scores 241:21 242:3	428:20 457:10,25
358:21,22 359:5	says 252:10 262:13	304:5 323:3 325:1	262:21 263:1,6,8	470:18
387:10,17 429:3,8	273:8,14 274:16	335:3 337:1 341:4	276:24 277:4	seeand 342:9
429:25 441:23	274:21 275:20	341:24 342:16	299:2,10 300:5,6	seeing 334:3 382:13
442:13 450:13,20	276:3,5,13 302:4	343:7,9,19 344:9	300:21,25 306:21	seek 313:1 334:9
	I	l	I	I

336:8	439:15	327:5 378:13	shows 458:21	situation 288:14
seemingly 394:3	sense 285:9,12,17	396:25 432:7	464:21	362:17
396:21 452:18	460:18	448:23 478:20,22	side 292:24 363:20	six 259:9,13 304:21
seen 273:1 279:1,2	sent 243:10 255:11	sets 259:22	sign 387:7 452:24	304:24 305:1,8,15
348:11 355:7,17	255:14,18,22	sets 239.22 setting 334:2	sign-offs 413:7	306:19 310:19
355:24,25 356:2	343:24 354:8	seven 303:16	signaling 279:16	314:9,21 375:12
356:23 357:8,9	355:3 357:1	437:16		375:15 399:23
466:3,4 468:17	364:14 367:4	sex 420:23	signed 258:12 278:6 359:10,11	437:16 473:11
_			359:14	
selected 254:24	373:19 390:12	Shanghai 435:10		sixhas 304:21
Selective 244:11,25	395:5 405:18,18	shape 273:9,15 share 295:8	significance 274:24 326:8	six-page 437:13 sixth 432:22
245:1 247:4,8,10 247:21 248:22	441:25 468:9			
	sentence 273:5	shareI 295:7	significant 283:23	size 311:14
262:20 263:1	285:17	shared 325:11	286:3 406:3 438:1	skilled 333:15
276:3,7,24 277:1	sentences 445:10	shares 326:22	significantly	skills 282:12
277:4 282:4	separate 315:8	Sharon 427:12	325:25	skip 451:10
298:23 299:7	324:14 325:1	shewell 379:12	similar 253:23	skipped 451:10
300:24 307:25	373:10,10	sheets 310:2	290:16 311:20	slide 446:25
335:10 441:22	Sepia 388:4	Sherry 480:15,16	319:18 392:12	slides 435:15
450:13,20 451:15	September 350:1	481:19	simple 298:12	slightly 312:3 432:8
451:17 469:9	Serdar 267:1	Sherry's 480:13	355:19 429:20	slowly 386:8
self-correction	series 360:2 435:15	Sherry.Sangster	438:17	small 406:2 424:15
272:11,12	serve 456:14	480:16	simplicity 440:16	426:5 427:4 434:4
self-motivated	480:10	shock 436:7	simply 256:8	435:6 471:17
281:11 282:13	served 294:22,23	shoot 405:7	335:16 336:19	so 268:2 273:15
self-motivation	service 274:14	short 445:5 473:20	385:3 386:10	286:20 360:22
334:11	275:17 333:25	shortly 363:25	403:11,19 423:8	371:3 406:6
self-reported	428:6,7,18 429:1	shot 352:22	425:24 453:17	442:11 451:4
325:22	429:2 449:8,13	shouldand 362:14	simplythis 423:8	462:1 469:19
semester 304:2	455:22 456:1,6,11	shouting 417:16,19	simultaneously	soParisi 462:1
305:4,7,8,10,11	456:13	show 297:5 298:10	293:25	Sobel 243:25 246:8
306:11,18 321:18	session 330:13	299:10 303:25	sincere 365:4,17,23	246:12,15 250:7
seminar 386:17,19	332:5 336:10	314:5 320:10	367:15	256:22 259:6
440:22	338:2,12 435:6,6	325:20 333:1	single 315:19 376:1	266:19 277:15
seminars 388:19	set 241:21 242:3	381:4 383:2 399:8	413:22	317:13,24 327:5
Senate 259:16	258:8 273:25	401:25 404:7,16	singled 352:24	343:11 349:14
289:24 290:2	293:12 296:6	408:10 409:17	sir 246:11 249:13	354:2,24 356:13
333:6 428:20,22	299:2 300:5,21	413:12 417:24	254:11,25 255:3	365:4 372:21
senator 428:25	306:21,23 307:6	422:4 424:4,7	260:8 265:7	374:1 376:25
send 256:10 407:18	307:10,13,16,20	434:8 451:23	271:21 364:8	414:16 416:10
480:24 481:1	309:6 310:6 312:6	show 418:2	sit 345:16 392:13	419:2,14 429:12
sending 375:21	313:23 314:19	showed 390:20	395:21 470:10	454:23 456:2
407:15	315:1,2,3 316:17	397:14 398:17	471:15 474:2	461:10 462:15
senile 457:24	317:24 318:5,15	showing 390:25	sitting 347:25	463:2
senior 400:11 438:6	318:20,23 319:24	shown 330:17	359:4 396:5	Sobel's 365:1
438:13,15,16	326:14,15,20	433:13	471:18	373:20 376:1
			l	<u> </u>

410.11 410.12	Cmamish 442.10	annin a 205.10	467.17 471.15	229.60 25 242.24
418:11 419:13	Spanish 442:18	spring 295:18	467:17 471:15	338:6,9,25 342:24
social 287:11	443:8,12	386:17,18 434:22	stated 249:4,5,6	344:11,16,23
socks 341:12	spare 418:7	435:19	250:4 266:19	345:2 346:14,25
soft 387:6,12	speak 312:14 345:4	Square 240:12	313:4 332:22	347:3 354:15
solely 260:13,15	435:14	staff 309:2	364:15 374:22	356:6 364:9
solution 361:8	Speaking 399:15	Staffthe 250:18	437:18 452:23	365:14 366:17,23
solved 392:24	speaks 273:2,3,13	stage 363:22	statement 242:9	370:3 371:8,16,20
