# Table of Contents

**Neurology**

Vision and Mission ........................................ 1
Editors ......................................................... 2
   Editor-in-Chief ......................................... 2
   Deputy Editors ......................................... 2
Associate Editors ......................................... 3
COE and Biostatistics ....................................... 5
Section Editors ........................................... 6–8
Editorial Board ............................................ 9–22
Classification of Evidence Review Team ............ 23–24
R&F Section Editors ...................................... 25–27

**Neurology Clinical Practice**

Vision and Mission ........................................ 28
Editors ......................................................... 29
Editorial Board ............................................. 30–33

**Neurology Neuroimmunology & Neuroinflammation**

Vision and Mission ........................................ 34
Editors ......................................................... 35
Editorial Board ............................................. 36–40

**Neurology Genetics**

Vision and Mission ........................................ 41
Editors ......................................................... 42
Editorial Board ............................................. 43–46

**Neurology Education**

Vision and Mission ........................................ 47
Editor ........................................................ 48
Editorial Board ............................................. 49–50

**Editorial Office** ............................................. 51–52
Vision

*Neurology*® will be the premier peer-reviewed journal for clinical neurology research.

Mission

*Neurology* will publish outstanding peer-reviewed original research articles, editorials, and reviews to enhance patient care, education, clinical research, and professionalism.
Editors • Neurology

Editor-in-Chief
JOSÉ MERINO, MD, MPhil, FAAN
Department of Neurology
Georgetown University School of Medicine
Washington, DC

Specialties: Neurology, vascular neurology

Deputy Editor
OLGA CICCARELLI, MD, PhD, FRCP
Department of Neuroinflammation
UCL Institute of Neurology
London, UNITED KINGDOM

Specialties: Multiple sclerosis, neuroimaging, autoimmune diseases, clinical trials, outcome measures

Deputy Editor for Editorial Education and Associate Editor
BRADFORD B. WORRALL, MD, MSc, FAAN
University of Virginia
Department of Neurology
Charlottesville, VA

Specialties: Vascular neurology, genetics, ethical and methodological issues in translational research, epidemiology
ANTHONY A. AMATO, MD, FAAN
Brigham and Women’s Hospital
Hale Building for Transformative Medicine
Boston, MA
Specialties: Neuromuscular disease, nerve and muscle histopathology, and electrodiagnosis

LUCA BARTOLINI, MD
EDITOR, NEUROLOGY: CLINICAL PRACTICE
The Warren Alpert Medical School of Brown University
Director, Pediatric Epilepsy Program
Providence, RI
Specialties: Epilepsy, child neurology, and neuroinflammation

REBECCA BURCH, MD, FAHS
Boston, MA
Specialties: Headache medicine

JOSEP O. DALMAU, MD, PhD, FAAN
EDITOR, NEUROLOGY: NEUROIMMUNOLOGY & NEUROINFLAMMATION
Catalan Institution of Research and Advanced Studies (ICREA) Hospital Clinic/IDIBAPS Service of Neurology
Barcelona, SPAIN
Department of Neurology Hospital of the University of Pennsylvania
Philadelphia, PA
Specialties: Neuro-oncology and neuroimmunology

PETER HEDERA, MD, PhD
Professor
Raymond Lee Lebby Endowed Chair of Parkinson’s Disease Research
Director, Movement Disorders Program
Department of Neurology
University of Louisville
Louisville, KY
Specialties: Movement disorders, neurogenetics, ataxia, essential tremor, hereditary spastic paraplegia, dystonia, Parkinson disease, Huntington disease

LINDA A. HERSHEY, MD, PhD, FAAN
University of Oklahoma Health Sciences Center
Edmond, OK
Specialties: Dementia and behavioral disorders, including Alzheimer disease, dementia with Lewy bodies, mild cognitive impairment, vascular dementia, progressive supranuclear palsy, corticobasal degeneration, frontotemporal dementia, Huntington disease

BARBARA C. JOBST, MD, PhD, FAAN
Dartmouth-Hitchcock Epilepsy Center & Department of Neurology
Dartmouth-Hitchcock Medical Center
Lebanon, NH
Specialties: Epilepsy, epilepsy surgery, brain stimulation, self-management, cognition in epilepsy

LINDA A. HERSHEY, MD, PhD, FAAN
University of Oklahoma Health Sciences Center
Edmond, OK
Specialties: Dementia and behavioral disorders, including Alzheimer disease, dementia with Lewy bodies, mild cognitive impairment, vascular dementia, progressive supranuclear palsy, corticobasal degeneration, frontotemporal dementia, Huntington disease

