Department of Neurology

Neurology concerns itself with the diseases of the brain, spinal cord, peripheral nerves and muscles. An introduction to the anatomy and physiology of the nervous system is presented in the first-year neuroscience course by faculty from the Department of Neuroscience (http://neurosci.wustl.edu/), with participation of faculty from the Department of Neurology (http://neuro.wustl.edu/). A first-year selective titled Clinical Correlations in Neurosciences (FYSelect 5017) is available, which is an opportunity for interested students to shadow physicians in neuro-related fields and to attend basic science or clinical conferences. During the second year, the Department of Neurology presents the course Diseases of the Nervous System (Neurol 632) in conjunction with the departments of Pathology & Immunology (http://pathology.wustl.edu/), Neurosurgery (http://neurosurgery.wustl.edu/) and Ophthalmology & Visual Sciences (http://ophthalmology.wustl.edu/). The course emphasizes the pathophysiology, pathology, clinical manifestations and treatment of the major neurological and neurosurgical diseases. The department also participates in the Practice of Medicine course, providing lectures, demonstrations and teaching exercises with patients in neurological physical diagnosis. For more information about the Department of Neurology and its 13 divisions, please visit the department website.

Website: https://neuro.wustl.edu/education

Faculty

David Holtzman, MD (https://wuphysicians.wustl.edu/for-patients/find-a-physician/david-michael-holtzman/)
Department Chair
Visit our website for more information about our faculty (https://neuro.wustl.edu/Faculty/) and their appointments.

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Madison, 2011
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Robert P Margolis, M.D.
Assistant Professor of Clinical Neurology
Bachelor of Arts, Kent State University, 1971
Doctor of Medicine, Saint Louis University, 1975

Kathryn Mary Marlow, M.D.
Division Chief - Division of Neuro-Rehabilitation
Bachelor of Science, State University of New York at Albany, 2009
Doctor of Medicine, SUNY Downstate Medical Center University Hospital in Brooklyn, 2013

Eric Martin McDade, D.O.
Professor of Neurology (primary appointment)
Bachelor of Arts, Canisius College, 1998
Doctor of Osteopathic Medicine, Chicago College of Osteopathic Medicine, 2004

Karin Lynn Meeker, M.S., Ph.D.
Instructor in Neurology (primary appointment)
Bachelor of Arts, University of Missouri in St Louis, 2014
Master of Science, Saint Louis University, 2018
Doctor of Philosophy, Saint Louis University, 2019

David F Mendelson, M.D.
Assistant Professor Emeritus of Clinical Neurology
Bachelor of Arts, University of California, 1946
Doctor of Medicine, Indiana University Bloomington, 1948

Peter R Millar, M.A., Ph.D.
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
Bachelor of Science, Tufts University, 2010
Master of Arts, Washington University in St Louis, 2016
Doctor of Philosophy, Washington University in St Louis, 2020

Timothy M Miller, Ph.D., M.D.
Professor of Neurology (primary appointment)
Vice Chair-Research
Clayson Professor of Neurology
Doctor of Philosophy, Washington University in St Louis, 1998
Doctor of Medicine, Washington University in St Louis, 1998

John Carl Morris, M.D.
Professor of Neurology (primary appointment)
Professor of Pathology and Immunology
Professor of Physical Therapy
Professor of Occupational Therapy
Director - Knight Alzheimer's Disease Research Center
Section Chief - Section of Aging and Dementia
Harvey A and Dorismae Hacker Friedman Distinguished Professor of Neurology
Bachelor of Arts, Ohio Wesleyan University, 1970
Doctor of Medicine, University of Rochester, 1974

Michael Justin Morrissey, Ph.D.
Instructor in Clinical Neurology
Doctor of Philosophy, Saint Louis University, 2005

Krista L Moulder, Ph.D.
Professor of Neurology (primary appointment)
Bachelor of Arts, Northwestern University, 1993
Doctor of Philosophy, Washington University in St Louis, 2001

**Soumya Mukherjee, M.S., Ph.D.**
Instructor in Neurology (primary appointment)
Kharagpur, 2011
Doctor of Philosophy, Calcutta University, 2018

**Erik S Musiek, Ph.D., M.D.**
Professor of Neurology (primary appointment)
Charlotte and Paul Hagemann Professorship in Neurology
Bachelor of Science, College of William and Mary, 1999
Doctor of Philosophy, Vanderbilt University, 2005
Doctor of Medicine, Vanderbilt University, 2007

**Robert T Naismith, M.D.**
Professor of Neurology (primary appointment)
Bachelor of Science, Case Western Reserve University, 1994
Doctor of Medicine, Case Western Reserve University, 1998