someI 422:12	319:6	stages 399:3 404:7	271:21 284:25	372:2 379:20,22
somebody 335:8	special 426:20	stake 474:14	301:20 329:18	379:24 380:3,8,13
345:5 393:24	specialized 293:23	stand 344:20,20	332:22 334:6	381:20 382:4,17
442:17,18 467:7	specific 251:18	373:18	367:16 383:4,7,9	384:13 402:14
somebody's 287:1	252:4,24 266:20	standard 332:9	383:20 447:11	403:6 411:8 412:3
287:21 289:3	272:15 297:22	335:2 343:4	452:19 460:19	412:24 413:3,9
somewhat 266:14	330:18 332:7	standards 298:13	464:1,19	414:7,9,20,24
351:18 425:14	334:18 337:16	350:25 450:7	statements 331:16	415:6,9 416:7,19
soon 403:3 437:6	345:15 398:7	standing 419:10,23	331:18 346:13	416:25 417:6,9,18
sooner 368:8	416:9	stands 379:12	368:15 465:3,4	419:20,24 425:1,4
sorry 251:7 254:19	specifically 245:10	Stanich's 388:15	468:15	425:7,10,18
255:13 257:23	250:11 253:12	start 265:24 295:14	states 334:7 351:4	434:11,15 446:22
262:1 266:4	266:15 270:3	309:12 330:2	378:8,9,11,11	454:12 473:2,6,8
271:22 272:24	283:6 309:6	405:14 451:24	454:21,23 455:13	473:15,19,25
276:1 277:22	323:14 325:3	started 265:12	STATHAM 239:10	474:3,9 475:17,19
286:17,21 289:9	356:21 360:5	353:4 388:13	268:3 272:8	475:22 476:1,5,9
309:15 341:15	specificity 362:15	397:2 401:3	277:20,23 278:10	476:14,21,24
361:2 390:23	specifics 261:18	414:23 421:2	278:15 280:20	477:10,15,23
394:7,10 402:12	307:23 346:18	426:24 436:21	281:13 284:4,17	478:1,6,10,14,24
417:16 425:2,25	specified 247:13	452:2 458:3,6	289:6 291:19,23	479:4,8,13,16
444:19 474:3	274:12 290:7	465:13	292:2,6 296:17,22	480:2,8,12,20,24
478:1	specifies 274:13,14	starting 273:3	296:24 297:11	481:3,8,11,21
sort 343:4 375:23	speculate 391:2	303:21 310:3	298:18,21 300:2,7	482:2,6,10,16,20
394:12 399:5	speculation 331:19	319:23 427:21	300:17 301:3,15	stating 344:9
405:21 411:19	396:20	starts 433:20	301:23 302:4,14	468:18
420:3 443:18,19	speculative 396:20	starts 433.20 stasis 411:24	304:24 305:2	statistical 311:20
473:18	spelled 362:15	state 239:1,3,11	308:6,17 309:17	404:18,19 427:25
sorts 441:13,15	spells 452:10	240:5 292:16	309:21 310:8,13	428:2
442:10	spend 326:4 437:3	339:9,11,13	310:21 312:10,13	statistically 404:11
sound 266:13	456:16 470:1	353:16 375:7	310.21 312.10,13	statistician 405:24
367:11 398:20		380:22 384:21	316:3,16,22,25	statistics 404:22,23
source 402:15	spending 396:7 437:6		· · · · · · ·	,
		387:2,4,15 395:1	317:2 318:19	405:2,10,21
425:12	Spenser's 442:24	395:7 400:15	319:2,5 320:25	458:25
sources 425:13	spent 400:13 433:1	424:21 426:11	321:15,18,21	stature 275:6
426:3	435:10,22,22	433:14 448:2	323:22 328:12,16	status 276:16 287:2
space 295:8 322:5	457:5,7 470:9	449:8 453:13,16	329:16,22 330:1	335:25 342:15
323:7,8,15,19	spoke 325:13	454:3 455:16	330:24 331:3	376:21 403:13
Spain 444:5	sponsored 435:23	466:13,18 467:2	335:18 337:25	429:7 431:4
	1	1	I	I

			i	
statusthe 429:8	stronger 348:15	subjects 335:10	succeed 427:2	supposed 259:11
statute 260:17	360:19 444:8	401:21	success 266:24	263:23 275:15
329:5,10 331:24	structure 323:1	submission 263:24	267:9 275:9 282:9	332:4 370:24
331:24 332:12,20	472:16	383:9 412:15	283:7 455:14	427:18
334:22,25 336:3	structures 303:7	submit 247:12	475:4	sure 260:23 279:2
336:20 337:5,7,10	324:3	284:3 330:12	successful 257:2	279:22 285:15
337:14,17 369:17	struggles 350:16	345:13 346:9,10	267:6 268:14,20	294:19 306:23
374:11,16 378:3	student 296:6	347:11 348:20	268:21 272:16	322:3 324:8,19
378:12 448:5	304:5 305:3	407:2,6 416:1	274:10 475:3	325:12 326:6
450:3 482:4	306:23 307:15	437:13,23,24	sudden 453:25	328:23 347:2
statutes 333:4	312:18 319:19	458:10 478:19	sufficient 273:8	356:25 390:21
349:10 374:6	325:2,4 328:4	480:17,20 481:13	356:17 360:10	449:12 452:16
378:4 447:22	400:5 405:16	submit 348:18	479:16	456:20 459:19
statutory 448:6	434:23 438:12,19	submits 320:17	suggest 252:9	468:16 469:22
stay 472:8	438:22,23 439:1,2	submitted 262:23	451:16	473:17 482:22
stenographer 332:3	456:20,24 457:3,5	263:19,21 283:17	suggested 253:13	sure 254:15
step 291:19 328:16	457:11	320:24 331:10	suing 467:15	survival 400:25
338:1,5 379:25	students 263:9	346:5 360:20	Suite 240:12	suspect 296:15
