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.

A

Aninda Bhat Acharya, MD1, MD
Instructor in Clinical Neurology (primary appointment)
MD1 University of Kansas 1996
MD University of Kansas 1996
BS University of Kansas 1992

Shannon Christine Agner, PHD, MD1, MS, MS
Assistant Professor of Neurology (primary appointment)
PHD Rutgers University 2011
MD1 Rutgers University 2013
MS Rutgers University 2004
BS Dartmouth College 2002
MS UMDNJ- Robert Wood Johnson Med 2004

Muhammad Taher Al-Lozi, MD, MS
Professor of Neurology (primary appointment)
MD University of Panjab 1980
MS University of Jordan 1985
BA University of Panjab 1976

Asher Jefferson Albertson, PHD, MD, BS1, MS
Instructor in Neurology (primary appointment)
PHD University of AL Birmingham 2011
BS University of Wyoming 2005
MD University of AL Birmingham 2013
BS1 University of Wyoming 2005
MS University of Wyoming 2007

Isabel Alfradique-Dunham, MD
Assistant Professor of Neurology (primary appointment)
MD Universidade Federal Fluminens 2008

Denis Ian Altman, MBBCH
Associate Professor of Clinical Neurology (primary appointment)
Assistant Professor of Clinical Pediatrics
MBBCH University of the Witwatersra 1975

Lizette Alvarez-Montero, MD
Instructor in Clinical Neurology (primary appointment)
MD School Not Listed 1991
BA Washington Univ in St. Louis 1987

Korina Anastasaki, MS, PHD
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
MS Edinburgh University 2007
PHD Edinburgh University 2011
BS University of York 2006

Beau Mark Ances, MD, MS, PHD
Daniel J Brennan MD Professor of Neurology (primary appointment)
Professor of Biomedical Engineering
Professor of Radiology
MD University of Pennsylvania 2001
MS London School of Economics 1994
BS University of Pennsylvania 1993
PHD University of Pennsylvania 2000

Gabriel C Araujo, BA1, MS, PHD
Instructor in Clinical Neurology (primary appointment)
BA California State University 2004
BA1 California State University 2004
MS Washington Univ in St. Louis 2007
PHD Washington Univ in St. Louis 2011

Bhooma R. Aravamuthan, MD, BS1, PHD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
MD Washington Univ in St. Louis 2012
BS1 Michigan State University 2005
PHD Oxford University 2008
Baback Arshi, MA, MD
Assistant Professor of Neurology (primary appointment)
BA University of Southern Calif 2004
MA Georgetown University 2006
MD Saint Louis University 2010

Andrew J Aschenbrenner, PHD, MS
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
PHD Washington Univ in St. Louis 2016
BS University of Kansas 2010
MS Washington Univ in St. Louis 2013

Rami-James Kazim Assadi, MD
Assistant Professor of Neurology (primary appointment)
MD American University of Beirut 2014
BS Univ of Minnesota Twin Cities 2007

B

Ganesh M Babulal, MS, MS, PHD
Assistant Professor of Neurology (primary appointment)
MS Washington Univ in St. Louis 2015
MS University of Minnesota 2010
PHD Washington Univ in St. Louis 2014
BS University of Minnesota 2008

Joyce E Balls-Berry, MS, PHD
Associate Professor of Neurology (primary appointment)
MS Washington Univ in St. Louis 2001
PHD University of Toledo 2009
BS Xavier University Louisiana 1996

Robert H Baloh, MD1, PHD, MD
Adjunct Assistant Professor of Neurology (primary appointment)
BS Brown University 1995
MD1 Washington Univ in St. Louis 2001
PHD Washington Univ in St. Louis 2005
MD Washington Univ in St. Louis 2001

Nicolas Regis Barthelemy, PHD, MS
Assistant Professor of Neurology (primary appointment)
PHD Strasbourg University 2011
BS Paris Sud University 2005
MS Paris Sud University 2007

Randall John Bateman, MD, BS1
Professor of Neurology (primary appointment)
Charles F and Joanne Knight Distinguished Professor of Neurology
MD Case Western Reserve Univ 2000
BS Washington Univ in St. Louis 1995
BS1 Washington Univ in St. Louis 1995

Sarah Louise Bauer Huang, PHD, MD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
PHD University of CA San Francisco 2006

B

BS Duke University 2000
MD Stanford University 2012

Max Prely Benzaquen
Instructor in Clinical Neurology (primary appointment)

Mary Ellen Bertrand, MD
Associate Professor of Neurology (primary appointment)
Associate Professor of Pediatrics
BS McKendree College 1987
MD Southern Illinois University 1993

Alan J Birtwistle
Assistant Professor of Clinical Neurology (primary appointment)

Lynn Bennett Blackburn, MA, PHD
Assistant Professor of Clinical Neurology (primary appointment)
BS Univ of Wisconsin Madison 1968
MA Indiana University Bloomington 1970
PHD Indiana University Bloomington 1972

