Department of Neurology

Neurology covers the diseases of the brain, spinal cord, nerves, and muscles. The Department of Neurology has an extensive presence in each phase of the medical school curriculum. In Phase 1, students are introduced to the basic anatomy and function of the nervous system as well as the major diseases encountered by neurologists in Modules 6 and 7. Students can also rotate on neurology services during their clinical immersions in Phase 1. During Phase 2, students rotate through neurology as one the required core clinical clerkships. During this course, students have extensive exposure to both the inpatient and outpatient practice of neurology. In Phase 3 of the curriculum, students can select a month-long advanced clinical rotation (ACR) in either adult or pediatric neurology. They can also select shorter or more flexible electives in neurology or certain subspecialties of neurology. Various neurology-related keystone integrated science courses (KISCs) are also offered.

For more information about the Department of Neurology, please see the department website.

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

Faculty

Jin-Moo Lee, MD, PhD
Department Chair

Visit our website for more information about our faculty (https://neuro.wustl.edu/Faculty/) and their appointments.

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Master of Science, University of Medicine and Dentistry of New Jersey, 2004
New Brunswick, 2011
New Brunswick, 2013

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Master of Science, University of Jordan, 1985

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Doctor of Philosophy, Washington University in St Louis, 2002

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Doctor of Medicine, Washington University in St Louis, 2008

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Doctor of Medicine, Saint George’s University, 2011

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Doctor of Medicine, Northwestern University, 1997

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Doctor of Medicine, School Not Found, 1954
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MARSEILLE UNIVERSITY, 2012

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Doctor of Medicine, Beaufort Technical College (Duplicate of Technical College of the Lowcountry), 1988

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Main Campus, 1996
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Bachelor of Science, University of Manchester, 2013

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Doctor of Philosophy, Washington University in St Louis, 1977
Doctor of Medicine, Washington University in St Louis, 1986

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Doctor of Medicine, Washington University in St Louis, 2012

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Doctor of Philosophy, University of Iowa, 1998
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Professor of Genetics
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Doctor of Medicine, University of Michigan Ann Arbor, 1986

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Assistant Professor of Radiology
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Doctor of Philosophy, Washington University in St Louis, 2006
Doctor of Medicine, Washington University in St Louis, 2006

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Doctor of Philosophy, University of Wisconsin Madison, 2011
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Doctor of Medicine, University of Utah, 2003

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Bachelor of Arts, Yale University, 1985
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Doctor of Medicine, Weill Cornell Medical College, 1993

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Doctor of Medicine, Tulane University, 1979

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Champaign), 1990
Doctor of Philosophy, University of Chicago, 2000
Doctor of Medicine, Washington University in St Louis, 2001

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Doctor of Philosophy, University of Alabama in Tuscaloosa, 2017
Bachelor of Science, Central China Agricultural University (####, Huazhong Agricultural University), 2007

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Doctor of Medicine, Washington University in St Louis, 2004

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Doctor of Medicine, Havana University, 2012
Master of Science, Havana University, 2014

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Doctor of Philosophy, Wake Forest University, 2012
Doctor of Medicine, Wake Forest University, 2014

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Doctor of Philosophy, Indiana University Indianapolis, 2014
Doctor of Medicine, Indiana University School of Medicine, 2014

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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, M.D.
Assistant Professor of Neurology (primary appointment)
Doctor of Medicine, Universidade Federal do Paraná (UFPR), 2014

Jeffrey J Neil, Ph.D., M.D.
Professor of Neurology (primary appointment)
Professor of Pediatrics
Section Chief - Section of Pediatric Movement/CP
Doctor of Medicine, 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, The 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
Section Chief- Section of Movement Disorders
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 (primary appointment)
Bachelor of Science, Johns 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
Long Beach), 1993
Main Campus), 1995
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
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 Pestrunk, M.D.
Professor of Neurology (primary appointment)
Professor of Pathology and Immunology
Bachelor of Arts, Princeton University, 1966
Doctor of Medicine, Johns Hopkins University, 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.
Associate Professor of Neurology (primary appointment)
Bachelor of Science, University of Cambridge, 2003
Doctor of Medicine, University of Cambridge, 2006
Master of Science, University of Cambridge, 2007

