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## Welding's Toxic Legacy

Scientific articles are meant to be objective, but U.S. District Judge Kathleen O'Malley had doubts about the work presented in her court during litigation against manufacturers of welding products. In February 2008, she ordered all parties to produce records of any payments made to the authors of scientific articles cited by expert witnesses. Judge O'Malley wrote in her order that these authors could have “prejudices or biases. The most obvious of these possible biases is the receipt of money from one of the parties.”

The welding industry produced a list of over \$10 million in payments to the authors of the scientific articles—dwarfing the \$500,000 that the plaintiffs had spent. Here is the full list of the industry's payments, itemized by date and recipient.

— The Center for Public Integrity, June 2008

#	Payee	Invoice date(s)	Payment amounts and total	Article(s) / listing related to payee	Expert(s) On Whose List Article Appears	Notes
1	ChemRisk	12/7/2005 12/31/2005 1/31/2006 1/31/2006 2/28/2006 2/28/2006 2/28/2006 3/31/2006 4/30/2006 4/30/2006 5/31/2006 5/31/2006 6/30/2006 6/30/2006 6/30/2006 7/31/2006 7/31/2006 8/31/2006 8/31/2006 8/31/2006 8/31/2006 9/30/2006 9/30/2006 10/31/2006 10/31/2006 10/31/2006 10/31/2006 11/30/2006 11/30/2006 12/31/2006 1/31/2007	\$13,222.32 \$21,287.25 \$6,414.25 \$13,518.25 \$5,096.50 \$3,080.50 \$106.44 \$3,797.75 \$8,302.25 \$2,260.19 \$12,102.25 \$9,224.25 \$40.87 \$17,559.87 \$16,172.57 \$3,580.23 \$34,364.43 \$2,114.04 \$18,753.30 \$11,714.78 \$4,597.29 \$1,477.54 \$3,066.75 \$11,056.25 \$4,691.04 \$997.16 \$278.40 \$326.00 \$16,185.87 \$4,437.75 \$12,794.25  <b>\$262,620.59</b>	-State of the Science Review: Does Manganese Exposure During Welding Pose a Neurological Risk? (Finley) (2007)	-Furbee	ChemRisk is affiliated with Dr. Finley, a disclosed expert.  The majority of the invoices reflect work done by Dr. Finley.
2	D&L Welding Fume Analysis	3/22/2004 5/31/2004 7/6/2004	\$50,000.00 \$14,550.00 \$17,530.00	-Analysis of Welding Fume from E6010 and B308-16 Electrodes	-Furbee  -Furbee	D&L Welding Fume Analysis is

2/19/2008

		8/8/2004 10/2/2004 12/5/2004 2/9/2005 3/6/2005 5/22/2005 6/28/2005 8/15/2005 11/1/2005 3/10/2006	\$36,450.00 \$17,969.00 \$39,324.51 \$30,000.00 \$15,000.00 \$35,000.00 \$35,000.00 \$35,000.00 \$70,000.00 \$35,000.00	(2005)  -Analysis of Welding Fume from E7018 Electrodes (2004)  -Analysis of Welding Fume from Lincore M Electrodes (2005)	-Furbee	affiliated with Dickinson and Lippold, who are disclosed experts.  Payments reflect payments for work done by Dickinson and Lippold.
3	Dickinson, D. W.	5/11/2005	\$2,062.50	-Analysis of Welding Fume from E6010 and B308-16 Electrodes (2005)  -Analysis of Welding Fume from E7018 Electrodes (2004)  -Analysis of Welding Fume from Lincore M Electrodes (2005)	-Furbee -Furbee -Furbee	Disclosed expert.
4	Eidelberg, David, M.D.	8/13/1997 4/27/1998 9/28/1999 2/28/2000 3/24/2000 4/25/2000 8/21/2001 2/13/2003 4/14/2003 4/16/2004 6/1/04 (?) 11/1/2004 11/3/2004 11/8/2004 2/2/2005 3/2/2005 4/1/2005 4/6/2005 6/30/2005 7/31/2005 9/1/2005 10/10/2005 6/12/2006 11/21/2006 11/28/2006 11/30/2007	\$6,971.00 \$400.00 \$1,000.00 \$1,200.00 \$3,200.00 \$4,843.70 \$1,000.00 \$500.00 \$45,000.00 \$3,500.00 \$45,000.00 \$2,250.00 \$2,500.00 \$625.00 \$2,125.00 \$9,500.00 \$4,000.00 \$40,000.00 \$2,275.00 \$52,929.80 \$4,825.01 \$650.00 \$1,375.50 \$3,900.00 \$93,364.50 \$8,875.00	-Blinded positron emission tomography study of dopamine cell implantation for Parkinson's disease (2001)  -Differential diagnosis of Parkinsonism with [18F] fluorodeoxyglucose and PET (1998)  -Functional brain imaging in Parkinson's disease (2003)  -Functional brain imaging of movement disorders (2000)  -Functional brain networks in movement disorders (2000)  -Quantitative brain PET: comparison of 2D and 3D acquisitions on the GE advance scanner (1998)  -SPECT imaging in Parkinson's disease (2001)	-Eidelberg -Eidelberg -Eidelberg -Eidelberg -Eidelberg -Eidelberg -Eidelberg -Eidelberg -Schapira, Hurtig, Eidelberg -Eidelberg, Sze -Schapira, Hurtig	Disclosed expert.
			<b>\$430,823.51</b>			

				<p>-The metabolic landscape of Parkinson's disease (1999)</p> <p>-The role of functional neuroimaging in the differential diagnosis of idiopathic Parkinson's disease and multiple system atrophy (2004)</p> <p>-The role of radiotracer imaging in Parkinson's disease (2005)</p>		
5	Environmental Protection Agency	1/9/2004 3/31/2005 12/10/2007	\$1,651.79 \$260.90 \$329.15  <b>\$2,241.84</b>	<p>-Retention and Intracellular Distribution of Instilled Iron Oxide Particles in Human Alveolar Macrophages (Bennet, Bromberg, Devlin, Kim, Lay – funded in part by EPA) (1998)</p> <p>-Neuropsychiatric effects of manganese on mood (Bowler – funded in part by EPA) (2003)</p> <p>-Translocation of Inhaled Ultrafine Manganese Oxide Particles to the Central Nervous System (Carter, Eider, Feikert, Finkelstein, Gelein, Ito, Maynard, Oberdorster, Opanashuk, Potter, Silva – funding from EPA) (2006)</p> <p>-Manganese Distribution Across the Blood-Brain Barrier III The Divalent Metal Transporter -1 is not the Major Mechanism Mediating Brain Manganese Uptake (Crossgrove – funding from EPA) (2004)</p> <p>-Inhalation health risks of manganese: an EPA perspective (Davis) (1999)</p> <p>-Correlation of brain magnetic resonance</p>	-Furbee  -Sze, Hurtig  -Furbee  -Furbee  -Schapira  -Furbee, Sze  -Furbee  -Schapira  -Sze  -Sze  -Sze  -Sze, Hurtig  -Sze	<p>1/9/2004 payment for copying charges in connection with document request.</p> <p>3/31/2004 payment for clerical and professional time and copy and print charges.</p> <p>12/10/2007 payment for copying charges and document search time.</p>

	imaging changes with pallidal manganese concentrations in rhesus monkeys following subchronic manganese inhalation (Dye) (2006)	-Furbee
	-Behavioral and autonomic thermoregulation in the rat following propylthiouracilinduced hypothyroidism (Gordon) (1997)	-Furbee, Schapira, Hurtig
	-Effects from environmental Mn exposures: a review of the evidence from non-occupational exposure studies (Hudnell) (1999)	-Furbee
	-Manganese neurotoxicity, a continuum of dysfunction: results from a community based study (Hudnell) (1999)	
	-Bioindicator and exposure data for a population based study of manganese (Hudnell, Baldwin, Belanger, Bilodeau, Tardiff) (1999)	
	-Manganese accentuates adverse mental health effects associated with alcohol use disorders (Hudnell, Bowler, Mergler, Sassine) (2002)	
	-Neuropsychiatric effects of manganese on mood (Hudnell, Larribe, Mergler, Sassine) (2003)	
	-Quantification of neuromotor function for detection of the effects of manganese (Hudnell, Beuter, DeGeoffroy, Edwards, Mergler) (1999)	
	-Methods of calculating lung delivery and deposition of aerosol particles (Kim) (2000)	

				<p>-Manganese Distribution Across the Blood-Brain Barrier III The Divalent Metal Transporter -1 is not the Major Mechanism Mediating Brain Manganese Uptake (Yokel – partly funded by EPA) (2004)</p> <p>-A study of the relationships between Parkinson's disease and markers of traffic-derived and environmental manganese air pollution in two Canadian cities (Finkelstein, M, Jerrett – funded in part by EPA) (2007)</p> <p>-EPA Health Assessment Document for Manganese Final Report</p>		
6	Environ International Corp.	<p>9/26/2007</p> <p>10/23/2007</p> <p>11/28/2007</p> <p>11/29/2007</p> <p>11/29/2007</p> <p>12/19/2007</p> <p>12/19/2007</p>	<p>\$575.00</p> <p>\$4,094.66</p> <p>\$4,862.19</p> <p>\$5,829.87</p> <p>\$24,394.19</p> <p>\$25,473.59</p> <p>\$51,649.82</p> <p><b>\$116,879.32</b></p>	<p>-Determination of an Occupational Exposure Guidelines for Manganese Using the Benchmark Method, Risk Analysis (Clewel, Crump, Lawrence) (2003)</p> <p>-State-of-the-Science Review: Does Manganese Exposure During Welding Pose a Neurological Risk? (Santamaria) (2007)</p> <p>-The effects of manganese in air (Clewel, Crump) (2004)</p> <p>(Environ Health Sciences Institute)</p> <p>-Pharmacokinetic Modeling of Manganese. III. Physiological Approaches Accounting for Background and Tracer Kinetics (Covington) (2007)</p>	<p>-Sze</p> <p>-Furbee</p> <p>-Sze</p> <p>-Furbee</p>	<p>Environ is affiliated with Fred Boelter, a disclosed expert.</p> <p>Invoices reflect payments made for work done by Mr. Boelter.</p>
7	Exponent	<p>1/10/2003</p> <p>11/11/2004</p>	<p>\$3,500.00</p> <p>\$542.32</p>	-State of the Science Review: Does	-Furbee	Exponent is affiliated with