James Scott Bonner, MD
Instructor in Clinical Neurology (primary appointment)
MD University of Missouri 1980
BA Drury College 1976

Christopher C. Bosworth, PHD
Assistant Professor of Clinical Neurology (primary appointment)
BA Southern Illinois University 2002
PHD University of Texas Southwest 2014

Janice E Brunstrom-Hernandez, MD
Adjunct Associate Professor of Neurology (primary appointment)
MD University of Virginia 1987

Robert Charles Bucelli, PHD, MD
Professor of Neurology (primary appointment)
PHD State Univ of NY Buffalo 2007
MD State Univ of NY Buffalo 2007
BS Canisius College 2001

Michelle A. Burack, MD, PHD
Adjunct Instructor in Neurology (primary appointment)
BS Duke University 1990
MD Washington Univ in St. Louis 2002
PHD University of Virginia 2000

Garrett C Burris, MD
Associate Professor of Clinical Neurology (primary appointment)
Associate Professor of Clinical Pediatrics
BS School Not Listed 1964
MD Saint Louis University 1968

C

David J Callahan, MD
Professor of Neurology (primary appointment)
Professor of Pediatrics
BS University of Notre Dame 1982
MD Washington Univ in St. Louis 1986
Alejandra Camacho-Soto, MD
Assistant Professor of Neurology (primary appointment)
BA Georgetown University 2005
MD University of Pittsburgh 2011

Meghan Clark Campbell, PHD
Associate Professor of Neurology (primary appointment)
Associate Professor of Radiology
BS University of Illinois 1999
PHD Indiana State University 2004

Claudia Cantoni, PHD
Instructor in Neurology (primary appointment)
BS University of Pavia 2008
PHD University of Milan 2013

Russell C. Cantrell, MD
Instructor in Clinical Neurology (primary appointment)
BS School Not Listed 1985
MD University of Tennessee 1989

David A Carpenter, MD
Professor of Neurology (primary appointment)
BS Amherst College 1979
MD Washington Univ in St. Louis 1983

Alexandre Carter, MD, PHD
Associate Professor of Neurology (primary appointment)
Associate Professor of Occupational Therapy
MD Harvard University 2003
BS Brandeis University 1991
PHD Harvard University 2003

Salim Chahin, MS, MD
Assistant Professor of Neurology (primary appointment)
MS University of Pennsylvania 2014
MD Damascus University 2004

Yasheng Chen, MA, PHD
Assistant Professor of Neurology (primary appointment)
MA Washington Univ in St. Louis 2002
BA Tianjin University 1993
PHD Washington Univ in St. Louis 2002

Luqi Chi, MS, MD
Associate Professor of Neurology (primary appointment)
MS University of Pennsylvania 2009
MD Huabei Medical College for Coa 1984

John R. Cirrito, PHD
Associate Professor of Neurology (primary appointment)
PHD Washington Univ in St. Louis 2004
BA Boston College 1998

David B Clifford, MD
Melba and Forest Seay Professor of Clinical Neuropharmacology
in Neurology (primary appointment)
Professor of Medicine
BA Southwestern University 1971

MD Washington Univ in St. Louis 1975

Susan R Criswell, MD
Associate Professor of Neurology (primary appointment)
MD University of Nebraska 2001
BS University of Nebraska 1997

Dorothy Anne Cross, MD
Professor of Neurology (primary appointment)
MD University of Alabama 1980
BS University of South Alabama 1976

Nicole Cruz
Instructor in Clinical Neurology (primary appointment)

Alisha J Daniels, MD, MS
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
BS Cardinal Stritch College 2007
MD American International College 2016
MS Walden University 2016

Rachel S Darken, MD, PHD
Associate Professor of Neurology (primary appointment)
MD Cornell University 2004
BA University of Texas Austin 1996
PHD Cornell University 2003

Albert Augustus Davis, MD, PHD
Assistant Professor of Neurology (primary appointment)
MD Vanderbilt University 2011
BS Emory University 2002
PHD Emory University 2009

Brian Keith Day, MD, PHD
Associate Professor of Neurology (primary appointment)
MD University of Kentucky 2007
PHD University of Kentucky 2005
BS Harvard University 1997

Gabriela De Bruin, MD
Associate Professor of Neurology (primary appointment)
MD Federal University of Ceara 2005

Andrea Denny, MSSW, JD
Instructor in Neurology (primary appointment)
BA University of Virginia 1990
MSSW University of Texas Austin 1993
JD University of Texas Austin 1998

Amar Dhand, PHD, MD
Adjunct Assistant Professor of Neurology (primary appointment)
PHD Oxford University 2006
BS Dartmouth College 2001
MD Harvard University 2008

Rajat Dhar, MD
Associate Professor of Neurology (primary appointment)
MD McMaster University 2000

Marc I Diamond, MD
Adjunct Professor of Neurology (primary appointment)
BS Princeton University 1987
MD University of San Francisco 1993

