

ANDREA MARKL CORSE

Demographic Information

Current Academic Appointments:

**Associate Professor, Departments of Neurology
Johns Hopkins University School of Medicine, March 2006-Present**

**Associate Professor, Departments of Neurosurgery
Johns Hopkins University School of Medicine, July 2006-Present**

**Director, Neuromuscular Pathology Laboratory
Johns Hopkins University School of Medicine, November 2001-Present**

Current Hospital Appointments:

**Medical Staff, Department of Neurology
Johns Hopkins Hospital
Attending Neurologist, August 1993-Present**

**Medical Staff, Department of Pathology
Johns Hopkins Hospital
Active Staff, November 2001-Present**

Address:

**Meyer 5-119
600 North Wolfe Street
Baltimore, Maryland 21287-7519
Phone: 410-614-4278
Fax: 410-614-9003
e-mail: acorse@jhmi.edu**

Personal:

**Married to John D. Corse, Jr.
Children: Alexa Montgomery Corse - born December 23, 1996
Cameron Amelia Corse - born June 23, 1998**

Education:

**University of Kansas School of Medicine, Kansas City, Kansas
M.D. received May 1987**

**Stanford University, Stanford, California
B.A. Human Biology received June 1982**

Post-Doctoral Clinical Training:

**Clinical Fellow, Division of Neuromuscular Diseases, Department of
Neurology**

Johns Hopkins Hospital, Baltimore, Maryland July 1991-June 1992

**Chief Resident, Department of Neurology
Johns Hopkins Hospital, Baltimore, Maryland July 1990-June 1991**

**Resident, Department of Neurology
Johns Hopkins Hospital, Baltimore, Maryland July 1988-June 1990**

**Intern, Department of Medicine
Johns Hopkins Hospital, Baltimore, Maryland July 1987-June 1988**

Graduate and Post Graduate Research Experience:

**Post-Doctoral Research Fellow
Laboratory of Drs. Ralph Kuncl and Jeffrey Rothstein
Department of Neurology, Johns Hopkins University School of Medicine
Baltimore, Maryland July 1992-June 1993**

**NIH Summer Research Fellow
Laboratory of Dr. R. J. Wyatt, National Institute of Mental Health
Bethesda, Maryland June 1984-August 1984**

**Research Assistant
Laboratory of Dr. J. T. Coyle
Department of Neuroscience, Johns Hopkins University School of Medicine
Baltimore, Maryland August 1982-August 1983**

Professional Experience:

**Johns Hopkins University School of Medicine:
Director, Neuromuscular Pathology Laboratory
November 2001-Present**

**Interim Director Neuromuscular Pathology Laboratory
July-November 2001**

**Co-Director Neuromuscular Pathology Laboratory
January 1999-July 2001**

**Assistant Professor, Department of Neurology
January 1996-March 2006**

**Instructor, Department of Neurology
July 1993-January 1996**

**Johns Hopkins Hospital:
Medical Staff, Department of Pathology
Active Staff, November 2001-Present**

**Medical Staff, Department of Neurology
Attending Neurologist, August 1993-Present**

**Medical Staff, Department of Neurology
Clinical Fellow, July 1991-August 1993**

Undergraduate Experience:

Intern, Senate Subcommittee in Education, Arts and Humanities
United States Senate, Washington, D.C. June 1981-August 1981