Laura Piccio, M.D.
Professor of Neurology (primary appointment)
Doctor of Medicine, University of Milan, 1997

Stephanie K Powell, M.S., Ph.D.
Instructor in Clinical Neurology
Bachelor of Science, University of Notre Dame, 1994
Master of Science, University of Wisconsin Milwaukee, 2000
Doctor of Philosophy, University of Wisconsin Milwaukee, 2004

William John Powers, M.D.
Adjunct Professor of Neurology
Bachelor of Arts, Dartmouth College, 1971
Doctor of Medicine, Cornell University, 1975

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

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
Master of Public Health, Johns Hopkins University Medical (Duplicate of Johns Hopkins University), 1971
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
Associate Professor of Clinical Pediatrics
Bachelor of Arts, Yale University, 1971
Main Campus, 1974

Robert John Rudock, M.B.A., M.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Bachelor of Science, Johns 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

Naresha Saligrama, M.S., Ph.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pathology and Immunology
Master of Science, Indian Veterinary 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

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.A., Ph.D.
Instructor in Neurology (primary appointment)
Master of Arts, 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, Rush University, 2014

Sean E Smith, M.S., M.D.
Instructor in Neurology (primary appointment)
Bachelor of Science, University of Delaware, 2003
Master of Science, State University of New York at Buffalo, 2009
Doctor of Medicine, Saint Louis University, 2015

Christopher D Smyser, M.D.
Professor of Neurology (primary appointment)
Professor of Radiology
Professor of Pediatrics
Section Chief - Section of Pediatric Neonatal
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

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 Dallas, 2009
Doctor of Philosophy, University of Texas Dallas, 2015

In Sook Sunwoo, M.D.
Instructor Emerita in Neurology
Bachelor of Science, University of Texas Dallas, 2009
Doctor of Philosophy, University of Texas Dallas, 2015

Kathleen 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 Dallas, 2009
Doctor of Philosophy, University of Texas Dallas, 2015

Kwee L Thio, M.D.
Professor of Neurology (primary appointment)
Section Chief - Section of Pediatric Epilepsy
Bachelor of Science, Brown University, 1984
Doctor of Philosophy, Washington University in St Louis, 1992
Doctor of Medicine, 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

Mengesha A Teshome, M.D.
Assistant Professor of Neurology (primary appointment)
Doctor of Medicine, Addis Ababa University, 1989

Kwee L Thio, Ph.D., 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 Philosophy, Washington University in St Louis, 1992
Doctor of Medicine, 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

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

Regina Lindsay Triplett, M.S., M.D.
Instructor in Neurology (Pending Dean Approval) (primary appointment)
Bachelor of Science, William Smith College, 2010
Master of Science, University of Pittsburgh, 2014
Doctor of Medicine, University of Pittsburgh, 2015

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)
Doctor of Philosophy, University of Iowa, 2011

Mwiza Ushe, M.S., M.D.
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)
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

Oksana Volshteyn, M.D.
Professor of Neurology

Regina Lindsay Triplett, M.S., M.D.
Instructor in Neurology (Pending Dean Approval) (primary appointment)
Bachelor of Science, William Smith College, 2010
Master of Science, University of Pittsburgh, 2014
Doctor of Medicine, University of Pittsburgh, 2015

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)
Doctor of Philosophy, University of Iowa, 2011

Mwiza Ushe, M.S., M.D.
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)
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

Oksana Volshteyn, M.D.
Professor of Neurology
Guoqiao Wang, M.A., M.S., Ph.D.
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Biostatistics
Master of Science, Yunnan University (###), 2007
Master of Arts, University of Alabama in Tuscaloosa, 2010
Doctor of Philosophy, University of Alabama in Birmingham, 2014

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 Weihl, Ph.D., M.D.
Professor of Neurology (primary appointment)
Section Chief - Section of Neuromuscular Diseases
Champaign, 1993
Doctor of Philosophy, University of Chicago, 1998
Doctor of Medicine, University of Chicago, 2001

Judith L. Weisenberg, M.D.
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

Emily Katherine White, M.A., Ph.D.
Assistant Professor of Neurology (primary appointment)
Bachelor of Arts, Washington University in St Louis, 2008
Master of Arts, University of Nevada Las Vegas, 2013
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
Doctor of Philosophy, Washington University in St Louis, 2007
Doctor of Medicine, 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 Arts, 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

