

Curriculum Vitae
Dominic (Nick) B. Fee, MD

Department of Neurology
University of Kentucky Chandler Medical Center
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Present Appointment: Assistant Professor

Research and Clinical Interests

Modulation of central and peripheral nervous system injury via immunologic and angiogenic mechanisms; currently utilizing a spinal cord injury model. Neuromuscular disorders; especially hereditary peripheral neuropathies. Neurogenetics.

Education

- 1987-1991 BA Northwestern University, Evanston, IL.
Economics
Evolutionary Biology & Population Genetics
- 1991-1996 MD University of Iowa, School of Medicine, Iowa City, IA.

Training

- 1991 & 1992 Student Research Fellowships
Department of Pathology, University of Iowa, Iowa City, IA
- 1993-1994 Emory Warner Research Fellowship.
Department of Pathology, University of Iowa; Iowa City, IA
- 1996-1997 Internship: Internal Medicine
Department of Internal Medicine, Evanston Hospital, Northwestern University; Evanston, IL
- 1997-2000 Residency: Neurology
Department of Neurology, University of Wisconsin Hospitals and Clinics; Madison, WI
- 2000-2002 Fellowship: Neuromuscular Disease/ Clinical Neurophysiology
Neuromuscular Division, Department of Neurology, University of Wisconsin Hospitals and Clinics; Madison, WI
- 2003-2004 Fellowship: Neurogenetics
Division of Neurology, Department of Medicine, Cedars- Sinai Medical Center; Los Angeles, California

Practice

- 2002-2003 Clinical Instructor
Department of Neurology, University of Wisconsin Hospitals and Clinics;
Madison, WI
- 2004-current Assistant Professor
Department of Neurology, University of Kentucky Chandler Medical
Center; Lexington, KY
- 2005-current Staff Physician
Department of Neurology, VA Medical Center, Lexington, KY
- 2006-current Faculty Associate
Spinal Cord and Brain Research Center (SCoBRC), University of
Kentucky Chandler Medical Center
- 2006-2007 Director, MDA Clinic at University of Kentucky Chandler Medical Center

Licensure

- 1998-current State of Wisconsin, #39574-020
2003-2004 State of California, #A82671
2004-current State of Kentucky, #38855

Board Certification

- 2002 American Board of Psychiatry and Neurology, Neurology, Certificate
51266
- 2003 American Board of Psychiatry and Neurology, Clinical Neurophysiology,
Certificate # 1347
- 2008 American Board of Electrodiagnostic Medicine, Certificate # 3255

Honors

- 2006-current President, Commonwealth Neurological Society (Kentucky)
- 2000 University of California at San Francisco Headache Preceptorship
- 2000 Annual Meeting Scholarship for Residents, American Academy of
Neurology
- 1999-2000 Chief Resident (Neurology), University of Wisconsin Hospitals and
Clinics
- 1996 Robert J Joynt Award (Senior Student Best in Neurology), University of
Iowa

Committees

- 2008-current Short Term Specific Vision, Goals, and Objectives for the AAN
Neurogenetics Section Strategic Plan, American Academy of Neurology
- 2007-current Apheresis Service Task Force- University of Kentucky Chandler Medical
Center

- 2006-current Executive Committee of the Commonwealth Neurological Society (Kentucky), President
- 2006-current Problematic Issues in Neurogenetic Testing Subcommittee, Neurogenetics Section, American Academy of Neurology
- 2005-current Organ Donation Counsel, University of Kentucky Chandler Medical Center
- 2004-current KODA (Kentucky Organ Donation Association)
- 2005-2007 Billing Process/Denial Committee, Kentucky Medical Services Foundation (KMSF)
- 2001-2003 Residency Committee (Neurology), University of Wisconsin Hospital and Clinics
- 1999-2002 Quality Improvement Committee (Neurology), University of Wisconsin Hospitals and Clinics
- 1999-2002 Nutrition Committee, University of Wisconsin Hospitals and Clinics
- 1999-2002 Drug-Nutrient Interaction Subcommittee, University of Wisconsin Hospital and Clinics
- 1990-1991 Undergraduate Student Advisory Board to the Dean, Northwestern University