**Fabio Augusto Nascimento E Silva**
Assistant Professor of Neurology (primary appointment)

**Jeffrey J Neil, Ph.D., M.D.**
Professor of Neurology (primary appointment)
Professor of Pediatrics
Doctor of Philosophy, Washington University in St Louis, 1984
Doctor of Medicine, Washington University in St Louis, 1984

**Susan Searles Nielsen, M.S., Ph.D.**
Associate Professor of Neurology (primary appointment)
Bachelor of Arts, Evergreen State College, 1992
Master of Science, University of Washington, 2000
Doctor of Philosophy, University of Washington, 2004

**Anne Fagan Niven, Ph.D.**
Professor of Neurology (primary appointment)
Bachelor of Arts, Wellesley College, 1984
Doctor of Philosophy, University of California San Diego, 1992

**Scott Norris, M.D.**
Associate Professor of Neurology (primary appointment)
Associate Professor of Radiology
Bachelor of Arts, Washington University in St Louis, 2000
Doctor of Medicine, University of Missouri Columbia, 2008

**John Lawrence O'Donnell, M.S., Ph.D.**
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
Bachelor of Science, John Hopkins University, 2009
Master of Science, University of Rochester, 2013
Doctor of Philosophy, University of Rochester, 2017

**Sheel Jitendra Pathak, M.D.**
Assistant Professor of Neurology (primary appointment)

**Assistant Professor of Pediatrics**
Bachelor of Science, University of Texas Austin, 2004
Doctor of Medicine, University of Texas Galveston, 2008

**Robert Harris Paul, M.S., Ph.D.**
Adjunct Assistant Professor of Neurology
Main Campus, 1993
Main Campus, 1998

**Alan L Pearlman, M.D.**
Professor Emeritus of Neurology
Bachelor of Arts, University of Iowa, 1958
Doctor of Medicine, Washington University in St Louis, 1961

**David M Peeples, M.D.**
Instructor in Clinical Neurology
Bachelor of Arts, Vanderbilt University, 1982
Doctor of Medicine, University of Chicago, 1986

**Lindsay M Peglar, M.S., M.D.**
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Bachelor of Science, Tulane University, 2008
Master of Science, Tulane University, 2009
Doctor of Medicine, University of Missouri Columbia, 2013

**Karen J Pentella, M.D.**
Assistant Professor of Clinical Neurology
Main Campus, 1975
Main Campus, 1979

**Emmanuel Perez Martinez, Ph.D., M.D.**
Instructor in Neurology (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, University of Puerto Rico Rio Piedras, 2010
Doctor of Philosophy, University of Miami, 2016
Doctor of Medicine, University of Miami, 2018

**Joel S Perlmutter, M.D.**
Professor of Neurology (primary appointment)
Professor of Radiology
Professor of Neuroscience
Professor of Physical Therapy
Professor of Occupational Therapy
Section Chief - Section of Movement Disorders
Elliot H. Stein Family Chair in Neurology at Barnes-Jewish Hospital
Bachelor of Arts, Princeton University, 1975
Doctor of Medicine, University of Missouri Columbia, 1979

**Alan Pestronk, M.D.**
Professor of Neurology (primary appointment)
Professor of Pathology and Immunology
Bachelor of Arts, Princeton University, 1966
Doctor of Medicine, Johns Hopkins University Medical, 1970

**Steven E Petersen, Ph.D.**
Professor Emeritus of Neurology
Bachelor of Arts, University of Montana Missoula, 1974
Doctor of Philosophy, California Institute Technology (Duplicate of California Institute of Technology), 1982

Daniel Phillips, M.D.
Assistant Professor of Clinical Neurology
Bachelor of Science, Northwestern University, 1976
Doctor of Medicine, Washington University in St Louis, 1980

Chia Ling Phuah, M.S., M.D.
Assistant Professor of Neurology (primary appointment)
Bachelor of Science, Cambridge University, 2003
Doctor of Medicine, University of Wisconsin Milwaukee, 2004

Laura Piccio, M.D.
Professor of Neurology (primary appointment)
Bachelor of Science, Cambridge University, 2003
Doctor of Medicine, Cambridge University, 2006

William John Powers, M.D.
Adjunct Professor of Neurology
Bachelor of Arts, Dartmouth College, 1971
Doctor of Medicine, Cornell University, 1995

Arthur L Prensky, M.D.
Professor Emeritus of Neurology
Bachelor of Arts, Cornell University, 1951
Doctor of Medicine, New York University, 1955

R

Brad Alan Racette, M.D.
Professor Emeritus of Neurology
Bachelor of Arts, Princeton University, 1988
Doctor of Medicine, Northwestern University, 1992

David Martin Reisler, M.P.H., M.D.
Assistant Professor of Clinical Neurology
Bachelor of Arts, Harvard University, 1957
Doctor of Medicine, Washington University in St Louis, 1961

