

DUKE UNIVERSITY MEDICAL CENTER
CURRICULUM VITAE

Date Prepared: 2/17/17

Name: Mark A. Stacy, M.D.

Primary academic appointment: Department of Neurology

Primary academic department: Neurology

Present academic rank and title:

Professor with Tenure, Department of Neurology

Vice Dean of Clinical Research, Duke University Medical Center

Date and rank of first Duke Faculty appointment: Associate Professor without Tenure; 07/01/03

Medical Licensure: North Carolina License #: 200300890

Date of License: 5/4/2013

Specialty certification(s) and dates:

American Academy of Neurology and Psychiatry 1992

Date of birth: May 4, 1959 **Place:** Cape Girardeau, Missouri, USA

Citizen of: United States

Education:	Institution	Date	Degree
High School	Cape Girardeau Central High School	1977	
College	Southeast Missouri State University, Cape Girardeau, Missouri	1977 –1981	B.S.
Graduate School	University of Missouri	1981 –1982	
Professional School	University of Missouri Columbia, Missouri	1982 –1986	M.D.

Professional training and academic career:

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
Duke University Medical Center	Vice Dean for Clinical Research	2011 - present
Duke University Medical Center	Professor of Neurology with Tenure	2010 – present
Duke University Medical Center	Associate Dean for Clinical Research	2009 – 2011
Duke Institute of Brain Science	Faculty member	2009 – present
Duke University Medical Center	Associate Professor of Medicine/Neurology with Tenure	2006 – 2010
Duke University Medical Center	Associate Professor of Medicine/Neurology without Tenure	2003 – 2006
Duke University Medical Center	Director, Neurology Clinical Research Organization	2005 - 2010
Duke University Medical Center	Chief Operations Officer, Neurology Clinical Research Organization	2004 - 2005
Duke University Medical Center	Director, Movement Disorders Center	2003 – present
Durham VA Hospital	Attending Physician	2003 – 2004
Muhammad Ali Parkinson Research Center, Director		1997 – 2003
Barrow Neurological Institute, St. Joseph's Hospital Attending Neurologist		1996 – 2003
University of Missouri, Director, Parkinson's Disease Clinic and Movement Disorders Center		1992 – 1996
University of Missouri School of Medicine	Assistant Professor of Neurology	1991 – 1996
Harry Truman Memorial Veterans Hospital	Neurology Consultant	1991 – 1996
Baylor College of Medicine, Houston	Fellowship in Movement Disorders	1990 – 1991

Professional training and academic career: (continued)

Hahnemann University, Philadelphia	Clinical Instructor of Neurology	1989 – 1990
Hahnemann University, Philadelphia	Chief Resident in Neurology	1989 – 1990
Hahnemann University, Philadelphia	Neurology Resident	1987 – 1990
St. Mary's Hospital, St. Louis	Internal Medicine Internship	1986 – 1987

Publications (Refereed Journals):

1. **Stacy M**, Jankovic J. Tardive dyskinesia. *Curr Opin Neurol Neurosurg* 1991;3:343-9.
2. **Stacy M**, Jankovic J. Tardive tremor. *Mov Disord* 1992;7:53-7.
3. **Stacy M**, Jankovic J. Differential diagnosis of Parkinson's disease and the Parkinsonism plus syndromes. *Neurol Clin* 1992;10:341-60.
4. **Stacy M**, Jankovic J. Current approaches in the treatment of Parkinson's disease. *Ann Rev Med* 1993;44:431-40.
5. **Stacy M**, Cardoso F, Jankovic J. Tardive stereotypy and other movement disorders in tardive dyskinesias. *Neurology* 1993;43:937-41.
6. Sahota PK, **Stacy M**. Pain as a Manifestation of Seizure Disorder. *Clinical Electro-Encephalography* 1993;24:63-6.
7. Nair J, **Stacy M**. A case of salicylate induced aseptic meningitis. *Psychosomatics* 1993;37:2.
8. **Stacy M**, Jankovic J. Childhood dystonia. *Ped Ann*: 1993;22:53-8.
9. Logan-Clubb L, **Stacy M**. An open-labeled assessment of side effects associated with interferon 1-Beta in the treatment of multiple sclerosis. *J Neurosci Nurs* 1995;27:344-7.
10. **Stacy M**, Brownlee HJ. Treatment options for early Parkinson's disease. *Amer Fam Phys* 1996;53:1281-7.
11. Menditto AA, Beck NC, Stuve P, Fischer JA, **Stacy M**, Logue MB, Baldwin LJ. Effectiveness of clozapine and a social learning program for severely disabled psychiatric inpatients. *Psychiatric Services* 1996;47:46-52.
12. Childers M, **Stacy M**, Cooke D, Stonnington HH. Comparison of two injection techniques using botulinum toxin in spastic hemiplegia. *Am J Phys Med Rehabil* 1996;75:462-9.
13. **Stacy M**. Treatment of non-motor symptoms in Parkinson's disease. *CNS Spectrums* 1998;3:41-5.
14. Shill H, **Stacy M**. Respiratory function in Parkinson's disease. *Clinical Neuroscience* 1998; 5:131-5.
15. **Stacy M**. Managing late complications of Parkinson's disease. *Medical Clinics of North America* 1999;83:469-81.
16. Shill H, **Stacy M**. Malignant catatonia secondary to sporadic encephalitis lethargica. *J Neurol Neurosurg Psychiatry* 2000;69:402-3.
17. **Stacy M**. Pharmacotherapy for advanced Parkinson's disease. *Pharmacotherapy* 2000;20:S8-16.
18. **Stacy M**. Idiopathic cervical dystonia: An overview. *Neurology* 2000;55(Suppl 5):S52-8.
19. Mahant P, **Stacy M**. Normal aging and movement disorders. *Neurol Clin N Amer* 2000;19:553-63.
20. Shoulson I, Penney J, McDermott M, Schwid S, Kayson E, Chase T, Fahn S, Greenamyre JT, Lang A, Siderowf A, Pearson N, Harrison M, Rost E, Colcher A, Lloyd M, Matthews M, Pahwa R, McGuire D, Lew MF, Schuman S, Marek K, Broshjeit S, Factor S, Brown D, Feigin A, Mazurkiewicz J, Ford B, Jennings D, Dilllon S, Comella C, Blasucci L, Janko K, Shulman L, Wiener W, Bateman-Rodriguez D, Carrion A, Suchowersky O, Lafontaine AL, Pantella C, Siemers E, Belden J, Davies R, Lannon M, Grimes D, Gray P, Martin W, Kennedy L, Adler C, Newman S, Hammerstad J, Stone C, Lewitt P, Bardram K, Mistura K, Miyasaki J, Johnston L, Cha JH, Tennis M, Panniset M, Hall J, Tetrud J, Friedlander J, Hauser R, Gauger L, Rodnitzky R, Deleo A, Dobson J, Seeberger L, Dingmann C, Tarsy D, Ryan P, Elmer L, Ruzicka D, **Stacy M**, Brewer M, Locke B, Baker D, Casaceli C, Day D, Florack M, Hodgeman K, Laroia N, Nobel R, Orme C, Rexo L, Rothenburgh K, Sulimowicz K, Watts A, Wratni E, Tariot P, Cox C, Leventhal C, Alderfer V, Craun AM, Frey J, McCree L, McDermott J, Cooper J, Holdich T, Read B; Parkinson Study Group. A randomized, controlled trial of remacemide for motor fluctuations in Parkinson's disease. *Neurology* 2001;56:455-62.

Publications (Refereed Journals): (continued)

21. DeStefano AL, Golbe LI, Mark MH, Lazzarini AM, Maher NE, Saint-Hilaire M, Feldman RG, Guttman M, Watts RL, Suchowersky O, Lafontaine AL, Labelle N, Lew MF, Waters CH, Growdon JH, Singer C, Currie LJ, Wooten GF, Vieregge P, Pramstaller PP, Klein C, Hubble JP, **Stacy M**, Montgomery E, MacDonald ME, Gusella JF, Myers RH. Genome-wide scan for Parkinson's disease: the GenePD Study. *Neurology* 2001;57:1124-6.
 22. Baev K, Greene A, Marciano F, Samanta J, Shetter A, Smith K, **Stacy M**, Spetzler R. Physiology and pathophysiology of cortico-basal ganglia-thalamocortical loops: Theoretical and practical aspects. *Progress in Neuro-Psychopharmacology & Biological Psychiatry* 2002;26:771-804.
 23. **Stacy M**. Sleep disorders in Parkinson's disease: Epidemiology and management. *Drugs & Aging* 2002;19:733-9.
 24. Maher NE, Golbe LI, Lazzarini AM, Mark MH, Currie LJ, Wooten GF, Saint-Hilaire M, Wilk JB, Volcjak J, Maher JE, Feldman RG, Guttman M, Lew M, Waters CH, Schuman S, Suchowersky O, Lafontaine AL, Labelle N, Vieregge P, Pramstaller PP, Klein C, Hubble J, Reider C, Growdon J, Watts R, Montgomery E, Baker K, Singer C, **Stacy M**, Myers RH. Epidemiologic study of 203 sibling pairs with Parkinson's disease: The GenePD Study. *Neurology* 2002;58:79-84.
 25. DeStefano AL, Lew MF, Golbe LI, Mark MH, Lazzarini AM, Guttman M, Montgomery E, Waters CH, Singer C, Watts RL, Currie LJ, Wooten GF, Maher NE, Wilk JB, Sullivan KM, Slater KM, Saint-Hilaire MH, Feldman RG, Suchowersky O, Lafontaine AL, Labelle N, Growdon JH, Vieregge P, Pramstaller PP, Klein C, Hubble JP, Reider CR, **Stacy M**, MacDonald ME, Gusella JF, Myers RH. PARK3 influences age at onset in Parkinson disease: A genome scan in the GenePD Study. *Am J Hum Genet* 2002;70:1089-95.
 26. Joyce JN, Ryoo HL, Beach, TB, Caviness JN, **Stacy M**, Gurevich EV, Reiser M, Adler CH. Loss of response to levodopa in Parkinson's disease and co-occurrence with dementia: role of D3 and not D2 receptors. *Brain Res* 2002;955:138-52.
 27. Shill HA, **Stacy M**. Respiratory complications of Parkinson's disease. *Semin Respir Crit Care Med* 2002;23:261-6.
 28. Driver-Dunckley E, Samanta J, **Stacy M**. Pathological gambling associated with dopamine agonist therapy in Parkinson's disease. *Neurology* 2003;61:422-3.
 29. Longstaff MG, Mahant PR, **Stacy MA**, Van Gemmert AW, Leis BC, Stelmach GE. Discrete and dynamic scaling of the size of continuous graphic movements of Parkinsonian patients and elderly controls. *J Neurol Neurosurg Psychiatry* 2003;74:299-304.
 30. Nutt JG, Burchiel KJ, Comella CL, Jankovic J, Lang AE, Laws ER Jr., Lozano AM, Penn RD, Simpson RK, **Stacy M**, Wooten GF; ICV GDNF Study Group. Implanted intracerebroventricular Glial cell line-derived neurotrophic factor. Randomized, double-blind trial of glial cell line-derived neurotrophic factor. *Neurology* 2003;60:69-73.
 31. Karamohamed S, DeStefano AL, Wilk JB, Shoemaker CM, Golbe LI, Mark MH, Lazzarini AM, Suchowersky O, Labelle N, Guttman M, Currie LJ, Wooten GF, **Stacy M**, Saint-Hilaire M, Feldman RG, Sullivan KM, Xu G, Watts R, Growdon J, Lew M, Waters C, Vieregge P, Pramstaller PP, Klein C, Racette BA, Perlmutter JS, Parsian A, Singer C, Montgomery E, Baker K, Gusella JF, Fink SJ, Myers RH, Herbert A; GenePD study. A haplotype at the PARK3 locus influences onset age for Parkinson's disease: the GenePD study. *Neurology* 2003;61:1557-61.
 32. **Stacy M**. Apomorphine North American clinical experience. *Neurology* 2004;62 (suppl): S18-21.
 33. Koller WC, **Stacy M**. Other formulations for apomorphine and future considerations for subcutaneous injection therapy. *Neurology* 2004;62(suppl):S22-6.
 34. Scott WK, Zhang F, Stajich JM, Scott BL, **Stacy M**, Vance JM. Family-based case-control study of cigarette smoking and Parkinson disease. *Neurology* 2005;64:442-7.
- Publications (Refereed Journals):** (continued)
35. **Stacy M**, Bowron A, Guttman M, Hauser R, Hughes K, Larsen JP, Lewitt P, Oertel W, Quinn N, Sethi K, Stocchi F. Identification of motor and non-motor wearing-off in Parkinson's disease: Comparison of a patient questionnaire versus a clinician assessment. *Mov Disord* 2005;20:726-33.