Kalen R Dionne, MD, PHD
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
BA Colorado College 2005
MD University of Colorado Aurora 2015
PHD University of Colorado Aurora 2012

Michael N Diringer, MA, MD
Professor of Neurology (primary appointment)
Professor of Anesthesiology
Professor of Neurological Surgery
Professor of Occupational Therapy
MA University of Louisville 1978
BA State Univ of NY Stonybrook 1974
MD University of Kentucky 1982

Jonathan Noel Dodd
Instructor in Clinical Neurology (primary appointment)

Joseph M Dooley Jr, MD
Associate Professor of Clinical Neurology (primary appointment)
BS Saint Louis University 1954
MD Saint Louis University 1958

Nico U. Dosenbach, PHD, MD
Associate Professor of Neurology (primary appointment)
Associate Professor of Biomedical Engineering
Associate Professor of Occupational Therapy
Associate Professor of Pediatrics
Associate Professor of Radiology
PHD Washington Univ in St. Louis 2008
MD Washington Univ in St. Louis 2008
BA Columbia University 2000

Alexander W Dromerick, MD
Adjunct Professor of Neurology (primary appointment)
Adjunct Professor of Occupational Therapy
Adjunct Professor of Physical Therapy
BA University of Virginia 1980
MD University of Maryland 1986

Steven Richard Dunham, MS, MD
Assistant Professor of Neurology (Pending Executive Faculty Approval) (primary appointment)
MS University of South Florida 2007
BS Wake Forest University 2005
MD St. George University School o 2011

Casey Raymond Dunn, MD
Assistant Professor of Neurology (primary appointment)
MD Tulane University 2009
BS University of Notre Dame 2005

Lawrence N Eisenman, MD, PHD
Professor of Neurology (primary appointment)
MD Northwestern University 1997
BS Johns Hopkins University 1988
PHD Northwestern University 1997

Juan Escandon, MD
Assistant Professor of Clinical Neurology (primary appointment)
BS School Not Listed 1985
MD School Not Listed 1989

Eugene Evra, MD
Instructor in Clinical Neurology (primary appointment)
MD Smolensk State Medical Academy 1996

Andrew Ross Findlay, MD
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
MD University of CA Irvine 2013
BS University of CA Santa Barbara 2007

Julaine Marie Florence, MS, DPT
Professor of Neurology (primary appointment)
Professor of Physical Therapy
MS Washington Univ in St. Louis 1983
BS Washington Univ in St. Louis 1975
DPT Washington Univ in St. Louis 2002

Wing Man Fong, MA, PHD
Assistant Professor of Neurology (primary appointment)
MA University of Hong Kong 2009
PHD Illinois Institute of Technol 2015
BS University of Nottingham 2005

Andria L Ford, MD
Associate Professor of Neurology (primary appointment)
Associate Professor of Radiology
MD University of Oklahoma 2002
BS Duke University 1998

Thomas Foutz, MD, PHD
Instructor in Neurology (Pending Dean's Approval) (primary appointment)
MD Case Western Reserve Univ 2013
BA Johns Hopkins University 2003
PHD Case Western Reserve Univ 2011

Bennett David Frank, PHD, MD
Instructor in Clinical Neurology (primary appointment)
PHD Beaufort Technical College 1987
MD Beaufort Technical College 1988
BA Washington Univ in St. Louis 1982

Lindsay Michele Frerichs, MD
Assistant Professor of Neurology (primary appointment)
BS Iowa State University 2005
MD Univ Texas Health Sci San Anto 2015

Robert P. Fucetola, MA, PHD
Professor of Neurology (primary appointment)
Adjunct Professor of Psychological & Brain Sciences
BA Washington Univ in St. Louis 1991
MA Washington Univ in St. Louis 1993
PHD Washington Univ in St. Louis 1997

G

Rafael Galindo, MD, PHD
Assistant Professor of Neurology (primary appointment)
MD University of New Mexico 2007
BS University of New Mexico 1996
PHD University of New Mexico 2005

Gilbert Gallardo, PHD, MS, MS, PHD
Assistant Professor of Neurology (primary appointment)
PHD University of Texas Southwest 2008
MS Univ of Texas San Antonio 2002
MS Univ of Texas San Antonio 2002
PHD University of Texas Southwest 2008
BS University of Texas El Paso 1999
BS University of Texas El Paso 1999

Stefanie Geisler, MD
Assistant Professor of Neurology (primary appointment)
MD Humboldt University 2001

Nupur Ghoshal, MD, PHD
Associate Professor of Neurology (primary appointment)
Associate Professor of Psychiatry
MD Northwestern University Med 2003
PHD Northwestern University Med 2001
BA Iowa State University 1995

James M Goldring, MD, PHD
Instructor in Clinical Neurology (primary appointment)
BA Washington Univ in St. Louis 1971
MD Washington Univ in St. Louis 1986
PHD Washington Univ in St. Louis 1977