Dave A Rengachary, M.D.
Instructor in Clinical Neurology
Bachelor of Arts, Northwestern University, 1996
Doctor of Medicine, Northwestern University, 2000

James R Rohrbaugh, M.D.
Associate Professor of Clinical Neurology
Bachelor of Arts, Yale University, 1971

Robert John Rudock, M.B.A., M.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Bachelor of Science, John Hopkins University, 2006
Master of Business Administration, University of Miami, 2011
Doctor of Medicine, University of Miami, 2012

Robert John Rudock, M.B.A., M.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Bachelor of Science, John Hopkins University, 2006
Master of Business Administration, University of Miami, 2011
Doctor of Medicine, University of Miami, 2012

Robin C Ryther, Ph.D., M.D.
Associate Professor of Neurology (primary appointment)
Bachelor of Science, University of Missouri Columbia, 1998
Doctor of Philosophy, Vanderbilt University, 2004
Doctor of Medicine, Vanderbilt University, 2006

S

Naresha Saligrama, M.S., Ph.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pathology and Immunology
Master of Science, Indian Vet Research Institute, 2006
Doctor of Philosophy, University of Vermont, 2013

Chihiro Sato, M.S., Ph.D.
Assistant Professor of Neurology (primary appointment)
Bachelor of Science, University of Tokyo, 2003
Master of Science, University of Tokyo, 2005
Doctor of Philosophy, University of Tokyo, 2008

Andrew David Sauerbeck, Ph.D.
Assistant Professor of Neurology (primary appointment)
Bachelor of Science, University of Kentucky, 2005
Doctor of Philosophy, University of Kentucky, 2011

Anneliese M Schaefer, J.D., Ph.D.
Professor of Neurology (primary appointment)
Juris Doctor, Washington University in St Louis, 1988
Doctor of Philosophy, Washington University in St Louis, 2001

Suzanne E. Schindler, Ph.D., M.D.
Associate Professor of Neurology (primary appointment)
Bachelor of Science, Millsaps College, 1999
Doctor of Philosophy, Washington University in St Louis, 2008
Doctor of Medicine, Washington University in St Louis, 2008

Bradley L Schlaggar, Ph.D., M.D.
Adjunct Professor of Neurology
Bachelor of Science, Brown University, 1986
Doctor of Philosophy, Washington University in St Louis, 1994
Doctor of Medicine, Washington University in St Louis, 1994

Kathleen Marie Schoch, Ph.D.
Assistant Professor of Neurology (primary appointment)
Bachelor of Science, Bradley University, 2007
Doctor of Philosophy, University of Kentucky, 2013

Earl R Schultz, M.D.
Professor of Clinical Neurology
Bachelor of Arts, Southeast Missouri State University, 1952
Bachelor of Science, University of Missouri Columbia, 1953
Doctor of Medicine, Washington University in St Louis, 1955

Dong-oh Seo, M.S., Ph.D.
Instructor in Neurology (primary appointment)
Master of Science, Korea University, 2006
Doctor of Philosophy, University of Texas Austin, 2015

Christian T Sheline, Ph.D.
Adjunct Research Associate Professor of Neurology
Bachelor of Arts, Dartmouth College, 1983
Doctor of Philosophy, University of California, 1989

Todd B Silverman
Instructor in Clinical Neurology

Barry A. Singer
Associate Professor of Clinical Neurology

Alyssa Erin Smith, M.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Bachelor of Science, Loyola University Chicago, 2010
Doctor of Medicine, Saint Louis University, 2015

Sean E Smith, M.S., M.D.
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
Bachelor of Science, University of Delaware, 2003
Master of Science, State University of New York at Buffalo, 2009
Doctor of Medicine, University of Iowa, 2015

Christopher D Smyser, M.D.
Professor of Neurology (primary appointment)
Professor of Radiology
Professor of Pediatrics
Bachelor of Science, University of Iowa, 1998
Doctor of Medicine, University of Iowa, 2004

Barbara Joy Snider, Ph.D., M.D.
Professor of Neurology (primary appointment)
Bachelor of Arts, Northwestern University, 1979
Doctor of Philosophy, University of Texas Southwest, 1989
Doctor of Medicine, University of Texas Southwest, 1989

Michael Snyder, M.D.
Assistant Professor of Clinical Neurology
Bachelor of Science, Iowa State University, 1997
Doctor of Medicine, University of Iowa, 2002

Richard S Sohn, M.D.
Associate Professor Emeritus of Neurology
Bachelor of Science, Brooklyn College (Duplicate of CUNY Brooklyn College), 1964
Doctor of Medicine, University of Chicago, 1968

Richard Brian Sommerville, M.D.
Professor of Neurology (primary appointment)
Bachelor of Science, Harvard University, 1999
Doctor of Medicine, Columbia University, 2005