steps 364:15	292:25 295:20	381:17 383:14	sullied 257:15	353:8
stick 354:11	303:4,7,8 304:4	409:1 411:12,21	summaries 300:24	sustain 298:18
stipend 295:20,21	306:25 307:4	413:7 415:3	348:20,21 360:21	454:12
stipulate 329:1,7	308:5,10,11 310:5	submitted 394:3	summarize 243:9	sustained 312:10
stipulate 355:3	310:6,7,24 311:13	411:20	summarized	316:3,16 328:12
stipulating 329:6	311:15,21 313:13	submittedthere	243:15 299:22	333:3 342:24
stipulation 291:14	318:25,25 388:23	331:22	summary 296:4	344:11,21 455:21
stipulations 465:18	395:22 396:2	submitting 262:20	297:8 298:23	swear 292:3 339:1
Stony 385:5	427:4,7 428:3	Subparagraph	299:25 301:7,8	380:14
stop 286:8 353:25	432:24 435:14	372:9	310:2,11,23 336:4	switch 427:22
401:3 448:15	456:19,21,21,23	subsequent 252:18	363:11	switching 436:11
stoponce 401:3	470:2 471:23,25	296:15 309:25	summation 479:2	sworn 243:4 292:9
stopped 361:18	studies 404:19	381:23	superb 257:9	339:5 380:18
storage 393:9,11,12	Studitsky 388:16	subsequently	424:19	Sy 385:10,14,17
store 393:8	389:13	294:23	supervision 293:4	387:1 388:7
story 342:1 395:2	study 386:14	substance 270:12	supply 390:6,7	syllabus 296:3
strains 409:12,13	403:20 404:18	430:23	support 263:18	324:6
strange 417:20	407:2 427:24,25	substantial 269:14	269:14 295:21	sympathy 349:12
428:25 441:12,15	studying 293:25	275:10 360:15	297:9 387:9,17	Syncotron 435:20
443:6	295:10	substantiallet's	453:15 454:2	synonym 290:17
street 361:17	stuff 392:1 446:1	274:16	462:1 478:22	synthetase 398:9
472:15	subject 279:11	substantially 350:8	supported 347:6	413:25
strengthening	280:6 325:7 333:2	substantive 284:6	387:9	system 264:5 311:2
362:4	344:2 351:16	430:3	supports 299:11	351:21,21 352:6,6
stretch 367:12	352:25 374:21	substitute 476:17	suppose 442:19	359:9,19 385:25
strike 273:16	378:20 446:16	476:19 477:6	443:7,11,22,23,25	386:1,12 394:12
328:11	463:10 482:8	substituted 421:19	443:25	422:14,15 432:4
		<u> </u>	l	

441.11 12 12 15	275.17 202.6	441:10 449:12	202.20 206.12 14	261.11 12 12
441:11,12,12,15	275:17 283:6 307:9 364:22	455:25,25	302:20 306:13,14	361:11,12,13
systematic 343:2		,	307:10 309:10	365:5 374:8
351:6	371:20 386:4,5,10	teachers 334:10	312:6 339:1	387:18 388:8
systems 351:20	433:21 439:15	teaches 305:15	342:18,19 346:21	421:9,18,23,24,25
397:4	444:17,22,25	315:21 320:11	346:23 354:22	447:11,15,16,17
	456:6,25 460:25	teaching 247:16,17	356:22 371:5	447:19,20,23,25
$\frac{1}{t \cdot 405:22}$	talked 285:14	250:15 262:21	380:14 383:6,11	449:17,19,22,22
	313:9 328:20	263:6,7 274:13	384:20 407:17	449:24,25 451:20
t' 405:12,12	349:17 361:19,20	275:16 282:11	409:3 410:22,23	452:7,15 453:6
table 241:1 246:25	373:6 406:4,15	293:4,6 295:14	410:24 412:20	454:8,22 455:17
369:22 422:1,6,8	445:9 458:9	296:6,12,20 297:6	417:22 422:5	467:12,16,20
423:8,10,13,14,15	463:20,20 476:10	297:25 299:2,9,25	430:25 431:9	478:15
423:19,23,24	talking 255:14	300:6 301:1	440:8 444:5 455:4	tenureall 455:8
433:20,21	260:7,9 277:5	302:23 305:17	466:6,24 469:15	tenure-track
tables 433:17	301:16 310:9	306:24 308:2,3,18	469:20 470:15	281:21
take 250:22 256:4	325:3 344:24	308:19 311:9	473:11 474:19	tenured 239:8
264:20 265:2	369:1 376:8 401:3	312:22 313:3	telling 263:10	248:16 262:4,24
279:15 283:16	435:11 441:2	316:6 318:21	346:12 365:3	264:10 281:2,21
291:3,20 308:11	450:3 454:18	319:16,20 320:21	433:20 448:24	282:2 284:8 291:5
325:24 330:25	458:12 461:21	321:2,7,17 324:24	466:20	294:11 339:16
338:1,14 341:24	talks 273:5,7	325:24 328:3	tells 333:24	345:25 352:5
346:15 347:4	416:11,15 436:11	333:25 424:23	temporary 391:5	363:6,6 421:10
352:9 380:3 384:8	tally 470:10	426:18,25 427:15	ten 261:19,21	447:18 448:3,9,12
393:23 395:25	TAMARA 240:15	427:17 428:4	266:13,14 271:18	448:18 449:14
397:19 399:11	483:11	449:6 450:9	329:20 391:20,24	450:5,8 451:24
400:19,22 404:5	Tammy 479:18	455:21 469:9	396:8 404:5	452:3 467:6
404:12 405:6	target 405:7,8	team 250:21 288:25	431:25 432:23,24	tenuredand 282:2
430:2,2 449:1	targeted 419:2	310:8,10 313:20	437:10 438:9	term 265:17 318:17
458:21 459:15	taste 410:10	314:7 353:3 358:7	445:10 450:15	334:24 335:1
460:2 464:20	taught 261:25	384:24 390:4	453:4 456:22	356:19 364:18