		12/17/2004 1/11/2005 2/14/2005 3/10/2005 5/18/2005 6/14/2005 7/14/2005 8/11/2005 9/8/2005 10/18/2005 11/21/2005 12/14/2005 1/12/2006 2/21/2006 3/7/2006 4/12/2006 5/18/2006 6/28/2006 7/26/2006 8/10/2006 9/26/2006 10/24/2006 11/22/2006 12/6/2006 1/6/2007 2/9/2007 4/12/2007 5/9/2007 6/16/2007 7/26/2007  <b>\$97,325.83</b>	\$10,938.45 \$5,440.72 \$8,735.00 \$1,100.00 \$5,246.84 \$2,662.50 \$4,260.00 \$2,485.00 \$1,065.00 \$2,840.00 \$3,550.00 \$3,905.00 \$2,130.00 \$3,275.00 \$1,875.00 \$3,000.00 \$3,000.00 \$3,000.00 \$3,750.00 \$3,000.00 \$3,000.00 \$3,000.00 \$1,875.00 \$3,000.00 \$1,500.00 \$750.00 \$1,580.00 \$790.00 \$1,580.00 \$790.00 \$3,160.00	Manganese Exposure During Welding Pose a Neurological Risk? (Mowat, Cushing) (2007)  -Fate of manganese associated with the inhalation of welding fumes: potential neurological effects (2005)	-Furbee	Mark Roberts who has spoken publicly on behalf of Defendants.  The majority of the invoices reflect payments for Mr. Roberts' time.
8	Fechter, Laurence	8/23/2005	\$21,700.00	-Distribution of manganese in development (1999)  -The relationship of particle size to olfactory nerve uptake of a non- soluble form of manganese into brain (2002)	-Schapira  -Furbee	Disclosed expert.
9	Garabrant, David H.	11/3/2001 11/23/2001 5/12/2002 8/24/2002 10/12/2002 12/31/2002 2/1/2003 5/4/2003 7/14/2003 9/28/2003 11/16/2003 7/3/2004 8/30/2004 8/31/2004 9/4/2004 9/26/2004 10/24/2004	\$2,024.00 \$3,954.60 \$7,689.00 \$2,728.00 \$396.00 \$2,432.00 \$5,610.00 \$6,130.64 \$13,854.24 \$2,508.00 \$10,940.00 \$8,067.95 \$3,520.00 \$7,860.36 \$1,496.00 \$2,601.00 \$1,628.00	-Reanalysis of the underlying data produced by Dr. Racette, under Court Order, in the Welding Fume Products Liability Litigation	-Makuch	Disclosed expert.

		10/24/2004 11/28/2004 2/5/2005 2/5/2005 2/6/2005 4/3/2005 4/3/2005 5/11/2005 5/11/2005 5/11/2005 5/11/2005 7/18/2005 7/18/2005 8/28/2005 11/19/2005 1/3/2006 2/19/2006 5/6/2006 8/27/2006 11/20/2006 11/21/2006 5/15/2007 11/11/2007	\$3,887.50 \$8,715.00 \$42,617.85 \$1,575.00 \$14,218.13 \$2,730.00 \$2,405.47 \$24,702.21 \$1,312.50 \$8,032.50 \$21,510.63 \$8,766.25 \$2,625.00 \$7,910.15 \$9,591.25 \$15,967.05 \$5,077.75 \$16,742.50 \$21,322.50 \$54,142.02 \$2,479.41 \$5,862.50 \$2,415.00			
			<b>\$368,047.96</b>			
10	Goldman, Samuel M.	6/18/2004 5/10/2007	\$1,750.00 \$14,000.00  <b>\$15,750.00</b>	-Occupation and Parkinson's disease onset age in a movement disorders clinic (2004)  -Manganese exposure and risk of Parkinson's disease in twins (2004)  -Occupation and Parkinson's disease (PD) onset age in three movement disorders clinics (2004)  -Occupation and parkinsonism in three movement disorders clinics (2005)  -Welding and risk of Parkinson's disease (2004)	-Furbee  -Hurtig  -Makuch  -Hurtig, Schapira, Furbee, Perl (2)  -Hurtig, Schapira, Furbee	Disclosed expert.
11	Harvard School of Public Health	7/3/1997	\$1,250.00	-Chronic manganese poisoning (Canavan, Cobb, Drinker) (1934)  -Chronic manganese poisoning: report of a case with autopsy (Canavan, Cobb, Drinker) (1934)	-Furbee  -Perl (2), Furbee, Perl, Hurtig, Schapira, Sze  -Furbee	Payment in connection with Dr. Antonini's deposition in the Jones (Indiana) case.



				-Estimation of Personal Exposures to Particulate Matter and Metals in Boiler Overhaul Work (Christiani, Hauser, Herrick, Liu, Smith, Williams, Woodin) (2005)	-Furbee	
				-Exposure to Fuel - Oil Ash and Welding Emissions During the Overhaul of an Oil-Fired Boiler (Christiani, Hauser, Herrick, Liu, Smith, Williams, Woodin) (2005)	-Furbee	
				-The Association of Expired Nitric Oxide with Occupational Particulate Metal Exposure (Christiani, Hauser, Herrick, Kim, Wand) (2003)	-Schapira, Hurtig	
				-Ventilation in Arc Welding with Coated Electrodes (Drinker, Tebbens) (1941)	-Makuch	
				-Welding fumes in steel fabrication (Drinker) (1944)	-Makuch	
				-The pathogenesis of neurodegenerative disease: neurotoxic mechanisms of actions and genetics (Feldman) (1999)		
				-The role of radiotracer imaging in Parkinson's disease (Lange) (2005)		
				-Number of Parkinson's disease deaths among male welders over time: National Center for Health Statistics mortality data files, 1985-1999 (Stampfer)		
				-Welding occupations and Parkinson's disease mortality: analysis of National Center for Health Statistics Mortality Data, 1985-1999 (Stampfer) (2006)		

12	Hurtig, Howard, M.D.	4/2/2007 8/20/2007 10/23/2007	\$19,515.00 \$2,020.38 \$143.15  <b>\$21,678.53</b>	<p>-Diagnostic accuracy of C9mTc]TRODAT-1 SPECT imaging in early Parkinson's disease (2004)</p> <p>-Magnetic resonance imaging in Parkinson's disease and parkinsonian syndromes (1989)</p> <p>-Welding-related parkinsonism: clinical features, treatment, and pathophysiology (2001)</p> <p>-What is Parkinson's Disease? Neuropathology, Neurochemistry, and Pathophysiology. In Parkinson's Disease and Movement Disorders diagnosis and treatment guidelines for the practicing physician. Eds. Adler C.H. and Ahskog J.E. Humana Press, New Jersey. 200; 57-70 (2000)</p> <p>-Letter to the Editor regarding Racette's Welding-Related Parkinsonism article (2001)</p>	-Eidelberg  -Sze  -Sze  -Schapira, Sze          -Furbee	Disclosed expert.
13	International Epidemiology Institute	9/29/2003 1/1/2004 4/2/2004 7/2/2004 5/18/2005 1/10/2005 10/18/2004 3/25/2005 11/30/2005 7/25/2006 9/11/2006 12/14/2006 1/8/2007 3/30/2007	\$57,940.00 \$57,940.00 \$57,940.00 \$106,940.00 \$57,940.00 \$9,600.00 \$99,133.00 \$99,133.00 \$99,133.00 \$29,850.00 \$36,958.00 \$38,025.00 \$36,878.00 \$35,310.00  <b>\$913,195.00</b> (including Lipworth payments - see Notes)	<p>-A cohort study of Parkinson's disease and other neurodegenerative disorders in Danish welders (Blot, Cohen, Fryzek, Lipworth) (2005)</p> <p>-Parkinson's disease and other basal ganglia or movement disorders in a large nationwide cohort of Swedish welders (Blot, Fryzek, McLaughlin) (2006)</p>	-Makuch, Schapira, Hurtig, Perl (2), Furbee  -Makuch, Hurtig, Furbee, Perl (2), Schapira	2003 to 2005 invoices reflect payments in connection with funding of Danish and Swedish studies.  2006 to 2007 invoices reflect payments in connection with efforts to respond to discovery requests about Danish and Swedish studies.  In addition,

						Dr. Lipworth, a disclosed expert, billed \$90,475.00 from March 2002 to July 2006 for work consulting for Defendants.
14	Kaufmann, Horacio	8/31/2006 12/4/2006	\$48,713.74 \$132,000.00  <b>\$180,713.74</b>	-Brain magnetic resonance imaging in multiple-system atrophy and Parkinson disease: a diagnostic algorithm (2002)  -Treatment of Patients with Orthostatic Hypotension and Syncope (2003)	-Sze  -Furbee	Disclosed expert.
15	Kieburtz, Karl	5/28/2004 7/12/2004 9/15/2004 9/30/2004 10/15/2004 11/3/2004 12/11/2004 4/28/2005 6/22/2005 8/8/2005 9/1/2005 10/31/2005 12/3/2005 12/6/2005 12/30/2005 3/13/2006 3/28/2006 6/5/2006 7/14/2006 10/27/2006 12/12/2007	\$1,000.00 \$8,500.00 \$13,835.00 \$20,300.00 \$20,835.00 \$17,975.00 \$5,500.00 \$38,415.00 \$13,000.00 \$31,500.00 \$1,477.00 \$14,000.00 \$10,000.00 \$18,944.20 \$5,000.00 \$772.60 \$12,000.00 \$7,500.00 \$1,500.00 \$15,294.30 \$6,500.00  <b>\$263,848.10</b>	-Welding and Parkinson disease: is there a bond? (2005)  -Levodopa and the progression of Parkinson's disease (2004)  -The role of radiotracer imaging in Parkinson's disease (2005)	-Makuch, Schapira, Furbee, Hurtig  -Schapira, Hurtig  -Schapira, Hurtig	Disclosed expert.
16	Lang, Anthony E.	8/23/2005 11/15/2005 2/13/2006 5/4/2006 6/20/2006 11/14/2006 12/14/2006 11/24/2007	\$19,616.00 \$23,659.91 \$17,393.50 \$26,812.50 \$35,056.27 \$4,037.50 \$1,275.00 \$84,547.06  <b>\$212,397.74</b>	-Challenges in Parkinson's disease: restoration of the nigrostriatal dopamine system is not enough (2004)  -Time to move beyond nigrostriatal dopamine deficiency in Parkinson's disease (2004)	-Perl, Perl (2)  -Perl, Perl (2)  -Eidelberg  -Schapira,	Disclosed expert.