Tara V. Spevack, M.S., Ph.D.
Instructor in Clinical Neurology
Bachelor of Science, McGill University, 1987

Master of Science, University of Florida, 1994
Doctor of Philosophy, University of Florida, 1997

Katherine Caroline White Stenson, M.D.
Associate Professor of Clinical Neurology
Bachelor of Arts, Washington University in St Louis, 1994
Doctor of Medicine, Northwestern University Medical (Duplicate of Northwestern University), 2018

Jeremy Fuller Strain, Ph.D.
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
Bachelor of Science, University of Texas Arlington, 2009
Doctor of Philosophy, University of Texas Arlington, 2015

In Sook Sunwoo, M.D.
Instructor Emerita in Neurology
Doctor of Medicine, School Not Listed, 1959

Charlene Belle Supnet-Bell, Ph.D.
Associate Professor of Neurology (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, University of Manitoba, 1999
Doctor of Philosophy, University of Prince Edward Island, 2010

Sandra L Tate, M.D.
Instructor in Clinical Neurology
Bachelor of Arts, School Not Listed, 1900
Doctor of Medicine, Southern Illinois University (Duplicate of Southern Illinois University Carbondale), 1987

Mengesha A Teshome, M.D.
Professor of Neurology (primary appointment)
Professor of Pediatrics
Professor of Neuroscience
Section Chief - Section of Pediatric Epilepsy
Bachelor of Science, Brown University, 1984
Doctor of Medicine, Washington University in St Louis, 1992
Doctor of Philosophy, Washington University in St Louis, 1992

Jeffrey B. Titus, M.A., Ph.D.
Assistant Professor of Clinical Neurology
Bachelor of Science, Evangel College (Duplicate of Evangel University), 1997
Master of Arts, University of Northern Colorado, 1999
Doctor of Philosophy, Ball State University, 2002

Stuart Ramm Tomko, M.D.
Assistant Professor of Neurology (primary appointment)
Bachelor of Science, Davidson College, 2005
Doctor of Medicine, Baylor College of Medicine, 2010

Norman Edwin Trevathan, M.S., M.D.
Adjunct Professor of Neurology
Bachelor of Science, David Lipscomb University (Duplicate of Lipscomb University), 1977
Master of Science, Emory University, 1982
Doctor of Medicine, Emory University, 1982

Angela M Tripp
Assistant Professor of Clinical Neurology

Keisuke Ueda, M.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Doctor of Medicine, Keio University, 2006

Jason Daniel Ulrich, Ph.D.
Associate Professor of Neurology (primary appointment)
Bachelor of Science, Quincy College, 2004
Doctor of Philosophy, University of Iowa, 2011

Mwiza Ushe, M.S., M.D.
Associate Professor of Neurology (primary appointment)
Vice Chair-Diversity
Bachelor of Science, University of Pittsburgh, 2000
Master of Science, Washington University in St Louis, 2007
Doctor of Medicine, Washington University in St Louis, 2007

Renee Bailey Van Stavern, M.D.
Professor of Neurology (primary appointment)
Bachelor of Arts, Texas A&M University, 1991
Doctor of Medicine, University of Texas Health Science Center, 1997

Arun S. Varadhachary, Ph.D., M.D.
Professor of Neurology (primary appointment)
Section Chief - Neurohospitalist Section
Doctor of Philosophy, Temple University, 2001
Doctor of Medicine, Temple University, 2004

Amy Robichaux Viehoever, Ph.D., M.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Doctor of Philosophy, Vanderbilt University, 2004
Doctor of Medicine, Vanderbilt University, 2006

Oksana Volshtein, M.D.
Prof of Neurology
Doctor of Medicine, Minsk State Medical Institute, 1976

Yan Wang, M.D.
Instructor in Neurology (primary appointment)
Doctor of Medicine, University of Chicago, 2016

Andrew M. Wayne, M.D.
Instructor in Clinical Neurology
Bachelor of Science, University of California Riverside, 1989
Doctor of Medicine, University of Missouri Columbia, 1993

Ling Wei, M.D.
Adjunct Assistant Professor of Neurology
Doctor of Medicine, Beijing Medical University (Duplicate of Capital University of Medical Sciences (#####)), 1977

Conrad Christian Weihi, Ph.D., M.D.
Professor of Neurology (primary appointment)
Section Chief - Section of Neuromuscular Diseases
Bachelor of Science, University of Illinois, 1993
Doctor of Philosophy, University of Chicago, 1998
Doctor of Medicine, University of Chicago, 2001

Judith L. Weisenberg, M.D.
Associate Professor of Neurology (primary appointment)
Bachelor of Science, Barnard College, 1998
Doctor of Medicine, University of Minnesota, 2002