Professional Societies

- 1998-current American Academy of Neurology
- 2000-current Genetics Section, American Academy of Neurology
- 1997-current Wisconsin Neurological Society
- 2006-current Commonwealth Neurological Society (Kentucky)

Teaching

- 2004-current Third Year Neurology Clerkship Lecture Series, Peripheral Nervous System, University of Kentucky
- 2005 Neurological Conditions, Medical & Psychosocial Aspects of Disability II, for undergraduate rehabilitation students, University of Kentucky
- 2002-2003 Patient, Doctor, Society course for first and second year medical students, University of Wisconsin
- 2003 Meningitis and Encephalitis, Management of Common and Complex Health Problems II for acute care nurse practitioner students, University of Wisconsin
- 2001 Case Studies in Neuroanatomy, Neuroanatomy Course for second year medical students, University of Wisconsin
- 2000 Neurological Care Issues in Nursing, University of Wisconsin

Invited Lectures

- 4/2/2008 Centro Internacional de Neurociencias, Quito, Ecuador; “Neuromuscular Pearls”.
- 12/14/2005 Department of Medicine, VA Hospital, Lexington, KY; Grand Rounds, “Neuropathic Pain Management”.

- 2/2/2004 Department of Neurology, Oregon Health Sciences University; Portland Oregon; Research Seminar, "Lymphocytes Exacerbate Acute Central Nervous System Injury".
- 1/24/2003 Division of Neurology, Cedars- Sinai Medical Center; Los Angeles, CA; Grand Rounds, "Lymphocytes Exacerbate Acute Cerebral Injury".

Clinical Studies

- 2008- current Site sub-investigator, A Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Efficacy and Safety Trial of Bapineuzumab (AAB-001, ELN115727) in Patients with Mild to Moderate Alzheimer's Disease who are Apolipoprotein E4 Carriers, Elan Pharmaceuticals
- 2006 Site principal investigator, Pilot Trial of Rituximab in Myasthenia Gravis, Genentech
- 2002- 2003 Site sub-investigator, Phase III study (NPP30004/30005) on Lamictal in diabetic neuropathy, GlaxoSmithKline
- 2002- 2003 Site sub-investigator, Phase III trial on Paclitaxel in secondary progressive multiple sclerosis, Angiotech
- 2002- 2003 Site sub-investigator, Phase III trial (CTRI 476G 2305) on Trileptal safety and efficacy in neuropathic pain, Novartis
- 2001- 2003 Site sub-investigator, Phase II study (IM101-200MS) on BMS-188667 in relapsing remitting multiple sclerosis, Bristol Meyer Squibb

Publications

Peer Reviewed Articles:

Evidente V, Advincula J, **Fee D**, Waters M, Pulst S. Phenotypic Description of SCA13 in a Filipino Kindred with the KCNC3^{R420H} mutation. Submitted- Movement Disorders

Swartz K, **Fee D**. Kümmell's Disease: A Case Report and Literature Review. Spine 33(5): E152- E155, Mar 2008.

Fee D and Waclawik A. Diabetic Muscle Infarction: A Poorly Understood, Rare Complication of Long-standing Diabetes Mellitus. J KY Med Assoc 105 (10): 485- 490, Oct 2007.

Swartz K, **Fee D**, Joy K, Roberts K, Sun S, Scheff N, Wilson M, Scheff S. Gender differences in spinal cord injury are not estrogen-dependent. J Neurotrauma 24(3): 473-480, Mar 2007.

Fee D, Swartz K, Joy K, Roberts K, Scheff N, Scheff S. Effects of Progesterone on Experimental Spinal Cord Injury. Brain Res 1137: 146-152, Mar 2007.