Research Activities

Publications: Peer-reviewed Scientific Articles

- 1) Ferkany J., Zaczek R., Markl A. and Coyle J.T. Glutamate-containing dipeptides enhance specific binding at glutamate receptors and inhibit specific binding at kainate receptors in rat brain. *Neuroscience Letters* 44:281-286, 1984.
- 2) Zaczek R., Markl A., Balm M. and Coyle J.T. A simple method for quantitative electroencephalographic assessment of drugs with convulsant and anticonvulsant properties. *Journal of Neuroscience Methods* 18:351-360, 1986.
- 3) Zaczek R., Arlis S., Markl A., Murphy T., Drucker H. and Coyle J.T. Characteristics of chloride dependent glutamate incorporation into brain membranes argue against a receptor binding site. *Neuropharmacology* 26:281-287, 1987.
- 4) Corse A.M. and Stern B.J. Neurosarcoidosis and stroke. *Stroke* 21:152-153, 1990.
- 5) Chaudhry V., Corse A.M., Cornblath D.R., Kuncl R.W., Drachman D.B., Freimer M.L., Miller R.G. and Griffin J.W. Multifocal motor neuropathy: response to human immune globulin. *Annals of Neurology* 33:237-242, 1993.
- 6) Chaudhry V., Cornblath D.R., Griffin J.W., Corse A.M., Kuncl R.W. and Drachman D.B. Multifocal motor neuropathy or CIDP? Reply. *Annals of Neurology* 34:750-751, 1993.
- 7) Chaudhry V., Corse A.M., Cornblath D.R., Kuncl R.W., Freimer M. and Griffin J.W. Multifocal motor neuropathy: electrodiagnostic features. *Muscle and Nerve* 17:198-205, 1994.
- 8) Chaudhry V., Corse A.M., Freimer M.L., Glass J.D., Mellits E.D., Kuncl R.W., Quaskey S.A. and Cornblath D.R. Inter and intraexaminer reliability of nerve conduction measurements in patients with diabetic neuropathy. *Neurology* 44:1459-1462, 1994.
- 9) Corse A.M., Chaudhry V., Crawford T.O., Cornblath D.R., Kuncl R.W. and Griffin J.W. Sensory nerve pathology in multifocal motor neuropathy. *Annals of Neurology* 39:319-325, 1996.
- 10) Corse A.M., Chaudhry V., Kuncl R.W., Cornblath D.R., Crawford T., and Griffin J.W. Biopsy findings link multifocal motor neuropathy to CIDP. Reply. *Annals of Neurology* 40:949-950, 1996.

- 11) Chaudhry V, Corse, A.M., O'Brien R., Cornblath D.R., Klein A.S., and Thuluvath P. Autonomic and peripheral (sensori-motor) neuropathy in chronic liver disease: a clinical and electrophysiologic study. *Hepatology* 29: 1698-1703, 1999.
- 12) Bilak M.M., Corse A.M., Bilak S.R., Lehar M., Tombran-Tink J., and Kuncel R.W. Pigment epithelium-derived factor (PEDF) protects motor neurons from chronic glutamate-mediated neurodegeneration. *Journal of Neuropathology and Experimental Neurology* 58:719-728, 1999.
- 13) Corse A.M., Bilak, M.M., Bilak, S.R., Lehar M., Rothstein J.D., and Kuncel R.W. Preclinical testing of neuroprotective neurotrophic factors in a model of chronic motor neuron degeneration. *Neurobiology of Disease* 6:335-346, 1999. Featured in editorial.
- 14) Bilak M.M., Shifrin D.A., Corse, A.M., Bilak S.R., and Kuncel R.W. Neuroprotective utility and neurotrophic action of neurturin in postnatal motor neurons: comparison with GDNF and persephin. *Molecular and Cellular Neuroscience* 13:326-336, 1999.
- 15) Bilak M.M., Corse A.M., and Kuncel R.W. Additivity and potentiation of IGF-I and GDNF in the complete rescue of postnatal motor neurons. *Amyotrophic Lateral Sclerosis* 2:83-91, 2001.
- 16) Kuncel R. W., Bilak M.M., Bilak S.R., Corse A.M., Royal W., and Becerra S.P. Pigment epithelium-derived factor is elevated in CSF of patients with amyotrophic lateral sclerosis. *Journal of Neurochemistry* 81:178-184, 2002.
- 17) Chaudhry V., Cornblath D.R., Corse A.M., Freimer M, Simmons-O'Brien E., and Vogelsang G. Thalidomide-induced neuropathy. *Neurology* 59:1872-1875, 2002.
- 18) Chaudhry V., Corse, A.M., Skolasky R.L., Jr. Surface electromyographic recording of volitional activity: a technique to detect partial motor conduction block. *Muscle & Nerve* 27:590-594, 2003.
- 19) Thomas A.G., Corse A.M., Coccia C.F., Bilak M.M., Rothstein J.D., and Slusher B.S. NAALADase inhibition protects motor neurons against chronic glutamate toxicity. *European Journal of Pharmacology* 471(3):177-184, 2003.
- 20) Bolaños-Meade J., Zhou L., Hoke A., Corse A., Vogelsang G., Wagner K.R. Hydroxychloroquine causes severe vacuolar myopathy in a patient with chronic graft-versus-host disease. *American Journal of Hematology* 78:306-309, 2005.
- 21) Casciola-Rosen L., Nagaraju K., Plotz P., Wong K., Levine S., Gabrielson E., Corse A., and Rosen A. Enhanced autoantigen expression in regenerating muscle cells in idiopathic inflammatory myopathy. *Journal of Experimental Medicine* 210(4):591-601, 2005.
- 22) Reed P., Porter N.C., Strong J., Pumphlin D.W., Corse A.M., Luther P.W., Flanigan K.M., and Bloch R.J. Sarcolemmal Reorganization in Facioscapulohumeral Muscular Dystrophy. *Annals of Neurology* 59:289-297, 2006.