Howard I Weiss, M.D.
Assistant Professor of Clinical Neurology
Doctor of Medicine, Tulane University, 1972

Nicole Joy Werner, M.S., Ph.D.
Associate Professor of Neurology (primary appointment)
Bachelor of Science, University of Minnesota Twin Cities, 1997
Master of Science, Saint Louis University, 2000
Doctor of Philosophy, Saint Louis University, 2004

Emily Katherine White, Ph.D.
Assistant Professor of Neurology (primary appointment)
Doctor of Philosophy, University of Nevada Las Vegas, 2016

Robert L. White, Ph.D., M.D.
Assistant Professor of Neurology (primary appointment)
Bachelor of Science, Washington University in St Louis, 1999
null, Washington University in St Louis, 2007
null, Washington University in St Louis, 2007

Jonathan Paul Williams, M.D.
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
Bachelor of Arts, University of Florida, 2011
Doctor of Medicine, Howard University, 2017

Timothy J Wolf, O.T.D.
Adjunct Associate Professor of Occupational Therapy
Adjunct Associate Professor of Occupational Therapy
Doctor of Occupational Therapy, Washington University in St Louis, 2007

Kyle Byron Womack, M.S., M.D.
Professor of Neurology (primary appointment)
Bachelor of Science, Southern Methodist University, 1983
Doctor of Medicine, University of Texas Southwest, 1987
Master of Science, University of Texas Southwest, 2020

Michael Wong, Ph.D., M.D.
Professor of Neurology (primary appointment)
Professor of Pediatrics
Professor of Neuroscience
Allen P and Josephine B Green Professor of Pediatric Neurology
Bachelor of Arts, Princeton University, 1987
Doctor of Philosophy, University of Texas Southwest, 1995
Doctor of Medicine, University of Texas Southwest, 1995

Gregory Frederick Wu, Ph.D., M.D.
Associate Professor of Neurology (primary appointment)
Associate Professor of Pathology and Immunology
Bachelor of Science, Washington University in St Louis, 1993
Doctor of Philosophy, University of Iowa, 2001
Doctor of Medicine, University of Iowa, 2001

Z

Craig Mitchell Zaidman, M.D.
Professor of Neurology (primary appointment)
Professor of Pediatrics
Doctor of Medicine, University of Virginia, 2001

Allyson R Zazulia, M.D.
Professor of Neurology (primary appointment)
Professor of Radiology
Associate Dean for Continuing Medical Education
Bachelor of Science, University of Maryland, 1990
Doctor of Medicine, Georgetown University, 1994

John M Zempel, Ph.D., M.D.
Professor of Neurology (primary appointment)
Professor of Pediatrics
Bachelor of Science, University of Wisconsin Madison, 1985
Doctor of Philosophy, Washington University in St Louis, 1995
Doctor of Medicine, Washington University in St Louis, 1995

Lirong Zhu, Ph.D., M.D.
Assistant Professor of Clinical Neurology
Doctor of Medicine, Fudan University (Duplicate of Fudan University (####)), 2000
Doctor of Philosophy, Baylor College of Medicine, 2006

Research Electives

Neurology Research Electives

During the fourth year, opportunities exist for many varieties of advanced clinical or research experiences.

Beau Ances, MD
Taylor Avenue Building Extension, 2nd Floor
Phone: 314-747-8423

Neuroimaging of neurodegenerative disorders. Students can work in a neuroimaging laboratory that is focused on the translational discovery of neuroimaging biomarkers for neurodegenerative diseases. The laboratory focuses on the pathogenesis of Alzheimer’s disease and HIV-associated neurocognitive disorders. We are investigating the effects of neurodegenerative diseases on the brain network level using functional (blood oxygen level dependent imaging, arterial spin labeling), structural (volumetrics, diffusion tensor imaging), and metabolic (PET amyloid and tau) methods. Multiple projects that involve bioengineering, neuroimaging and infectious disease are available, depending on the interest of the student.

Randall Bateman, MD
Biotechnology Center, Room 304
Phone: 314-747-7066

Central nervous system protein metabolism in aging and dementia. This research elective will expose the student to translational research in the study of Alzheimer’s disease and other neurodegenerative diseases. The student will participate in multiple areas of the research, including participant recruitment, consent, enrollment and admission to a research hospital unit. Lumbar puncture for cerebrospinal fluid sample collection, blood collection and intravenous labeling methods will be demonstrated and taught. The student will participate in sample analysis, including processing for mass spectrometry quantitation, enzyme-linked immunosorbent assay and Western gel methods. Quantitation, analysis and modeling of the data will be taught in the context of data interpretation and study design.