473:15,20 474:1	295:25 299:4	technical 440:3,12	461:24 482:21	449:10
481:15,25	301:5,6 302:21	technically 320:6	ten-year 270:23,24	term-limited
takewhen 374:7	304:8 310:9,10	386:9	271:23	340:15
taken 291:21	312:22 313:8,20	technician 438:18	tens 425:13	termed 342:13
322:17 329:24	314:7,23 315:12	technicians 395:23	tenure 239:1	terminates 468:10
338:7 342:17	319:11,21 326:24	396:3 472:3	242:23 244:9	termination 341:20
346:7 368:9,22	426:19 427:10	technique 441:3	249:7 259:24	344:2 353:1
374:24 380:6	455:24	techniques 313:12	273:25 274:9	terminology 290:16
418:1 473:21	teach 293:8,8	313:13 441:6	276:10,16 283:13	terms 253:9 264:13
483:7	295:13,15,25	tedious 395:16	288:8 347:19,20	272:1 274:4,11
takes 337:12,22	308:5 314:18	tell 243:14 245:15	347:23 348:5	281:17 283:5
349:20,20 421:4,6	315:5,7,15,20	256:1 266:16	349:19,20 351:15	288:16 289:19
421:7	316:11 325:6	269:22 270:1,5	351:17,18 352:6,7	297:5 304:13,18
talented 358:7	333:17 427:11,16	273:18 292:3,13	351:17,18 332:0,7	314:6,17 320:12
talk 265:9 275:16	427:19,25 428:2	300:20 301:4	352:17,20,22	320:19 329:14
	121.17,23 720.2	J00.20 J01.7	333.1,3,23 337.10	J20.17 J27.17
	-	•	•	-

				- 5
331:16 333:7	415:20,23 419:13	then-Provost 468:8	286:9,21 287:3	thisI 411:10
	-		· ·	
342:12 343:20,21	419:18,23 428:21	Theoretical 385:6	288:20 290:25	thoroughbecause
347:15,16 348:13	483:6	theory 385:7,8	297:15 298:19	331:7
350:25 357:11	tests 399:4 405:22	404:24,25	301:15,23 304:7	thoroughly 369:6,8
365:25 394:21	432:18	Therida 442:21	305:18 311:12	those 350:14
424:5 433:7	Texas 351:5	thermodynamics	312:1,13 315:13	thought 286:19
438:10	textbooks 393:1	469:25	318:23 325:7	288:1 309:18
termsI 447:3	thank 251:11	Theseeach 393:14	328:21,25 329:8	351:9 354:13,18
terrible 399:17	256:22 280:17,19	thesis 385:7,21,23	335:14 336:20	361:7 365:23
405:25 469:23	291:15,17 292:6	theyif 349:7	340:8 342:8,12,19	373:9 384:9
terribleI 457:18	327:17 328:14,15	thing 251:20	342:25 344:10	396:24 404:18
test 405:6,8 429:15	338:17 344:18	328:19 331:9	346:5,25 347:22	422:13,17 442:15
testified 243:5	364:8,10 379:19	347:8 349:8 354:9	348:16 352:10	451:9 474:6
246:8 255:25	380:1 460:24	366:13 395:20	353:2,11,24	thoughtthat's
256:15,19 260:1	469:7 475:13,13	397:13 411:2	354:10 355:14,22	354:15
261:22 272:23	482:13,16	412:2 413:6 416:1	357:1,10,23,25	thoughts 252:24
277:15 285:25,25	that'sI 366:6	417:17 422:21,22	358:13,21 359:19	thousand 405:5
292:10 297:7	that'syes 366:6	423:12 429:1	361:19 365:24,25	thousands 287:11
298:25 299:19	that 245:7 298:19	432:24 439:8	366:6,6,18 367:21	400:14 433:2
301:12,12 302:8	320:13 354:18	449:11 457:22	371:17 375:10,14	437:3,7
307:24 312:16	366:7 416:23,24	467:11,19 471:13	376:19 377:2	threatened 253:21
339:6 348:16	463:4 476:25	475:3 481:12	378:20 382:1	threatening 341:11
367:12 376:15,25	thatand 346:6	thingit 308:8	384:10 392:6	three 288:25
379:7 380:19	thatcertainly	things 256:18	393:13 401:21	311:11,12,19
456:7	375:14	263:10 269:2	405:23 409:1,11	333:9 346:5
testified 367:14	thatI 300:20	271:24 273:9	410:18 411:13	349:19 350:10
testifiedwe	thatso 342:18	282:6 334:23	418:6,7 419:18	360:13 393:15
267:25	thatwell 367:22	345:8 348:1	424:8 435:20	421:6 445:9
testify 286:1 327:14	thatwhen 471:10	373:21 382:6	438:6 439:10,21	451:10 460:10,12
345:5,8 354:24	Thatyou're 361:5	397:14 405:4,8,23	440:8 441:20	460:13
356:3	the 309:12 343:22	407:19 409:21	446:13 451:21	three-year 348:20
testifyI 345:7	394:2 406:8 473:1	415:2 416:16	462:8 463:18	360:21
testifying 300:17	479:6	432:19 437:21	464:23 465:19	through 473:18
300:19 301:24	theacross 358:22	441:15 442:4	467:6 468:24	thrown 440:17
302:14 345:2	theall 357:9	444:2,16,25	471:9 472:8,12,20	Thursday 239:12
371:13	theI 245:24	450:21 453:17,23	472:25 473:2	243:2 483:7
testimony 243:14	thenot 444:3	457:19 460:21	474:22,23 475:4,5	thwarted 399:20
254:17 263:2	thesome 243:19	466:25 468:2	476:24 477:11	time 244:5,8,12
278:5 298:17	thethere 302:25	476:2,4 478:17	479:2 481:13	246:17 256:6,21
307:19 333:13	363:19	think 243:15	thinking 427:19	257:13 259:5,10
335:14 354:14	theyou 413:7	248:19 250:7,22	thinks 440:12	262:24,25 267:21