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36. Karamohamed S, Golbe LI, Mark MH, Lazzarini AM, Suchaorwersky O, Labelle N, Guttman M, Currie LJ, Wooten GF, **Stacy M**, Saint-Hilaire M, Feldman RG, Liu J, Shoemaker CM, Wilk JB, De Stefano AL, Latourelle JC, Xu G, Watts R, Growdon J, Lew M, Waters C, Wieregge P, Pramstaller PP, Klein C, Racette BA, Perlmutter JS, Parsian A, Singer C, Montgomery E, Baker K, Gusella JF, Herbert A, Myers RH. Absence of previously reported variants in the SCNA (G88C and G209A), NR4A2 (T291D and T245G) and the DJ-1 (T497C) genes in familial Parkinson's disease from the GenePD study. *Mov Disord* 2005;20:1188-91.
37. Holloway RG, Shoulson I, Fahn S, Kieburtz K, Lang A, Marek K, McDermott M, Seibyl J, Weiner W, Musch B, Kamp C, Welsh M, Shinaman A, Pahwa R, Barclay L, Hubble J, LeWitt P, Miyasaki J, Suchowersky O, **Stacy M**, Russell DS, Ford B, Hammerstad J, Riley D, Standaert D, Wooten F, Factor S, Jankovic J, Atassi F, Kurlan R, Panisset M, Rajput A, Rodnitzky R, Shults C, Petsinger G, Waters C, Pfeiffer R, Biglan K, Borchert L, Montgomery A, Sutherland L, Weeks C, DeAngelis M, Sime E, Wood S, Pantella C, Harrigan M, Fussell B, Dillon S, Alexander-Brown B, Rainey P, Tennis M, Rost-Ruffner E, Brown D, Evans S, Berry D, Hall J, Shirley T, Dobson J, Fontaine D, Pfeiffer B, Brocht A, Bennett S, Daigneault S, Hodgeman K, O'Connell C, Ross T, Richard K, Watts A; Parkinson Study Group. Pramipexole vs levodopa as initial treatment for Parkinson disease: a 4-year randomized controlled trial. *Arch Neurol* 2004;61:1044-53.
38. Kolls BJ, **Stacy M**. Apomorphine: An Overview of Clinical Use. *Aging Health* 2005;1:193-202.
39. Lang, AE, Gill S, Patel NK, Lozano A, Nutt JG, Penn R, Brooks DJ, Hotton G, Moro E, Heywood P, Brodsky MA, Burchiel K, Hutchinson M, Kelly P, Dalvi A, Scott B, **Stacy M**, Turner D, Wooten VGF, Elias WJ, Laws ER, Dhawan V, Stoessl AJ, Matcham J, Coffey RJ, Traub M. A multicenter, randomized, double-blind, placebo controlled trial of liatermin (r-metHuGDNF) administered by bilateral Intraputaminial infusion to patients with idiopathic Parkinson's disease. *Ann Neurol* 2006;59:459-66.
40. Ondo WG, Jankovic J, Connor GS, Pahwa R, Elble R, **Stacy M**, Koller WC, Schwarzman L, Wu S-C, Ph.D., Hulihan JF on behalf of the Topiramate Essential Tremor Study Investigators. Topiramate in essential tremor: A double-blind, placebo-controlled trial. *Neurology* 2006;66:672-7.
41. Hancock DB, Martin ER, Fujiwara K, **Stacy MA**, Scott BL, Stajich JM, Jewett R, Li Y-L, Hauser MA, Vance JM, Scott WK. NOS2A and the modulating effect of cigarette smoking in Parkinson disease. *Ann Neurol* 2006;60:366-73.
42. Kolls B, **Stacy M**. Apomorphine: A rapid rescue agent for motor and non-motor fluctuations in advanced Parkinson's disease. *Clinical Neuropharmacol* 2006;29:292-301.
43. **Stacy M**, Hauser R, Oertel W, Schapira A, Sethi K, Stocchi F, Tolosa E. End of Dose Wearing-Off in Parkinson's Disease: a 9-question survey assessment. *Clin Neuropharmacol* 2006;29:312-21.
44. Jankovic J, Hunter C, Dolimbek BZ, Dolimbek GS, Adler C, Brashear A, Comella CL, Gordon M, Riley D, Sethi K, Singer C, **Stacy M**, Tarsy D, Zouhair Atassi M. Clinico-immunologic aspects of Botulinum Toxin Type B Treatment of Cervical Dystonia. *Neurology* 2006;67:2233-5.
45. **Stacy M**, Hauser R, and the Wearing Off Study Group. Development of a Wearing-Off Patient Questionnaire to facilitate recognition of the motor and non-motor symptoms of wearing-off in Parkinson's disease. *J Neural Transm* 2007;114:211-7.
46. Hancock DB, Martin ER, Stajich JM, **Stacy MA**, Scott BL, Vance JM, Scott WK. Smoking, caffeine and nonsteroidal anti-inflammatory drugs in families with Parkinson's disease. *Arch Neurol* 2007;64:576-80
47. Pahwa R, **Stacy MA**, Factor SA, Lyons KE, Stocchi F, Hersh BP, Elmer LW, Truong DD, Earl NL on behalf of the EASE-PD Adjunct Study Investigators. A randomized, double-blind, placebo-controlled, parallel-group study of ropinirole 24-hour prolonged release as adjunctive therapy in patients with Parkinson's disease not optimally controlled on L-dopa (EASE-PD Adjunct study). *Neurology* 2007;68:1108-15.
48. Jankovic J, **Stacy M**. Medical management of motor complications in Parkinson's disease patients on carbidopa/levodopa. *CNS Drugs* 2007;21:667-92.

Publications (Refereed Journals): (continued)

49. **Stacy M**, Eible RJ, Ondo, Wu S-C, Hulihan J for the Tremor Rating Scale Study Group. Assessment of Inter-Rater and Intra-Rater Reliability of the Tremor Rating Scale (TRS) in Essential Tremor. *Mov Disord* 2007;22:833-8.
50. Chou KL, **Stacy MA**. Skin rash associated with Sinemet does not equal levodopa allergy. *Neurology* 2007;68:1078-9.
51. Ravina B, Marder K, Fernandez H, Friedman J, McDonald W, Murphy D, Aarsland D, Babcock D, Cummings J, Endicott J, Factor S, Galpern W, Lees A, Marsh L, **Stacy M**, Gwinn-Hardy K, Voon V, Goetz C. Diagnostic criteria for psychosis in Parkinson's disease: Report of an NINDS/NIMH Work Group. *Mov Disord* 2007;22:1061-8.
52. Galpern WR, **Stacy M**. Management of impulse control disorders in Parkinson's disease. *Curr Treat Options Neurol* 2007;9:189-97.
53. Menon R, **Stacy M**. Apomorphine in the treatment of Parkinson's disease. *Exp Opin Pharmacother* 2007;8:1941-50.
54. **Stacy M**, Silver D. Apomorphine for the acute treatment of "off" episodes in Parkinson's disease. *Parkinsonism & Related Disorders* 2008;14:85-92.
55. **Stacy M**, Murphy JM, Greeley DR, Stewart RM, Murck H, Meng X on behalf of the COMPASS-1 study group. The sensitivity and specificity of a 9-item Wearing-Off Questionnaire. *Parkinsonism Relat Disord* 2008;14:205-12.
56. Kulkarni AS, Balkrishnan R, Kirsch J, Anderson RT, Edin HM, **Stacy M**. Medication adherence and associated outcomes in Medicare HMO-enrolled older adults with Parkinson's Disease: A longitudinal cohort study. *Mov Disord* 2008;23:359-65.
57. **Stacy M**, Galbreath A. Optimizing long-term therapy for Parkinson's disease: levodopa, dopamine agonists, and treatment-associated dyskinesia (part 1). *Clin Neuropharmacol* 2008;31:51-6.
58. Hancock DB, Martin ER, Mayhew GM, Jeffrey M Stajich JM, Jewett R, **Stacy MA**, Scott BL, Vance JM, Scott WK. Pesticide exposure and risk of Parkinson's disease: a family-based case-control study. *BMC Neurology* 2008;8:6-10.
59. Ferrara J, Gupta D, Foster E, Garman K, **Stacy M**. Extraocular muscle dystonia due to acquired (non-Wilsonian) hepatocerebral degeneration. *Mov Disord* 2008;23:875-8.
60. **Stacy M**, Galbreath A. Optimizing long-term therapy for Parkinson's disease: treatment-associated dyskinesia (part 2). *Clin Neuropharmacol* 2008;31:120-5.
61. **Stacy M**, Silver D, Mendis T, Sutton J, Mori A, Chaikin P, Sussman NM. A 12-week, placebo-controlled study (6002-US-006) of istradefylline in Parkinson's disease. *Neurology* 2008;70:2233-40.
62. **Stacy M**. Epidemiology, clinical presentation, and diagnosis of cervical dystonia. *Neurol Clin N Amer* 2008;26(suppl 1):S23-42.
63. Ferrara JM, **Stacy M**. Impulse control disorders and Parkinson's disease. *CNS Spectr* 2008;13:690-8.
64. Hallett M, Evinger C, Jankovic J, **Stacy M**; BEBRF Workshop. Update on Blepharospasm. *Neurology* 2008;71:1275-82.
65. Sommer D, **Stacy M**. Epidemiology and Pathophysiology of Restless Legs Syndrome. *Expert Rev Neurother* 2008;8:1829-39.
66. Sommer DB, **Stacy M**. What's in the pipeline for the treatment of Parkinson's Disease? *Exp Rev Neurotherapeutics* 2008;8:1829-39.
67. Wingo TS, Evatt M, Scott B, Freeman A, **Stacy M**. Impulse control disorders arising in three patients treated with rotigotine. *Clin Neuropharmacol* 2009;32:59-62.
68. Kuncel AM, Turner DA, Ozelius LJ, Greene PE, Grill WM, **Stacy M**. Thalamic deep brain stimulation for myoclonus in a patient with inherited myoclonus-dystonia and tremor. *Clin Neurol Neurosurg Clin Neurol Neurosurg*. 2009;111:303-6.
69. Shill HA, De La Vega FJ, Samanta J, **Stacy M**. Motor learning in essential tremor. *Mov Disord* *Mov Disord*. 2009 Feb 25. *Mov Disord*. 2009;24:926-8.