				<p>-Dopa-responsive parkinsonism with normal<sup>6</sup>[18F]-fluorodopa positron emission tomography scans (1990)</p> <p>-Levodopa and the progression of Parkinson's disease (2004)</p> <p>-Manganese-induced Parkinsonism associated with methcathinone (Ephedrone) abuse (2007)</p> <p>-SIC task force appraisal of clinical diagnostic criteria for Parkinsonian disorders (2003)</p>	<p>Hurtig</p> <p>-Hurtig, Eidelberg, Schapira, Sze</p> <p>-Hurtig, Schapira</p>	
17	Langston, J. William	3/1/2001 6/20/2001 8/1/2001	\$3,000.00 \$5,000.00 \$4,570.18  <b>\$12,570.18</b>	<p>-Manganese exposure and risk of Parkinson's disease in twins (2004)</p> <p>-Occupation and parkinsonism in three movement disorders clinics (2005)</p> <p>-Occupation and Parkinson's disease onset age in a movement disorders clinic. (2004)</p> <p>-The role of radiotracer imaging in Parkinson's disease (2005)</p> <p>-Welding and risk of Parkinson's disease (2004)</p> <p>-Occupation and Parkinson's disease (PD) onset age in three movement disorders clinics (2004)</p> <p>-Occupation and risk of Parkinson's disease (PD): a preliminary investigation. of Standard Occupational codes (SOC) in twins</p>	<p>-Hurtig</p> <p>-Hurtig, Schapira, Furbee, Perl (2)</p> <p>-Furbee</p> <p>-Schapira, Hurtig</p> <p>-Schapira, Hurtig, Furbee</p> <p>-Makuch</p> <p>-Furbee</p>	Langston is affiliated with The Parkinson's Institute.

				discordant for disease. (2003)		
18	Lash, Timothy L.	10/23/2005 2/25/2006 8/30/2006 10/23/2006 3/4/2007 5/4/2007 7/7/2007	\$6,475.00 \$2,800.00 \$15,050.00 \$4,550.00 \$4,500.00 \$5,400.00 \$3,262.50  <b>\$42,037.50</b>	-Risk factor studies of age-at-onset in a sample ascertained for Parkinson disease affected sibling pairs: a cautionary tale (2007)	-Makuch, Furbee	Disclosed expert.
19	Lees-Haley, Paul	2/3/2003 2/16/2003 2/16/2003 2/28/2003 3/17/2003 3/17/2003 3/28/2003 3/28/2003 4/18/2003 4/18/2003 5/2/2003 5/2/2003 5/17/2003 5/17/2003 6/1/2003 6/1/2003 6/16/2003 7/2/2003 7/2/2003 7/17/2003 7/17/2003 7/17/2003 8/2/2003 8/17/2003 8/26/2003 9/16/2003 9/21/2003 10/1/2003 10/15/2003 11/2/2003 11/16/2003 11/16/2003 12/1/2003 12/17/2003 12/17/2003 1/5/2004 1/16/2004 2/3/2004 2/16/2004 3/2/2004 3/16/2004 4/1/2004 4/1/2004 4/1/2004 4/15/2004 4/28/2004 4/28/2004 4/28/2004	\$420.00 \$1,980.00 \$4,110.00 \$1,320.00 \$210.00 \$2,460.00 \$1,350.00 \$2,970.00 \$2,460.00 \$2,610.00 \$2,370.00 \$3,450.00 \$600.00 \$2,400.00 \$1,500.00 \$60.00 \$1,620.00 \$6,000.00 \$2,280.00 \$240.00 \$360.00 \$60.00 \$3,000.00 \$30.00 \$6,660.00 \$9,180.00 \$8,280.00 \$7,590.00 \$5,580.00 \$30.00 \$3,600.00 \$30.00 \$9,990.00 \$6,317.00 \$150.00 \$3,660.00 \$5,850.00 \$2,280.00 \$1,380.00 \$1,110.00 \$7,692.00 \$1,500.00 \$13,980.00 \$5,100.00 \$6,270.00 \$6,763.44 \$90.00 \$2,190.00	-Neuropsychological correlates of manganese exposure: A meta-analysis (2007)  -A meta-analysis of the neuropsychological effects of occupational exposure to manganese (2006)  -Methodological problems in the neuropsychological assessment of effects of exposure to welding fumes and manganese (2007)	-Furbee  -Makuch, Furbee  -Furbee, Hurtig	Disclosed expert.

6/2/2004	\$6,090.00
6/2/2004	\$4,440.00
6/19/2004	\$7,260.00
7/1/2004	\$2,040.00
7/1/2004	\$12,112.00
7/1/2004	\$1,830.00
7/1/2004	\$150.00
7/12/2004	\$60.00
7/12/2004	\$3,600.00
7/12/2004	\$5,391.04
8/3/2004	\$3,642.00
8/16/2004	\$7,415.00
9/1/2004	\$2,100.00
9/17/2004	\$840.00
9/17/2004	\$13,491.06
9/30/2004	\$16,835.50
10/17/2004	\$11,516.70
11/1/2004	\$14,040.00
11/15/2004	\$3,690.00
12/1/2004	\$1,740.00
12/16/2004	\$7,980.00
1/3/2005	\$8,973.70
1/18/2005	\$17,061.15
2/1/2005	\$780.00
2/1/2005	\$12,639.90
2/16/2005	\$19,709.25
3/4/2005	\$31,674.90
3/17/2005	\$245.00
3/17/2005	\$12,425.00
4/3/2005	\$17,575.00
4/3/2005	\$280.00
4/19/2005	\$3,535.00
5/4/2005	\$22,201.15
5/16/2005	\$1,050.00
5/16/2005	\$15,857.71
6/2/2005	\$11,760.00
6/2/2005	\$1,050.00
6/15/2005	\$35.00
6/15/2005	\$21,818.26
6/15/2005	\$1,225.00
7/4/2005	\$3,580.00
7/18/2005	\$1,575.00
8/5/2005	\$2,905.00
8/5/2005	\$246.00
8/22/2005	\$9,065.00
8/22/2005	\$420.00
9/16/2005	\$105.00
10/14/2005	\$16.43
10/14/2005	\$4,534.50
10/29/2005	\$3,885.00
10/29/2005	\$46.44
10/30/2005	\$2,065.00
11/17/2005	\$210.00
12/2/2005	\$1,117.65
12/16/2005	\$2,625.00
1/4/2006	\$5,600.00
2/17/2006	\$3,182.00
3/6/2006	\$200.00
3/16/2006	\$13,489.18
4/1/2006	\$11,200.00
4/1/2006	\$3,280.00

		4/17/2006	\$8,622.75			
		4/17/2006	\$4,520.00			
		4/17/2006	\$120.00			
		5/1/2006	\$40.00			
		5/1/2006	\$7,160.00			
		5/1/2006	\$1,280.00			
		5/16/2006	\$40.00			
		5/22/2006	\$9,092.25			
		6/1/2006	\$13,861.75			
		6/1/2006	\$680.00			
		6/7/2006	\$16,259.75			
		6/16/2006	\$9,002.02			
		6/16/2006	\$4,240.00			
		6/16/2006	\$9,942.00			
		7/3/2006	\$9,820.50			
		7/3/2006	\$19,647.00			
		7/3/2006	\$3,760.00			
		7/3/2006	\$1,120.00			
		7/3/2006	\$1,160.00			
		7/19/2006	\$1,200.00			
		7/19/2006	\$24,889.35			
		8/1/2006	\$2,700.50			
		8/1/2006	\$10,000.00			
		8/16/2006	\$40.00			
		8/16/2006	\$16,555.00			
		9/4/2006	\$80.00			
		10/15/2006	\$680.00			
		11/4/2006	\$450.00			
		11/4/2006	\$1,937.50			
		11/20/2006	\$350.00			
		11/20/2006	\$1,900.00			
		11/27/2006	\$1,950.00			
		12/17/2006	\$2,150.00			
		1/4/2007	\$1,550.00			
		1/16/2007	\$850.00			
		2/1/2007	\$3,900.00			
		2/16/2007	\$14,251.50			
		3/1/2007	\$11,355.45			
		3/16/2007	\$10,650.00			
		4/9/2007	\$18,250.00			
		4/16/2007	\$14,247.50			
		5/1/2007	\$30,271.83			
		10/16/2007	\$800.00			
		11/1/2007	\$1,500.00			
		11/1/2007	\$12,137.50			
		12/1/2007	\$200.00			
			<b>\$859,853.11</b>			
20	Lippold, John C.	12/31/2003	\$6,900.00	-Analysis of Welding Fume from E6010 and B308-16 Electrodes (2005)	-Furbee	Disclosed expert.
		4/25/2005	\$3,300.00		-Furbee	
		8/25/2005	\$1,100.00		-Furbee	
			<b>\$11,300.00</b>	-Analysis of Welding Fume from E7018 Electrodes (2004)		
				-Analysis of Welding Fume from Lincore M Electrodes (2005)		