H.E. HINSON, MD, MCR, FAAN
ASSOCIATE EDITOR, Inclusion, Diversity, Equity, Anti-racism, & Social Justice
Associate Director of Clinical Research, Neurocritical Care Program
Associate Professor, Neurology and Emergency Medicine
Oregon Health & Science University
Portland, OR
Specialty: Neurocritical care

ROH H. HAMILTON, MD, MS, FAAN
ASSOCIATE EDITOR, Inclusion, Diversity, Equity, Anti-racism, & Social Justice
University of Pennsylvania
Philadelphia, PA
Specialties: Cognitive and behavioral neurology

REBECCA BURCH, MD, FAHS
Boston, MA
Specialties: Headache medicine

JOSEP O. DALMAU, MD, PhD, FAAN
EDITOR, NEUROLOGY: NEUROIMMUNOLOGY & NEUROINFLAMMATION
Catalan Institution of Research and Advanced Studies (ICREA) Hospital Clinic/IDIBAPS Service of Neurology
Barcelona, SPAIN
Department of Neurology Hospital of the University of Pennsylvania
Philadelphia, PA
Specialties: Neuro-oncology and neuroimmunology

ROY H. HAMILTON, MD, MS, FAAN
ASSOCIATE EDITOR, Inclusion, Diversity, Equity, Anti-racism, & Social Justice
University of Pennsylvania
Philadelphia, PA
Specialties: Cognitive and behavioral neurology

H.E. HINSON, MD, MCR, FAAN
ASSOCIATE EDITOR, Inclusion, Diversity, Equity, Anti-racism, & Social Justice
Associate Director of Clinical Research, Neurocritical Care Program
Associate Professor, Neurology and Emergency Medicine
Oregon Health & Science University
Portland, OR
Specialty: Neurocritical care

BARBARA C. JOBST, MD, PhD, FAAN
Dartmouth-Hitchcock Epilepsy Center & Department of Neurology
Dartmouth-Hitchcock Medical Center
Lebanon, NH
Specialties: Epilepsy, epilepsy surgery, brain stimulation, self-management, cognition in epilepsy

H.E. HINSON, MD, MCR, FAAN
ASSOCIATE EDITOR, Inclusion, Diversity, Equity, Anti-racism, & Social Justice
Associate Director of Clinical Research, Neurocritical Care Program
Associate Professor, Neurology and Emergency Medicine
Oregon Health & Science University
Portland, OR
Specialty: Neurocritical care

BARBARA C. JOBST, MD, PhD, FAAN
Dartmouth-Hitchcock Epilepsy Center & Department of Neurology
Dartmouth-Hitchcock Medical Center
Lebanon, NH
Specialties: Epilepsy, epilepsy surgery, brain stimulation, self-management, cognition in epilepsy

H.E. HINSON, MD, MCR, FAAN
ASSOCIATE EDITOR, Inclusion, Diversity, Equity, Anti-racism, & Social Justice
Associate Director of Clinical Research, Neurocritical Care Program
Associate Professor, Neurology and Emergency Medicine
Oregon Health & Science University
Portland, OR
Specialty: Neurocritical care

BARBARA C. JOBST, MD, PhD, FAAN
Dartmouth-Hitchcock Epilepsy Center & Department of Neurology
Dartmouth-Hitchcock Medical Center
Lebanon, NH
Specialties: Epilepsy, epilepsy surgery, brain stimulation, self-management, cognition in epilepsy
Associate Editors • Neurology

RENÉE SHELLHAAS, MD, MS
ASSOCIATE EDITOR
Clinical Professor of Pediatrics
Director of Research
Michigan Medicine Pediatric Neurology
CS Mott Children's Hospital
Ann Arbor, MI
Specialties: Pediatric epilepsy, neonatal neurology

ROY E. STROWD III, MD, Med, MS, FAAN
EDITOR, NEUROLOGY: EDUCATION JOURNAL
Wake Forest School of Medicine
Department of Neurology
Department of Internal Medicine, Section on Hematology & Oncology
Winston Salem, NC
Specialties: Neuro-oncology, primary brain tumors, leptomeningeal metastases, neurofibromatoses, medical education

AMY KUNCHOK, MBBS, MMed, FRACP
ASSISTANT EDITOR
Cleveland Clinic
Cleveland, OH
Specialties: Autoimmune neurology, multiple sclerosis and neuroimmunology