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
College Park, 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  
BJCIH 9603  
Phone: 314-273-9057

Diagnostic tests, biomarkers, and pathophysiology of Alzheimer’s disease and other neurologic disorders. 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 the performance of clinical research studies to discover and develop diagnostic tests and biomarkers and to understand the pathophysiology of Alzheimer’s disease. 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, proteomic analyses, clinical analyses including determining sensitivity and specificity of tests, and application to real-world populations including diverse clinical cohorts led by the PI (SEABIRD https://sites.wustl.edu/seabird/) and the SILQ Center (https://batemanlab.wustl.edu/silq-center/). Quantitation, analysis and modeling of the data will be taught in the context of data interpretation and clinical study design. The student will learn about how clinical tests and treatments are developed in medicine, advancing the leading edge of advanced medical diagnosis and treatment.

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.

Joel S. Perlmutter, MD  
East Building, 2nd Floor  
Phone: 314-362-6026

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 are testing new drugs that might rescue injured nigrostriatal neurons (a model of PD) with the potential to slow the progression of PD. For these, we use PET to measure dopamine and related pathways and 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. In addition, we have an active program that combines a variety of approaches to develop biomarkers and investigate the pathophysiology of dementia associated with PD. We use PET to measure radioligand binding in PD and dystonia. We use PET to investigate drug-mediated pathways and inflammatory responses in the brain and to parse out the effects of potential therapeutic interventions. We also develop and implement 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 themselves 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.
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 820 Neurology (Clinical Elective)
This four-week elective will be customized to include inpatient and outpatient experiences desired by WU students who have completed the WU 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 2-week rotations which may include: 1. Adult Inpatient General Service (with 1 clinic/week) 2. Adult Inpatient Stroke Service (with 1 clinic/week) 3. Adult Inpatient Consult Service (with 1 clinic/week) 4. Pediatric Neurology Consult Service (with 1 clinic/week) 5. Adult Neurology ICU (with 1 clinic/week) 6. Outpatient Clinics (with 8-10 clinics/week)

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

M35 Neurol 830 Neuro-Oncology (Clinical Elective)
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 (Clinical Elective)
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, neuropsychiatry, biomarkers, neuroimaging, genetics, and other biomedical procedures used in the diagnosis of dementia and developmental disorders such as Alzheimer’s disease, dementia with Lewy bodies, frontotemporal dementias, cerebrovascular disorders, and affective disorders.

M35 Neurol 859 Neonatal Neurology (Clinical Elective)
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 neonates 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 Neuroladiology Conference.

M35 Neurol 860 Pediatric Neurology (Clinical Elective)
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. 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 in 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. Students 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 (Clinical Elective)
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 Epilepsy (Clinical Elective)
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 910 Neurology Advanced Clinical Rotation (ACR)
The Neurology Advanced Clinical Rotation (ACR) is a 4-week education experience for Phase III Gateway Medical Students offering graduated supervised responsibility for patient care in adult or pediatric Neurology. ACR Students can select a rotation on one of the following services: Inpatient General Adult Neurology (at Barnes-Jewish Hospital) Adult Stroke Neurology (at Barnes-Jewish Hospital) Inpatient General Pediatric Neurology (at St. Louis Children's Hospital) The ACR student will gain exposure to a wide variety of adult or pediatric neurologically affected patients. They will evaluate and treat patients with acute neurological disorders as well as those with acute/subacute presentations of chronic neurological disorders. The Neurology ACR rotation will give students increased exposure and autonomy in the care of Neurology patients and further increase their knowledge and experience in Neurological disorders. Under the supervision of a senior resident, chief resident and attending physician, the student will have supervised responsibility for their patients. The ACR student will perform a complete history and neurological examination on their new and follow-up patients and will independently establish a differential diagnosis and plan for their patients. When possible, they will have the opportunity to write orders and write admission notes, daily progress notes and discharge summaries. The ACR student will carry a sufficient number of patients to ensure adequate learning and experience. The number of patients assigned to the ACR student is determined by the complexity of the case, the clinical skills of the student and the total number of patients on the service. The ACR student will also attend departmental rounds and clinical conferences. Credit 140 units.