Jennifer L. Griffith, MD, PHD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
BS Indiana University Bloomington 2004
MD Washington Univ in St. Louis 2012
PHD Washington Univ in St. Louis 2012
BA Indiana University Bloomington 2004

Prateek Grover, PHD
Assistant Professor of Neurology (primary appointment)
PHD Marquette University 2012
BS Mahatma Gandhi University 2000

Royal Gene Grueneich, PHD
Assistant Professor of Clinical Neurology (primary appointment)
PHD University of Minnesota 1979

BA School Not Listed 1973

Rejean Michael Guerriero, MD
Assistant Professor of Neurology (primary appointment)
BS Bates College 2001
MD University of New England 2009

Kristin Williams, MD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
Assistant Professor of Radiology
MD University of Virginia 2006
BS Furman University 2002

Christina A. Gurnett, PHD, MD
Professor of Neurology (primary appointment)
Professor of Orthopaedic Surgery
Professor of Pediatrics
BS University of Notre Dame 1991
PHD University of Iowa 1998
MD University of Iowa 1998

David H Gutmann, PHD, MD, MS
Donald O. Schnuck Family Professor of Neurology (primary appointment)
Professor of Genetics
Professor of Neurological Surgery
Professor of Pediatrics
Vice Chair of Research Department of Neurology
PHD Davenport University 1984
BS Davenport University 1979
MD Davenport University 1986
MS Davenport University 1980

H

Joseph Hanaway, MD
Assistant Professor of Clinical Neurology (primary appointment)
MD McGill University 1960
BA McGill University 1956

Lisa Adel Harker
Instructor in Clinical Neurology (primary appointment)

Jason J Hassenstab, B MUS, PHD, MS PSYC
Associate Professor of Neurology (primary appointment)
Associate Professor of Psychological & Brain Sciences
B MUS New York University 2002
PHD Fordham University 2009
MS PSYC Fordham University 2005

J Michael Hatlelid, MD
Associate Professor of Clinical Neurology (primary appointment)
MD Washington Univ in St. Louis 1977
BA St Johns University 1970

Robert Edward Hogan III, MD
Professor of Neurology (primary appointment)
BA Augustana College 1985
MD University of MO Columbia 1989

Derek Lance Holder, MS, MD
Assistant Professor of Neurology (primary appointment)
BS Washington Univ in St. Louis 2007
MS Rosalind Franklin University 2008
MD CHICAGO MEDICAL SCHOOL 2012

David Michael Holtzman, MD
Andrew B. and Gretchen P. Jones Professor of Neurology (primary appointment)
Head of the Department of Neurology
Professor of Developmental Biology
BS Northwestern University 1983
MD Northwestern University 1985

Terri L Hosto, BSW, MSW
Assistant Professor of Neurology (primary appointment)
BSW University of Illinois 1981
MSW University of Michigan 1986

Chung Hsu, PhD, MD
Adjunct Professor of Neurology (primary appointment)
PHD University of Virginia 1975
MD National Taiwan University 1970

Thy N Huskey, MD
Professor of Neurology (primary appointment)
BS Northwestern University Med 1996

Krzysztof L Hyrc, PhD, MS
Associate Professor of Neurology (primary appointment)
PHD Jagiellonian University 1987
MS Jagiellonian University 1981

Jill Christine Isenberg, MS PSYC, PHD
Instructor in Clinical Neurology (primary appointment)
MS PSYC Wake Forest University 2003
BA Wake Forest University 1998
PHD Wake Forest University 2005

Sindhu Saji Jacob, MD
Assistant Professor of Neurology (primary appointment)
MD Kottayam Medical College 1994

Laura Ann Jansen, PHD, MD
Associate Professor of Neurology (primary appointment)
BS Westminster University 1996
BA Northwestern University 1991
MD Saint Louis University 1998

Yo-El S Ju, MD
Associate Professor of Neurology (primary appointment)
MD Columbia University 2005

BS Harvard University 2001

Neringa Juknis, MD
Associate Professor of Neurology (primary appointment)
MD Kaunas Medical Institute 1989
BA School Not Listed 1985

Peter Kang, MD
Assistant Professor of Neurology (primary appointment)
BS Geneseo College 2008
MD Univ of Pittsburgh Greensburg 2012

Richard T. Katz, MD, MA
Professor of Clinical Neurology (primary appointment)
BS University of Rochester 1977
MD Case Western Reserve Univ 1981
MA Cleveland Institute of Music 1979

Salah G. Keyrouz, MD
Associate Professor of Neurology (primary appointment)
Associate Professor of Neurological Surgery
MD Lebanese Univ Med Science 2000

Syed Ahmed Khader, MD
Instructor in Clinical Neurology (primary appointment)
BS School Not Listed 1989
MD University of Madras 1993

Paul Thomas Kotzbauer, MD, PHD
Professor of Neurology (primary appointment)
Professor of Developmental Biology
MD Washington Univ in St. Louis 1997
BS Northwestern University 1989
PHD Washington Univer in St. Louis 1997