Waters M, Minassian N, Stevanin G, Figueroa K, Bannister J, Nolte D, Mock A, Evidente V, **Fee D**, Muller U, Durr A, Brice A, Papazian, Pulst S. Mutations in the voltage-gated potassium channel KCNC3 cause degenerative and developmental CNS phenotypes. Nat Genet 38(4): 447-451, Apr 2006.

Waters M, **Fee D**, Figueroa K, Muller U, Advincula J, Coon H, Evidente V, Pulst S. An autosomal dominant ataxia maps to 19q13: Allelic heterogeneity of SCA 13 or novel locus?. *Neurology* 65(7): 1111-3, October 2005.

Fee D, So Y, Barraza C, Figueroa K, Pulst S. Phenotypic variability associated with Arginine26Glutamine mutation in Caveolin3. *Muscle Nerve* 30(3):375-8, September 2004

Fee D, Sewell D, Andresen K, Jacques T, Piaskowski S, Barger B, Hart M, Fabry Z. Traumatic cerebral injury increases TGF β RII expression on endothelial cells. *Brain Res* 1012(1-2):52-9, June 2004

Swartz KR, **Fee DB**, Dempsey RJ: Blossoming traumatic epidural hematoma. *J Emerg Med* 25(4):451-2, November 2003

Fee D and Fleming J. Resolution of chronic inflammatory demyelinating polyneuropathy- associated central nervous system lesions after treatment with intravenous immunoglobulin. *J Peripher Nerv Sys* 8(3): 155-158, September 2003.

Fee D, Crumbaugh A, Jacques T, Heidrich B, Sewell D, Auerbach D, Piaskowski S, Hart M, Sandor M, Fabry Z. Activated/effector CD4+ T cells exacerbate acute damage in the central nervous system following traumatic injury. *J Neuroimmunol* 136(1-2): 54-66, March 2003.

Swartz K, **Fee D**, Trost G, Waclawik A. Unilateral calf hypertrophy due to lumbrosacral stenosis: case report and review of the literature. *Spine* 27(18): E406-409, September 2002.

Fee D, Gryzbicki D, Dobbs M, Ihyer S, Clotfelter J, Macvilay S, Hart M, Sandor M, Fabry Z. Interleukin 6 promotes vasculogenesis of murine brain microvessel endothelial cells. *Cytokine* 12(6): 655-665, June 2000.

Fabry Z, Topham D, **Fee D**, Carlino J, Hart M, Sriram S. TGF-beta 2 decreases migration of lymphocytes *in vitro* and homing of cells in the central nervous system *in vivo*. *J Immunol* 155(1): 325-332, 1995.

Chapters:

Fee D. Arsenic. Submitted- *Clinical Toxic and Environmental Neurology* , chapter

Fabry Z, Ling C, **Fee D**, Swartz K. Innate and adaptive immune responses in the CNS: role of T cells and the complement system in traumatic injuries of the CNS. Submitted- *Role of Immune Cells on Neurodegenerative Diseases*, chapter

Fee D and Sabet A. Intraoperative monitoring during total hip arthroplasty. *Handbook of Clinical Neurophysiology* - Volume 08, Chapter 54, in press.

Contributing author. A 63-year-old woman with a 3-day history of fatigue and confusion. Waclawik A and Sutula T. *Neurology Pearls*. Hanley and Belfus, Philadelphia (PA), 2000, Ch 26 (pp 74-76)

Contributing author. A 76-year-old man with recurring episodes of right-sided weakness, numbness, and expressive speech difficulty. Waclawik A and Sutula T. *Neurology Pearls*. Hanley and Belfus, Philadelphia (PA), 2000, Ch 60 (pp177-179).

Abstracts, etc.

Waters M, Minassian N, Stevanin G, Figueroa K, Bannister J, Nolte D, Mock A, Evidente V, **Fee D**, Muller U, Durr A, Brice A, Papazian D, Pulst S. Mutations in the Voltage-Gated Potassium Channel KCNC3 Cause Degenerative and Developmental CNS Phenotypes. *Neurology* 66(5 supplement2): A333, Mar 2006.