Publications (Refereed Journals): (continued)

70. Shill HA, **Stacy M**. Update on ropinirole in the treatment of Parkinson's disease. *Neuropsychiatr Dis Treat* 2009;5:33-6.
71. **Stacy M**. Medical Management of Parkinson's Disease. *Neurol Clin* 2009;27:605-31.
72. Evans AH, Strafella AP, Weintraub D, **Stacy M**. Impulsive and compulsive behaviors in Parkinson's disease. *Mov Disord*. 2009;24:1561-70.
73. Park A, **Stacy M**. Non-motor symptoms in Parkinson's Disease. *J Neurol*. 2009;256(Suppl 3):293-8.
74. **Stacy M**, Murck H, Kroenke K. Responsiveness of motor and non-motor symptoms of Parkinson's disease to dopaminergic therapy. *Prog Neuropsychopharmacol Biol Psychiatry*. 2010;34:57-61.
75. Weintraub D, Koester J, Potenza MN, Siderowf AD, **Stacy M**, Voon V, Whetteckey J, Wunderlich GR, Lang AE. Impulse control disorders in Parkinson's disease: A cross-sectional study of dopaminergic therapy and other clinical features in 3,090 Patients. *Arch Neurol* 2010;67:589-95.
76. Hersh BP, Earl NL, Hauser RA, **Stacy M**. Early treatment benefits or ropinirole prolonged release in Parkinson's disease patients with motor fluctuations. *Mov Disord* 2010;25:927-31.
77. **Stacy M**. The wearing-off phenomenon and the use of questionnaires to facilitate its recognition in Parkinson's disease. *J Neural Transm* 2010;117:837-46.
78. Marks WJ Jr, Bartus RT, Siffert J, Davis CS, Lozano A, Boulis N, Vitek J, **Stacy M**, Turner D, Verhagen L, Bakay R, Watts R, Guthrie B, Jankovic J, Simpson R, Tagliati M, Alterman R, Stern M, Baltuch G, Starr PA, Larson PS, Ostrem JL, Nutt J, Kieburtz K, Kordower JH, Olanow CW. Gene delivery of AAV2-neurturin for Parkinson's disease: a double-blind, randomised, controlled trial. *Lancet Neurol*. 2010;9:1164-72.
79. Weintraub D, Sohr M, Potenza MN, Siderowf AD, **Stacy M**, Voon V, Whetteckey J, Wunderlich GR, Lang AE. Amantadine use associated with impulse control disorders in Parkinson disease in cross-sectional study. *Ann Neurol* 2010;68:963-8.
80. Peckham EL, Lopez G, Shamim EA, Richardson SP, Sanku S, Malkani R, **Stacy M**, Mahant P, Crawley A, Singleton A, Hallett M. Clinical features of patients with blepharospasm: a report of 240 patients. *Eur J Neurol*. 2011 Mar;18(3):382-6.
81. Antonini A, Martinez-Martin P, Chaudhuri RK, Merello M, Hauser R, Katzenschlager R, Odin P, **Stacy M**, Stocchi F, Poewe W, Rascol O, Sampaio C, Schrag A, Stebbins GT, Goetz CG. Wearing-off scales in Parkinson's disease: critique and recommendations. *Mov Disord*. 2011 Oct;26(12):2169-75.
82. Hickey P, **Stacy M**. Available and emerging treatments for Parkinson's disease: a review. *Drug Des Devel Ther*. 2011;5:241-54.
83. Voon V, Sohr M, Lang AE, Potenza MN, Siderowf AD, Whetteckey J, Weintraub D, Wunderlich GR, **Stacy M**. Impulse control disorders in Parkinson disease: a multicenter case--control study. *Ann Neurol*. 2011;69:986-96.
84. **Stacy M**. Nonmotor symptoms in Parkinson's disease. *Int J Neurosci* 2011;121(Suppl 2):9-17.
85. Jankovic J, Adler CH, Charles PD, Comella C, **Stacy M**, Schwartz M, Sutch SM, Brin MF, Papapetropoulos S. Rationale and design of a prospective study: Cervical Dystonia Patient Registry for Observation of OnaBotulinumtoxinA Efficacy (CD PROBE). *BMC Neurol* 2011;11:140.
86. Hickey P, **Stacy M**. The surgical management of Parkinson's Disease. *Neurodegenerative Disease Management*. 2011;1:203-215.
87. Pourcher E, Fernandez HH, **Stacy M**, Mori A, Ballerini R, Chaikin P. Istradefylline for Parkinson's disease patients experiencing motor fluctuations: results of the KW-6002-US-018 study. *Parkinsonism Relat Disord* 2012;18:178-84.
88. Brashear A, Cook JF, Hill DF, Amponsah A, Snively B, Light L, Boggs N, Suerken CK, **Stacy M**, Ozelius L, Sweadner KJ, McCall WV. Psychiatric Disorders in Rapid-Onset Dystonia Parkinsonism. *Neurology* 2012;79:1168-73.
89. Hickey P, **Stacy M**. Adenosine A2A Antagonists in Parkinson's Disease: What's Next? *Curr Neurol Neurosci Rep*. 2012;12:376-85.

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91. Park A, **Stacy M**. Istradefylline for the treatment of Parkinson's disease. *Expert Opin Pharmacother*. 2012;13:111-4.
92. Park A, **Stacy M**. Dopamine-Induced Non-Motor Symptoms of Parkinson's Disease. *Parkinson's Disease* 2011;2011:485063. Epub 2011 Apr 11.
93. Brashear A, Mink JW, Hill DF, Boggs N, McCall WV, **Stacy M**, Snively B, Light LS, Sweadner KJ, Ozelius LJ, Morrison L. ATP1A3 mutations in infants: a new rapid-onset dystonia-Parkinsonism phenotype characterized by motor delay and ataxia *Dev Med Child Neurol*. 2012 Nov;54(11):1065-7.
94. Boland D, **Stacy M**. The Economic and Quality of Life Burden Associated with Parkinson's Disease: A Focus on Symptoms. *Amer J Managed Care*. 2012;12(suppl):s168-75.
95. Brashear A, Cook JF, Hill DF, Amponsah A, Snively B, Boggs N, Suerken CK, Haq I, **Stacy M**, Ozelius L, Sweadner KJ, McCall WV. Cognitive Impairment in Rapid-Onset Dystonia Parkinsonism. *Mov Disord Neurology*. 2012 Sep 11;79:1168-73.
96. Hattori N, Fujimoto K, Kondo T, Murata M, **Stacy M**. Patient perspectives on Parkinson's disease therapy in Japan and the United States: results of two patient surveys. *Patient Relat Outcome Meas*. 2012;3:31-8.
97. Snyder DC, Epps S, Beresford HF, Ennis C, Levens JS, Woody SK, Tcheng JE, **Stacy M**, Nahm M. Research Management Team (RMT): A Model for Research Support Services at Duke University. *Clinical and Translational Science* 2012;5:464-469.
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103. Nagler A, Rudd M, Snyder D, Tiemann H, Bixby P, Kuhn C, **Stacy M**. Building a Research Foundation: A Collaborative, Institution-Wide Initiative for Medical Education Learners. American Association of Medical Colleges 2015
104. Adler C, Charles D, Jankovic J, Comella C, **Stacy M**, Schwartz M, Adams AM, Brin MF. Treatment Patterns and Patient Disposition in the Cervical Dystonia Patient Registry for Observation of OnabotulinumtoxinA Efficacy (CD PROBE). American Academy of Neurology 2015

Selected Abstracts: (continued)

105. Morgan J, **Stacy M**, Rubens R, Khannn S, Gupta S. Dosing patterns during conversion to IPX066, extended-release carbidopa-levodopa, from other carbidopa-levodopa formulations in advanced Parkinson's disease patients. American Academy of Neurology, 2016
106. **Stacy M**, Biton V, Aldred J, Ellenbogen A, Rubens R, Modi NB, Mittur A, Khanna S, Gupta S. Motor effects and safety of IPX203, an investigational extended-release formulation of carbidopa-levodopa, in advanced Parkinson's disease: A single-dose Phase 2 study. Movement Disorders Society, 2017.
107. Factor S, **Stacy M**, Burke J, Yonan C, Le H, Liang GS. Abnormal Movements by Body Region in Subjects with Tardive Dyskinesia and Schizophrenia/Schizoaffective Disorder or Mood Disorder: Findings from the KINECT 3 Study. Movement Disorders Society, 2017.
108. **Stacy M**, Kurlan R, Burke J, Siegert S, Liang GS, O'Brien CF. A Potential MCID for AIMS Dyskinesia Total Score Change in Subjects with Tardive Dyskinesia. Movement Disorders Society, 2017.

Editorials, position, and background papers:

1. **Stacy M**, Lou J-S. Editorial: Treatment Options in Parkinson's Disease. CNS Spectrums 1998;3:22.
2. **Stacy M**, Factor S. Rapid Treatment of "Off" episodes: Will this change Parkinson's disease therapy? Neurology 2004;62 (suppl):S2-3.
3. **Stacy M**. Editorial Commentary. The value of post-marketing medication surveys in Parkinson's disease. Current Med Res Opin 2004;20;113-4.
4. Lang AE, Langston W, Lozano A, Moro E, Nutt J, **Stacy M**, Stoessl J, Turner D, Wooten GF. The Hard Way to a Bill of Rights. Lancet Neurology 2006;5:200-2.
5. **Stacy M**. Should GDNF intraparenchymal trials be continued? NO. Moving Along. 2007
6. **Stacy M**. Faculty Member for *Faculty of 1000 Medicine* ISSN Online: 1740-309X. 2008
7. Barker RA, **Stacy M**, Brundin P. A new approach to disease-modifying drug trials in Parkinson's disease. J Clin Invest. 2013 May 20:1-2.

Professional awards and special recognitions:

Duke University, School of Medicine Distinguished Faculty	2017
Member, Alpha Omega Alpha	2016
Fellow, American Neurological Association	2012
Alumni Merit Award, College of Science and Mathematics Southeast Missouri State University	2011
Member, American Neurological Association	2006
Fellow, American Academy of Neurology	2005
Best Doctors in North Carolina	2004 – present
The Outstanding Young Physician Award University of Missouri, School of Medicine	2003
Best Doctors in Phoenix	2002
Best Doctors in America	2001 – present
Dystonia Medical Research Foundation, Doctor of Excellence	2000
Outstanding Resident Teaching Award University of Missouri, Division of Neurology	1996
Outstanding Young Alumni, Southeast Missouri State University	1995
Excellence in Education Award, Student Affairs Council, University of Missouri	1992

State Licensure:

North Carolina	200300890	2003 (active)
Arizona	24390	1996
California	C050086	1997
Missouri	MD36827	1986
Nevada	8097	1977
Pennsylvania	MD-042235-e	1988
Texas	H8848	1990

Organizations and participation:

World Parkinson Congress, Steering Committee	2019
Co-Chair, Fundraising Committee	
Parkinson's Disease and Movement Disorder Society	2016
Strategic Planning Committee, Pan-American Chapter	
Parkinson's Disease and Movement Disorder Society	2016
Strategic Planning Committee, International Executive Committee	
World Parkinson Congress, Steering Committee	2016
Co-Chair, Fundraising Committee	
Brain Foundation Netherlands, Grant Reviewer	2015
World Health Organization	2009
Parkinson's Disease Working Group	
World Congress on Parkinson's Disease and Related Disorders	2009
Abstract Review Committee	
Mental Dysfunction and Gait Disorders, 6th International Congress	2008
Scientific Advisory Board	
Lecturer	
Neuroimaging in Parkinson's and Related Disorders, 2 nd International Congress	2008
International Program Committee	
Impulse Control Disorders in Parkinson's Disease, Toronto	2007
Planning Committee, Chair	
Michael J. Fox Foundation	2007
Grant Reviewer	
The Parkinson's Disease Society (United Kingdom)	2006 – present
Grant Reviewer	
American Neurological Association, Member	2006 – present
Fellow	2012 – present
Annual Meeting, Abstract Reviewer	2007
American Parkinson's Disease Association	
Information and Referral Center	2003 – 2004
Benign Essential Blepharospasm Research Foundation	
Symposium Chair	1999
Symposium Lecturer	1998 – 2001
Medical Advisory Board Member	2001 – present
WE MOVE	
Board Member	2002 – 2015
Dystonia Task Force Member	2000
Movement Disorder Slide Set Editor	2001
Parkinson's Disease Slide Set Editor	1999
Education Committee, Chair	1998 – 2013

Organizations and participation: (continued)

Dystonia Study Group	1997 – present
Nominating Committee	2006
Parkinson Study Group	1997 – present
Executive Committee Member	2013 – present
Budget Committee, Chair	2012 – present
Nominating Committee	2002 – 2004
Credentials Committee	2004 – 2007
Parkinson Disease and Movement Disorders Society	1990 – present
International Executive Committee	2013 – present
Archives Committee	2011 – present
Moving Along (Society Newsletter), Editor	2009 – present
Publications Committee	2008 – present
Membership Committee	2004 – 2006
Industrial Relations Committee	2006 – 2008
Lecturer	2006 – 2008
Course Director	2008
American Academy of Neurology	1988 – present
Councilor, Movement Disorders Section	2008 – 2012
Fellow	2006 – present
Scientific Review Committee	2006
Invited Lecturer	2000 – 2006
Movement Disorders Satellite Course Director	2006
Liaison Committee	1997
Movement Disorders Section	1995 – present
National Parkinson Foundation	1996 – 2003
Duke University Center of Excellence	2008
Neurological Consultant	1996
Center Director	1996 – 2003
“Ask the Doctor”	1997 – 1999
Ad Hoc Committee; Caregivers Award	1998
Associate Medical Director	1998 – 2002
Parkinson’s Disease Algorithm Committee Member	1993 – 1994