Collin John Kreple, MD, PHD
Instructor in Neurology (primary appointment)
MD University of Iowa 2020
PHD University of Iowa 2015
BA University of Wisconsin-Madiso 2008

Geraldine J. Kress, PHD
Assistant Professor of Neurology (primary appointment)
PHD Washington Univ in St. Louis 2009

Ashok Kumar, MD
Assistant Professor of Clinical Neurology (primary appointment)
MD Dow Medical College Karachi 1985

Terrance T. Kummer, MD, PHD
Assistant Professor of Neurology (primary appointment)
BS University of Minnesota 1999
MD Washington Univ in St. Louis 2006
PHD Washington Univ in St. Louis 2006

Eric Carl Landsness, MD, BE, PHD
Assistant Professor of Neurology (primary appointment)
MD University of Wisconsin-Madison 2013
BE University of Washington 2003
PHD University of Wisconsin-Madison 2011

David Veloso Lardizabal, MD
Associate Professor in Neurology (primary appointment)
MD CEBU Institute of Medicine 1991
BS University of the Philippines 1987

Douglas P. Larsen, MD
Professor of Neurology (primary appointment)
Professor of Pediatrics
BA Brigham Young University 1999
MD University of Utah 2003

Osvaldo Jose Laurido-Soto, MD
Assistant Professor of Neurology (primary appointment)
BS University Puerto Rico Piedras 2010
MD Washington Univ in St. Louis 2014

Jin-Moo Lee, MD, PHD
Norman J Stupp Professor of Neurology (primary appointment)
Professor of Radiology
BA Yale University 1985
MD Cornell University 1993
PHD Cornell University 1992

Walter Lemann III, MD
Associate Professor of Clinical Neurology (primary appointment)
MD Tulane University 1979
BS Yale University 1975

Alison M Leston, PHD, MD
Assistant Professor of Clinical Neurology (primary appointment)
BS University of Illinois 1990
PHD University of Chicago 2000
MD Washington Univ in St. Louis 2001

Mingjie Li, MD, PHD
Associate Professor of Neurology (primary appointment)
MD Heilongjiang Coll of Trad Med 1983
PHD Kochi Medical School 1989

Yan Li, PHD
Assistant Professor of Neurology (primary appointment)
BS Huazhong Agricultural U 2007
PHD University of Alabama 2017

Amy K Licis, MD
Associate Professor of Neurology (primary appointment)
BS Rice University 2000
MD Washington Univ in St. Louis 2004

Oleg Viktorovich Lobanov, MD, PHD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
BS University of Texas Arlington 2007
MD Wake Forest University 2014
PHD Wake Forest University 2012

Jane Loitman, MD, MS
Assistant Professor of Clinical Neurology (primary appointment)
Instructor in Clinical Medicine
BA Tufts University 1982
MD University of Minnesota 1992
MS Georgetown University 1988

Justin Matthew Long, MD, PHD
Assistant Professor of Neurology (primary appointment)
MD Indiana University School of M 2014
PHD Indiana University Indianapolis 2014
BS Indiana University Bloomington 2004

Glenn Lopate, MD
Professor of Neurology (primary appointment)
BS Colorado St University 1983
MD Ohio State University 1987

Brendan Patrick Lucey, MD
Associate Professor of Neurology (primary appointment)
BA University of Vermont 1999
MD John Hopkins University 2003

Cindy Ly, PHD, MD
Assistant Professor of Neurology (primary appointment)
PHD Baylor College of Medicine 2008
BS University of Texas Austin 2000
MD Baylor College of Medicine 2010

M

Luigi Maccotta, PHD, MD
Associate Professor of Neurology (primary appointment)
Associate Professor of Radiology
BS St Peters College 1994
PHD Washington Univ in St. Louis 2005
MD Washington Univ in St. Louis 2005

Baijayanta Maiti, MD, PHD
Assistant Professor of Neurology (primary appointment)
MD Calcutta University 2003
PHD University of Utah 2010

Raman Kant Malhotra, MD
Associate Professor of Neurology (primary appointment)
MD Harvard University 2001

John F Mantovani, MD
Associate Professor of Clinical Neurology (primary appointment)
Assistant Professor of Clinical Pediatrics
MD University of Missouri 1974
BA University of Evansville 1971

Soe S Mar, MD
Professor of Neurology (primary appointment)
Professor of Pediatrics
MD Institute of Medicine 1987

Robert P Margolis, MD
Assistant Professor of Clinical Neurology (primary appointment)
MD Saint Louis University 1975
BA Kent St University 1971

Kathryn Mary Marlow, MD
Assistant Professor of Neurology (primary appointment)
MD SUNY DOWNSTATE MED BROOKLYN 2013
BS State Univ of NY at Albany 2009