Anne H. Cross, MD, and Laura Piccio, MD, PhD
McMillan, 3rd Floor
Phone: 314-747-4591 or 314-747-0405

Understanding interactions of the immune system with the central nervous system as it relates to multiple sclerosis and other neuroimmunological disorders. Our goal is to understand how immune cells cross the blood-brain barrier and initiate the cascade of events that leads to the lesions of multiple sclerosis. We are also funded to study the effects of diet and adipokines on neuroinflammation. Depending on the time commitment of the student and their individual interests and goals, they will either assist with ongoing projects or be given a laboratory project on which to work. Projects may involve animal models of multiple sclerosis, cell culture or studies of human samples (cerebrospinal fluid, blood or autopsied specimens). Interested students should contact Dr. Cross (crossa@neuro.wustl.edu) or Dr. Piccio (picciol@neuro.wustl.edu) several weeks in advance before signing up for this research to allow for sufficient planning.

Robert T. Naismith, MD
McMillan, Room 310B
Phone: 314-747-0432

Clinical imaging research in multiple sclerosis. The student will learn about neuroimaging, imaging analyses, data collection, data management and clinical study endpoints in multiple sclerosis. They will observe patient participants undergoing a detailed evaluation of disability measures, such as ambulation, symptom scales, cognition, vision, upper extremity function, and so on. They will witness the entire process of image acquisition, processing, analysis and data extraction. They will have the
opportunity to interact with many people who are vital to the research, including research coordinators, imaging technologists, imaging physicists/chemists and specialized research clinicians (i.e., neurocognitive and physical therapy research specialists).

The student will assist with hands-on clinical investigative research. They will gain an excellent appreciation of multiple sclerosis, from its pathophysiology within the central nervous system to how it affects the neurological function of individuals. Through detailed and quantitative imaging analysis, the student will become very adept at analyzing brain MRI scans. They will mark and track lesions to determine their effects on clinical function and learn to identify normal-appearing white matter, cortex and gray-matter structures. They will become familiar with Amira Imaging Analysis Software, SPSS Statistical Analysis Software, SIENA Volume Analysis Software and Matlab Imaging Analysis Software.

Steven E. Petersen, PhD
East Building, Room 2108
Phone: 314-362-3319

This lab is interested in brain organization and function, particularly for language, attention and memory. Our main approach to these issues is through functional MRI and large-scale network analysis.

Joel S. Perlmutter, MD
East Building, 2nd Floor
Phone: 314-362-5291

Pathophysiology of movement disorders. The lab is primarily interested in the etiology, pathophysiology and treatment of basal ganglia disorders. We have several studies of Parkinson disease (PD). We investigate mechanisms of action of deep brain stimulation, which is a dramatic new treatment. These studies combine PET, cognitive testing and quantified measures of movement. We also test new drugs that might rescue injured nigrostriatal neurons (a model of PD). For these, we use PET to measure dopamine pathways and also to quantify motor behavior. We also have an active program developing and validating neuroimaging biomarkers for PD and for determining the integrity of the nigrostriatal pathway that includes studies in human and animal models of PD. We have an active program that combines a variety of approaches to developing biomarkers and investigating the pathophysiology of dementia associated with PD. We use PET to measure radioligand binding and sensorimotor processing in dystonia. We developed a new animal model of dystonia to investigate pharmacologic and physiologic changes. We use PET to investigate drug-mediated pathways in the brain and to parse out the effects of selective dopaminergic agonists. We are also working to develop MR-based methods including diffusion tensor imaging and resting-state functional connectivity to investigate the brain mechanisms underlying PD and dystonia.

Brad A. Racette, MD
McMillan, 9th Floor
Phone: 314-362-5291

Our lab is primarily interested in environmental risk factors associated with Parkinson’s disease. We use a variety of techniques to study these risk factors, including traditional field epidemiology, in which we evaluate workers exposed to metals in the United States and residents living near a smelter in South Africa; neuroimaging, in which we study the pathophysiology of toxin-mediated parkinsonism; geographic information systems research, in which we associate environmental toxin exposures with the incidence and prevalence of Parkinson’s disease in the United States and Finland; and neuropathologic studies, in which we evaluate manganese-exposed workers from South Africa. There are numerous opportunities available for students to be involved with any of these projects. Students will receive some clinical exposure as well to familiarize them with pertinent clinical syndromes.

Marcus E. Raichle, MD
East Building, 2nd Floor
Phone: 314-362-6907

This lab investigates in vivo brain hemodynamic, metabolic and functional studies of human cognition and emotion using cyclotron-produced isotopes and PET as well as fMRI in humans. Refer also to the listing on this page for Steven E. Petersen, PhD.

Gregory Wu, MD, PhD
McMillan, 3rd Floor
Phone: 314-362-3293

Understanding how immune responses are generated that target the central nervous system. Specifically, this lab studies antigen-presenting cell contributions to autoimmune animal models of multiple sclerosis. Our goal is to understand what cellular interactions are critical to the development of immune-mediated demyelination.