ANDREA L.C. SCHNEIDER, MD, PhD
ASSISTANT EDITOR
University of Pennsylvania
Perelman School of Medicine
Department of Neurology, Division of Neurocritical Care
Department of Biostatistics, Epidemiology, and Informatics
Philadelphia, PA
Specialties: Neuroepidemiology, traumatic brain injury, neurocritical care, dementia, cognitive impairment
GARY S. GRONSETH, MD, FAAN
ASSOCIATE EDITOR, CLASSIFICATION OF EVIDENCE EVALUATIONS
University of Kansas Medical Center
Kansas City, KS
Specialties: Biostatistics, clinical trials, epidemiology

RICHARD J. KRYSCIO, PhD
ASSOCIATE EDITOR, BIOSTATISTICS
University of Kentucky
Lexington, KY
Specialties: Clinical trials, ALS, Alzheimer disease, Parkinson disease, cancer, space-time

SUE LEURGANS, PhD
BIOSTATISTICS
Depts. of Neurological Sciences & Preventive Medicine
Statistics, Rush Alzheimer’s Disease Center
Rush University Medical Center
Chicago, IL
Specialty: Biostatistics

V. SHANE PANKRATZ, PhD
BIOSTATISTICS
Director, Biostatistics Shared Resource
UNM Comprehensive Cancer Center
Professor, Department of Internal Medicine
UNM Health Sciences Center
Rush University Medical Center
Albuquerque, NM
Specialty: Biostatistics, longitudinal data analysis, clinical trials, causal analysis
WHITLEY AAMODT, MD, MPH
DEPUTY EDITOR, Resident & Fellow Section
University of Pennsylvania
Department of Neurology
Philadelphia, PA
Specialties: Movement disorders, health services research, medical education

LEALANI MAE Y. ACOSTA, MD, MPH
EDITOR, Humanities in Neurology
Vanderbilt University Medical Center Department of Neurology
Nashville, TN
Specialty: Cognitive behavioral neurology

EDUARDO E. BENARROCH, MD, FAAN
EDITOR, Basic Science in the Clinic
Mayo Clinic
Rochester, MN
Specialty: Autonomic

JOSHUA A. BUDHU, MD, MS
Inclusion, Diversity, Equity, Anti-racism, & Social Justice Online Section Editor
Departments of Neurology, Dana-Farber Cancer Institute, Massachusetts General Hospital, Brigham and Women’s Hospital Medical School
Boston, MA
Specialties: neuro-oncology, primary brain tumors, brain metastasis, neurologic complications of cancer, neurotoxicity of cancer therapies

BRIAN C. CALLAGHAN, MD, MS
EDITOR, INNOVATIONS IN CARE DELIVERY
University of Michigan
Department of Neurology
Ann Arbor, MI
Specialties: Neuromuscular, health services research, epidemiology

STACEY L. CLARDY, MD, PhD, FAAN
EDITOR, NEUROLOGY PODCAST
University of Utah Imaging and Neuroscience Center
Staff Neurologist, VA Salt Lake City Health Care System
Salt Lake City, UT
Specialty: Autoimmune neurology, neuroimmunology

STEVEN GALETTA, MD, FAAN
EDITOR, DISPUTES & DEBATES
NYU School of Medicine
Department of Neurology
NY, NY
Specialties: Neuro-ophthalmology, idiopathic intracranial hypertension, multiple sclerosis, nystagmus, ocular motility, optic nerve, optic neuritis, visual fields, visual loss

ARAVIND GANESH, MD, Dphil (OXON), FRCP・
DEPUTY EDITOR, DISPUTES & DEBATES
Department of Clinical Neurosciences
Calgary, Alberta, CANADA
Specialties: Vascular and cognitive neurology

LUDWIG GUTMANN, MD, FAAN
SENIOR CONSULTING EDITOR, Humanities in Neurology
Department of Neurology
University of Iowa Hospitals and Clinics
Neuromuscular Medicine
Clinical Neurophysiology
Professor of Neurology
University of Iowa
Iowa City, IA
Specialties: Neuromuscular diseases, EMG/NCS, myopathies, neuropathies, ALS, neuromuscular junction disorders