Invited Editorships:

Moving Along: A quarterly newsletter of the Parkinson’s Disease and Movement Disorders Society	2009 – present
Impulse Control Disorders II; Proceedings of International Meeting, Mov Disord	2015
Impulse Control Disorders; Proceedings of International Meeting, Mov Disord	2008
Apomorphine as a Rescue Therapy for Parkinson’s Disease, Neurology	2004
Essential Tremor Monograph, Clinician	2001
Parkinson’s Disease, CNS Spectrums	1998

Journal Editorial Boards:

Journal of Parkinsonism and Restless Legs Syndrome	2015 – present
Drugs	2013 – present
Journal of Clinical Investigation	2012 – present
Current Signal Transduction Therapy	2008 – 2010
Neural Regeneration Research	2007 – 2009

Manuscript Reviewer:

New England Journal of Medicine	2014 – present
JAMA Neurology	2014 – present
Journal of Parkinsonism and Restless Legs Syndrome	2013 – present
Tremor Disorders	2012 – present
Annals of Neurology	2008 – present
Lancet Neurology	2008 – present
European Journal of Neurology	2008 – present
Journal of Neurology	2008 – present
Progress in Neuro-psychopharmacology and Biological Psychiatry	2008
CNS Spectrums	2008 – present
Aging and Experimental Research	2007
Journal of Neurology Neurosurgery and Psychiatry	2005 – present
Mayo Clinic Proceedings	2005 – present
Human Movement Science	2005
Aging Health	2005
Archives of Disease of Childhood	2005
Gene Reviews	2005
Neuroscience Letters	2005
Archives of Diseases of Childhood	2005
Pharmacy and Therapeutics	2005
Parkinsonism and Related Disorders	2003 – present
Neurology	2003 – present
Clinical Neuropharmacology	2002 – present
CNS Drugs	2002
The Annals of Pharmacotherapy	2002
Southern Medical Journal	1999
Movement Disorders	1997 – present
Neurology Network Commentary	1996 – 1999

Book Reviews:

Odin P, Hagell P, Shing M. Apomorphine in Parkinson's Disease. Uni-Med Verlag AG. Bremen, Germany. Clin Neuropharmacol 2005

Protocol Steering Committees:

A Phase 2, Open-label, Dose-escalating Study to Evaluate the Safety and Preliminary Efficacy of RTT150 for Injection in Isolated Cervical Dystonia (Chair): Revance Therapeutics	2015 – present
A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study with an Open-Label Phase to Determine the Efficacy and Safety of Tozadenant as Adjunctive Therapy in Levodopa-Treated Patients with Parkinson's Disease Experiencing End of Dose "Wearing-Off": Biotie Pharma	2015 -- present
An exploratory open-label study of temporary vocal fold augmentation for disordered voice in patients with Parkinson's Disease: Merz Pharmaceuticals	2014 – present
A Multicenter, Randomized, Placebo-controlled, Double-blind, Parallel Group, Dose-ranging Study to Evaluate the Safety and Effectiveness of Arbaclofen Tablets in Multiple Sclerosis Patients with Spasticity: Osmotica	2010 – present

Protocol Steering Committees: (continued)

A Multicenter, Randomized, Placebo-Controlled, Double-Blind Study To Evaluate Effectiveness of Amantadine HCl Extended Release Tablets in Parkinson's Disease Patients with Levodopa-Induced Dyskinesias: Osmotica	2010 – present
A 25-week, double-blind, placebo-controlled, fixed-dose, multicenter study to evaluate the efficacy and safety of AFQ056 in reducing moderate to severe L-dopa induced dyskinesias in patients with Parkinson's disease: Novartis	2010 – 2013
Safinamide in early IPD, as add-on to a single dopamine agonist (MOTION): EMD-Serono	2010 – 2013
A 60-month, double-blind, placebo-controlled, Multicenter Trial of Rasagiline in Parkinson's Disease	2010 – 2011
CERE-120-09, Ceregene A Phase I/II Trial Assessing the Safety and Efficacy of Bilateral Intraputamin and Intranigral Administration of CERE-120 (Adeno-Associated Virus Serotype 2 [AAV2]-Neurturin [NTN]) in Subjects With Idiopathic Parkinson's Disease	2009 - 2015
A multi-center, double-blind, randomized, parallel-group, placebo-controlled, two-arm safety and efficacy study of nitisinone (SYN118) in patients with Parkinson's disease: Synosia	2008 – 2012
A randomized, double-blind, placebo-controlled parallel-group study to assess the safety and efficacy of SYN115 120 mg/day given in two divided doses for 12 weeks: Synosia	2008 – 2012
<u>Cervical Dystonia Patient Registry for Observation</u> of <u>BOTOX® Efficacy</u> (CD PROBE): Allergan	2008 – 2015
Treatment of Non-motor Symptoms in Parkinson's disease, Novartis	2008 – 2010
DOMINION: Impulse Control Disorders in Parkinson's disease patients treated with MIRAPEX® (pramipexole) and other dopamine agonists, Boehringer-Ingelheim	2006 – 2010
DESTINY: Early Pramipexole Therapy in Parkinson's Disease Boehringer-Ingelheim	2005 – 2009
QUEST-PD, Parkinson Study Group	2004 – 2008
Quality of Life in Parkinson's Disease, Novartis	2004 – 2008
^{99m} Tc-NC100697 SPECT in Parkinson Syndrome, GE/Amersham	2003 – present
End of Dose Wearing Off in Parkinson's Disease, Novartis	2001 – 2007
Survey comparison to Physician Evaluation Pilot, Chair	2001 – 2003
COMPASS-1: Survey comparison to Physician Evaluation, Chair	2003 – 2007
Survey validation by Parkinson's Disease experts, Chair	2004 – 2007

Data & Safety Monitoring Committees:

A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study with an Open-Label Phase to Determine the Efficacy and Safety of Tozadenant as Adjunctive Therapy in Levodopa-Treated Patients with Parkinson's Disease Experiencing End of Dose "Wearing-Off": Biotie Pharma	2015 – present
Neurologix, Inc, Chair GAD 2: Phase 2 Safety and Efficacy Study Evaluating Glutamic Acid Decarboxylase Gene Transfer to the Subthalamic Nuclei in Subjects with Advanced Parkinson's Disease	2008 – 2012
NPY 1: A Phase 1 Safety Study Evaluating Hippocampal NPY Gene Transfer in Subjects with Intractable Mesial Temporal Lobe Epilepsy	

Data & Safety Monitoring Committees: (continued)

Biogen Idec, LTD: BIIB014 Dose Escalation Study	2007 – 2010
Guilford Pharmaceuticals, Protocol 0501-0201 (GPI-1046)	2003 – 2006

Federal Drug Administration presentation committees:

Chelsea Therapeutics: FDA Advisory Committee Meeting Droxidopa in the treatment of Orthostatic Hypotension	2012
GE Healthcare: FDA Advisory Committee Meeting DaTSCAN as a diagnostic Assessment tool in Parkinson syndrome	2009
Ceregene: National Institutes of Health, Recombinant DNA Advisory Committee (RAC)	2009
Osmotica: Protocol Review Meeting	2008
GE Healthcare: PIND Type C meeting: DaTSCAN as a diagnostic Assessment tool in Parkinson syndrome	2008
Kyowa: Istradefylline as a treatment for Parkinson's Disease	2008
Novartis: Non-motor symptoms of Wearing-off in Parkinson's Disease	2007
GE/Amersham: PIND Type C meeting: ^{99m} Tc-NC100697 SPECT as a diagnostic assessment tool in Parkinson Syndrome	2005

Consulting Activities:

Biorasi	2017
Sunovion Pharmaceuticals	2017
Acadia	2016 – present
BioMarin	2016 – present
Neurocrine	2016 – present
Orient Pharma	2016 – present
Kyowa Kirin	2016 – present
ISCO	2013 – 2015
Acordia	2013
Eli Lilly	2013
Johnson & Johnson	2013
Pfizer	2012 – 2015
SK Life Sciences	2012 – 2014
Merz	2012 – 2015
Neuronova	2011
Chelsea	2012
Noven	2011
Schering-Plough	2009 – 2011
Allergan	2008 – 2015
Synosia/Biotie	2008 – present
Biogen-idec	2008 – 2010
Osmotica	2006 – 2016
Vernalis	2006
Boehringer-Ingelheim: DOMINION	2005 – 2009
Ortho-McNeil	2005
Shire Pharmaceuticals	2005
Novartis	2004 – 2010
Endo Pharmaceuticals	2004 – 2006
Amersham/GE Imaging Technologies	2003 – 2010
Kyowa Pharmaceuticals	2003 – 2008
Bertek Pharmaceuticals	2003 – 2005

Medical Community Service:

WebMD: Expert Commentary, Parkinson's Disease Community	2010 – 2013
Member, Catholic Healthcare West, Mission & Human Resources Committee	2000 – 2001
Physician Advisor, Benign Essential Blepharospasm Research Foundation, Arizona	1997 – 2003
Physician Advisor, Dystonia Medical Research Foundation, Arizona Chapter	1996 – 2003
Physician Advisor, National Parkinson Foundation, Arizona Chapter	1996 – 2003
Staff Neurologist, Boone County Family Health Clinic	1993 – 1996
Physician Advisor, Multiple Sclerosis Institute, University of Missouri	1993 – 1996
Physician Advisor, Dystonia Medical Research Foundation, Mid-Missouri	1993 – 1996
Physician Advisor, American Parkinson's Disease Association, Columbia, MO	1992 – 1996
Physician Advisor, Greater Missouri Tourette Syndrome Chapter	1991 – 1996
Physician Advisory Board, Physician's Home Health & Hospice Network	1993 – 1995

General Community Service:

Fight Night Foundation Board of Directors	1999 – 2001
Fight Night with Muhammad Ali	1996 – 2002
Missouri Boys State	1979 – present
Board of Trustees	2015
Board of Directors	1993 – present
Dean of Counselors	1993 – 1998
Counseling Staff	1979 – 1999

Teaching responsibilities including continuing education:**International Presentations:**

REDCapCon	2016
Keynote Address	
4 th World Parkinson Congress	2016
Impulse Control Disorders in Parkinson's Disease	
Behavioral Manifestations and Psychosis in Parkinson's Disease	
33 rd International Meeting of the Benign Essential Blepharospasm	2015
Research Foundation, New Orleans, Future Directions in Blepharospasm	
The Expert Conference on Parkinson Disease, Tokyo	2014
Nonmotor Symptoms in Parkinson's Disease	
Patient Satisfaction in the Treatment of Parkinson's Disease, Tokyo	2014
Wearing Off Symptoms in Parkinson's Disease	
Impulse Control Disorders in Parkinson's Disease, Boston	2012
Chair, Organizing Committee	
Diagnostic Criteria for Impulse Control Disorders in Parkinson's Disease	
1 st Annual Dystonia Coalition Meeting, Chicago	2012
Session Chair	
European Federation of Neurological Societies, Budapest	2011
Wearing Off Symptoms in Parkinson's Disease	
International Congress of Parkinson's Disease and Movement Disorders, Toronto	2011
Wearing Off Symptoms in Parkinson's Disease	
7 th International Congress on Mental Dysfunctions & Other Non-Motor Features	2010
in Parkinson's Disease: Barcelona	
Impulse Control Disorders: Clinical Phenomenology	
Co-Chair: Neurosurgical Treatment in Parkinson's Disease	
2 nd World Parkinson Congress, Glasgow	2010
Identification of Wearing-off Symptoms in Parkinson's Disease	

International Presentations: (continued)