365:1 366:3	theirand 353:10	254:16 261:12,17	454:23 478:23	270:24,24 271:3
373:20 376:1	theirI 342:12	261:22 267:22	third 410:24	278:9 286:4,23
379:8,12 381:21	thenI 284:16	272:6,21,23 278:7	this 411:17	294:5 295:8
397:6 401:5	302:19	281:13 284:16	458:11	297:23 300:23

_				<u> </u>
206.4 9 214.25	titles 401.21	tonias 424.16	twind 205:0 201:12	250.22 25 262.22
306:4,8 314:25 315:23 320:6	titles 401:21 to 344:10 346:10	topics 424:16 total 304:13 305:1	tried 285:9 291:12 399:10 403:15	259:22,25 262:22 293:25 294:4
322:10,16,23,25	366:16 431:11	305:2,8 306:17	405:20 424:3	303:6,11,11,14
324:10 325:20,25	476:6	321:13,15,21	426:13 437:24	315:7 317:7 340:8
326:5,11 327:23	toand 332:10	375:1 407:19	459:8 467:13	348:22 353:6
329:13 330:21	tobasically	469:16	trips 435:23	362:21 363:17,19
337:25 338:15	346:10	totalwell 366:25	trivial 395:15 401:9	363:19 383:16
342:17 343:18	tohe 262:22	totaling 314:8	419:5	384:4 389:18
346:6 349:20,21	toI 377:2	totally 331:17	trouble 270:19	400:19 401:16
350:7 365:18,20	tojust 327:18	428:21,22	troubling 433:6	404:23 413:24
382:13 384:7	toyou 384:14	Touf 443:1	true 336:19 366:23	418:4 435:10
385:9,10,24	442:6	tour 295:1 435:10	421:3 423:13	439:22 452:23
387:23,24 389:4	to-date 327:8,10	toured 435:7,18	436:3 455:16	457:19 461:9
396:10,25 397:7	330:14 381:23	toxic 397:23	483:5	472:11 473:3
405:17 408:11	today 245:25	track 275:23	true 342:20	479:10,11
410:22,22,24	246:24 259:8,23	276:16 293:23	Trulecki 315:23	two-in 360:24
418:22 427:11	269:4 279:1 323:1	302:19 353:1,5	318:6 328:5,7	361:3,25
428:16 432:15	327:13 334:15,19	384:24 421:18	trump 339:19	type 312:25 389:6
433:8 435:22,22	369:11 377:13	436:16,24	truth 292:4,4,4	typically 266:25
438:24 441:18	379:3 382:14	traditional 449:21	339:2,2,2 380:15	323:17 325:23
445:3,21 446:5,7	428:21 449:24	Traditionally	380:15,15	326:15 481:13
446:21 451:7	450:3 467:5	358:24	try 270:1 272:15	
452:14 456:17	todayso 302:22	trained 386:10	351:6 368:10	U
457:2,5,7 461:25	token 318:22	training 294:4	424:7 436:17	U 457:12 459:23
466:16 467:9	Tokyo 435:19	313:15 325:8	446:25 458:11	U.S 333:6
470:25 471:11	told 255:1 269:24	transcript 239:9	459:20,24 462:21	ultimate 337:18
479:17	316:1 325:10	479:7,8,9,14,23	trying 257:8 334:21	ultimately 271:13
time 362:18	341:24 345:5	479:24 483:4,6	338:22 371:5	361:21
470:24	346:9,22,23	transferred 403:15	398:25 411:2,9,11	unchanged 332:18
timeyou 470:23	403:16 409:18	transform 353:16	411:19 426:11	378:1
timeframe 271:23	413:15 420:1	353:17	444:16,24 446:10	under-performing
timeframe-wise	421:12 433:2	translocating	446:12 470:1	244:6
393:23	444:13 445:21	392:10	471:10 473:18	under-productive
timelines 457:23	463:3	transport 392:4,5	turn 258:11 323:15	255:23 277:3
times 251:1,2 273:1	tomorrow 334:16	392:25	330:22 372:6	undergraduate
285:18 288:25	334:19 449:25	transvection	460:6	387:3
313:5 340:6	tons 416:17	408:12 412:16	turned 394:14	underperformance
344:19 407:8	tookokay 465:24	treated 272:1,6	turning 432:24	341:25
408:7 451:11	top 275:19 309:24	331:21	turns 398:1 399:7	understand 279:15
464:7 472:11	310:3,4,23 404:2	tremendous 343:19	399:22	279:17 281:24
473:4,11	463:25	tremendously	turpitude 449:20	290:5,13 319:1
timetable 270:12	topic 264:6,7,11	465:24	twelve 461:24	325:13 326:17
270:19 271:17,18	279:10 305:18	trial 399:1,10	twice 435:19	327:4 344:15,19
tired 395:18 396:7	333:18 397:16	trials 399:6 436:22	twiddling 396:6	356:1,8 368:25
title 412:9 414:11	441:20 443:6	438:4	two 248:7,13	379:3 414:3 429:4
1111C 414.7 414.11	771.40 77J.U	7,0.4	100 440.7,13	577.5 111.5 127.1
	•	1	1	1

Page 521

				rage 321
447.20 450.2	207.7.206.24	265.17.267.17		
447:20 450:2	297:7 306:24	use 265:17 267:17	veterinarian	W
466:12 481:3	307:12 315:24	268:5 277:14	432:16	wait 334:16 349:19
understanding	324:12 327:24	290:16 295:2	veterinarians	354:5 360:13
255:7 270:19	329:3 330:23	318:17 326:1	432:13	455:11
278:6 281:16	339:11,14 343:8	329:9 333:23	Vice 244:3 247:5	waive 248:22
328:22 453:12,13	343:16 350:3	335:1 357:25	250:11,22,24,25	338:20
understood 446:8	352:15,23 353:11	370:20 387:17	265:2,4,5,8	Walz 241:7 250:17
undocumented	353:17,20 360:4	392:18 393:7,9	294:22,24 323:2	292:1,2,5,8,13