- 23) Wilson R.K., Kuncl R.W., and Corse A.M. Wernicke's encephalopathy: beyond alcoholism. *Nature Clinical Practice Neurology* 2:54-58, 2006.
- 24) Wedderburn L.R., Varsani H., Li C.K.C., Newton K.R., Amato A.A., Banwell B., Bove K.E., Corse A.M., Emslie-Smith A., Harding B., Hoogendijk J., Lundberg I.E., Marie S., Minetti C., Nennesmo I., Rushing E.J., Sewry C., Charman S.C., Pilkington C.A., Holton J.L. International Consensus on a Proposed Score System for Muscle Biopsy Evaluation in Patients with JDM, for Potential Use in Clinical Trials. *Journal of Arthritis and Rheumatism*, 2007 (In Press).
- 25) Reed P.W., Corse, A.M., Porter N.C., Flanigan K.M., Bloch R.J. Abnormal Expression of mu-Crystallin in Facioscapulohumeral Muscular Dystrophy. *Experimental Neurology*, 2007 (In Press).

Book Chapters

- 1) Corse A.M. and Kuncl R.W. Polymyositis. In: *Current Therapy in Neurologic Disease* (Fourth Edition), edited by J.W. Griffin and R.T. Johnson, Mosby-Year Book, Inc., Philadelphia, pp. 392-397, 1993.
- 2) Corse A.M. and Kuncl R.W. Peripheral Neuropathy. In: *Principles of Ambulatory Medicine* (Fourth Edition), edited by Barker, Burton and Zieve, Williams and Wilkins, Baltimore, pp. 1240-1257, 1994.
- 3) Corse A.M. and Rothstein J.D. Organotypic Spinal Cord Cultures and a Model of Chronic Glutamate-Mediated Motor Neuron Degeneration. In: *Central Nervous System Trauma - Research Techniques*, edited by Ohnishi and Ohnishi, CRC Press, Inc., Philadelphia, pp. 341-351, 1995. (Featured on book cover).
- 4) Corse A.M. and Kuncl R.W. Myasthenia Gravis. In: *Current Therapy in Allergy, Immunology, and Rheumatology* (Fifth Edition), edited by L.M. Lichtenstein and A.S. Fauci, Mosby-Year Book, Inc., Philadelphia, pp. 386-393, 1996.
- 5) Corse A.M. Brachial Neuritis and Multifocal Motor Neuropathy. In: *Current Therapy in Neurologic Disease* (Fifth Edition), edited by R.T. Johnson and J.W. Griffin, Mosby-Year Book, Inc., Philadelphia, pp. 368-372, 1997.
- 6) Corse A.M. and Kuncl R.W. Myasthenia Gravis and Myasthenic Syndrome. In *Current Therapy in Neurologic Disease* (Fifth Edition), edited by R.T. Johnson and J.W. Griffin, Mosby-Year Book, Inc., Philadelphia, pp. 392-401, 1997.
- 7) Corse A.M. and Kuncl R.W. Myasthenia Gravis and Myasthenic Syndrome. In *Current Therapy in Adult Medicine* (Fourth Edition), edited by J.P. Kassirer and H.L. Greene II, Mosby-Year Book, Inc., Philadelphia, pp. 1407-1415, 1998.