18 th Symposium Parkinson's Disease and Catecholamine Symposium of Japan Recognition and Treatment of Impulse Control Disorders in Parkinson's Disease	2010
International Congress of Parkinson's Disease, Miami Recognition and Treatment of Impulse Control Disorders in Parkinson's Disease	2009
2nd Asian and Oceanian Parkinson's Disease and MD Congress; New Delhi, India Medical Management of Advanced Parkinson's Disease Co-Chair: Gait Evaluation and Physical Therapy in Parkinson's Disease	2009
17 th Symposium on the Treatment of Parkinson's Disease. Tokyo Non-Motor Features in Parkinson's Disease	2008
International Congress of Parkinson's Disease and Movement Disorders, Chicago Chair: Impulse Control Disorders in Parkinson's Disease	2008
26 th International Meeting of the Benign Essential Blepharospasm Research Foundation, Minneapolis. Everything you always wanted to know About Blepharospasm, but were afraid to ask	2008
Tokyo Parkinson's Disease Forum Recognition of Wearing Off in Parkinson's Disease	2008
Impulse Control Disorders in Parkinson's Disease, Toronto Chair, Organizing Committee Diagnostic Criteria for Impulse Control Disorders in Parkinson's Disease	2007
25 th International Meeting of the Benign Essential Blepharospasm Research Foundation, Jacksonville. Special Specs for Blepharospasm,	2007
International Congress of Parkinson's Disease and Movement Disorders, Kyoto Etiology and Pathogenesis of Restless Legs Syndrome Impulse Control Disorders in Parkinson's Disease Co-Chair: Sleep Disorders in Parkinson's Disease	2006
Glasgow Parkinson's Disease Forum Improving the Detection of Wearing Off in Parkinson's Disease	2006
Novartis Neuroscience Forum, Malta Recognition of Wearing-off in Parkinson's Disease	2006
World Parkinson Congress, Washington, DC Non-Dopaminergic Drugs in the Pipeline Impulse Dyscontrol Disorders in Parkinson's Disease	2006
Royal Academy of Science, London Treatment of Early Parkinson's Disease	2005
Thailand Neurological Society: Annual meeting of Thai Parkinson's Disease and Movement Disorder Club Impulse Dyscontrol Disorders in Parkinson's Disease Video session: lessons that my patients taught me Recognition and Management of Early Wearing-Off Parkinson's Disease	2005
16 th International Congress on Parkinson's Disease, Berlin, Germany Treatment with Dopamine Agonists Behavioral Disorders in Parkinson's Disease	2005
Parkinson's Disease Symposium, Barcelona, Spain Co-Chair, Wearing Off Symptoms in Parkinson's Disease End of Dose Wearing Off in Parkinson's Disease Neurological Assessments in Parkinson's Disease	2005
9 th International Congress of Parkinson's Disease and Movement Disorders, New Orleans, LA, USA, Apomorphine Rescue Therapy Poster Highlights Presentation	2005

International Presentations: (continued)

Parkinson's Disease Symposium, Tokyo Sleep Disorders in Parkinson's Disease	2005
8 th International Congress of Parkinson's Disease and Movement Disorders, Rome Apomorphine: From: "off" to "on."	2004
Parkinson's Disease Symposium, Seville End of Dose Wearing Off in Parkinson's Disease	2003
20 th International Meeting of the Benign Essential Blepharospasm Research Foundation, Houston. Risk Factors for Blepharospasm,	2002
7 th International Dystonia Patient Symposium and 2 nd Family Symposium, Miami Talking About Dystonia: panel for children, Botulinum Toxin Overview, Medications and Botulinum Toxin, Depression and Young Adults: panel	2002
19 th International meeting of the Benign Essential Blepharospasm Research Foundation, Phoenix. Botulinum Toxin A for Blepharospasm, Meige and Hemifacial Spasm,	2001
18 th International Meeting of the Benign Essential Blepharospasm Research Foundation, Lexington, KY Treatment of Blepharospasm, Meige, & Hemifacial Spasm with Botulinum Toxin B	2000
XLV Reunion annual de la Sociedad Espanola de Neurologia, Barcelona, Spain Treatment of Motor Fluctuations in the Advanced Parkinson's Disease Patient	1993

National Presentations and Invited Lectures:

Mo Udall Symposium, Phoenix, AZ Promising research in Parkinson's Disease 2017	2017
Michael J Fox Research Symposium, Charlotte, NC Research Progress in Parkinson's Disease	2015
Southeast Parkinson Symposium, Spartanberg, NC Why the Study of Neurological Disease is Important	2014
National Parkinson Foundation Symposium, Miami Stem Cells for Parkinson's Disease: Fact or Fiction	2014
Neurology Update, Miami Impulse Control Disorders in Parkinson's Disease Wearing Off Symptoms in Parkinson's Disease	2014
National Parkinson Foundation Symposium, Miami Biomarkers and the Latest Research in Parkinson's Disease	2013
NIH Neuroscience Workshop: Advancing Diagnoses and Treatment of Psychiatric and Neurological Disorders: Moving Functional Imaging Into the Clinic Functional Brain Imaging in Parkinson's Disease: Agency Approval and Community Impact	2013
University of Missouri; Alumni Weekend Impulse Control Disorders in Parkinson's Disease	2012
Mo Udall Symposium, Phoenix Non-Motor Symptoms in Parkinson's Disease	2012
University of Southern California Parkinson's Disease Symposium, Los Angeles A Closer Look at Advanced Parkinson's Disease	2010
New Therapies for Advanced Parkinson's Disease: Surgical Treatments	2010
NIH Sham Neurosurgical Procedures in Clinical Trials for Neurodegenerative Diseases: Neurotrophic Factor Trials for Parkinson's Disease	2010

National Presentations and Invited Lectures: (continued)

The Duke Pediatric Neurology Update Course: Demystifying Child Neurology Tourette Syndrome	2009
Parkinson Disease Foundation Learning Institute, New York Parkinson's Disease and Clinical Research	2008
American Academy of Neurology: Evaluation and Treatment of Dystonia, New Orleans Recognition and Treatment Cervical and Limb Dystonia	2008
American Academy of Neurology: Evaluation and Treatment of Dystonia, Gainesville Recognition and Treatment of Blepharospasm Reimbursement Issues with Botulinum Toxin	2007
57 th Annual American Academy of Neurology, San Diego, CA Clinical Therapeutics Course: Parkinson's Disease	2006
NINDS Workshop on Psychosis and Parkinson's Disease Workshop	2005
NINDS Workshop on Advanced Parkinson's Disease Workshop Apomorphine use and potential research opportunities	2005
56 th Annual American Academy of Neurology, San Francisco Treatment of Spasticity and Limb Dystonia	2004
Parkinson Disease of the Carolinas Patient Symposium	2003
Eastern North Carolina Parkinson's Disease Patient Symposium	2003
55 th Annual American Academy of Neurology, Honolulu, HI, USA Treatment of Spasticity and Limb Dystonia	2003
54 th Annual American Academy of Neurology, Denver, CO Practical Management of Movement Disorders Treatment of Spasticity and Limb Dystonia	2002
University of Southern California, Annual Patient Symposium	2001
27 th Annual Barrow Neurological Institute Symposium, Phoenix, AZ Case Presentations: Parkinson's Disease & Related Disorders	2001
National Institute of Health, Database Management of Parkinson's Disease	2001
San Diego Parkinson Association Managing Late Complications of Parkinson's Disease, San Diego, CA	2000
American Academy of Clinical Toxicology/North American Congress of Clinical Toxicology, Tucson. Botulinum Toxin – Another Person's Medicine	2000
26 th Annual Barrow Neurological Institute Symposium, Phoenix, AZ Movement Disorders	2000
The Blepharospasm Workshop, National Institute of Neurological Disorders Primary and Secondary Blepharospasm	2000
1999 Mayo Clinic Movement Disorders Course Parkinson's Disease is Not Just a Movement Disorder	1999
25 th Annual Barrow Neurological Institute Symposium, Phoenix, AZ Movement Disorders	1999
Minnesota Parkinson's Disease Patient Symposium	1997
Greater Cincinnati Parkinson's Disease Patient Symposium	1996
47 th Annual American Academy of Family Physicians Conference, Irvine, CA Common Neurologic Complaints in a Large Nursing Home Setting,	1995
19 th Annual Internal Medicine Conference, Orlando Regional Healthcare System, Orlando, FL, USA. Medical Management of Parkinson's Disease	1995
46 th Annual American Academy of Family Physicians Conference, Boston, Massachusetts. Recognition and Treatment of Parkinson's Disease and Other Movement Disorders	1994
44 th Annual American Academy of Family Physicians, San Diego, California Treatment of Motor Fluctuations in Moderate to Severe Parkinson's Disease	1992

Accreditation Council Continuing Medical Education Curricula Development:

New Therapies for Advanced Parkinson's Disease; Duke University	2010
The Diagnosis and Treatment of Huntington's Disease; Intellyst	2009
The Management of Parkinson's Disease in the Primary Care Setting; TCL Institute	2009
The Diagnosis and Treatment of Dystonia; Duke CME office	2009
The Diagnosis and Treatment of Dystonia; Duke CME office	2007
Managing Motor Complications in Parkinson's Disease; WE MOVE	2007
Core Curriculum in Movement Disorders; WE MOVE	2007
Dyskinesias: A Clinicians' Guide to Dyskinesia Management in PD; WE MOVE, Chair	2006
The Role of COMT Inhibition in the "Off Time" in Parkinson's Disease; WE MOVE, Chair	2006
PD Workbook: The Clinicians' Guide to Parkinson's Disease; WE MOVE	2006
Apomorphine for the Management of Motor Fluctuations in Parkinson's Disease; MDS	2006
New Horizons in Parkinson's Disease Therapy; AKH/McMahon Publishing Group	2005
CME Cafe: Cooking up Strategies for Movement Disorders and Epilepsy; Intellyst	2005
Improving the Recognition of Wearing Off in Parkinson's Disease; Duke CME office	2005

Grand Rounds/Visiting Professor:**Duke University Medical Center**

2003 – present

Kansas University; Pramongkutklo Hospital, Thailand; Taipei Hospital, Taiwan; University of South Alabama/Gulf Coast Neurology Society; Montreal Neurological Institute; Toronto Western Hospital; University of Calgary Hospital; Emory University, Medical University of South Carolina; Eastern Carolina University; Johns Hopkins University; Medical College of Virginia; Georgetown University; Mayo Clinic – Jacksonville; Wake Forest University; University of Minnesota; Phoenix, AZ; Medical College of Georgia; University of Tennessee – Knoxville; University of North Carolina, University of Texas, Southwestern; Ohio State University, Duke University: Department of Neurology (10), Medicine, Geriatric Medicine (2), Duke Clinical Research Institute, Barrow Neurological Institute.

Barrow Neurological Institute

1996 – 2003

University of Arizona, University of Washington, University of Tennessee – Memphis, University of Tennessee – Johnson City, Rush-Presbyterian Hospital, SUNY-Bronx, Temple University, Albany Medical College, Duke University Medical Center.

University of Missouri

1991 – 1996

University of Arkansas, Kansas University, University of Illinois – Peoria, St. Louis University, Indiana University, Creighton University, University of California – Irvine, University of California – Sacramento, UCLA Veterans Administration Hospital, Louisiana State University – Shreveport, University of Oklahoma, University of Chicago, University of Illinois, Southern Illinois University, University of Minnesota, Barrow Neurological Institute.