331:15	372:22 375:7	394:11 399:9	336:14 341:2	308:22 319:10
unfortunately	381:18 384:22	401:2 405:11	343:13 439:24	328:14 339:19
279:21 393:4	385:2,11,12	406:13,16 409:7	view 303:2 351:12	wandering 456:25
403:14 408:2	386:17 387:1,2,4	415:20 432:6,13	351:18,19 352:16	want 255:3 264:12
412:12 423:11	389:13 392:20,21	436:23 470:21	359:11 368:23	267:19,23 269:16
471:13	394:20 416:16	471:17 475:1	377:12 378:4	269:21 272:4
unfortunatelyw	447:16 449:9	481:16	430:22 467:3	277:13 284:15
404:20	450:1,5,8 453:14	useful 422:19	viewed 301:2	288:6 291:20
unified 303:15	453:16 454:3	uses 287:12	VII 332:13 377:23	311:10 326:17
uniform 307:12	466:6,21 467:4,7	usually 358:17	violated 377:16	327:18 328:23
Union 332:11	467:10,17 468:21	407:18 410:4,5	violates 377:6	329:16 331:1
334:20,25 339:21	University's 252:2	utilization 369:14	violating 378:25	334:14,15 338:3
341:3 348:6,25	293:14,15 294:21	utilized 246:9	violation 330:17	353:21 355:2,4,13
351:12 353:12	297:5 308:25	265:17	347:18 377:12	355:20 356:6
361:16 368:17,24	unknown 469:12		378:17	388:4 391:1
369:4 378:23	469:13,17 470:13	V	violations 377:11	394:16 395:17,20
447:15,19,24	470:13	vague 404:25	Virginia 241:3	412:20 415:2
455:18 456:4	unproductive	validity 332:12	243:3	421:12 424:9
Union's 340:3	271:4 288:5 289:1	375:17 425:12,16	virtual 428:5	425:7 433:22
350:22 363:1	290:15 341:5	valuable 475:6	Virtually 287:4	437:15 440:6
456:5	367:17 432:1	value 313:14	Vitae 242:7	444:1 445:24,25
Union 341:1	unqualified 431:6	valued 352:14	vital 352:20	447:3 459:14
unit 261:8 276:9	unsuited 428:21,23	values 365:24	vocabulary 311:1	
332:19 336:1	unsupported	Vander 250:8	312:4	462:8 464:25
350:8 363:7,8	331:17,19	variety 333:8 346:2	voir 317:1 402:10	467:14 468:25
378:2	untrue 335:16	various 246:13	408:14	469:3,20 476:16
universities 351:24	unusual 253:18	264:3 340:5	Volume 239:5	476:19 477:6
351:25	368:1	348:10 357:3	241:1 242:1	478:25 481:15,16
university 239:1,3	up-to-date 251:20	437:17	voluntarily 457:13	481:25
239:11,15 240:5	252:1 262:13	vary 305:19	volunteer 427:12	wanted 244:2 251:9
247:13 250:10	381:8,10,11	Vega 443:15	427:14,14	334:23 388:5
251:23 257:10	up/downs 474:23	ventilation 471:16	volunteered 427:11	389:5,8 394:11,13
259:24 276:9,12	up/downs 4/4.23 update 305:24	verifies 481:23	Von 410:20	395:18 396:9
276:19 281:7,25	updated 382:10	verify 355:7	vote 391:11,19	399:5 404:10,11
282:5,11 287:17	476:13	version 279:2 347:7	428:12,13 481:5	415:7 438:22
292:16 293:17	updating 306:7	383:16	voted 363:2	468:24 476:6
	updating 306.7 usso 306:13	versions 279:3	vulnerable 353:14	wants 273:21 277:8
294:14,17 295:5	us50 300.13	, 51 510115 277.5	vuillei able 333.14	284:12 366:16
	I	1	1	1

456:25 481:21	434:1 442:16	396:14 407:3	witness 241:2 251:7	312:4 376:3
was 345:18 477:5	446:17 456:11	409:25 410:1	253:14 254:21	439:20 481:15,20
wasand 361:22	we'll 287:25 330:2	432:21 435:19	276:2 279:16	481:24
wasBarry 389:2	338:5 347:4	451:14	284:6 289:10	word-for-word
wasdid 322:4	355:13 377:21,22	were 355:23	291:18,24 292:9	284:13
wasfor 352:12	477:8,23 482:12	werethat 343:25	291:18,24 292.9	words 302:22
wasit 362:24	we're 255:4 257:22	weren't 246:16	305:1,4 309:24	words 423:22
wasthe 362:4	273:9 290:19	398:11 423:15	310:10,22 313:19	work 256:20
wasValerie 342:2	310:9 311:24	426:22,23	314:20 317:5,8,11	268:17 269:16,20
wasyour 364:16	325:3 369:10	West 483:14	317:14,16,19,22	281:11 282:23,25
wasn't 246:4	370:23 382:13	what 447:22	317:14,10,19,22	283:9,20 285:18
253:11 256:17	432:12 436:6	whatthis 337:7	, ,	*
263:15 265:7	432.12 430.0		321:13,20,22	286:6,9 287:21,22 294:2 347:16
		whatsoever 374:3 445:7	328:15,18 338:24	
268:24 271:21	471:18 472:23		339:5 341:15,18 342:23,25 344:12	357:23,24 358:18 359:24 361:22
286:19 287:23	weI 348:16	Whenyou 479:4	,	
300:10 307:22	wethat 375:15	which 469:4	344:15,18 345:1,7	366:13 385:4
349:18 360:12	wear 395:24	whole 372:3	346:21,23 347:2,5 355:7,16 356:2	386:12 389:9,16
362:14 379:17	website 259:19,21	wholly 346:7 376:14	· · · · · · · · · · · · · · · · · · ·	392:16 395:18,23
426:11 451:7	277:8 402:22,23	- : - :	365:9,13,16 380:1	400:2,12 401:5