21	M&O Consultants	12/28/1996 12/28/1996 7/2/1997 7/2/1997 7/21/1997 7/22/1997 7/22/1997 8/13/1997 8/13/1997 10/6/1997 11/3/1997 12/23/1997 12/30/1997 1/17/1998 1/26/1998 3/23/1998 6/29/1998 8/25/1998 11/12/1998 11/12/1998 6/14/1999	\$2,400.00 \$2,400.00 \$1,200.00 \$5,216.52 \$16,400.00 \$3,200.00 \$10,210.40 \$7,840.95 \$6,000.00 \$2,700.00 \$7,596.36 \$7,058.00 \$6,896.09 \$800.00 \$2,400.00 \$2,000.00 \$10,394.58 \$8,876.00 \$6,895.31 \$6,764.33 \$2,600.00  <b>\$119,848.54</b>	See articles listed for Dr. Olanow.		M&O Consultants is affiliated with Dr. Olanow.  Invoices reflect work done by Dr. Olanow.
22	Manning, Edward L.	6/6/2002 2/3/2003 4/2/2003 5/2/2003 7/1/2004 10/5/2004 1/5/2005 1/10/2005 2/1/2005 3/18/2005 5/26/2005 6/14/2006 6/14/2006 6/30/2006 7/13/2006 8/8/2006 9/27/2006 10/4/2006 2/28/2007 5/1/2007	\$150.00 \$200.00 \$555.00 \$1,305.00 \$720.00 \$200.00 \$2,000.00 \$200.00 \$400.00 \$4,192.82 \$3,000.00 \$400.00 \$1,600.00 \$7,500.00 \$1,000.00 \$1,850.00 \$200.00 \$200.00 \$2,700.00 \$6,750.00  <b>\$35,122.82</b>	-Methodological problems in the neuropsychological assessment of effects of exposure to welding fumes and manganese (2007)	-Furbee, Hurtig	Disclosed expert.
23	North Shore University Hospital	8/13/2001 10/16/2006	\$3,500.00 \$4,089.00  <b>\$7,589.00</b>	-Differential diagnosis of Parkinsonism with [18F] fluorodeoxyglucose and PET (Antonini, Dhawan, Eidelberg, Feigen, Kazumata, Mandel, Margouleff) (1998)  -Functional brain imaging in Parkinson's	-Eidelberg  -Eidelberg  -Eidelberg	North Shore University Hospital is affiliated with Dr. Eidelberg, a disclosed expert.  Invoices reflect payments for



			disease (Carbon, Edwards, Eidelberg) (2003)	-Eidelberg -Schapira, Hurtig	work done by Dr. Eidelberg.
			-Functional brain imaging of movement disorders (Edwards, Eidelberg) (2000)	-Eidelberg	
			-Functional brain networks in movement disorders (Eidelberg) (2000)	-Eidelberg -Schapira, Hurtig, Eidelberg	
			-The role of radiotracer imaging in Parkinson's disease (Carbon, Dhawan, Eidelberg, Feigen) (2005)	-Eidelberg	
			-Quantitative brain PET: comparison of 2D and 3D acquisitions on the GE advance scanner (Chaly, Dahl, Dhawan, Eidelberg, Kazumata, Margouleff, Nakamura, Robeson, X-Teng) (1998)	- Eidelberg, Sze	
			-SPECT imaging in Parkinson's disease (Dhawan, Eidelberg) (2001)		
			-The metabolic landscape of Parkinson's disease (Eidelberg) (1999)		
			(North Shore Long Island Jewish Research Institute)		
			-Blinded positron emission tomography study of dopamine cell implantation for Parkinson's disease (Eidelberg, Fukuda, Ma, Nakamura) (2001)		
			-The role of functional neuroimaging in the differential diagnosis of idiopathic Parkinson's disease and multiple system atrophy (Eidelberg) (2004)		

24	Olanow, C. W.	See notes	See notes	<p>-A double-blind controlled trial of bilateral fetal nigral transplantation in Parkinson's disease (2003)</p> <p>-A fluorescent double labeling method to detect and confirm apoptotic nuclei in Parkinson's disease (2003)</p> <p>-Accumulation in Lewy bodies in sporadic Parkinson's disease (2000)</p> <p>-Alzheimer's disease and Parkinson's disease: distinct entities or extremes of a spectrum of neurodegeneration? (1998)</p> <p>-Blood manganese correlates with brain magnetic resonance imaging changes in patients with liver disease (1996)</p> <p>-Brain magnetic resonance imaging in multiple-system atrophy and Parkinson disease: a diagnostic algorithm (2002)</p> <p>-Fetal nigral transplants survive, innervate the striatum and improve motor function in a patient with Parkinson's disease (1995)</p> <p>-Levodopa and the progression of Parkinson's disease (2004)</p> <p>-Lewy-body formation is an aggregate-related process: a hypothesis (2004)</p>	<p>-Perl, Perl (2)</p> <p>-Perl, Perl (2)</p> <p>-Perl</p> <p>-Schapira, Hurtig, Perl, Perl (2)</p> <p>-Hurtig, Schapira, Sze, Perl (2), Furbee</p> <p>-Sze</p> <p>-Perl</p> <p>-Schapira, Hurtig</p> <p>-Schapira, Hurtig, Perl, Perl (2)</p> <p>-Hurtig, Schapira, Furbee</p> <p>-Hurtig, Schapira, Perl (2), Sze</p> <p>-Hurtig, Schapira, Sze, Perl (2), Perl, Furbee</p> <p>-Makuch, Schapira, Hurtig, Eidelberg, Perl, Furbee, Perl (2), Sze</p> <p>-Furbee,</p>	<p>Disclosed expert.</p> <p>Dr. Olanow was affiliated with M&amp;O Consultants and is affiliated with Parkinson's Disease Research Corporation. See separate entries on chart.</p>
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-Magnetic resonance imaging in parkinsonism (1992)	Hurtig, Perl, Perl (2), Schapira, Sze, Eidelberg
-Manganese intoxication and chronic liver failure (1994)	-Sze, Eidelberg, Hurtig, Schapira, Furbee, Perl, Perl (2)
-Manganese Intoxication in the Rhesus Monkey: A Clinical, Imaging, Pathologic, and Biochemical Study (1996)	-Perl, Perl (2)
-Manganese-induced parkinsonism and Parkinson's disease (2004)	-Schapira -Hurtig, Schapira, Furbee, Perl (2)
	-Sze
-Manganism and Idiopathic Parkinsonism: Similarities and Differences (1994)	-Sze -Hurtig, Schapira, Furbee, Perl (2), Sze, Perl
-MRI and PET studies of manganese-intoxicated monkeys (1995)	-Perl, Perl (2)
	-Perl, Perl (2)
-Neuromelanin - containing neurons of the substantia nigra accumulate iron and aluminum in Parkinson's disease: a LAMMA study (1992)	-Hurtig, Schapira, Eidelberg, Sze, Furbee
	-Sze
-Neurotoxicology of manganese (1995)	
	-Makuch
-Occupation and parkinsonism in three movement disorders clinics (2005)	-Furbee
-Parkinson plus	

				<p>syndrome: diagnosis using high field MR imaging of brain iron (1986)</p> <p>-Parkinsonism, manganese and brain imaging in liver failure (2002)</p> <p>-Progression after chronic manganese exposure (1993)</p> <p>-Protein nitration in Parkinson's disease (1998)</p> <p>-Systemic exposure to proteasome inhibitors causes a progressive model of Parkinson's disease (2004)</p> <p>-The Neuropathology of manganese-induced Parkinsonism (2007)</p> <p>-MR imaging of putamenal iron predicts response to dopaminergic therapy in parkinsonian patients (1990)</p> <p>-Occupation and Parkinson's disease (PD) onset age in three movement disorders clinics (2004)</p> <p>-Occupation and Parkinson's disease onset age in a movement disorders clinic (2004)</p>	
25	Parkinson's Disease Research Corporation	10/10/1999 1/3/2000 1/30/2000 3/29/2000 5/20/2000 1/30/2001 3/7/2001 5/7/2001 7/10/2001	\$5,000.00 \$4,900.00 \$12,007.65 \$2,800.00 \$16,475.00 \$1,500.00 \$15,646.50 \$1,500.00 \$12,214.98	See articles listed for Dr. Olanow.	Parkinson's Disease Research Corporation is affiliated with Dr. Olanow.  Payments are for work done