Fellow and Graduate Student Supervision: (Duke University)

Anna Bjornsdottir, MD; Movement Disorders Fellowship	2016 – present
Ian C. Lee, MD; Movement Disorders Fellowship	2015 – 2016
Deborah Boland, DO; Movement Disorders Fellowship	2012 – 2013
Patrick Hickey, DO; Movement Disorders Fellowship	2010 – 2011
Julia Johnson, MD; Movement Disorders Fellowship	2009 – 2010
Navid Poutaheri, PhD candidate Biomedical Engineering	2008 – 2009

David Sommer, MD; Movement Disorders Fellowship	2008 – 2009
Ariane Park, MD; Movement Disorders Fellowship	2008 – 2009
Andre Snelings, PhD; Post-doctoral mentoring committee	2008 – 2009
Merrill Birdno, PhD; Biomedical Engineering	2006 – 2009
Valerie Street, DO; Movement Disorders Fellowship	2006 – 2007
Sith Sathornsumetee, MD; Movement Disorders Fellowship	2006 – 2007
Alexis Kuncel, PhD; Biomedical Engineering	2005 – 2007
Rita Tranquilli, DVM, MD; Movement Disorders Fellowship	2004
Fellow and Graduate Student Supervision: (Barrow Neurological Institute)	
Frederick de la Vega, MD; Movement Disorders Fellowship	2002 – 2003
Karen Thomas, DO; Movement Disorders Fellowship	2001 – 2002
Padma Mahant, MD; Movement Disorders Fellowship	2000 – 2001
Johan Samanta, MD; Movement Disorders Fellowship	1999 – 2000
Holly Shill, MD; Movement Disorders Fellowship	1999
Kathy Low, PhD; Clinical Psychology	1995 – 1996
Undergraduate Supervision:	
Sri Tademeti, Fuqua School of Business, Clinical Research Project	2009
Patrick Lang, Undergraduate Preceptorship	2008 – 2012
Teresa Rice, Undergraduate Preceptorship	2007
Other Mentoring:	
Staff:	
Ernst Casimir, Paul James	2017
Amy Nordo, Asba Tasneem, Garland Goins, James Fayson, Mona Malik	2016
Alice Crummel, Jennifer Goins, Yumika Forney, Charique Richardson	2015
Graduate/Medical:	
Kevin Anderson, Dionna Gamble, Monica Gutierrez, Felix Nwogbo, Jasmine Chigbu, Jason Bethea, Sohrab Vatsia, Clay Sherrill, Tara Dalton	2017
Onyemaechi Nwanaji, Ernst Casimir, Srishti Bhagat, Aladine Elsamadicy, Gabriel Carrillo, Jennifer Creed, Kevin Anderson, Clay Sherrill, Lina Barker, Katelyn Lee, Aaliyah Davy	2016
Lindsey Olivere, Jose Lopez	2015
Duke Faculty:	
Keith Dombrowski, Julie Ann Sosa, Mark Skeen, Lee Hartsell, Tim Collins, Patrick Hickey, Jeff Cooney, Jody Hawes	2017
Keith Dombrowski, Julie Ann Sosa, Julian Yang, Gabi Hanna, Rasheeda Hall, Gentzon Hall, Coleen Cunningham, Greg Palmer, Krista Swisher, Mark Skeen, Lee Hartsell, Tim Collins, Patrick Hickey, Jeff Cooney, Jody Hawes, Jodi Dodds, Theresa Sevilis, Shreyansh Shah	2016
Jody Hawes, Jodi Dodds, Gabi Hanna, Greg Palmer, Christopher Eckstein	2015
Other:	
Loraine Kalia (MDS), Ihtsham Haq (WFU), Dushyantha Jayaweera (UMiami)	2017
Afreen Allam (SiNON), Dushyantha Jayaweera (UMiami), Noreen Bukhari (Mount Sinai), Ariane Park (OHSU)	2016
Svjetlana Miocinovic (UCSF)	2015

Institutional Educational Activities:

Duke University Medical Center:

2003 – present

Chair: Monthly Deep Brain Stimulation Meeting

Residency Education:

 Pediatric Neurology Conference Lecturer

 Pediatric Movement Disorders

 Hyperkinetic Movement Disorder

 Neurology Conference Lecturer:

 Hyperkinetic Disorders

 Clinical Research in Neurology

 Behavioral Neurology Conference Lecturer

 Medicine Noon Conference Lecturer

 Geriatric Medicine, Morning Conference Lecturer

 Movement Disorders Elective Supervisor

 Movement Disorders Elective Attending (ad hoc for Neurology and Medical/Psychiatry Residents)

 Movement Disorders Geriatric Medicine Fellow Rotation, Supervisor

Grand Rounds

 Neurology: Parkinson's Disease, Impulse Control Disorders in Parkinson's Disease,

 Neuroscience Clinical Research at Duke University

 Internal Medicine: Parkinson's Disease

 Geriatric Medicine: Parkinson's Disease

VA Neurology Clinic Attending: 2003-2005

Consult Service Attending

Lecturer: Neurology Elective

 Parkinson's Disease and Movement Disorders

Lecturer: Clinical Diagnosis

 Neurological Examination

Duke University Medical Center: (continued)

Lecturer: Psychology 227: Behavioral Physiology

 Movement Disorders

Lecturer: Physiological Psychology

 Movement Disorders

Lecturer: Biomedical Engineering 265 Neural Prosthetic Systems

 Neurophysiology of Movement

Barrow Neurological Institute:

1996 – 2003

Lecturer: Residency Training Program

 Parkinson's Disease

 Hyperkinetic Movement Disorders

Neurology Grand Rounds:

 Parkinson's Disease

 Limb Dystonia and Spasticity

 Dystonia and Botulinum Toxin

Movement Disorders Fellowship Supervisor

Movement Disorders Elective Attending (4 months per year)

Ward Service Attending (1 month per year)

Consult Service Attending (3 months per year)

University of Missouri:

1991 – 1996

Neuroscience II Course Director,
Lecturer: Neurology IV elective
 Parkinson's Disease and Movement Disorders
Lecturer: Introduction to Clinical Medicine,
 Neurology Examination
Lecturer: Neuroscience II
 Movement Disorders
 The Motor System
 Functional Anatomy of the Nervous System
 The Neurological Examination
Lecturer, Neuroscience I
 Case Wrap Up Discussion, The Man with the Shaking Hand
 Forgetfulness
Lecture, Department of Medicine Residency Course
 Common Movement Disorders in Clinical Medicine
Grand Rounds:
 Child Health: Recognition and Treatment of Tic Disorders
 Neurology: Parkinson's Disease
 Neurology: Huntington's Disease
 Neurology: Dystonia
 Internal Medicine: Parkinson's Disease
Outpatient Clinic Attending (weekly)
Movement Disorders Elective Attending (4 months per year)
University of Missouri: (continued)
Ward Service Attending (4 months per year)
Consult Service Attending (4 months per year)

Educational Videotapes

DaTSCAN Imaging in Parkinsonian Syndromes and Tremor Disorders	2011
Impulse Control Disorders in Parkinson's Disease: CNN	2008
Wearing off symptoms in Parkinson's Disease	2007
Management of Wearing off in Parkinson's Disease; a panel discussion	2005
Controversies In the Management of Parkinson's Disease	2005
Treatment Strategies in Parkinson's Disease	2004
Insights into the Treatment of Parkinson's Disease	2004
Treatment of Parkinson's Disease	2003
DuPont Pharma, Treatment Strategies in Parkinson's Disease	1992
DuPont Pharma, Insights into the Treatment of Parkinson's Disease	1993
Children's Miracle Network Telethon, Tourette Syndrome	1993

Meetings/Course Director

New Therapies for Advanced Parkinson's Disease	2010
The Use of Botulinum Toxin in the treatment of Dystonia	2006 – 2010
10 th Annual Mo Udall Symposium	2002
19 th International meeting Benign Essential Blepharospasm Research Foundation	2001
9 th Annual Mo Udall Symposium	2001
8 th Annual Mo Udall Symposium	2000
7 th Annual Mo Udall Symposium	1999
6 th Annual Mo Udall Symposium	1998
5 th Annual Mo Udall Symposium	1997
3 rd Annual Missouri/Kansas Parkinson's Disease Symposium	1994

Meetings/Course Director (continued)

Botulinum Toxin in the Treatment of Dystonia and Other Movement Disorders	1994
2 nd Annual Kansas/Missouri Parkinson's Disease Symposium	1994
1 st Annual Missouri/Kansas Parkinson's Disease Symposium	1992
Mid-Missouri Tourette Syndrome Association Meeting	1992
Can We Talk? Tourette Syndrome Meeting	1992

Areas of research interests (basic and applied) - list:

Parkinson's Disease
 Wearing Off Symptoms
 Non-Motor manifestations
 Impulse Control Disorders
Benign Essential Blepharospasm
Essential Tremor
Botulinum Toxin
Cervical Dystonia
Deep Brain Stimulation of the Subthalamic Nucleus for Parkinson's Disease
Genetic Linkage with Parkinson's Disease
Neurology Clinical Trials

Media Contributions

- Parkinson's medicine has odd side effect: Gambling: [USA Today](#)-Mar 3, 2006
- New Research to Study if Drugs Can Curb Gambling Addiction: [Newsweek](#)-Jun 25, 2008
- [It's Parkinson's, Playaz... Sharon Kha Raps for Awareness](#): [ABC News](#)-Apr 20, 2010
- [Mirror Movement Disorder Forces Limbs to Work in Tandem](#): [ABC News](#)-Apr 29, 2010
- [FDA Approves DaTscan for Imaging of Dopamine Transporters](#): [Medscape](#)-Jan 18, 2011
- [Man Says Parkinson's Drug Made Him Addicted to Gambling and ...](#): [ABC News](#)-Feb 2, 2011
- Rock Steady Gym Workouts Fight Off Parkinson's Disease: [ABC News](#)-Feb 22, 2011
- **Mark Stacy**: From Southeast Missouri to international expert: [Southeast Missourian](#)-Aug 27, 2011
- [Deep Brain Stimulation May Offer Longer-Term Relief for Parkinson's](#): [U.S. News & World Report](#)-Jun 20, 2012
- [The Placebo Effect: Cough and Other Conditions It Improves](#): [ABC News](#)-Jun 21, 2012
- Parkinson's Patient Wins Lawsuit Over Gay Sex Addiction: [ABC News](#)-Nov 30, 2012
- [Essential Tremor Stilled with Ultrasound Tx](#): [MedPage Today](#)-Aug 14, 2013
- [First drug for Charlotte-based Chelsea Therapeutics wins FDA ...](#): [Charlotte Observer](#)-Feb 25, 2014
- [Results Of Many Clinical Trials Not Being Reported](#): [NPR](#)-Mar 11, 2015
- [Novel Drug Mechanism Addresses Parkinson's Psychosis](#): [Medscape](#)-Jun 29, 2015
- [Advancements in Osmotica's CNS Pipeline for Spasticity in MS ...](#): [Business Wire](#)-Jul 8, 2015
- [Osmotica Announces Its Second Late Stage NDA Asset, OS-320 ...](#): [Business Wire](#)-Jul 22, 2015
- [FDA Accepts New Drug Application for Osmotica Pharmaceutical's ...](#): [Multiple Sclerosis News Today](#)-Oct 1, 2015
- [How Muhammad Ali gave a doctor 'the gift of courage' - CNN.com](#): [CNN](#) Jun 6, 2016
- [How Muhammad Ali Gave a Duke Doctor the Gift of Courage](#): [Duke Today \(blog\)](#)-Jun 6, 2016
- [Reimagining Nursing Research: Accelerating Nursing Science and ...](#): [Duke Today](#)-Aug 10, 2016
- [The Casino Trap](#): [AARP News](#)-Oct 4, 2016

External support - gifts, grants, and contracts:

Federal and Foundation Grants - Current:

- 1Ro1NS058949-01A1 A Brashear (PI) NINDS: Clinical, Genetic, and Cellular Consequences of Mutations in Na, K-ATP1A3, Sub-Investigator 2008- Current
- 5R21 NS055320 02 W Grill (PI) NIH: Selective Electrical Stimulation of Thalamic Neurons Role: Sub-Investigator 2006- Current
- 5U01 NS044453 05 Burton Scott, PhD, MD. A Multicenter, Double-Blind, Futility Study of Minocycline and Creatine in subjects with early untreated Parkinson's Disease. Role: Co-Investigator. National Parkinson Foundation Center of Excellence Grant- Duke Movement Disorders Center, Durham, NC 2009-Current \$60,000.
- 5U01 NS044453 05 Burton Scott, PhD, MD. A Multicenter, Double-Blind, Futility Study of Minocycline and Creatine in subjects with early untreated Parkinson's Disease. Role: Co-Invest
- Michael J. Fox Foundation for Parkinson's Research: Validation of Dyskenesia Rating Scales: Proposal Submission to MJFF , 2010- current

Federal and Foundation Grants - Past:

- 1 U13 NS59293-1 M Stacy (PI). NINDS: Impulse Control Disorders in Parkinson's Disease Workshop: 4/1/07 – 3/31/08.
- 1 P50 NS39764-1 JM Vance (PI). NINDS /Clinical Core Co-PI: The Genetics of Parkinsonism. Morris K. Udall Parkinson's Disease Research Center of Excellence. 9/30/99 – 3/31/07. 10% salary support.
- 7R01 NS040894 W Grill. Selective Electrical Stimulation of Thalamic Neurons. 9/1/00-8/31/05. 5% salary

support.