wasting 403:24 watch 447:1	week 258:13	why 376:7	380:2,4,10,18	406:21 408:4
	304:25	widgets 290:19	390:18,21,24	410:14,17,18
Watson 386:15	weekends 471:25	wife 443:5	394:7 402:17,20	411:5,25 421:8
way 262:17 268:13	weeks 259:9,13	wild 459:4	402:23 403:2	422:10,13,17,18
270:4 289:2 329:9	317:7 383:16	will 454:16	411:12,17,21,24	422:23 424:15
347:7 348:25	384:5 404:13	willing 268:17	412:11,14,19	432:21 434:2,3,4
351:7 365:25	435:10 479:10,11	329:1 437:3 446:9	413:1,5 417:20	434:21 436:5
366:14 391:18	Weg 250:8	willingness 253:9	419:14,16,21	438:3,11,14,17,18
396:7 404:15,21	Wei 435:7,7	Wilson 343:6	420:1 423:24 424:3 425:23	438:20 439:5,10
405:21 409:15 421:21 428:8	weigh 476:18	365:20		440:18,23 441:8
	weight 362:4	wind 470:3	426:1 443:11	441:18 444:8,17
429:2 434:9 443:5	382:19 384:9,15	window 322:10	447:1,5 467:25	444:17,25 458:17
444:7,10 452:2	Well 365:9 402:9	Winters 361:4,7	468:4 472:21	460:23 467:1
way 288:23	well-established	468:8	473:7 474:6	470:14,16 471:20
Wayne 239:1,3,11	289:5	Wisconsin 351:4	475:16	472:5,5,7,9
240:5 292:15	well-funded 396:13	wish 290:16 370:4	witness's 298:17	474:25 475:6
294:9 339:11,13	well-specified	377:11 415:4	witnesses 381:22	480:6
353:16 375:7	274:7	474:19,24 475:1	475:17	workif 440:17
384:21 387:2,4,15	went 244:23 254:13	wished 386:23	woman 435:8	workyou 458:17
395:1,7 400:15	254:17,20,24	with482:17	won 395:11 428:11	worked 392:20
424:21 426:11	256:2 322:14	with"we 266:25	428:16	394:16 398:15
448:1 449:8	342:3 344:5	withwell 393:18	wonderful 431:2	405:17 438:12
453:13,16 454:3	360:14 363:10	withdraw 320:7	465:23	452:2 457:6 458:4
466:13,18 467:2	369:3 384:23	454:13	wondering 288:14	470:6
467:17 471:15	385:1,5,17,19	withdrew 361:21	word 274:2 276:13	worker 394:19
ways 348:10 398:6	386:18 389:13,13	389:20 390:9	276:17 288:22	working 268:23
	ı	ı	<u> </u>	Ī

				-
286:8 385:6 397:6	351:9 360:15	476:13	263:2,7 264:3	10:54 308:15
438:15 440:20	368:20 369:1,15	year's 283:24,24	266:19 269:5	10.34 300:13 100% 400:22
441:20 458:4,7	370:12,22,25	284:11	272:24 278:1	11 242:16 374:22
471:19 475:9	370:12,22,23	yearI 326:1	329:8 330:10	417:3,11,15 461:4
works 389:7 441:5	423:17 449:1	yearnot 261:25	418:3 476:10	11-page 416:2
441:13	423.17 449.1	yearly 335:11	York 385:12,13,20	11:01 314:3
world 388:1		336:17 450:12	387:12	11:08 319:8
worried 357:21	Yanos 392:20	years 248:7,9,14	you 289:14	11:18 328:18
406:1 439:9	veah 277:25 280:22	257:10 261:19,21	346:21 446:9	11:20 329:24
worry 399:17,18	298:12,21 302:16	271:18 283:10	youif 248:5	12 242:18 262:2
452:14	302:17 307:12	288:8 293:25	youn 248.3 youokay 477:8	320:20 359:2
worse 443:22,25,25	309:18 310:14,21	294:4 295:17	youthat 349:6	422:3,4 425:3,5
worst 351:19 424:4	312:15 317:2,7	294.4 293.17 296:23 301:6	357:10	425:22
464:16	325:18 331:4	302:24 303:11,14		12:27 329:25
worth 308:12 347:4	344:23 355:21	307:7 308:1	youthink 286:11 youwell 371:6	12:27 329.23 12:43 338:7
	372:2 390:18,21		•	13 242:20 413:16
395:9 416:20	391:24 394:8	312:22 314:22,24	young 389:4	
worthwhile 400:16	402:24 406:14	315:12,13 319:12	yourwith 285:1	413:17 433:12,14
would 341:12	407:9 409:5 415:9	319:21 339:23	Yue 435:7,7	434:10,18 436:2
wouldI 300:22	420:5 424:3	341:23 348:23	$\overline{\mathbf{z}}$	13-year 418:13
461:24	434:21 446:11	349:19 350:10	ZeWinters 239:18	14 427:4 456:21
wouldmy 344:6		353:15 360:13	442:19	14TH 479:21,25
write 437:13 472:8	447:25 458:5,15 458:20 461:15	388:9,18 391:7,20	442.19	480:1
writing 268:21		391:24 396:8	0	15 251:13 258:11
282:13 471:3,12	463:23 467:23	413:16,17 418:4	05 405:13	261:25 262:1,2
written 333:4,5,7	470:20,22 479:1	420:8,9,11,13,17	05.05 350:4	320:21 321:14,14
409:15,15 416:2	481:19	421:2 429:2	06 405:14	321:15 339:23
420:12 429:20	year 248:12 252:19	431:25 432:2,21	00 403.14	454:20
482:1	258:17 259:15	433:6,7 436:2	1	15TH 479:21,25
wrong 314:13	260:2 262:2	437:10 438:9	1 307:13,14,15	480:1,3,7,8
376:10 405:11	264:18 265:19	439:20,21,22	312:17,17 349:24	16 241:20 308:14
409:11,13 410:22	292:20 299:8,8,8	441:6 445:10,14	372:8 422:1,6,8	308:16,22 310:5
410:23 432:8	304:23 305:2,6,9	453:1 454:7	423:14,15 433:21	317:4
468:19	305:16,16,19,19	472:11 473:3	1:16 338:8	17 242:2 314:2,4