		8/21/2001	\$15,685.57			by Dr. Olanow.
		10/18/2001	\$10,549.00			
		11/20/2001	\$100,000.00			
		12/6/2001	\$100,000.00			
		5/12/2002	\$31,356.50			
		9/30/2002	\$250,000.00			
		10/6/2002	\$9,000.00			
		10/6/2002	\$940.00			
		11/15/2002	\$11,322.16			
		12/1/2002	\$1,500.00			
		12/20/2002	\$90,000.00			
		1/5/2003	\$18,000.00			
		2/17/2003	\$18,886.70			
		4/24/2003	\$18,200.00			
		6/21/2003	\$18,344.12			
		10/10/2003	\$12,000.00			
		10/26/2003	\$15,031.20			
		11/15/2003	\$12,000.00			
		12/9/2003	\$16,794.02			
		2/8/2004	\$14,379.81			
		3/1/2004	\$18,671.18			
		4/19/2004	\$9,355.15			
		4/20/2004	\$12,979.96			
		4/25/2004	\$18,692.69			
		6/3/2004	\$14,442.20			
		6/8/2004	\$11,877.53			
		7/5/2004	\$6,000.00			
		8/5/2004	\$30,000.00			
		9/16/2004	\$27,750.00			
		11/5/2004	\$29,032.70			
		11/20/2004	\$37,500.00			
		1/9/2005	\$30,000.00			
		1/29/2005	\$25,001.89			
		2/10/2005	\$48,750.00			
		3/15/2005	\$22,500.00			
		4/7/2005	\$23,250.00			
		4/23/2005	\$72,500.00			
		5/14/2005	\$26,845.11			
		6/3/2005	\$19,500.00			
		7/2/2005	\$27,000.00			
		7/30/2005	\$60,726.90			
		9/6/2005	\$36,000.00			
		9/30/2005	\$37,881.29			
		11/1/2005	\$39,000.00			
		12/6/2005	\$67,500.00			
		1/16/2006	\$32,055.40			
		2/3/2006	\$31,500.00			
		3/3/2006	\$22,500.00			
			<b>\$1,674,845.21</b>			
26	The Parkinson's Institute	3/24/2004	\$200,000.00	-Occupation and Parkinson's disease onset age in a movement disorders clinic. (Field, Robert D., Goldman SM, Langston, J. William, Olanow, Warren, Tanner, Caroline M.) (2004)	-Furbee  -Makuch  -Hurtig, Schapira,	The Parkinson's Institute is conducting a prospective study.
		11/5/2004	\$20,000.00			
		11/12/2004	\$325,000.00			
		1/26/2005	\$325,000.00			
		4/15/2005	\$325,000.00			
		9/22/2005	\$325,000.00			
		2/6/2006	\$373,603.19			
		6/1/2006	\$361,140.30			
		9/19/2006	\$339,270.00			
		4/23/2007	\$196,000.00			

		4/30/2007 6/30/2007 8/31/2007 10/31/2007	\$196,000.00 \$125,000.00 \$125,000.00 \$125,000.00  <b>\$3,361,013.49</b>	-Occupation and Parkinson's disease (PD) onset age in three movement disorders clinics (Field, RD, Goldman, SM, Olanow, CW, Tanner, CM) (2004)  -Occupation and parkinsonism in three movement disorders clinics (Field, Robert D., Goldman, SM, Langston, J. William, Olanow, C. Warren, Tanner, Caroline M., Watts, R.L.) (2005)	Furbee, Perl (2)	
27	Perl, Daniel P.	11/19/2004 12/20/2004 2/9/2005 2/22/2005 4/2/2005 5/2/2005 6/1/2005 7/14/2005 8/26/2005 10/12/2005 1/31/2006 5/1/2006 10/3/2006 10/10/2007	\$43,750.00 \$23,300.00 \$6,550.00 \$47,716.50 \$26,450.00 \$87,892.18 \$40,500.00 \$9,150.00 \$7,671.00 \$4,950.00 \$4,750.00 \$5,100.00 \$2,550.00 \$7,800.00  <b>\$318,129.68</b>	-Neurodegeneration. In Oppenheimer's Diagnostic Neuropathology, A Practical Manual. Lond: Hodder Arnold. (2006)  -A double-blind controlled trial of bilateral fetal nigral transplantation in Parkinson's disease. (2003)  -A fluorescent double labeling method to detect and confum a apoptotic nuclei in Parkinson's disease. (2003)  -Accumulation in Lewy bodies in sporadic Parkinson's disease. (2000)  -Alzheimer's disease and Parkinson's disease: distinct entities or extremes of a spectrum of neurodegeneration? (1998)  -Evolution of diagnosis in early Parkinson's disease. (2000)  -Lewy-body formation is an aggresome-related process: a hypothesis (2004)	- Perl (2)  - Perl, Perl (2)  - Perl, Perl (2)  -Perl  -Schapira, Hurtig, Perl, Perl (2)  -Perl, Perl (2)  -Schapira, Hurtig, Perl, Perl (2)  -Hurtig, Schapira, Sze, Perl, Perl (2), Furbee  -Sze, Eidelberg, Hurtig, Schapira, Furbee, Perl, Perl (2)  -Perl, Perl (2)	Disclosed expert.

				<p>-Manganese intoxication in the rhesus monkeys: a clinical, imaging, pathologic and biochemical study (1996)</p> <p>-MRI and PET studies of manganese-intoxicated monkeys. (1995)</p> <p>-Neuromelanin - containing neurons of the substantia nigra accumulate iron and aluminum in Parkinson's disease: a LAMMA study. (1992)</p> <p>-Protein nitration in Parkinson's disease. (1998)</p> <p>-Systemic exposure to proteasome inhibitors causes a progressive model of Parkinson's disease. (2004)</p> <p>-The Neuropathology of manganese-induced Parkinsonism. (2007)</p>	<p>-Perl, Perl (2)</p> <p>-Perl, Perl (2)</p> <p>- Eidelberg, Hurtig, Schapira, Sze, Furbee</p>	
28	Racette, Brad A.	5/3/2005	\$2,000.00	<p>-Data and materials produced under Court Order in Welding Fume Products Liability Litigation</p> <p>-Industrial and occupational exposures and Parkinson's disease (2005)</p> <p>-Prevalence of parkinsonism and relationship to exposure in a large sample of Alabama welders (2005)</p> <p>-Reply from Authors. (2001)</p>	<p>-Makuch</p> <p>-Schapira, Hurtig</p> <p>-Hurtig, Makuch, Schapira, Furbee, Perl (2)</p> <p>-Furbee</p> <p>-Furbee</p> <p>-Schapira, Eidelberg, Sze</p> <p>- Schapira,</p>	<p>Payment was in connection with deposition in <i>Boren</i>.</p>

				<p>-Reply to Sadek's Letter to the Editor. (2001)</p> <p>-The impact of litigation on neurologic research (December 2006)</p> <p>-Welding related parkinsonism: clinical features, treatment, and pathophysiology (2001)</p> <p>-[18F] FDOPA PET and clinical features in parkinsonism due to manganism (2005)</p> <p>-[18F]FDOPA PET and clinical features in a Parkinson's disease patient with' manganese exposure. (2002)</p> <p>-A multi-incident, Old-Order Amish family with PD. (2002)</p> <p>-A rapid method for mass screening for parkinsonism (2005)</p>	<p>Eidelberg, Sze</p> <p>-Hurtig, Furbee, Perl (2), Schapira</p> <p>-Sze, Eidelberg</p> <p>-Furbee</p> <p>-Makuch</p>	
29	Riley, David, M.D.	10/22/2006 1/7/2007	\$31,025.13 \$27,500.00  <b>\$58,525.13</b>	-Autonomic nervous system testing may not distinguish multiple system atrophy from Parkinson's disease (2003)	-Furbee	Disclosed expert.
30	Robert A. Hauser Consulting Inc.	8/8/2005 10/7/2005 2/28/2006 5/19/2006 5/25/2006 11/20/2006 11/23/2006 12/7/2006 12/7/2006 2/16/2007 7/22/2007 9/4/2007 11/28/2007	\$3,741.08 \$1,677.12 \$733.78 \$90,750.00 \$1,476.52 \$1,013.83 \$111,000.00 \$1,510.29 \$3,000.00 \$523.34 \$13,312.50 \$643.20 \$595.97  <b>\$229,977.63</b>	-Fetal nigral transplants survive, innervate the striatum and improve motor function in a patient with Parkinson's disease (1995)	-Perl	Robert A. Hauser Consulting Inc. is affiliated with Robert A. Hauser, a disclosed expert.
31	San Francisco University Foundation	3/1/2004	\$150.00	-Blood manganese and alcohol consumption interact on mood states among manganese alloy	-Sze	



production workers. (Bowler, Rosemarie M.) (2003)	-Furbee
-Dose-Effect Relations Between Manganese Exposure and Neurological, Neuropsychological and Pulmonary Function in Confined Space Bridge Welders (Bowler, Rosemarie) (2006)	-Furbee  -Sze  -Furbee, Hurtig
-Issues and Neurological Risk Assessment for Occupational Exposures: The Bay Bridge Welders. (Bowler, Rosemarie M.) (2006)	-Sze  -Sze, Hurtig
-Manganese accentuates adverse mental health effects associated with alcohol use disorders. (Bowler, Rosemarie M.) (2002)	-Sze, Hurtig  - Hurtig, Furbee, Sze, Schapira
-Manganese exposure: Neuropsychological and neurological symptoms and effects in welders (Bowler, Rosemarie M. Diamond, Emily, Drezgic, Marija, Gysens, Sabine, Nakagawa, Sanae) (2006)	
-Manganese neurotoxicity, a continuum of dysfunction: results from a community based study. (Bowler, Rosemarie M.) (1999)	
-Nervous system dysfunction among workers with long-term exposure to manganese. (Bowler, Rosemarie M.) (1994)	
-Neuropsychiatric effects of manganese on mood. (Bowler, Rosemarie M.) (2003)	
-Neuropsychological sequelae of exposure to	