Courses

M35 Neurol 632 Diseases of the Nervous System
The goal of this course is to provide an introduction to the diseases of the central and peripheral nervous systems, including their clinical manifestations, pathology, pathophysiology and pharmacotherapy. The course includes reading assignments, lectures, laboratories, team activities, and clinical presentations.
Credit 53 units.
M35 Neurol 720 Neurology Clerkship
During the four week Neurology clerkship, students will gain proficiency in understanding diseases of the nervous system, the neurologic work-up, localization and differential diagnosis generation, and devising a treatment plan. A variety of settings are available, which could include adults or pediatric services, with both inpatient and outpatient experiences. Students will provide care for patients with neurologic problems under the supervision of residents, fellows, and attendings.
Credit 154 units.

M35 Neurol 730 Physical Medicine and Rehabilitation Clerkship
Clerkship in PM & R for 3rd year medical students provides an opportunity to gain basic knowledge and clinical skills in evaluation and management of wide range of neurological and musculoskeletal diseases and conditions that require specialized rehabilitative medical and therapeutic care. Students spend time on Spinal Cord Injury Unit (SCI) and time on Brain Injury (BI) & Stroke Unit at The Rehabilitation Institute of St. Louis. Students are expected to be a part of the rehabilitation team, follow 2 to 3 patients, participate in daily morning rounds, participate in performing consults, attend team meetings and family conferences. Students are required to attend several outpatient clinics such as SCI, BI, Ampuete and Stroke. During the entire rotation, students work together with PM&R residents and fellows, and under direct guidance of the NeuroRehabilitation faculty. The usual duty hours are 7:30AM to 5PM during weekdays, and 8AM -12NN on Saturdays. There is no night call. Students are required to attend all PM&R curriculum lectures and conferences. On the first day of rotation, students meet with the PM&R program director to go over goals, objectives and schedules. Upon completion of the rotation students are required to fill out the evaluation form to provide feedback regarding rotation experience.
Credit 77 units.

M35 Neurol 827 Neurology Subinternship for WUSM Students
This four-week elective will be customized to include inpatient and outpatient experiences desired by WUSM students who have completed the WUSM Neurology Clerkship. Students may choose this elective to further improve their neurology knowledge and skills. Students considering neurology as a career may also desire additional exposure to supplement their prior clerkship experience. The elective is split into two two-week rotations, which may include the following: (1) Adult Inpatient General Service (with one clinic/week); (2) Adult Inpatient Stroke Service (with one clinic/week); (3) Adult Inpatient Consult Service (with one clinic/week); (4) Pediatric Neurology Consult Service (with one clinic/week); (5) Adult Neurology ICU (with one clinic/week); and (6) Outpatient Clinics (with eight to 10 clinics/week).

M35 Neurol 827A Special Elective in Adult Inpatient Clinical Neurology
Special Elective in Adult Inpatient Clinical Neurology

M35 Neurol 828 Neurology Subinternship for Visiting Medical Students
This four-week elective for fourth-year visiting students from a US medical school provides the option (space permitting) of four weeks of Adult Inpatient Service (Stroke for 2 weeks, General Neurology for 2 weeks), or two weeks on an Adult Inpatient Service and two weeks on the Adult Consult Service. Students on the inpatient service will function as a subintern under the supervision of their junior resident, chief resident, and attending physician. The student will also attend weekly clinical conferences and a weekly outpatient clinical experience. This elective is suitable for visiting fourth-year students interested in Neurology, who wish to improve their Neurology knowledge and skills.

M35 Neurol 830 Neuro-Oncology
This elective provides an outpatient-oriented pediatric and adult neuro-oncology experience for fourth-year medical students. Students will: - attend multidisciplinary adult and pediatric neuro-oncology clinics and case conferences (tumor boards), - attend adult and pediatric radiation oncology clinics, - attend neuropathology brain tumor review, - participate in subspecialty brain tumor clinics, and - attend monthly brain tumor research conferences.

M35 Neurol 851 Clinical Aspects of Aging and Dementia
This elective provides the opportunity to learn about clinical research and clinical care in healthy brain aging and dementia. Students are encouraged to contact the Course Directors (Dr. B. Joy Snider and/or Dr. John Morris) before the elective begins to discuss their interests, as this elective is customized based on student interests. This can be a two-week or four-week elective. Students can gain proficiency in interviewing techniques and in the neurologic examination of the geriatric patient, and are introduced to neuropsychology, neuropathology, biomarkers, neuroimaging, genetics, and other biomedical procedures important in the diagnostic evaluation of older adults. The Knight ADRC is an interdisciplinary group, so students have the opportunity to interact with physicians, nurse clinicians, psychologists, and social workers, and to explore the neuropsychology, neuropathology, biomarkers, neuroimaging, genetics, and other biomedical procedures used in the diagnosis of dementing disorders such as Alzheimer’s disease, dementia with Lewy bodies, frontotemporal dementias, cerebrovascular disorders, and affective disorders.