- 8) Corse A.M. and Kuncel R.W. Peripheral Neuropathy. In: *Principles of Ambulatory Medicine* (Fifth Edition), edited by Barker, Burton and Zieve, Williams and Wilkins, Baltimore, pp.1296-1314, 1999.
- 9) Corse, A.M. Amyotrophic lateral sclerosis. In: *Kelley's Textbook of Internal Medicine* (Fourth Edition), edited by H. D. Humes, Philadelphia, pp. 2923-2926, 2000.
- 10) Corse A.M. Myasthenia Gravis. In: *Current Therapy in Allergy, Immunology, and Rheumatology* (Sixth Edition), edited by L.M. Lichtenstein, W.W. Busse, and R.S. Geha, Mosby-Year Book, Inc., Philadelphia, pp. 393-398, 2004.
- 11) Corse A.M. Myasthenia Gravis. In *Current Therapy in Neurologic Disease* (Seventh Edition), edited by R.T. Johnson, J.W. Griffin and J. McArthur, Mosby-Year Book, Inc., Philadelphia, pp. 387-392, 2006.

Abstracts

Ferkany J., Zaczek R., Markl A. and Coyle J.T. Phenylalanyl-L-glutamate enhances specific (^3H)-2-amino-7-phosphono-heptanoic acid and (^3H)-L-glutamate binding and inhibits specific (^3H)-kainic binding to rat brain membranes in vitro. *Neuroscience* 9:262, 1983.

Harris J., Zaczek R., Markl A., Joshi P., Rosenberg L. and Leventhal B. Prednisolone levels and behavioral toxicity in cancer patients on intermittent high doses of corticosteroids. *American Academy of Child Psychiatry* 1983.

Zaczek R., Markl A., Hazzard S. and Coyle J.T. Quantitative EEG technique for measuring cortical seizure activity: effects of excitatory amino acid analogues. *Neuroscience* 9:1104, 1983.

Zaczek R., Arlis S., Markl A., Murphy T. and Coyle J.T. Effects of glutamate dipeptides on the binding of (^3H)-L-glutamate to rat brain membranes. *Neuroscience* 11:108, 1985.

Chaudhry V., Markl Corse A., Griffin J.W., Kuncel R.W., Drachman D.B., Freimer M.L. and Cornblath D.R. Multifocal motor neuropathy with anti-GM1 antibodies and partial motor conduction block: favorable response to intravenous immunoglobulin therapy. *Neurology* 42 (S3):178, 1992.

Chaudhry V., Corse A.M. and Reich S.G. Sensory conduction block in ataxic form of Guillain-Barre Syndrome. *Muscle and Nerve* 15:1180, 1992.

Chaudhry V., Rowinsky E.K., Cornblath D.R., Sartorius S.E., Corse A.M. and Donehower R.C. Taxol-induced neurotoxicity: sensory-motor neuropathy and myopathy. *Annals of Neurology* 32:286, 1992.

Chaudhry V., Cornblath D.R., Corse A.M., Freimer M.L., Glass J.D., Kuncel R.W., Mellits E.O. and Quaskey, S.A. Inter and Intra-examiner reliability of nerve conduction measurements in patients with diabetic neuropathy. *Neurology* 43, 1993.

Corse A.M., Chaudhry V., Crawford T., Cornblath D.R., Kuncel R.W. and Griffin J.W. Sural nerve pathology in multifocal motor neuropathy. *Annals of Neurology* 34:268, 1993.

Corse A.M., Kuncel R.W. and Rothstein J.R. Neurotrophic factors in a model of chronic glutamate toxicity. *Annals of Neurology* 34:267, 1993.