				welding fumes in a group of occupationally exposed men (Gysens, Sabine, Hartney, Christopher, Bowler, Rosemarie M.) (2003)		
32	Schapira, Anthony	8/28/2003 6/7/2004 8/24/2004 12/22/2004 2/1/2005 4/22/2005 5/31/2005 8/15/2005 1/26/2006 3/17/2006 4/20/2006 8/2/2006 11/30/2006 8/10/2007 10/24/2007	\$2,750.00 \$16,800.00 \$16,726.00 \$8,400.00 \$9,000.00 \$18,000.00 \$4,000.00 \$4,283.53 \$17,200.00 \$12,823.34 \$38,800.00 \$65,736.51 \$75,274.25 \$8,800.00 \$8,800.00  <b>\$307,393.63</b>	-Etiology of Parkinson's disease (2006)	-Perl (2)	Disclosed expert.
33	Sethi, Kapil D., M.D.	9/20/2005 2/1/2006 3/31/2006 5/26/2006 6/26/2006 6/30/2006 8/28/2006 9/15/2006 9/30/2006 10/31/2006 11/30/2006 3/19/2007 4/30/2007 9/1/2007 12/4/2007	\$8,534.34 \$11,103.65 \$11,324.00 \$20,395.51 \$20,435.61 \$44,779.90 \$15,669.30 \$46,323.86 \$14,874.65 \$21,172.67 \$17,129.25 \$14,251.74 \$26,387.21 \$5,600.00 \$9,800.00  <b>\$287,781.69</b>	-SIC task force appraisal of clinical diagnostic criteria for Parkinsonian disorders (2003)  -The role of radiotracer imaging in Parkinson's disease (2005)	-Hurtig, Schapira  -Hurtig, Schapira	Disclosed expert.
34	Stampfer, Meier, M.D.	6/1/2005 6/1/2005 7/2/2005 3/5/2006 6/12/2006 12/4/2006 6/21/2007	\$9,000.00 \$13,250.00 \$1,000.00 \$715.00 \$11,275.00 \$22,825.00 \$5,775.00  <b>\$63,840.00</b>	-Number of Parkinson's disease deaths among male welders over time: National Center for Health Statistics mortality data files, 1985-1999  -Welding occupations and Parkinson's disease mortality: analysis of National Center for Health Statistics Mortality Data, 1985-1999 (2006)	-Makuch  -Makuch	Disclosed expert.  Dr. Stampfer is affiliated with the Harvard School of Public Health. See separate entry.
35	Stern, Matthew B., M.D.	3/6/2006 4/30/2006 5/1/2006	\$9,100.00 \$9,100.00 \$17,550.00	-Diagnostic accuracy of [99mTc]TRODAT-1 SPECT imaging in early	-Eidelberg	Disclosed expert.

			<b>\$35,750.00</b>	<p>Parkinson's disease (2004)</p> <p>-The preclinical detection of Parkinson's disease: ready for prime time? (2004)</p> <p>-Magnetic resonance imaging in Parkinson's disease and parkinsonian syndromes (1989)</p>	<p>-Perl, Perl (2)</p> <p>-Sze</p>	
36	Swift, Douglas A.	<p>4/19/2004</p> <p>4/25/2005</p> <p>9/20/2006</p> <p>10/1/2006</p> <p>10/25/2006</p>	<p>\$6,400.00</p> <p>\$3,400.00</p> <p>\$7,400.00</p> <p>\$12,800.00</p> <p>\$2,851.86</p> <p><b>\$32,851.86</b></p>	-The Prevalence of Cognitive Malingering in Persons Reporting Exposure to Occupational and Environmental Substances (2006)	-Furbee	Disclosed expert.
37	Tanner, Caroline M.	3/1/2001	\$3,000.00	<p>-Environmental risk factors in Parkinson's disease (August 1990)</p> <p>-(abstract) Occupation and risk of Parkinson's disease (PD): a preliminary investigation. of Standard Occupational codes (SOC) in twins discordant for disease (2003)</p> <p>-Levodopa and the progression of Parkinson's disease (2004)</p> <p>-Occupation and parkinsonism in three movement disorders clinics (accepted 2004, published 2005)</p> <p>-Occupation and Parkinson's disease onset age in a movement disorders clinic (2004)</p> <p>-Occupational and environmental causes of parkinsonism (1993)</p> <p>-(abstract) Welding and risk of Parkinson's disease (2004)</p>	<p>-Furbee</p> <p>-Furbee</p> <p>-Schapira, Hurtig</p> <p>-Hurtig, Schapira, Furbee, Perl (2)</p> <p>-Furbee</p> <p>-Hurtiga, Schapira</p> <p>-Schapira, Hurtig, Furbee</p> <p>-Makuch</p>	Dr. Tanner is affiliated with The Parkinson's Institute.

				-(abstract) Occupation and Parkinson's disease (PD) onset age in three movement disorders clinics (2004)		
38	Tarsy, Daniel, M.D.	8/15/2005 9/30/2005 10/19/2005 1/4/2006 3/23/2006 4/14/2006 4/24/2006 6/12/2006 9/8/2006 9/19/2006	\$8,726.10 \$1,500.00 \$3,000.00 \$12,899.27 \$6,842.06 \$5,000.00 \$3,500.00 \$2,000.00 \$15,575.00 \$856.10  <b>\$59,898.53</b>	-Diagnostic Criteria for Parkinson's Disease (2005)	-Sze, Schapira	Disclosed expert.
39	University of Alabama Neurology/Parkinson's Research Fund	8/25/2006	\$5,000.00	-Occupation and Parkinson's disease (PD) onset age in three movement disorders clinics (Field, RD, Goldman, SM, Langston, JW, Olanow, CW, Tanner, CM, Watts, RL) (2004)	-Makuch	The University of Alabama is affiliated with Dr. Watts, a disclosed expert.
40	University of Arkansas for Medical Sciences	8/14/2006 8/14/2006 8/15/2006 9/5/2006 9/18/2006	\$6,375.00 \$4,000.00 \$2,500.00 \$6,000.00 \$8,500.00  \$27,375.00	-A brief history of the neurobehavioral toxicity of manganese: some unanswered questions (McMillan, DE) (1999)	-Schapira	The University of Arkansas is affiliated with Dr. Harik, a disclosed expert.  Payments are for work done by Dr. Harik.
41	University of British Columbia	12/23/1997	\$1,500.00	-A case-control study of Parkinson's disease in a horticultural region of British Columbia (Calne, Donald B., Snow, B.J.) (1994)  -A double-blind controlled trial of bilateral fetal nigral transplantation in Parkinson's disease. (Sossi V, Stoessl, A.J.) (2003)  -Alzheimer's disease and Parkinson's disease: distinct entities or extremes of a spectrum of neurodegeneration?	-Schapira, Hurtig, Furbee  -Perl, Perl (2)  -Schapira, Hurtig, Perl, Perl (2)  -Perl (2)  -Hurtig, Makuch, Schapira, Furbee,	The University is affiliated with Dr. Calne. Payment was in connection with the <i>Hite</i> case.

(Calne, Donald B.) (1998)	Perl (2), Sze
-Autosomal dominant parkinsonism associated with variable synuclein and tau pathology. (Stoessl, A.J.) (2004)	-Schapira -Furbee -Furbee
-Chronic manganese intoxication (Calne, Donald B., Wolters, Erik C.) (1989)	-Schapira, Hurtig
-Cock gait in manganese intoxication (Calne, Donald B.) (1997)	-Hurtig, Schapira, Furbee, Perl, Perl (2), Sze
-Experimental and Clinical Neurotoxicology (Calne, Donald) (2000)	-Hurtig, Schapira, Perl, Furbee, Perl (2), Sze
-Criteria for diagnosing Parkinson's disease (Calne, D. B.) (1992)	-Hurtig, Schapira, Sze, Perl (2), Perl, Furbee
-Is the neuropathological "gold standard" diagnosis dead? Implications of clinicopathological findings in an autosomal dominant neurodegenerative disorder. (Calne, Donald B.) (2004)	-Furbee, Hurtig, Perl, Perl (2), Schapira, Sze, Eidelberg
-Levodopa failure in chronic manganism. (Calne, Donald B.) (1994)	-Schapira -Schapira
-Long-Term Progression in Chronic Manganism: Ten Years of Follow-up. (Calne, DB) (1998)	-Hurtig, Schapira, Furbee
-Manganese Intoxication in the Rhesus Monkey: A Clinical, Imaging, Pathologic, and	-Schapira, Hurtig

Biochemical Study. (Shinotoh H, Vingerhoets, F., Beal, M.F., Calne, Donald B., Hewitt, K.A., Snow, B.J.) (1996)	- Eidelberg, Schapira, Hurtig, Furbee, Sze
-Manganism and idiopathic parkinsonism: similarities and differences (Calne, Donald B.) (1994)	-Hurtig, Schapira, Perl, Furbee, Perl (2), Sze
-Neurotoxicology of manganese. (Calne, Donald B.) (1995)	-Hurtig, Perl, Perl (2), Sze, Furbee
-Occupational and environmental risk factors for Parkinson's disease (Lai, BCL, Tsui, JKC) (2002)	- Eidelberg, Hurtig, Schapira
-Occupational risk factors in Parkinson's disease (Calne, Donald B., Marion, S.A., Schulzer, M., Tsui, JKC, Wang, Y.) (1990)	-Schapira, Hurtig
-Parkinson's disease: a case-control study of occupational and environmental risk factors (Calne, Donald B., Hertzman, C, Snow, B.J., Wiens, M.) (1990)	
-Pathogenesis of idiopathic parkinsonism. (Calne, Donald B., Uitti RJ) (1993)	
-Positron emission tomography after MPTP: Observations relating to the cause of Parkinson's disease (Calne, Donald B., Adam, MJ, Ammann, W, Bergstrom, M, Harrop, R, Laihinen, Arto, Martin, WRW, Pate, B.D., Rogers, J, Ruth, T.J., Sayre, C, Stoessl, A.J.) (1985)	

				<p>-Presynaptic and post synaptic striatal dopaminergic function in patients with manganese intoxication: a positron emission tomography study. (Shinotoh H, Snow, B.J., Takahashi, H.) (1997)</p> <p>-Progression after chronic manganese exposure (Calne, Donald B.) (1993)</p> <p>-Sympathetic skin response and RR interval variation in manganese and a comparison with Parkinson's disease (Calne, Donald B.) (1993)</p> <p>-The natural history of neurological manganese over 18 years (Calne, Donald B., Schulzer, M.) (2007)</p> <p>-The role of radiotracer imaging in Parkinson's disease (Stoessl, A.J.) (2005)</p>		
42	University of Minnesota – Biomedical Info Service	5/12/2005 9/14/2005 7/11/2006 3/12/2007 8/9/2007 10/5/2007	\$434.00 \$152.00 \$868.68 \$96.00 \$90.00 \$42.00  <b>\$1,682.68</b>	<p>-Amyotrophic lateral sclerosis and occupational history. A pilot case-control study (Dolliff, G., Roelofs, R.I., Smith, S.A., Strickland, D) (1996)</p> <p>-Diffusion abnormalities of the globi pallidi in manganese neurotoxicity. (Casey, S., Clark HB, Filice, R.W., Woon C) (2004)</p>	-Hurtig  -Perl (2), Hurtig, Schapira	
43	University of Pittsburgh Physicians	4/18/2006	\$1,650.00	-Employment as a welder and Parkinson disease among heavy equipment manufacturing workers (Gula, MJ, Marsh, Gary M.) (2006)	-Furbee, Hurtig, Makuch, Schapira, Perl (2)  -Sze	Dr. Lisa Morrow, a treating doctor in <i>Peabody</i> , is affiliated with University of Pittsburgh Physicians.