JONATHAN P. HOSEY, MD, FAAN
EDITOR, Supplements
St. Luke’s Neurology Associates
Fountain Hill, PA
Specialty: Vascular neurology
<table>
<thead>
<tr>
<th>Section Editors</th>
<th>Neurology</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEVEN KARCESKI, MD</td>
<td></td>
</tr>
<tr>
<td>EDITOR, Patient Page</td>
<td></td>
</tr>
<tr>
<td>Cornell Comprehensive</td>
<td></td>
</tr>
<tr>
<td>Epilepsy Center</td>
<td></td>
</tr>
<tr>
<td>Weill Cornell Medical</td>
<td></td>
</tr>
<tr>
<td>College</td>
<td></td>
</tr>
<tr>
<td>New York, NY</td>
<td></td>
</tr>
<tr>
<td>Specialties: Epilepsy,</td>
<td></td>
</tr>
<tr>
<td>EEG, diagnostics</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ADAM G. KELLY, MD, FAAN</td>
<td></td>
</tr>
<tr>
<td>EDITOR, CONTINUING</td>
<td></td>
</tr>
<tr>
<td>MEDICAL EDUCATION</td>
<td></td>
</tr>
<tr>
<td>University of Rochester</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology</td>
<td></td>
</tr>
<tr>
<td>Rochester, NY</td>
<td></td>
</tr>
<tr>
<td>Specialties: Cerebrovascular diseases, medical decision making, medical education</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>KEVIN A. KERBER, MD, MS</td>
<td></td>
</tr>
<tr>
<td>EDITOR, INNOVATIONS</td>
<td></td>
</tr>
<tr>
<td>IN CARE DELIVERY</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology</td>
<td></td>
</tr>
<tr>
<td>Ohio State University</td>
<td></td>
</tr>
<tr>
<td>Columbus, OH</td>
<td></td>
</tr>
<tr>
<td>Specialties: Health services research, neuro-otology</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>DAVID S. KNOPMAN, MD, FAAN</td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC INTEGRITY</td>
<td></td>
</tr>
<tr>
<td>ADVISOR</td>
<td></td>
</tr>
<tr>
<td>Mayo Clinic</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology</td>
<td></td>
</tr>
<tr>
<td>Rochester, MN</td>
<td></td>
</tr>
<tr>
<td>Specialties: Behavioral neurology/neuropsychology, cognitive disorders, clinical trials, epidemiology, neuropsychology, Alzheimer disease, dementia with Lewy bodies, executive function, frontotemporal dementia, vascular dementia</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ARIANE LEWIS, MD</td>
<td></td>
</tr>
<tr>
<td>DEPUTY EDITOR, DISPUTES &amp; DEBATES</td>
<td></td>
</tr>
<tr>
<td>NYU Langone Medical Center</td>
<td></td>
</tr>
<tr>
<td>New York, NY</td>
<td></td>
</tr>
<tr>
<td>Specialty: Neurocritical care</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>JONATHAN W. MINK, MD, PhD, FAAN</td>
<td></td>
</tr>
<tr>
<td>OMBUDSMAN</td>
<td></td>
</tr>
<tr>
<td>University of Rochester</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology</td>
<td></td>
</tr>
<tr>
<td>Rochester, NY</td>
<td></td>
</tr>
<tr>
<td>Specialties: Child neurology and movement disorders</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>HEIDI GEORGE MOAWAD, MD</td>
<td></td>
</tr>
<tr>
<td>EDITOR, Humanities in Neurology</td>
<td></td>
</tr>
<tr>
<td>Case Western Reserve University School of Medicine</td>
<td></td>
</tr>
<tr>
<td>Clinical Assistant Professor, Division of Medical Education</td>
<td></td>
</tr>
<tr>
<td>Brecksville, OH</td>
<td></td>
</tr>
<tr>
<td>Specialties: Patient education, medical communication, medical education, payment policy, professional development, neurodiversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>JAMES W.M. OWENS, JR., MD, PhD</td>
<td></td>
</tr>
<tr>
<td>EDITOR, CONTINUING</td>
<td></td>
</tr>
<tr>
<td>MEDICAL EDUCATION</td>
<td></td>
</tr>
<tr>
<td>University of Washington</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology</td>
<td></td>
</tr>
<tr>
<td>Seattle Children's Hospital</td>
<td></td>
</tr>
<tr>
<td>Seattle, WA</td>
<td></td>
</tr>
<tr>
<td>Specialties: Pediatric neurology, epilepsy, sleep medicine, medical education</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>JEFFREY B. RATLIFF, MD</td>
<td></td>
</tr>
<tr>
<td>DEPUTY EDITOR, PODCASTS</td>
<td></td>
</tr>
<tr>
<td>Thomas Jefferson University</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology</td>
<td></td>
</tr>
<tr>
<td>Philadelphia, PA</td>
<td></td>
</tr>
<tr>
<td>Specialties: Movement disorders, medical education</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>JAMES E. SIEGLER III, MD</td>
<td></td>
</tr>
<tr>
<td>DEPUTY EDITOR, DISPUTES &amp; DEBATES</td>
<td></td>
</tr>
<tr>
<td>Cooper Neurological Institute</td>
<td></td>
</tr>
<tr>
<td>Cooper University Hospital</td>
<td></td>
</tr>
<tr>
<td>Camden, NJ</td>
<td></td>
</tr>
<tr>
<td>Specialty: Vascular neurology</td>
<td></td>
</tr>
</tbody>
</table>
DAVID C. SPENCER, MD
EDITOR, Patient Page
Oregon Health & Science University
Department of Neurology
Portland, OR
Specialty: Epilepsy