Chaudhry V., Corse A.M., Cornblath D.R., Kuncel R.W., Friemer M.L. and Griffin J.W. Multifocal motor neuropathy - electrodiagnostic features. *Muscle and Nerve* 16:1081, 1993.

Corse A.M., Kuncel R.W. and Rothstein J.R. Neuroprotective neurotrophic factors in a model of chronic glutamate toxicity. *Neuroscience* 19:659, 1993.

Corse A.M., Kuncel R.W. and Rothstein J.R. Contrasting effects of neurotrophic factors as neuroprotectants in a model of chronic glutamate toxicity. *The 5th International Symposium on Neural Regeneration, Pacific Grove, California 1993.*

Corse A.M., Chaudhry V., Crawford T.O., Cornblath D.R., Kuncel R.W. and Griffin J.W. Demyelinating pathology in sural nerves in multifocal motor neuropathy. *Muscle & Nerve*, 17 (S1):S216, 1994. Presented at The VIII International Congress on Neuromuscular Diseases, Kyoto, Japan.

Rothstein J.D., Corse, A., Brown R.H. and Kuncel R.W. Glutamate and excitotoxicity in ALS. *Muscle & Nerve* 17 (S1):S61, 1994.

Corse A.M., Coccia C.F., Rothstein J.D., Kuncel R.W. GDNF provides potent neuroprotection of motor neurons against chronic glutamate toxicity. *Neuroscience* 21:544, 1995.

Corse A.M., Coccia C.F., Rothstein J.D., Kuncel R.W. Glial cell line-derived neurotrophic factor prevents glutamate-mediated motor neuron degeneration. *6th International Symposium on ALS/MND, Dublin, Ireland, 1995.*

Chaudhry V., Cornblath D., Corse A., Friemer M., Simmons-O'Brien E., Vogelsang G. Thalidomide-induced neuropathy: clinical and electrophysiological features. *Neurology* 46:A283, 1996.

Chaudhry V., Corse A., Cornblath D., Kuncel R.W., Adornato B., Miller R., Griffin J. Maintenance immune globulin therapy for multifocal motor neuropathy: results of long-term follow-up. *Annals of Neurology* 40:513, 1996.

Bilak M.M., Corse A.M., Tombran-Tink J., Kuncel R.W. Pigment epithelial-derived factor (PEDF) protects motor neurons against chronic glutamate-mediated toxicity. *Neuroscience* 23:2298, 1997.

Corse A.M., Thomas A.G., Coccia C.F., Rothstein J.D., Slusher B.S. NAALADase inhibition protects motor neurons against chronic glutamate toxicity. *Neuroscience* 23:2301, 1997.

Chaudhry V., Cornblath D.R., Corse A.M., O'Brien R., Klein A.S., Thuluvath P.J. Autonomic and peripheral neuropathy in chronic liver disease: a clinical and electrophysiological study. *Neurology* 47:A, 1997.

Bilak M.M., Corse A.M., Tombran-Tink J., Kuncl R.W. Pigment epithelial-derived factor (PEDF) protects motor neurons against chronic glutamate-mediated toxicity. *Annals of Neurology* 42:451, 1997.

Chaudhry V., Corse A.M., Weiner L.P., and Drachman D.B. Foot drop in myasthenia gravis. *Neurology* 50:A82, 1998.

Bilak S.R., Bilak M.M., Corse A.M., Royal W., Becerra P., Cristofalo V., Francis M.K., Kuncl R.W. Elevated pigment epithelium-derived factors (PEDF) levels in CSF of patients with amyotrophic lateral sclerosis (ALS). *Annals of Neurology* 46, 1999.

Bilak M.M., Corse A.M., Becerra P., Kuncl R.W. A small peptide from human pigment epithelium-derived factor (PEDF) protects motor neurons from chronic glutamate-mediated degeneration. *Neuroscience* 25:1108, 1999.