wrote 360:8 410:16	305:21 307:5	475:5	1:17 339:5	316:21,23,24
433:16 460:7,8,9	310:5 311:7,14,16	yeast 385:14,16	1:59 370:1	317:4 319:9
460:10,10,12,13	311:24,25 319:23	386:21 387:24,25	10 242:14 413:11	17 319:4
460:14	320:2,21 321:7,16	397:3 408:4,11,22	413:13 414:6,10	18 242:4 369:25
	321:21,22 322:9	409:16,18,19	414:13 439:20	370:2 371:23
X	326:3 360:22	410:1 421:6	10% 359:6 398:20	478:12,13
X 452:25 453:2,3	391:15 399:24	427:22 440:19	10 % 339.6 398.20 10 / 16 242:11	19 242:22 295:17
XII 247:20	429:10 432:22	446:12		478:3,5,14
XII 276:6	436:20 450:23	yesterday 243:15	10:00 331:13	1966 334:6
XXIV 328:20 329:2	453:2 466:18	244:20 245:25	10:21 291:18,21	1971 339:19 340:1
329:9 348:10	467:1 469:25	246:15 250:7	10:32 291:22	1972 340:2
350:6,15,20 351:1	470:7,7,17,18	256:15 260:1	10:33 292:9	1973 294:15

				1 agc 324
1975 287:3,5,9	2009 322:9	245 483:5	370 242:4	478 242:22,22
1976 340:1	2010 245:17 286:15	24TH 297:13	370 242:4	48 306:17
1985 340:2	350:1 401:6	25 276:3 359:5	371 242.4 3727 240:12	48202 240:7
1986 340:7	418:25 419:6	461:25	38-page 369:3	48226 240:13
1989 294:20	2011 307:7 309:7	25this 276:5	380 241:15	48324 483:14
				40324 403.14
1990 362:22	2011-2015 241:21	25% 358:23 360:1	381 242:6	5
1990s 340:16	242:3	26 403:3	382 242:6,8	5 275:1,18 277:11
435:13	2013 245:16 311:19	2656 240:15,15	384 242:8	307:13,13,15
19TH 468:8	2014 244:3,10,11	483:12,12	4	312:17,17 327:6
2	244:13 247:5	281 241:5	4 307:15 311:15	372:10 451:23
2 239:5 241:1 242:1	292:20 311:11,13	284 241:6	464:25	50 342:10 387:25
255:5 272:25	311:18 315:14	292 241:8	4.1 311:17	50% 363:8
	319:22 345:25	3	4.1 311.17 4/11/17 483:9	
288:24 307:15	457:9 476:12,15	3 307:15 310:25		50%we're 460:16
356:11 423:13,14	2014/'15 476:16		4:07 473:21	500 434:23
424:2 433:21	2014/15 242:23	311:16 469:3,6	4:14 473:22	500-person 435:6
463:25	2014/2015 469:10	3.0 312:3	4:16 475:16	53 311:13
2.4 315:3	2015 307:7 309:7	3.6 311:4	4:18 478:4	54 311:20
2.51.01 332:20	309:25 319:23	3.8 311:22	4:22 482:23	6
378:3	441:25 451:12	3:00 412:6	40 343:23 354:2	6 242:6 258:2 259:2
2.8 311:23 315:4	468:8 476:10	3:01 413:10	367:4 454:7	
2.9 311:8	2016 255:5 258:13	3:03 414:12	40which 354:7	275:17 283:14,14
2:00 371:22	283:16 297:13,17	3:06 417:10	40-some 352:24	350:1 380:25
2:10 380:2,6	297:18 302:22	3:11 422:2	40% 359:23 363:6	381:3,4,14 382:21
2:22 380:7	319:24 320:2,3	3:15 425:21	363:6 373:1	382:24 454:19
2:23 380:18	321:8 327:6	3:22 433:11	401 242:10	600 367:1,3
2:24 381:2	341:22 346:1	3:25 434:17	403 242:10	6075 339:13
2:28 382:23,25	354:2 356:12	30 239:12 243:2,11	407 242:12	65 240:12
2:31 384:16	381:9 383:9,15	258:12 479:14,20	412 242:12	69 310:7
2:50 401:23	403:3 411:13,15	479:22 483:7	413 242:14	6TH 381:9
2:52 403:8	468:11 476:6,21	30% 359:5 455:4	414 242:14	7
2:56 407:21	476:22	300you 426:7	417 242:16,16	
20 439:20 450:15	2017 239:12 243:2	308 241:20,20	422 242:18	7 242:8 383:1,2
20-minute 246:13	483:7	30TH 283:16	425 242:18	384:1,17
246:16	20TH 393:22	31 468:11	4259 240:6	7,000 426:6
20% 438:20	21ST 393:22	313.577.2268 240:8	43 341:10 343:24	7010 241:21 303:5
200,000 395:11	23 252:18 253:3,20	313.964.5600	355:2,24 356:4	303:23,25 304:10
2000 256:17,18	254:13 255:5	240:13	367:4,10,11,19	304:23 309:8
2000I 397:1	264:18 354:2	314 242:2	372:19 373:19	315:12,13
2002 397:1 458:5,6	356:12 372:21	319 242:2	374:20 375:19	7020 315:13
2004 458:4,6	445:16	324 241:9	376:17 379:6	7030 313:8,10,11
2004 458:1	2385 483:13	327 241:10	433 242:20	313:12,19,19
2006 458:8	23RD 297:13 382:9	339 241:12	434 242:20	314:7,18
2008 303:25 322:9	24 393:13 400:22	36 369:21,23	447 241:16	7330 242:3 319:15
457:15	243 241:4	364 241:13	474 241:17	75 470:6
	2 10 2 11.T			
	=	-	-	-

Page 525

			Page 5	J∠J
FF 211 21				ļ
77 311:21				
78 311:13				
8				
8 242:10 244:15,17				
244:19 245:16				
246:8,12,19				
299:23 318:13				
398:20 401:24,25				
402:13 403:7,9				
435:19 469:1,6				
80% 438:18				
9				
9 242:12 244:15,17				
245:2 246:23				
247:1 299:24				
407:22,24 411:6				
412:4,7 460:6				
9:00 239:13 331:13				
9:05 243:2,4				
90% 400:25				
90s 393:25,25				
708 373.23,23				
	<u> </u>	I	l	