Pieter Mazzoni, MD, PHD
Associate Professor of Neurology (primary appointment)
BS University of CA San Diego 1988
MD Harvard University 1995
PHD Mass Inst of Technology (MIT) 1994

Eric Martin McDade, DOST
Associate Professor of Neurology (primary appointment)
BA Canisius College 1998
DOST Chicago Coll of OsteopathicMed 2004

Timothy M Miller, PHD, MD
Clayson Professor of Neurology (primary appointment)
PHD Washington Univ in St. Louis 1998
MD Washington Univ in St. Louis 1998

John Carl Morris, MD
Harvey A and Dorismae Hacker Friedman Distinguished Professor of Neurology (primary appointment)
Professor of Occupational Therapy
Professor of Pathology and Immunology
Professor of Physical Therapy
BA Ohio Wesleyan University 1970
MD University of Rochester 1974

Stephanie Morris, MD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
BS University of Arizona 2007
MD University of Phoenix 2011

Michael Justin Morrissey, PHD
Instructor in Clinical Neurology (primary appointment)
PHD Saint Louis University 2005

Krista L Moulder, PHD
Associate Professor of Neurology (primary appointment)
PHD Washington Univ in St. Louis 2001
BA Northwestern University 1993

Erik S Musiek, PHD PMCG, MD
Associate Professor of Neurology (primary appointment)
PHD PMCG Vanderbilt University 2005
MD Vanderbilt University 2007
BS College of William and Mary 1999

Robert T Naismith II, MD
Professor of Neurology (primary appointment)
MD Case Western Reserve Univ 1998
BA Case Western Reserve Univ 1994

Jeffrey J Neil, PHD, MD
Professor of Neurology (primary appointment)
Professor of Pediatrics
PHD Washington Univ in St. Louis 1984
MD Washington Univ in St. Louis 1984

Susan Searles Nielsen, MA, PHD
Associate Professor of Neurology (primary appointment)
MA University of Washington 2000
BA Evergreen St College 1992
PHD University of Washington 2004

Anne Fagan Niven, PHD
Professor of Neurology (primary appointment)
PHD University of CA San Diego 1992
BA Wellesley College 1984

Michael Justin Noetzel, MD
Professor of Neurology (primary appointment)
Professor of Pediatrics
Vice Chair of Pediatric and Developmental Neurology
BA University of Virginia 1977
BA Yale University 1973

Scott Norris, MD
Associate Professor of Neurology (primary appointment)
Associate Professor of Radiology
MD University of MO Columbia 2008
BA Washington Univ in St. Louis 2000

P

Sheel Jitendra Pathak, MD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
BS University of Texas Austin 2004
MD University of Texas Galveston 2008

Robert Harris Paul, PHD, MS
Adjunct Assistant Professor of Neurology (primary appointment)
BS California State Long Beach 1993
PHD Oklahoma St University 1998
MS Oklahoma St University 1995

Toni Shih Pearson, B MUS, MD
Associate Professor of Neurology (primary appointment)
B MUS University of Adelaide 2000
MD University of Adelaide 1998

David M Peeples, MD
Instructor in Clinical Neurology (primary appointment)
MD University of Chicago 1986
BA Vanderbilt University 1982

Lindsay M Peglar, MS, MD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
BS Tulane University 2008
MS Tulane University 2009
Karen J Pentella, MD
Assistant Professor of Clinical Neurology (primary appointment)
BS Ohio State University 1975
MD Ohio State University 1979

Joel S Perlmutter, MD
Professor of Neurology (primary appointment)
Professor of Neuroscience
Professor of Occupational Therapy
Professor of Physical Therapy
Professor of Radiology
BA Princeton University 1975
MD University of MO Columbia 1979

Alan Pestronk, MD
Professor of Neurology (primary appointment)
Professor of Pathology and Immunology
BA Princeton University 1966
MD Johns Hopkins University Medic 1970

Daniel Phillips, BE, MD
Assistant Professor of Clinical Neurology (primary appointment)
BE Northwestern University 1982
BS Northwestern University 1976
MD Washington Univ in St. Louis 1980

Chia Ling Phuah, MD, MS1, MS
Assistant Professor of Neurology (primary appointment)
BS Cambridge University 2003
MD Cambridge University 2006
MS1 Cambridge University 2007
MS Harvard University 2016

Laura Piccio, MD
Associate Professor of Neurology (primary appointment)
MD University of Milan 1997

Stephanie K Powell, MS, PHD
Instructor in Clinical Neurology (primary appointment)
BS University of Notre Dame 1994
MS Univ of Wisconsin Milwaukee 2000
PHD Univ of Wisconsin Milwaukee 2004

William John Powers, MD
Adjunct Professor of Neurology (primary appointment)
MD Cornell University 1975
BA Dartmouth College 1971

Brad Alan Racette, MD
Robert Allan Finke Professor of Neurology (primary appointment)
Executive Vice Chair of Clinical Affairs, Department of Neurology
MD Northwestern University 1992
BA Princeton University 1988