Michael J Fox Foundation: C. Goetz (PI) "Topiramate as an adjunct to amantadine in the treatment of dyskinesia in Parkinson's disease"

Michael J Fox Foundation. Placebo response in Parkinson's Disease:

National Parkinson Foundation Center of Excellence Grant, Duke University: 2009; \$60,000

American Parkinson's Disease Foundation, Information and Referral Center Grant: Duke University: 2003-2005: \$60,000

National Parkinson Foundation Center of Excellence Grant, Phoenix, AZ: 1996-2003: \$750,000

Muhammad Ali Parkinson Research Center Grant, Barrow Neurological Foundation, 2002-2003: \$459,393

Muhammad Ali Parkinson Research Center Grant, Barrow Neurological Foundation, 2001-2002: \$147,865
"The Ali Project," Barrow Neurological Foundation, 2001-2002: \$433,680

Muhammad Ali Parkinson Research Center Grant, Barrow Neurological Foundation, 2000-2001: \$105,000

Muhammad Ali Parkinson Research Center Grant, Barrow Neurological Foundation, 1999-2000: \$110,000

Research Contracts:

Current:

Assessment of the Effect of Treatment Pathways, Adherence and Treatment Efficacy in Parkinson's Disease
Subjects Randomized to SPECT Imaging of the Dopamine Transporter" GE Healthcare Inc. 2011-
Current.

A Phase 2, 12 Week, Double-Blind, Dose-Finding, Placebo Controlled Study to Assess the Efficacy and
Safety of a Range of SCH 420814 Doses (1 mg, 2 mg BID, 5 mg BID) and Possibly 10 mg BID) in
Subjects with Moderate to Severe Parkinson's Disease Experiencing Motor Fluctuations and Dyskinesias
Protocol: PO4501. Sponsor: Schering Plough Research Institute, 2007 – current.

A Phase 1/2 Trial Assessing the Safety and Efficacy of Bilateral Intraputamin and Intranigral Administration
of CERE- 120 (Adeno-Associated Virus Serotype 2 [AAV2]-Neurturin [NTN]) in Subjects With Idiopathic
Parkinson's Disease Protocol: Cere-120-09 Sponsor: Ceregene, Inc., 2009 – current

A Study to Evaluate the Safety and Efficacy of IPX066 in Advanced Parkinson's Disease
Protocol: IPX066-B09-02. Sponsor: Impax Pharmaceuticals, 2010 – current

Randomized, Double-Blind, Parallel Group, Placebo-Controlled, Safety, Tolerability, and Efficacy Study of
NP002 in

Subjects with Idiopathic Parkinson's Disease with Dyskinesias Due to Levodopa Therapy

Protocol: NP002-09-001. Sponsor: Neurtus Pharmaceuticals, Inc., 2010- current

A phase III, double-blind, placebo-controlled randomized trial to determine the efficacy and safety of a low
(50 mg/day)

and high (100 mg/day) dose of safinamide, as add-on therapy, in subjects with early idiopathic Parkinson's
Disease

treated with a stable dose of a single dopamine agonist.

Protocol: MOTION (27918) Sponsor: EMD Serono, Inc., 2010 – current

A double-blind, randomized, placebo-controlled, parallel-group Phase II study to explore the potential
beneficial effects

of safinamide on cognition in non-demented patients with idiopathic Parkinson's disease (PD) and
cognitive

impairment. Protocol: EMR 701165-024 Sponsor: EMD Serono, Inc., 2011 - current

Research Contracts:

Past:

Prospective, double-blind, placebo-controlled, randomized, multi-center trial with an open-label extension
period to investigate the efficacy and safety of NT 201 in the treatment of blepharospasm. Sponsor: Merz
Pharmaceuticals, 2007 – 2009.

Multicenter, Randomized, Double-Blind, Sham Surgery-Controlled Study of CERE-120 (Adeno-Associated

Virus Serotype 2 [AAV2]-Neurturin [NTN] to Assess the Efficacy and Safety of Bilateral Intraputaminial (IPu) Delivery in Subjects with Idiopathic Parkinson's Disease. Sponsor: Ceregene, Inc. 2007- 2010

A prospective, multi-center, randomized, open-label study with blinded raters to evaluate the effects of immediate versus delayed switch to Stalevo® on motor function and quality of life in patients with Parkinson's disease with end-of-dose wearing off. Sponsor: Novartis (PI), 2006 – 2008

A long term, double-blind, randomized, parallel-group, carbidopa/levodopa controlled, multi-center study to evaluate the effect of **Stalevo™** in patients with Parkinson's disease requiring initiation of levodopa therapy STRIDE-PD: ELC200/Stalevo™ Sponsor: Novartis, 2005 – 2008.

A Multicenter, Double-Blind, Randomized Start, Placebo-Controlled, Parallel-Group Study to Assess Rasagiline as a Disease Modifying Therapy in Early Parkinson's Disease Subjects TVP-1012/500 (ADAGIO). Sponsor: Teva Pharmaceuticals (Co-Investigator), 2006 – 2008.

Safety and Efficacy of Melperone in the Treatment of Patients with Psychosis Associated with Parkinson's Disease. Sponsor: Ovation Pharmaceuticals (PI), 2006 –2007.

Evaluation of the Efficacy and Safety of ALTROPANE for Differentiating Parkinsonian Syndromes from Non-Parkinsonian Syndromes in Patients with Tremors. Sponsor: Boston Life Sciences (Co-Investigator) 2005-2006

A double-blind, placebo-controlled, multicenter, multinational study (phase III) to evaluate the safety and efficacy of **Sarizotan** in patients with Parkinson's disease suffering from L-dopa-induced dyskinesia. Sponsor: Merck KgaA 2005-2006.

Investigating the effects of short-term with pramipexole or levodopa on [123I]b-CIT and SPECT imaging in early Parkinson's disease. Sponsor: Institute for Neurodegenerative Disease, 2005 – 2006.

Study Group and Cephalon, Inc. Co-Investigator: A Randomized, Double-Blind, Placebo-Controlled, Dose-Finding Study to Assess the Efficacy and Safety of CEP-1347 in Patients with Early Parkinson's Disease, 2002-2006.

GlaxoSmithKline, Co-Investigator: A Randomized, Double Blind, Three Period, Cross-Over Study of Ropinirole CR and Ropinirole IR Mono-Therapy in Subjects with Early Phase Parkinson's Disease, 2003 – 2005

NPDCS (NINDS PD Cooperative Studies), Co-Investigator: A Multicenter, Double-Blind, Futility Study of Minocycline and Creatine in subjects with early untreated Parkinson's Disease. 2003 – 2005.

Amgen Inc. Co-Investigator: Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Trial of Liaternin (r-metHuGDNF) Administered by Bilateral Intraputaminial (IPu) Infusion to Subjects with Idiopathic Parkinson's Disease, 2003 – 2005.

GlaxoSmithKline, Principle Investigator: A Phase III, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study of Six Months Treatment with Ropinirole CR as Adjunctive Therapy in Patients with Parkinson's Disease who are not optimally controlled on L-Dopa, 2003 – 2005.

Elan Pharmaceuticals, Inc. Co-Investigator: An Open-Label Safety and Immunogenicity Study of Myobloc™ (Neurobloc®, Botulinum Toxin Type B) Injectable Solution in Patients with Cervical Dystonia, 2001-2005.

Ipsen, Ltd. Principle Investigator: A Multicenter, Randomized, Double-blind, Parallel group, Placebo-controlled study to Assess the Efficacy and Safety of a Single Treatment by Subcutaneous Injection, of 3 doses of DYSPORT for injection (40 units/eye, 80 units/eye and 120 units/eye) for the Treatment of Bilateral Blepharospasm, 2002-2003.

Kyowa Pharmaceutical, Inc. Principle Investigator: A 12-Week, Double-Blind, Placebo-Controlled, Randomized, Multicenter Study of the Efficacy of Doses of 20 and 60 mg/day KW-6002 as Treatment for Parkinson's Disease in Patients with Motor Response Complications on Levodopa/Carbidopa Therapy (US-006), 2002-2003

Kyowa Pharmaceutical, Inc. Principle Investigator: A Long-Term, Multicenter, Open-Label, Safety Study with a Flexible Dose Range of KW-6002 as Treatment for Parkinson's Disease in Patients with Motor Response Complications on Levodopa/Carbidopa Therapy (US-007), 2002-2003.

Novartis Pharmaceuticals. Principal Investigator: A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter, dose-ranging, efficacy and safety study of three doses of TCH346 (0.5 mg, 2.5 mg and 10 mg daily) in patients with early Parkinson's Disease, 2002-2003.

Elan Pharmaceuticals, Inc. Principal Investigator: An Open Label Study of Botulinum Toxin Type B (MYOBLOC) in Patients with Benign Essential Blepharospasm, 2002-2003

Schwarz Biosciences. Principle Investigator: A Multicenter, Multinational, Phase III, Randomized, Double-blind, Parallel group, Placebo-controlled Trial of the Efficacy and Safety of Rotigotine, CDS Patch (2 target doses) in Subjects with Advanced Stage, Idiopathic Parkinson's Disease Who Are Not Well Controlled on Levodopa, 2002-2003.

Schwarz Biosciences. Principle Investigator: A Multicenter, Multinational, Phase III, Randomized, Double-blind, Placebo-controlled Trial of the Efficacy and Safety of the Rotigotine CDS Patch in Subjects with Early Stage Idiopathic Parkinson's Disease, 2002-2003.

Ortho-McNeil Pharmaceutical, Inc. Principle Investigator: A Comparison of the Efficacy and Safety of Topiramate versus Placebo in the Treatment of Essential Tremor, 2001—2003.

Baylor College of Medicine. Principle Investigator: Botulinum Toxin Type B Observational Study, 2001-2003.

Elan Pharmaceuticals, Inc. Principle Investigator: An Open-Label Safety and Immunogenicity Study of Myobloc™ (Neurobloc®, Botulinum Toxin Type B) Injectable Solution in Patients with Cervical Dystonia, 2001-2003.

Dystonia Study Group and Rush Presbyterian St. Luke's Medical Center. Principle Investigator: A Randomized, Multicenter, Double Blind, Parallel Group Study Comparing Botox® (Botulinum Toxin Type A) and Myobloc™ (Botulinum Toxin Type B) in Cervical Dystonia (CD) Subjects Responsive to Botulinum Toxin Type A, 2001-2003.

Parkinson Study Group and TEVA Pharmaceuticals, USA. Sub-Investigator: A Bi-national, Multicenter, Double-Blind, Randomized Study to Evaluate the Safety and Tolerability of Rasagiline Mesylate in Advanced Parkinson's Disease (PD) Patients With Motor Fluctuations Treated With Chronic Levodopa/Carbidopa Therapy, 2001-2003.

Ortho-McNeil Pharmaceuticals, Inc. Principal Investigator: CAPSS-149: Video Tape Recording of Tremor Evaluation & Tremor Rating Scale in Subjects with Essential Tremor, February 2001.

Allergan. Principal Investigator: A Multicenter, Double-Blind, Randomized, Placebo-Controlled Parallel Group Study of the Continuation of Benefit of Two Dosages of BOTOX Purified Neurotoxin Complex for the Prophylactic Treatment of Migraine Headaches, 2000.

Amgen, Inc. Principal Investigator: Randomized, Double-blind, Placebo-controlled, Parallel-group, 6-month Safety, Efficacy and Neuroimaging Trial of AMG-474-00 in the Treatment of Parkinson's Disease 2000-2002.

Novartis Pharmaceuticals. Sub-Investigator: A Multicenter, Double-blind, Placebo-Controlled Study of the Tolerability and Effect of Entacapone in Parkinson's Subjects with End-of-dose Wearing-off Symptoms Occurring no Earlier than 4 Hours after their Most Recent Levodopa/Carbidopa Dose. 2000-2003.

Parkinson Study Group and TEVA Pharmaceuticals, USA. Principal Investigator: A Bi-national, Multicenter, Open-label Study to Evaluate the Safety and Tolerability of TV-1203/Carbidopa Dispersible Tablets in Advanced Parkinson's Disease (PD) Patients With Motor Fluctuations Treated With Chronic Levodopa/Carbidopa Therapy 2000-2003.