Waters M, Minassian N, Stevanin G, Figueroa K, Bannister J, Nolte D, Mock A, Evidente V, **Fee D**, Muller U, Durr A, Brice A, Papazian D, Pulst S. Potassium channels and neurodegeneration: mutations in KCNC3 cause Spinocerebellar ataxia type 13. *Annals of Neurology* 58(5): A18, Nov 2005.

Fee D, Swartz K, Joy K, Roberts K, Scheff N, Scheff S. Does progesterone help after acute experimental spinal cord injury?. *J Neurotrauma* 22(10): 1175, Oct 2005.

Swartz K, **Fee D**, Joy K, Roberts K, Scheff N, Scheff S. Estrogen (E2) as a therapeutic treatment following spinal cord contusion. *J Neurotrauma* 22(10): 1197, Oct 2005.

Waters M, Minassian N, Stevanin G, Figueroa K, Nolte D, Bannister J, Mock A, Evidente V, **Fee D**, Muller U, Durr A, Brice A, Papazian D, Pulst S. Potassium channels and neurodegeneration: mutations in the KCNC3 voltage-gated K-channel cause spinocerebellar ataxia type 13 (SCA13). *American J of Human Genetics*, 77 (4 supplemental) 2005.

Evidente V, **Fee D**, Advincola J, Nolte D, Muller U, Pulst S. Novel autosomal dominant cerebellar ataxia syndrome in a Filipino kindred. *Eur J of Neuro* 11(s2): 291, Sept 2004.

Fee D, Licht B, Figueroa K, Hyson L, Licht M, Pulst S. Purebred Canine Epilepsy: A Link between Inbred Rodents and Humans. *Neurology* 62(7, Supplement 5): A12-13, 2004.

Reviewer, Bader M and Littlejohns L, eds. *AANN Core Curriculum for Neuroscience Nursing, Fourth Edition*. Saunders, St. Louis (MO), 2004, Ch 14 (pp 489-510).

Fee N(sic). Adams and Victor's Principles of Neurology, Seventh Edition (Book Review). *J Neuropathol Exp Neurol* 61(6): 574, June 2002.

Swartz K, Liu F, Sewell D, Schochet T, **Fee D**, Sandor M, Campbell I, Fabry Z. The role of interleukin-6 in tissue repair in the central nervous system. Soc Neurosci Abstr 26(1): 63,2000.

Schelper R and **Fee D**. Examination of the distribution of perivascular macrophages in normal mouse brain. J Neuropathol Exp Neurol 54(3): 460, 1995.

Hart M, Macvilay S, **Fee D**, Fabry Z, and Sriram S. TGF- beta cytokine gene expression and production by murine brain microvessel endothelial cells. J Neuroimmunol 54:166,1994.

Fabry Z, **Fee D**, Moninger T, Hart M. IL-1 alpha, IL-1 beta, and IL-6 cytokine mRNA expression in murine brain endothelial cells detected by PCR and *in situ* hybridization. J Neuropathol Exp Neurol 52(3):321, 1993.

References

Department of Neurology, University of Kentucky Chandler Medical Center

Joseph Berger, MD (Chair)

Kevin Nelson, MD (Head of Neuromuscular Division)

Steven Scheff, PhD

Department of Neurology, University of Utah

Stefan-M. Pulst, MD (Chair)

Department of Neurology, University of Wisconsin Hospital and Clinics

Thomas Sutula, MD, PhD (Chair)

John Fleming, MD (Vice Chair)

Berand Lotz, MD (Head of Neuromuscular Division)

Ross Levine, MD

Andrew Waclawik, MD

Department of Pathology, University of Wisconsin Hospital and Clinics

Michael Hart, MD (Chair)

Zsuzsanna Fabry, PhD

5/2008