				<p>-Manganese levels in a jaundiced long term total parenteral nutrition patient: potentiation of haloperidol toxicity? Case report and literature review. (Mehta RK, Reilly JJ) (1990)</p> <p>-Manganese superoxide dismutase protects against 6-hydroxydopamine injury in mouse brains (Callio, J, Chu, C.T., Oury, T.D.) (2005)</p>	-Hurtig, Schapira	Invoice reflects payment in connection with Dr. Morrow's deposition.
44	University of Rochester	12/5/2006 2/12/2007 7/27/2007 8/29/2007	\$12,363.00 \$1,500.00 \$12,500.00 \$2,000.00  <b>\$28,363.00</b>	<p>-A Mortality Odds Ratio Study of Welders and Parkinson Disease (Eisenberg, Katherien W.) (2007)</p> <p>-Evolution of diagnosis in early Parkinson's disease. (McDermott, Michael P.) (2000)</p> <p>-Levodopa and the progression of Parkinson's disease (Kieburtz, K., Oakes, D, Rudolph, A., Shoulson, I) (2004)</p> <p>-The clearance of manganese chloride in the primate (Cox, C., Hamada, R., Newland, M. Christopher, Oberdoster, G., Weiss, Bernard) (1987)</p> <p>-The role of radiotracer imaging in Parkinson's disease (Holloway, R., Kieburtz, K.) (2005)</p> <p>-Translocation of Inhaled Ultrafine Manganese Oxide Particles to the Central Nervous System. (Eider, Alison, Feikert, Tessa, Finkelstein, Jason, Gelein, Robert, Oberdörster, Günter, Opanashuk, Lisa, Silva, Vanessa) (2006)</p> <p>-Visualizing manganese</p>	-Furbee, Makuch  -Perl, Perl (2)  -Schapira, Hurtig  -Hurtig  -Schapira, Hurtig  -Furbee  -Hurtig, Sze, Schapira, Perl (2), Perl, Schapira  -Makuch, Schapira, Furbee, Hurtig	<p>University of Rochester is affiliated with Dr. Kieburtz, a disclosed expert.</p> <p>Payments reflect work done by Dr. Kieburtz.</p>



				in the primate basal ganglia with magnetic resonance imaging (Ceckler, Toni L., Weiss, Bernard) (1989)		
				-Welding and Parkinson disease: is there a bond? (Kieburz, K, Kurlan, R) (2005)		
45	University of Texas Health Center	4/1/1999	\$1,500.00	-Influence of heat stress on arterial baroreflex control of heart rate in the baboon. (Gorman, A.J., Proppe, D.W.) (1982)	-Furbee  -Schapira, Hurtig, Perl (2)	Payment in connection with deposition in <i>Halfacre</i> case.
				-Lewy-body formation is an aggresome-related process: a hypothesis (DeMartino, G.N.) (2004)	-Sze	
				-MRI brain iron and experimental Parkinson's disease. (Hall S, Rutledge JN, Schallert T) (1992)		
46	U. S. Department of Labor/OSHA	4/17/1998 5/3/2005 6/1/2005 12/7/2006	\$11.60 \$49.40 \$13.48 \$246.00  <b>\$320.48</b>	-Compliance Issues: Manganese Exposure During Welding Operations (Franek, Barbara) (1994)	-Hurtig  -Furbee	
				-Control of Welding Hazards in Defense Industries, Special Bulletin No. 5, US Department of Labor (1942)		
47	Washington University	2/14/2006 7/13/2006 8/23/2006	\$28,351.88 \$46,100.13 \$10,600.00  <b>\$85,052.01</b>	-[18F] FDOPA PET and clinical features in parkinsonism due to manganism (Antenor, J.A., Kotagal, V, Mc-Gee-Minnick, L., Moerlein, S.M., Perlmutter, Joel S., Racette, Brad A., Videen, T.O.) (2005)	-Hurtig, Furbee, Perl (2), Schapira  -Sze, Eidelberg  -Furbee	Payments were made in connection with discovery served on Dr. Brad Racette and Washington University.
				-[18F]FDOPA PET and clinical features in a Parkinson's disease patient with manganese exposure. (Kotagal, V, Perlmutter, Joel S., Racette, Brad A.,	-Makuch	

Videen, T.O., Antenor, J, McGee-Minnich, L) (2002)

-Schapira, Hurtig

-A multi-incident, Old-Order Amish family with PD. (Goate, A., Lin, J., Perlmutter, J.S., Racette, B.A., Rundle, M., Saccone, N.L., Smemo, S., Suarez, B., Wang, J.C.) (2002)

-Makuch

-Schapira, Eidelberg, Sze

-A rapid method for mass screening for parkinsonism (Evanoff, Bradley A., Good, Laura M., Jennings, Danna, Perlmutter, Joel S., Racette, Brad A., Tabbal, Samer D.) (2005)

-Schapira, Hurtig

-Schapira, Sze, Hurtig, Furbee, Perl, Eidelberg

-Industrial and occupational exposures and Parkinson's disease (Racette, Brad A.) (2005)

-Prevalence of parkinsonism and relationship to exposure in a large sample of Alabama welders (Evanoff, Bradley A., Good, Laura M., Perlmutter, Joel S., Racette, Brad A., Tabbal, Samer D.) (2005)

-The impact of litigation on neurologic research (Perlmutter, Joel S., Racette, Brad A., Wisberg, CA) (December 2006)

-The role of radiotracer imaging in Parkinson's disease (Powers, W.) (2005)

-Welding related parkinsonism: clinical features, treatment, and pathophysiology (McGee-Minnich, L., Mink, J.W., Moerlein, S.M., Perlmutter, Joel S., Racette, Brad A.,

				Videen, T.O.) (2001)		
48	Watts, Ray L.	6/20/2001 7/3/2001 8/23/2001 12/28/2005 1/31/2006 4/5/2006 5/1/2006 6/26/2006 7/25/2006 8/10/2006 8/25/2006 2/17/2007 2/18/2007 3/24/2007 6/25/2007	\$5,000.00 \$1,368.28 \$6,750.66 \$10,938.10 \$7,000.68 \$2,625.00 \$6,721.50 \$10,000.00 \$10,000.00 \$10,000.00 \$20,000.00 \$10,633.60 \$6,250.00 \$5,000.00 \$25,625.00  <b>\$137,912.82</b>	-Occupation and parkinsonism in three movement disorders clinics (accepted 2004, published 2005)	-Hurtig, Schapira, Furbee, Perl (2)	Disclosed expert.
49	Wrisberg, Carrie	See separate entry for Washington University.	See separate entry for Washington University.	-The impact of litigation on neurologic research (December 2006)	-Schapira, Eidelberg, Sze	Wrisberg is counsel for Racette and Washington University. Checks made payable to Washington University were delivered in care of Ms. Wrisberg.

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#	Payee	Invoice date(s)	Payment amounts and total	Article(s) / listing related to payee	Expert(s) On Whose List Article Appears	Basis for Privilege
1	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2	Duke University Medical Center					[REDACTED]
3	Environ International Corp.	9/30/2003 12/26/2005	\$3,215.25 \$3,498.00 \$6,713.25	-Determination of an Occupational Exposure Guideline for Manganese Using the Benchmark Method, Risk Analysis (Clewell, Crump, Lawrence) (2003)  -State-of-the-Science Review: Does Manganese Exposure During Welding Pose a Neurological Risk? (Santamaria) (2007)  -The effects of manganese in air (Clewell, Crump) (2004)  (Environ Health Sciences Institute) -Pharmacokinetic Modeling of Manganese: III. Physiological Approaches Accounting for Background and Tracer Kinetics (Covington) (2007)	-Size  -Furbee  -Size  -Furbee	The work product claim as to this entry was withdrawn and the information was provided to plaintiffs on February 6, 2008.  Attorney Work Product - Undisclosed, non-testifying expert.  2003 payment for time spent consulting with Dr. Clewell on issues related to welding fume litigation.  2005 payment for time spent by a statistician at Environ on issues related to welding fume litigation. In addition, Dr. Santamaria billed three hours of time on the same project, for a total of \$495.
4	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
5	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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6	International Epidemiology Institute	11/6/2001 11/30/2001 3/1/2002 6/4/2002	\$4,600.00 \$6,781.00 \$13,500.00 \$7,800.00	<ul style="list-style-type: none"> <li>-Cobb, Drinkler (1934)</li> <li>-Estimation of Personal Exposures to Particulate Matter and Metals in Boiler Overhaul Work (Christian, Hauser, Herrick, Liu, Smith, Williams, Woodin) (2005)</li> <li>-Exposure to Fuel - Oil Ash and Welding Emissions During the Overhaul of an Oil-Fired Boiler (Christian, Hauser, Herrick, Liu, Smith, Williams, Woodin) (2005)</li> <li>-The Association of Expired Nitric Oxide with Occupational Particulate Metal Exposure (Christian, Hauser, Herrick, Kim, Ward) (2003)</li> <li>-Ventilation in Arc Welding with Coated Electrodes (Drinkler, Tebbens) (1941)</li> <li>-Welding fumes in steel fabrication (Drinkler) (1944)</li> <li>-The pathogenesis of neurodegenerative disease: neurotoxic mechanisms of actions and genetics (Feldman) (1999)</li> <li>-The role of radiotracer imaging in Parkinson's disease (Lange) (2005)</li> <li>-Number of Parkinson's disease deaths among male welders over time: National Center for Health Statistics mortality data files, 1985-1999 (Stampfer)</li> <li>-Welding occupations and Parkinson's disease mortality: analysis of National Center for Health Statistics Mortality Data, 1985-1999 (Stampfer) (2006)</li> </ul>	<ul style="list-style-type: none"> <li>-Perl, Hurlig, Schapira, Sze</li> <li>-Furbee</li> <li>-Furbee</li> <li>-Furbee</li> <li>-Schapira</li> <li>-Perl, Perl (2)</li> <li>-Schapira, Hurlig</li> <li>-Makuch</li> <li>-Makuch</li> </ul>	<p>with Harvard. The researcher is not the author of any of the listed articles</p>
				<ul style="list-style-type: none"> <li>-A cohort study of Parkinson's disease and other neurodegenerative disorders in Danish welders (Blot, Cohen) (2005)</li> </ul>	<ul style="list-style-type: none"> <li>-Makuch, Schapira, Hurlig, Perl (2), Furbee</li> </ul>	<p>Attorney Work Product - Undisclosed, non-testifying expert. Invoices reflect time spent consulting with Defendants on issues related to welding fume litigation. These invoices were not for</p>