Parkinson Study Group and TEVA Pharmaceuticals, USA. Principal Investigator: Randomized, Double-Blind, Double Dummy, Parallel Group Study Comparing TV-1203/Carbidopa Dispersible Tablets with Levodopa/Carbidopa Tablets in Advanced Parkinson's Disease Patients 2000-2003.

Parkinson Study Group and TEVA Pharmaceuticals, USA. Sub-Investigator: Double-Blind, Randomized, Placebo-Controlled, Parallel Group Study for the Efficacy, Tolerability, and Safety of Rasagiline Mesylate in Levodopa Treated Parkinson's Disease Patients, 2000-2003.

Pharmacia & Upjohn. Principal Investigator: PNU-95666E/0011: Open-label, Long Term, Flexible Dose Study of Safety, Tolerability, and Therapeutic Response in Patients with Parkinson's Disease, 2000-2003.

Pharmacia & Upjohn. Principal Investigator: PNU-95666E/0009: Double-blind, Placebo-controlled, Dose-Response Study of Tolerability, Safety, and Efficacy in Patients with Early Parkinson's Disease, 2000-2003.

Parkinson Study Group and Schwarz-Pharma. Principal Investigator: A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Dose Ranging Study to Assess the Efficacy, Safety, and

Tolerability of Escalating Transdermal Doses of SPM 962 in Subjects with Early Parkinson's Disease, 2000.

Roberts Pharmaceuticals. Principal Investigator: Midodrine in the Treatment of Parkinson's Disease, 1999. Co-Principal Investigator: Deep Brain Stimulation of the Subthalamic Nucleus for the Treatment of Parkinson's Disease, 1999-2003.

Allergan. Principal Investigator: A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel Group Study of the Safety and Efficacy of Three Dosages of Botox (Botulinum Toxin Type A) Purified Neurotoxin Complex for the Prophylactic Treatment of Migraine Headache, 1999-2000.

TEVA Pharmaceuticals, USA. Principal Investigator: A Multicenter, Open-Label, Phase III Study for the Safety, Tolerability and Clinical Effect of Rasagiline Mesylate in Patients with Parkinson's Disease, 1999-2003.

Pharmacia & Upjohn. Principal Investigator: The Effect of Pramipexole on Depressive Symptoms in Parkinson's Disease Patients, 1999-2000.

Pentech Pharmaceuticals, Inc. Principal Investigator: Open-label, Compassionate Use Assessment of the Safety of Apomorphine Hydrochloride Sublingual Tablet as Adjunct Treatment for Motor Fluctuation ("On/Off") Occurrence in Late-Stage Parkinson's Disease, 1999-2000.

Pentech Pharmaceuticals, Inc. Principal Investigator: Placebo-Controlled, Double-Blind Study of the Safety and Efficacy of Apomorphine HCl Sublingual Tablets as Adjunct Treatment for Motor Fluctuation ("On/Off") Occurrence in Late-Stage Parkinson's Disease, 1999-2000.

Parkinson Study Group and TEVA Pharmaceuticals, USA. Principal Investigator: A Multicenter, Double-Blind, Parallel Group, Phase III Study for the Efficacy, Tolerability, and Safety of Rasagiline Mesylate in Early Parkinson's Disease Patients Not Treated with Levodopa, 1998-2000.

Parkinson Study Group, Pharmacia & Upjohn. Principal Investigator: Comparison of the Agonist Pramipexole vs. Carbidopa-Levodopa on Motor Complications of Parkinson's Disease, 1998--2003.

Parkinson Study Group and Columbia University. Principal Investigator: Earlier vs. Later Levodopa in Parkinson's Disease, 1998-2003.

National Institutes of Health and Boston University, Principal Investigator, Genetic Linkage with Parkinson's Disease, 1998-2003.

Parkinson Study Group and Indiana University School of Medicine. Principal Investigator: Parkinson Disease Collaborative Study of Genetic Linkage, 1998-2003.

Eli Lilly and Company. Principal Investigator: Olanzapine vs. Placebo for Treatment-Associated Psychosis in Patients with Parkinson's Disease, 1998-1999.

Amgen Inc. and Medtronic, Inc. Principal Investigator: GDNF 970195: Open-label, Within-patient, Dose-escalation Trial of Intracerebroventricular recombinant-methionyl Human Glial Cell Line-derived Neurotrophic Factor (r-metHuGDNF) for the Treatment of Patients with Idiopathic Parkinson's Disease, 1998-1999.

Amgen Inc. and Medtronic, Inc. Principal Investigator: GDNF 960173: Open-label Trial of Intracerebroventricular recombinant-methionyl Human Glial Cell Line-derived Neurotrophic Factor (r-metHuGDNF) for the Treatment of Patients with Idiopathic Parkinson's Disease, 1998-1999.

Amgen Inc. and Medtronic, Inc. Principal Investigator: GDNF 960103: Randomized, Double-blind, Placebo-controlled, Dose-escalation Trial of Intracerebroventricular recombinant- methionyl Human Glial Cell Line-derived Neurotrophic Factor (r-metHuGDNF) for the Treatment of Patients with Idiopathic Parkinson's Disease, 1998-1999.

SmithKline Beecham and University of South Florida. Principal Investigator: Pramipexole-Ropinirole Switching Study in Advanced Parkinson's Disease Patients on Levodopa, 1998-2000.

Parkinson Study Group and Sibia Neurosciences, Inc. Principal Investigator: A Multicenter, Double-Blind, Placebo-Controlled, Parallel Group, Dose Ranging Study for the Safety, Tolerability and Efficacy of SIB-1508Y in Parkinson's Disease Patients who are Requiring but Not Receiving Dopaminergic Therapy, 1998-1999.

MDS Harris and Scherer DDS. Principal Investigator: An Open Extension of the Safety and Efficacy of Zydys Selegiline 1.25 to 2.5mg Q.D. as an Adjunct in the Management of Parkinson's Patients Being Treated

with Levodopa (Zydis 027), 1998.

Parkinson Study Group and Astra Merck, Inc. Principal Investigator: A Multicenter, Double-Blind, Placebo-Controlled, Parallel Group, Dose Ranging Study for the Safety, Tolerability and Efficacy of Daily, Oral Doses of Remacemide Hydrochloride in Parkinson's Disease Subjects with Motor Fluctuations, 1998.

Parkinson Study Group and Astra Merck, Inc. Principal Investigator: A Multicenter, Double-Blind, Placebo-Controlled, Parallel Group, Dose Ranging Study for the Safety, Tolerability and Efficacy of Daily, Oral Doses of Remacemide Hydrochloride in Subjects with Early Parkinson's Disease, 1998.

Parkinson Study Group. Principal Investigator: Rasagiline Mesylate (TVP-1012) in Early Monotherapy for Parkinson's Disease Outpatients, 1997 -1998

MDS Harris and Scherer DDS, Co- Investigator, A Randomized, Double-Blind, Parallel-Group Study to Compare the Safety and Efficacy of Zydis Selegiline 1.25mg to 2.5mg QD with Placebo as an Adjunct in the Management of Parkinsonian Patients Being Treated with Levodopa Who Exhibit Deterioration in the Quality of Their Response to Therapy, 1997.

MDS Harris and Scherer DDS, Principal Investigator, An Open Multicenter Parallel-Group Continuation Study to Compare the Safety of 1.25mg to 10mg QD Zydis Selegiline in Control of the Symptoms of Parkinson's Disease in Patients Stabilized on a Regimen Including Selegiline, 1997.

Parkinson Study Group, Principal Investigator, A Randomized, Multicenter, Double-Blind, Placebo-Controlled Study of Remacemide in the Treatment of the Early Parkinson's Disease Patient, 1997.

Novartis Pharmaceuticals, Investigator, A Randomized, Multicenter, Double-Blind, Placebo-Controlled Study of Entacapone in the Stable Parkinson's Disease Patient, 1997.

Pharmacia, Principal Investigator, A Randomized, Multicenter, Double-Blind, Placebo-Controlled Study of Cabergoline in the Treatment of Parkinson's Disease, 1995 –1996.

Allergan, Inc., Principal Investigator, A Randomized, Multicenter, Double-Blind, Placebo-Controlled Study of Intramuscular BOTOX® (Botulinum Toxin Type A) Purified Neurotoxin Complex for the Treatment of Cervical Dystonia, 1995 –1996.

Pharmacia, Inc., Principal Investigator, Cabergoline in the Treatment of Parkinson's Disease: Long-Term Use, 1995 –1996.

Berlex Pharmaceuticals, Principal Investigator, Beta-Interferon in the Treatment of Multiple Sclerosis: A Continuing Open-Label Trial, 1994.

Sandoz Pharmaceuticals, Principal Investigator, Efficacy of Clozapine in the Treatment of Tardive Dyskinesia in Long-Term Schizophrenia, 1993.

Pfizer Pharmaceuticals, Principal Investigator, Efficacy of Sertraline in the Treatment of Tourette Syndrome, 1993.

Clinical activity - type of practice and estimate of time commitment:

Movement Disorder, Subspecialty Clinic: 25%

Participation in academic and administrative activities of the University and Medical Center:

Vice Dean for Clinical Research: 75%

- Clinical Research Offices reporting to Vice Dean for Clinical Research
 - Institutional Review Board
 - Conflict of Interest Committee, School of Medicine
 - Duke Office of Clinical Research
 - Duke Office of Regulatory Affairs
 - Duke Biobank
 - Directors, Duke Clinical Research Units
- Administrative Lead
 - Clinical Research Operations Committee
 - Clinical Research Unit Directors Meeting

- Clinical Support Research Organization Management Committee
- Clinical Research Operations Committee
- Conflict of Interest Committee, School of Medicine
- Duke Biobank Committee
- Duke University Clinical Research Day
- Faculty Advisory Council to the Duke Office of Clinical Research
- Omics Scientific Review Committee
- School of Medicine, Vaccination Policy Committee
- School of Medicine, Volunteer Policy Committee
- Site Based Research Advisory Council
- Additional Committee Service
 - Academic Cabinet, School of Medicine
 - Ad Hoc, Omics Ethics Committee
 - Baldrige Award, Clinical Research Subcommittee
 - Basic Science Chairs Meeting
 - Biostatistics Core Meeting
 - Bridge Funding Committee
 - Center/Institute Directors Meeting
 - Clinical Chairs Meeting
 - Clinical Research Redesign Committee
 - Conflict of Interest Committee, Duke University
 - Dean's Planning Group
 - Diversity and Inclusion Council, School of Medicine
 - Diversity Leaders Task Force, Duke University
 - DUH Performance Excellence Committee
 - Duke Enterprise Wide Council, Research Subcommittee
 - Duke Maestro Research Committee: Co-Chair
 - Duke QUeST Translational Medicine Committee
 - Duke Translational Medicine Institute: Leadership Council
 - DTMI Pilot Grant Program (reviewer)
 - DTRI Voucher Application Program (reviewer)
 - Duke Committee Service
 - Ad Hoc Physician Compensation Committee; Martha Adams, Chair
 - Graduate Medical Education Committee
 - Medicine SBR Committee, Kenneth Lyles, Chair
 - Faculty WorkLife Committee; Michael Cuffe, Chair
 - Enterprise Wide Planning Committee
 - Mallinkrodt Grant Review Committee
 - Oncology SBR Management Committee
 - Ophthalmology Trial Review Committee
 - Ophthalmology Chair Search Committee
 - Risk Assessment Committee, School of Medicine
 - School of Medicine Voucher Review Committee
 - School of Medicine Research Foundation, Board of Directors

Participation in academic and administrative activities of the University and Medical Center:

Neurology Clinical Research Organization, Past Director

- NCRO Advisory Board: Chair
- NCRO Management Committee

Movement Disorder Section, Director

- Movement Disorders Fellowship, Director
 - Clinical Trials
- Neurology Committee Service
- Diversity and Inclusion Committee, Chair
 - Faculty Mentoring Committee
 - Faculty Promotion and Tenure Committee

Date

Signature of Chair

Personal Information

Faculty member's preferred familiar name: Mark Stacy, MD.

Local home address:

3725 Foxwood Place
Durham, NC 27705

Local home phone # (919)-383-4147

Cell Phone # (919)-451-9183

Marital status: Married

Name of spouse: Tina Estrada Stacy, PhD