M35 Neurol 859 Neonatal Neurology
The Neonatal Neurology elective will consist of a combination of inpatient and outpatient experiences designed to provide medical students with comprehensive exposure to the field. Through the rotation, students will actively participate in all aspects of patient care, acquiring the knowledge and skill necessary to effectively evaluate infants with neurological disorders, including encephalopathy, stroke, seizures, hypotonia, intraventricular hemorrhage, and periventricular leukomalacia, among others. Clinical activities will be tailored to fit the interests and goals of the individual student and include a combination of inpatient and outpatient exposures. Inpatient activities will occur in the St. Louis Children's Hospital Neonatal Intensive Unit as part of the Neonatal Neurology Consultation service. Outpatient activities will occur in the St. Louis Children's Hospital Outpatient Clinics. Students will also attend educational conferences specific to the field during the rotation, including Neonatal Neurology Clinical Conference and Neonatal Neuroradiology Conference.

M35 Neurol 860 Pediatric Neurology
The senior elective experience in child neurology is designed to adapt to the individual goals and objectives of students. The elective takes place in one or two 2-week blocks that occur among five possible venues as chosen by the student: 1. Outpatient clinics, 2. Inpatient ward service, 3. Inpatient
general consult service, 4. NICU consult service, and 5. Video EEG (VEEG) monitoring service. The combination of services and experiences will be arranged directly between the student and the Course Director prior to beginning the rotation. In the outpatient clinics, students will rotate between a variety of subspecialty clinics and work with a variety of attendings in order to experience the breadth of outpatient pediatric neurology. Students rotating on the inpatient ward service will have a different role than the third-year student on pediatrics. The fourth-year student will focus solely on neurology patients and work closely with the pediatric neurology resident to develop neurology-specific care plans. No call or weekend duties will be expected on this rotation. On the general consult services, students will work with the consult attending and pediatric neurology residents on that team to see consults in the PICU, CICU, ER, and other hospital floors. The NICU consult team focuses on infants in the NICU. Student rotating on the VEEG monitoring service will focus on learning the indications and uses of VEEG and basic EEG reading skills

M35 Neurol 861 Neurointensive Care Unit
The student will be integrated into the Critical Care Team that provides care in the Neurology/Neurosurgery ICU. Diseases frequently encountered include intracerebral hemorrhage, head trauma, subarachnoid hemorrhage, stroke, spinal cord disease, and neuromuscular disease. The student will follow patients, participate in rounds and pay participate in some procedures under supervision. Didactic sessions will be provided as conferences or lectures from the ICU attending and fellow.

M35 Neurol 865 Adult and Pediatric Epilepsy
Students will learn how epileptologists diagnose and manage epilepsy in adults and children. They will learn how to use the history and physical exam and laboratory studies such as EEG, MRI, PET, and SPECT to diagnose and manage patients with new onset epilepsy, established epilepsy, and medically intractable epilepsy. They will become familiar with the medical management of epilepsy as well as the treatment options for medically intractable epilepsy including surgery, the vagus nerve stimulator, and the ketogenic diet. They will also learn how to manage the co-morbid conditions that accompany epilepsy such as depression, behavioral problems, cognitive impairment, sleep disturbance, and non-epileptic events. Students will accomplish these goals by attending epilepsy clinics and rounding on the inpatient epilepsy service with the epilepsy team at Barnes-Jewish Hospital and St. Louis Children's Hospital. They will attend the Adult Epilepsy Conference, the Pediatric Epilepsy Conference, and Neurology Grand Rounds. Students will also have the opportunity to observe epilepsy surgery if they wish. They will have the option to present one 15-30 minute talk on a topic relevant to epilepsy.

M35 Neurol 872 MS Center/Outpatient - Missouri Baptist
Students will develop their skills in taking histories and performing neurological examinations on patients with multiple sclerosis under direct supervision of multiple sclerosis specialists. Localization of neurological findings and symptoms to the neuro-axis will be emphasized. A major goal for the students will be to increase the understanding of comprehensive patient management including disease treatment, symptom management, adjunctive therapy services, and psychosocial issues. The outpatient rotation will be four weeks at The MS Center for Innovations in Care at Missouri Baptist Medical Center with Dr. Barry Singer and Dr. Mark Tullman. An additional goal for students will be to understand process of clinical research and translation into approved therapies. The center has been a leader in clinical trial development of therapeutics that have been or will soon be FDA approved as new medications for multiple sclerosis.

M35 Neurol 900 Research Elective - Neurology
Research opportunities may be available. If interested, please contact the Department of Neurology.