David Martin Reisler, MD, M PH
Assistant Professor of Clinical Neurology (primary appointment)
BA Harvard University 1957
MD Washington Univ in St. Louis 1961
M PH Johns Hopkins University Medic 1971

Dave A Rengachary, MD
Instructor in Clinical Neurology (primary appointment)
BA Northwestern University 1996
MD Northwestern University 2000

Terri L Ruutel, MD
Associate Professor of Neurology (primary appointment)
BS University of MO Columbia 1991
MD Vanderbilt University 1995

Catherine M Roe, PHD, MA
Associate Professor of Neurology (primary appointment)
PHD Southern Illinois University 1992
BA Purdue University 1986
MA Southern Illinois University 1990

James R Rohrbaugh, MD
Associate Professor of Clinical Neurology (primary appointment)
Associate Professor of Clinical Pediatrics
MD Ohio State University 1974
BA Yale University 1971

Robert John Rudock, MBA1, MD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
MBA1 University of Miami 2011
BS John Hopkins University 2006
MD University of Miami 2012

Rimma Ruvinskaya, MD
Associate Professor of Neurology (primary appointment)
BA School Not Listed 1979
MD Leningrad Inst of Peds Med 1985

Robin C Ryther, PHD, MD
Associate Professor of Neurology (primary appointment)
BS University of MO Columbia 1998
PHD Vanderbilt University 2004
MD Vanderbilt University 2006

Naresha Sailagrama, B VET, MS, PHD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pathology and Immunology
B VET Karnataka University 2004
MS Indian Vet Research Institute 2006
PHD University of Vermont 2013

Chihiro Sato, MS, PHD
Assistant Professor of Neurology (primary appointment)
MS University of Tokyo 2005
BS University of Tokyo 2003
PHD University of Tokyo 2008

Andrew David Sauerbeck, PHD
Instructor in Neurology (primary appointment)
BS University of Kentucky 2005  
PHD University of Kentucky 2011  
Anneliese M Schaefer, JD, PHD, BBA  
Professor of Neurology (primary appointment)  
JD Washington Univ in St. Louis 1988  
PHD Washington Univ in St. Louis 2001  
BBA Washington Univ in St. Louis 1985

Suzanne E. Schindler, PHD, MD  
Assistant Professor of Neurology (primary appointment)  
BS Millsaps College 1999  
PHD Washington Univ in St. Louis 2008  
MD Washington Univ in St. Louis 2008

Bradley L Schlaggar, MD, PHD  
Adjunct Professor of Neurology (primary appointment)  
BS Brown University 1986  
MD Washington Univ in St. Louis 1994  
PHD Washington Univ in St. Louis 1994

Kathleen Marie Schoch, PHD  
Instructor in Neurology (primary appointment)  
BS Bradley University 2007  
PHD University of Kentucky 2013

Earl R Schultz, MD  
Professor of Clinical Neurology (primary appointment)  
BS University of Missouri 1953  
BA Southeast Missouri St Univers 1952  
MD Washington Univ in St. Louis 1955

Dong-oh Seo, MS, PHD  
Instructor in Neurology (primary appointment)  
MS Korea University 2006  
PHD University of Texas Austin 2015

Christian T Sheline, PHD  
Adjunct Research Associate Professor of Neurology (primary appointment)  
BA Dartmouth College 1983  
PHD University of California 1989

Todd B Silverman  
Instructor in Clinical Neurology (primary appointment)

Barry A. Singer  
Associate Professor of Clinical Neurology (primary appointment)

Alyssa Erin Smith, MD  
Assistant Professor of Neurology (primary appointment)  
Assistant Professor of Pediatrics  
MD Rush University 2014  
BS Loyola University Chicago 2010

Christopher D Smyser, MD  
Associate Professor of Neurology (primary appointment)  
Associate Professor of Pediatrics  
Associate Professor of Radiology

MD University of Iowa 2004  
BS University of Iowa 1998  
Barbara Joy Snider, PHD, MD  
Professor of Neurology (primary appointment)  
BA Northwestern University 1979  
PHD University of Texas Southwest 1989  
MD University of Texas Southwest 1989

Michael Snyder, MD  
Assistant Professor of Clinical Neurology (primary appointment)  
MD University of Iowa 2002  
BS Iowa State University 1997

Richard Brian Sommerville, MD  
Associate Professor of Neurology (primary appointment)  
BS Harvard University 1999  
MD Columbia University 2005

Tara V. Sperack, PHD, MS  
Instructor in Clinical Neurology (primary appointment)  
BS McGill University 1987  
PHD University of Florida 1997  
MS University of Florida 1994

Katherine Caroline White Stenson, MD  
Associate Professor of Clinical Neurology (primary appointment)  
BA Washington Univ in St. Louis 1994  
MD Northwestern University Med 2018