Bilak S.R., Bilak M.M., Corse A.M., Royal W., Becerra P., Cristofalo V., Francis M.K., Kuncl R.W. Pigment-epithelium-derived factor is elevated in cerebrospinal fluid of patients with amyotrophic lateral sclerosis. *Neuroscience* 25:1837, 1999.

Bilak M.M., Corse A.M., Kuncl R.W. Additive effects of IGF-I and GDNF to rescue postnatal spinal motor neurons from slow glutamate injury. *Regeneration Research Symposium, Pacific Grove, CA, 1999.*

Bilak M.M., Corse, A.M., Kuncl, R.W. Delayed application of IGF-I rescues glutamate-injured motor neurons. *Neurology* 54:A306, 2000.

Reich S.G., Maleki E., Moliterno A.R., Corse A.M., Lee L.A., Vogelsang G.B. Manganese-induced parkinsonism from total parenteral nutrition: report of a case and review of the literature. *Annals of Neurology* 2003.

Casciola-Rosen L., Nagaraju K., Plotz P., Wong K., Levine S., Corse A., Rosen A. Enhanced autoantigen expression in regenerating cells in myositis muscle: A key component underlying the self-sustaining nature of systemic autoimmune disease. *American College of Rheumatology, 2004.*

Wedderburn L.R., Li C., Varsani H., Amato A., Banwell B., Bove K., Corse A., Emslie-Smith A., Harding B., Hoogendijk J., Lundberg I., Marie S., Minetti C., Nennesmo I., Rushing E., Sewry C., Allen E., Pilkington C., and Holton J. An international consensus working group to generate a scoring system for histological abnormality in juvenile dermatomyositis muscle biopsies. *12th European Pediatric Rheumatology Congress, 2005.*

Wedderburn L.R., Varsani H., Li C.K., Amato A.A., Banwell B., Bove K.E., Corse A.M., Emslie-Smith A., Harding B., Hoogendijk J., Lundberg I.E., Marie S.K., Minetti C., Nennesmo I., Rushing E.J., Sewry C., Newton K.R., Allen E., Charman S.C., Pilkington C.A., and Holton J. A proposed score tool with which to define abnormalities on muscle biopsy from children with juvenile dermatomyositis. *American College of Rheumatology, 2006.*

Chien-Hsu L., Melli G., Corse A.M., Wagner K.R., Cornblath D.R. Diagnostic yield of open muscle biopsy in patients with question of primary muscle disease. 11th International Congress of Neuromuscular diseases, 2006.

Extramural Sponsorship:

**Novartis Pharmaceuticals Corporation
AM Corse, PI
Multicenter Study Evaluating TCH346 in Patients with ALS
Direct Cost: \$86,772
Total Period: 9/1/03 – 1/17/05
Effort: 10%**

**Muscular Dystrophy Association
RW Kuncl, PI; AM Corse, Co-PI
Potent Neuroprotection of Motor Neurons by PEDF
Direct Cost: \$180,000 (3 years)
Total Period: 7/1/98-6/30/01
Effort: no salary support (supports Post-doc & supplies)**

**NINDS - RO1 (1 RO1 NS33985-01)
RW Kuncl, PI; AM Corse, Co-PI
Protective Trophic Factors in Motor Neuron Degeneration
Direct Cost: \$614,400 (4 years)
Total Period: 5/1/95-2/28/99
Effort: no salary support (supports technician & supplies)**

**NINDS - CIDA (1 K08 NS01722-01)
AM Corse, PI
Trophic Factors in Chronic Motor Neuron Degeneration
Direct Cost: \$402,500 (5 years)
Total Period: 4/1/94-3/31/99
Effort 100%**

Intramural Sponsorship:

**Clinician Scientist Award - Johns Hopkins School of Medicine
AM Corse, PI
Trophic Factors in a Model of Chronic Motor Neuron Degeneration
Direct Cost: \$48,375
Total Period: 7/1/93-3/31/94
Effort: 80%**

Educational Activities

Teaching Appointments:

**Johns Hopkins University School of Medicine
Neurology Clinical Skills for 2nd year Students
Course Director, 1999-Present
Preceptor, 1991-Present**