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		9/3/2002 12/4/2002 3/31/2003 5/12/2003 10/16/2003 12/1/2003 1/6/2004 7/2/2004 3/4/2005	\$17,900.00 \$9,500.00 \$24,200.00 \$5,950.00 \$22,500.00 \$27,750.00 \$6,750.00 \$30,150.00 \$8,100.00	-Parkinson's disease and other basal ganglia or movement disorders in a large nationwide cohort of Swedish welders (Blot, Brandl, Ekblom, Forod, Fryszak, McLaughlin, Nise, Sjogren) (2006)	-Makuch, Hurtig, Furbee, Peil (2), Schapira	the funding of Danish and Swedish studies. Nor were they for time spent by IEL responding to discovery requests related to the Danish and Swedish studies. Finally, the total amount shown excludes \$127,500.00 billed for Dr. Lipworth, a disclosed expert, from March 2002 through March 2005, which are included on the listed invoices. Those three categories of payments have been disclosed on the chart provided to plaintiffs.
			\$57,981.00 <i>(total excludes payments for Dr. Lipworth - see note under Basis for Privilege)</i>			
7	Jenkins, Neil T.	8/03/2004 8/03/2004 1/25/2005	\$5,570.50 \$1,400.00 \$350.00	-Fate of manganese associated with the inhalation of welding fumes: potential neurological effects (2005)	-Furbee	Attorney Work Product - Undisclosed, non-testifying expert. Payments for time spent consulting with Defendants on issues related to welding fume litigation.
			\$7,320.50			Two August 3, 2004 invoices were combined previously.
8	Kim, Yangho	10/9/2001 11/8/2001 3/10/2003 5/14/2004	\$2,050.00 \$4,950.00 \$2,700.00 \$7,519.45	-Manganese does not alter the severe neurotoxicity of MPTP (2007)  -A retrospective cohort study of Parkinson's disease in Korean shipbuilders (2006)	-i-furbee  -Makuch, Schapira, Hurtig, Furbee	Attorney Work Product - Undisclosed, non-testifying expert. Payments for time spent consulting with Defendants on issues related to welding fume litigation.
			\$17,219.45	-Calcification mimicking manganese-induced increased signal intensities in T1-weighted MR images in a patient taking herbal medicine: case report (2003)  -Dopamine transporter density is decreased in Parkinsonian patients with a history of manganese exposure: what does it mean? (2002)	-Sze, Hurtig  -Makuch	

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#	Payee	Invoice date(s)	Payment amounts and total	Article(s) / listing related to payee	Expert(s) On Whose List Article Appears	Basis for Privilege
				-Dopamine transporter SPECT of a liver cirrhotic with atypical parkinsonism (2007) -High signal intensities on T1-weighted MRI as a biomarker of exposure to manganese (2004) -High signal intensity on magnetic resonance imaging as a predictor of neurobehavioral performance of workers exposed to manganese (2006) -Idiopathic parkinsonism with superimposed manganese exposure: utility of positron emission tomography (1999)	-Schapira, Furbee, Size, Hurlig -Eidelberg, Furbee -Hurlig, Schapira, Perl (2), Size, Furbee -Schapira, Furbee, Size, Hurlig -Eidelberg, Makuch, Schapira, Hurlig, Furbee, Size, Perl (2)	
				-Increase in signal intensities on T1-weighted magnetic resonance images in asymptomatic manganese-exposed workers (1999) -Manganese induced parkinsonism: A case report (1998) -Neuroimaging in manganese (2006)	-Hurlig, Schapira, Size, Furbee -Makuch, Schapira, Hurlig, Size -Furbee, Size	
				-Occupations and Parkinson's disease: A case-control study in South Korea (2004) -Occupations and Parkinson's disease: a multi-center case control study in South Korea (2004)	-Makuch, Schapira, Hurlig, Furbee, Size -Makuch, Schapira, Hurlig, Furbee, Size	

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9	Larabee, Glenn J.	3/17/2004 9/30/2004	\$1,812.50 \$375.00 <b>\$2,187.50</b>	-Whole Blood Manganese Correlates with High Signal Intensities on T1-Weighted MRI in Patients with Liver Cirrhosis (2003) -Methodological problems in the neuropsychological assessment of effects of exposure to welding fumes and manganese (2007)	-Furbee, Sze, Hurlig, Schapira -Larabee, Hurlig	Attorney Work Product - Undisclosed, non-testifying expert. Payment in connection with meeting with Dr. Larabee to evaluate him as a potential witness or consultant in welding fume litigation.
10	Lozano, Andres M.	3/5/2004 8/25/2004 4/13/2005 10/26/2005 3/20/2007	\$6,250.00 \$6,875.00 \$6,250.00 \$5,000.00 \$625.00 <b>\$23,000.00</b>	-Determining the position and size of the subthalamic nucleus based on magnetic resonance imaging results in patients with advanced Parkinson disease (2004)	-Sze	Attorney Work Product - Undisclosed, non-testifying expert. Payments for time spent consulting with Defendants on issues related to welding fume litigation.
11	McMillan, Grant	12/23/2003 5/10/2004 11/6/2004 4/6/2005	\$922.03 \$5,181.79 \$46,427.39 \$40,000.00	-Is electric arc welding linked to manganese or Parkinson's disease? (2005)	-Makuch, Schapira, Furbee, Hurlig	Attorney Work Product - Undisclosed, non-testifying expert. Payments for time spent consulting with Defendants on issues related to welding fume litigation.

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		6/17/2005 7/27/2005 1/5/2006	\$3,336.47 \$4,536.00 \$5,280.00 <b>\$105,683.68</b>	-The Health of Welders in Naval Dockyards: the Work Situation and Sickness Absence Problems (1985)	-Szc, Furber	
12	Parkinson's Disease Research Corporation	4/30/2006 5/5/2006 6/9/2006 7/3/2006 8/16/2006 8/28/2006 10/7/2006 10/24/2006 11/29/2006 12/27/2006 2/3/2007 3/5/2007 4/2/2007 5/8/2007 6/1/2007 7/5/2007 8/2/2007 9/4/2007 10/1/2007 11/5/2007	\$39,040.00 \$40,500.00 \$42,889.40 \$33,000.00 \$50,578.06 \$81,992.00 \$63,080.00 \$76,000.00 \$76,591.97 \$32,000.00 \$44,632.85 \$56,250.00 \$64,020.00 \$56,040.00 \$51,916.92 \$50,000.00 \$52,000.00 \$62,000.00 \$61,000.00 \$66,000.00 <b>\$1,099,571.20</b>	See articles listed for Dr. Olanow on non-privileged chart.		Attorney Work Product - Undisclosed, non-testifying expert Dr. Olanow is affiliated with Parkinson's Disease Research Corporation. Payments for time spent consulting with Defendants on issues related to welding fume litigation after Dr. Olanow ceased being identified as a testifying expert.
13	Psychological Systems, Inc.	7/27/2004 8/5/2004	\$9,200.00 \$2,950.00 <b>\$12,150.00</b>	-Methodological problems in the neuropsychological assessment of effects of exposure to welding fumes and manganese (Griffenstein, Manfred) (2004)  -Neuropsychological correlates of manganese exposure: A meta-analysis (Griffenstein, Manfred) (2007)	-Furber, Hartig  -Furber	Psychological Systems, Inc. is affiliated with Dr. Griffenstein.

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14	Rohling, Martin L.	12/12/2004 12/21/2004 12/31/2004 3/5/2005 4/30/2005 7/1/2005 12/7/2005 1/5/2006 4/6/2006 5/31/2006 6/30/2006	\$6,240.00 \$3,000.00 \$12,631.00 \$24,385.00 \$21,680.00 \$5,000.00 \$750.00 \$7,008.00 \$11,696.00 \$7,475.00 \$11,375.00 \$111,240.00	-A meta-analysis of the neuropsychological effects of occupational exposure to manganese (2006)	-Futrer, Maktuch Article Appears	Attorney Work Product - Undisclosed, non-testifying expert. Payments for time spent consulting with Defendants on issues related to welding fume litigation.
15	University of Birmingham (in England)	12/19/2003 9/3/2004	\$553.25 \$18,219.00 \$18,772.25	-Is electric arc welding linked to manganese or Parkinson's disease? (McMillan, G) (2005)	-Makuch, Schapira, Fubee, Hurlig	Attorney Work Product - Undisclosed, non-testifying expert. Payments for time spent consulting with Grant McMillan or another researcher, who are affiliated with the University, on issues related to welding fume litigation.
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]