Jeremy Fuller Strain, PHD  
Instructor in Neurology (Pending Dean’s Approval) (primary appointment)  
PHD University of Texas Arlington 2015  
BS University of Texas Arlington 2009

Sandra L Tate, MD  
Instructor in Clinical Neurology (primary appointment)  
MD Southern Illinois University 1987

Mengesha A Teshome, MD  
Instructor in Neurology (primary appointment)  
MD Addis Ababa University 1989

Kwee L Thio, PHD, MD  
Professor of Neurology (primary appointment)  
Professor of Neuroscience  
Professor of Pediatrics  
PHD Washington Univ in St. Louis 1992  
MD Washington Univ in St. Louis 1992  
BS Brown University 1984

Jeffrey B. Titus, MA, PHD  
Assistant Professor of Clinical Neurology (primary appointment)  
BS Evangel College 1997  
MA University of Northern Colora 1999  
PHD Ball State University 2002

Jonathan Bryan Tiu, MD
Assistant Professor of Neurology (primary appointment)
MD Tulane University 2015
BA New York University 2006

Stuart Ramm Tomko, MD
Assistant Professor of Neurology (primary appointment)
BS Davidson College 2005
MD Baylor College of Medicine 2010

Norman Edwin Trevathan III, MS, MD
Adjunct Professor of Neurology (primary appointment)
BS David Lipscomb University 1977
MS Emory University 1982
MD Emory University 1982

Angela M Tripp
Assistant Professor of Clinical Neurology (primary appointment)

Keisuke Ueda, MD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
MD Keio University 2006

Jason Daniel Ulrich, PHD
Associate Professor of Neurology (primary appointment)
BS Quincy College 2004
PHD University of Iowa 2011

Mwiza Ushe, MS, MD
Associate Professor of Neurology (primary appointment)
MS Washington Univ in St. Louis 2007
BS University of Pittsburgh 2000
MD Washington Univ in St. Louis 2007

Renee Bailey Van Stavern, MD
Professor of Neurology (primary appointment)
BA Texas A&M University 1991
MD Univ Texas Health Science Ctr 1997

Arun S. Varadhachary, PHD, MD
Associate Professor of Neurology (primary appointment)
PHD Temple University 2001
MD Temple University 2004

Amy Robichaux Viehoever, MD, PHD, BE
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pediatrics
MD Vanderbilt University 2006
PHD Vanderbilt University 2004
BE Catholic University America 1998

Oksana Volshteyn, MD
Professor of Neurology (primary appointment)
Professor of Medicine
MD Minsk State Medical Institute 1976

Yan Wang, MD
Instructor in Neurology (primary appointment)
MD University of Chicago 2016

Andrew M. Wayne, MD
Instructor in Clinical Neurology (primary appointment)
BS University of CA Riverside 1989
MD University of Missouri 1993

Ling Wei, MD
Adjunct Research Assistant Professor of Neurology (primary appointment)
MD Beijing Medical University 1977

Conrad Christian Weihl, MD, PHD
Professor of Neurology (primary appointment)
MD University of Chicago 2001
PHD University of Chicago 1998
BS University of Illinois 1993

Judith L. Weisenberg, MD
Associate Professor of Neurology (primary appointment)
MD University of Minnesota 2002
BS Barnard College 1998

Howard I Weiss, MD
Assistant Professor of Clinical Neurology (primary appointment)
MD Tulane University 1972

Nicole Joy Werner, MS, PHD
Associate Professor of Neurology (primary appointment)
MS Saint Louis University 2000
BS Univ of Minnesota Twin Cities 1997
PHD Saint Louis University 2004

Robert L. White III
Instructor in Neurology (primary appointment)
BS Washington Univ in St. Louis 1999

Kyle Byron Womack, MD, MS
Professor of Neurology (primary appointment)
MD University of Texas Southwest 1987
BS Southern Methodist University 1983
MS University of Texas Southwest 2020

Michael Wong, MD, PHD
Allen P and Josephine B Green Professor of Pediatric Neurology
( primary appointment)
Professor of Neuroscience
Professor of Pediatrics
BA Princeton University 1987
MD University of Texas Southwest 1995
PHD University of Texas Southwest 1995

Gregory Frederick Wu, MD, PHD
Associate Professor of Neurology (primary appointment)
Associate Professor of Pathology and Immunology
MD University of Iowa 2001
Research Electives

Neurology Research Electives

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

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: 314-362-6026

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 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.

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
attending physician. The student will also attend weekly clinical
under the supervision of their junior resident, chief resident, and
Students on the inpatient service will function as a subintern
Inpatient Service and two weeks on the Adult Consult Service.
of four weeks of Adult Inpatient Service (Stroke for 2 weeks,
a US medical school provides the option (space permitting)
This four-week elective for fourth-year visiting students from
Medical Students
Special Elective in Adult Inpatient Clinical Neurology
Neurology
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
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 3-rd 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 (Bl) &
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, Bl, Amputee 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 7-7:30AM 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 clinic 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 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 may 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.