**Neuroscience Course for 2nd year Students
Laboratory Preceptor, 1994, '95, '96, '97, '99, 2001**

**Introduction to Clinical Medicine for 1st year Students
Clinical Preceptor, 2000-Present**

Post-Doctoral Mentoring

Clinical Neuromuscular Fellows (50% of their effort):

W. Bryan Burnette, M.D. June 2006 - Present

Irene Cortese, M.D. November 2005 - Present

Brett Morrison, M.D., Ph.D. July 2005 – June 2006

Currently: Instructor in Neurology, JHUSOM

Andrew Mammen, M.D., Ph.D. July 2005 – December 2005

Currently: Post-doctoral Fellow, JHUSOM

Sindhu Ramchandren, M.D. July 2004 – June 2005

Currently: Post-doctoral Fellow, U. of Mich.

Thien Nguyen, M.D., Ph.D. July 2003 - June 2004

Currently: Post-doctoral Fellow, JHUSOM

Lon Zhou, M.D., Ph.D. July 2002- June 2003

Currently: Asst. Professor, Cleveland Clinic

Muhammed Munir, M.D., Ph.D. July 2002 - June 2003

Currently: Attending Neurologist, Austin, Texas

Editorial Activities

Editorial Advisory Board – Nature Clinical Practice Neurology

Ad Hoc Reviewer

Annals of Neurology

Medicine

Journal of the Peripheral Nervous System

Clinical Activities

Certification:

**Maryland State Medical License D42763
1991-Present**

**Diplomate, American Board of Psychiatry and Neurology
Neurology, 1992**

**American Board of Psychiatry and Neurology
with Added Qualification in Clinical Neurophysiology, 1996**

**Qualifications Recognition in Neuromuscular Pathology in
Nerve and Muscle by the American Academy of Neurology, 1999**

Invited Member:

**First Juvenile Dermatomyositis Biopsy Consensus Group
Institute of Child Health, Univ. College London, March 2005**

**Second Juvenile Dermatomyositis Biopsy Consensus Group
Institute of Child Health, Univ. College London, March 2006**

Service Responsibilities:

Neuromuscular Clinic ½ day/week
Muscle and nerve biopsy surgery ½ day/week
Nerve conduction studies/electromyography 1 day/week
Muscle and nerve pathology reading ½ day/week, 4-6 months/year
Neurology ward or consult attending 1 month/year
Neuromuscular consult attending 1 month/year

Clinical Research Studies:

Participating Investigator (Multicenter ALS Trials)
Ciliary Neurotrophic Factor (CNTF) in ALS, Phase III
Regeneron, 1994
Riluzole in ALS, Phase III
Rhone-Poulenc-Rorer, 1995
Brain-Derived Neurotrophic Factor (BDNF) in ALS, Phase I/II
AMGEN-Regeneron, 1995
Brain-Derived Neurotrophic Factor (BDNF) in ALS, Phase III
AMGEN-Regeneron, 1996
SR 57446A in ALS, Phase III
Sanofi Winthrop, 1997
Co-Investigator, High-dose Cyclophosphamide for the Treatment of
Autoimmune Neurologic Syndromes, 2000-present
Principal Investigator, CTCH346 in ALS, Phase IIb
Novartis, 12/1/03 - 01/17/05
Principal Investigator, Measuring Quality of Life in ALS
Philadelphia Coll. of Osteopathic Med. 6/29/05 - 6/29/07

Organizational Activities:

Institutional Administrative Appointments:

Johns Hopkins University School of Medicine Admissions Committee
September 1999-present

Departmental Finance Committee, Department of Neurology
Johns Hopkins University School of Medicine, February 1999-November 2000

Departmental Appointments and Promotions Committee
Departments of Neurology and Neurosurgery
Johns Hopkins University School of Medicine, June 1994-November 2000

Professional Societies:

American Academy of Neurology 1995 - present
Society for Neuroscience 1993-2003

Conference Organizational Activities:

KROC International Neuroscience Symposium 2000
Johns Hopkins University School of Medicine, June 2000

**Johns Hopkins Medical & Surgical Association Biennial Meeting
Department of Neurology Academic Program, June 1995, 1999**

Honors:

**Frank Ford Teaching Award, Department of Neurology
Johns Hopkins University School of Medicine, June 2004**

**Clinical Investigator Development Award
NINDS, Johns Hopkins University School of Medicine, 1994-1999**

**Junior Women in Medicine Professional Development Seminar
Association of American Medical Colleges
Kansas City, Missouri, November 1997**

**Richard S. Ross Clinician Scientist Award
Johns Hopkins University School of Medicine, June 1993**

**The American Neurological Association
Travel Fellowship Award, July 1993
The Charles A. Dana Foundation Fellowship
Johns Hopkins University School of Medicine, June 1991-July 1993**

**The Fidia International School of Neuroscience
Padua, Italy, October 1992**

**Lange Medical Publications Award
Glasgow Memorial Achievement Citation
University of Kansas School of Medicine, May 1987**

**Alpha Omega Alpha
University of Kansas School of Medicine, May 1986**

**Cum Laude
Phi Beta Kappa
The Barstow School, June 1978**

Invited Lectures/Interviews (selected)

***Motor Neuron Protection by Neurotrophic Factors*, Fidia International School of Neuroscience
Padua, Italy, October 1992**

***Multifocal Motor Neuropathy*, Neurology Grand Rounds, Walter Reed Army Medical Center,
Uniformed Services University of Health Sciences, Washington, D.C. February 1994**

***Neurotrophic Factors as Neuroprotectants*, Neuromuscular Research Seminar
Johns Hopkins University School of Medicine, Baltimore, Maryland, January 1994**

***Sural Nerve Pathology in Multifocal Motor Neuropathy, East Coast Neuropathy Group
Evergreen House, Baltimore, Maryland, March 1994***

***Amyotrophic Lateral Sclerosis: Advances, Saturday Morning Rounds in Medicine
Johns Hopkins University School of Medicine, Baltimore, Maryland, September 1995***

***Approach to Diagnosis of Peripheral Neuropathy, 41st Topics in Clinical Medicine
Johns Hopkins University School of Medicine, Baltimore, Maryland, May 1996.***

***Amyotrophic Lateral Sclerosis on "All Things Considered"
National Public Radio, Washington, D.C., 1996.***

***Complications of HIG Therapy, Department of Neurology Mortality and Morbidity Conference
Johns Hopkins University School of Medicine, Baltimore, Maryland, September, 1996.***

***Update on Current Research in ALS: Drs. R. Kuncel, J. Rothstein, and A. Corse
Baltimore ALS Support Group, Baltimore, Maryland, 1993-97.***

Peripheral Neuropathy, Harbor Hospital Medical Grand Rounds, Baltimore, Maryland, May 1997.

***Potent Neuroprotection by PEDF against Chronic Motor Neuron Degeneration, National Eye
Institute Seminar Series, National Institutes of Health, Bethesda, Maryland, February, 1998.***

Myasthenic Crisis, Myasthenia Gravis Support Group, Washington, D.C., 1999.

***When a treatable disease masquerades as ALS the clinician has great news - and not so great news -
multifocal motor neuropathy, Medcast Networks, Baltimore, Maryland, 1999.***

***Diagnostic and Therapeutic Strategies in Myasthenia Gravis, Keynote Address, Myasthenia Gravis
Foundation of America Maryland/ District of Columbia/ Delaware Chapters Annual Symposium,
Bethesda, Maryland 2001.***

***The Role of High-Dose Cyclophosphamide in the Treatment of Myasthenia Gravis, Guest Keynote
Speaker, Symposium entitled Treatment Advances for Autoimmune Neurologic Disorders,
sponsored by The I. Brodsky Institute for Blood Diseases and Cancer, Drexel University College of
Medicine, Philadelphia, P.A., 2004.***

***Neuromuscular Pathology, University of Maryland Department of Neurology Grand Rounds,
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