ROY E. STROWD III, MD, MEd, MS, FAAN
EDITOR, RESIDENT & FELLOW SECTION
Wake Forest School of Medicine
Department of Neurology
Department of Internal Medicine, Section on Hematology & Oncology
Winston Salem, NC
Specialties: Neuro-oncology, primary brain tumors, leptomeningeal metastases, neurofibromatoses, medical education
ERIN L. ABNER, PhD, MPH
University of Kentucky
Department of Epidemiology
Sanders-Brown Center on Aging
Lexington, KY
Specialties: Neuroepidemiology, Clinical Trials, Biostatistics, Alzheimer’s disease

FEDERICA AGOSTA, MD, PhD
Vita-Salute San Raffaele University
Department of Neurology
San Raffaele Scientific Institute
Division of Neuroscience
Milan, ITALY
agosta.federica@hsr.it

ROGER L. ALBIN, MD
University of Michigan
Department of Neurology
Ann Arbor, MI
Specialties: Movement disorders, imaging, neuroanatomy, neurochemistry, neuropharmacology, essential tremor, Huntington disease, Parkinson disease, tics, trinucleotide repeat diseases

MEGAN ALCAUSKAS, MD
Real Time Neuromonitoring Associates
Nashville, TN
Specialties: Intraoperative neuromonitoring, spine, clinical neurophysiology, education

CARMEL ARMON, MD, MSc, MHS, FAAN
Loma Linda University School of Medicine
Loma Linda, California
Shamir (Assaf Harofeh) Medical Center
Tel Aviv University Faculty of Medicine Department of Neurology
Tel Aviv, ISRAEL
Specialties: ALS, neuroepidemiology, clinical trials, evidence-based medicine, inpatient neurology (including stroke, epilepsy, status epilepticus), neuroimaging, cognitive neurology

OLIVER BANDMANN, MD, PhD, FAAN
Sheffield Institute of Translational Neuroscience
University of Sheffield
Sheffield, UNITED KINGDOM
Specialties: Movement disorders, genetics, genomics, dystonia, Huntington disease, Parkinson disease, Tourette syndrome, pathogenesis

BRENDA BANWELL, MD, FRCP, FAAN
The Children’s Hospital of Philadelphia
Perelman School of Medicine
University of Pennsylvania
Philadelphia, PA
Specialties: Pediatric onset neuromuscular disease, pediatric multiple sclerosis

FREDERIK BARKHOFF, MD, PhD
Institutes of Neurology and Biomedical Engineering, UCL, London
Department of Radiology & Nuclear Medicine
Neuroscience Campus Amsterdam
VU University Medical Hospital Amsterdam, THE NETHERLANDS
Specialties: Neuroradiology, MRI, multiple sclerosis, dementia

MICHAL SCHNAIDER BEERI, PhD
Department of Psychiatry
Icahn School of Medicine at Mount Sinai
New York, NY
Joseph Sagol Neuroscience Center
Ramat Gan, ISRAEL
Specialties: Cognitive aging, neuropsychology

DAVID A. BENNETT, MD
Rush Alzheimer’s Disease Center
Robert C. Borwell Professor of Neurological Sciences
Chicago, IL
Specialties: Geriatric neurology, neurodegenerative disease, epidemiology, Alzheimer disease, dementia with Lewy bodies, gait disorders, intelligence, natural history, pathogenesis
WYATT P. BENSKEN, BS
Case Western Reserve University
Department of Population and Quantitative Health Sciences
Cleveland, OH
Specialties: Epilepsy, comorbidities, social determinants of health, biostatistics, epidemiology, population health, health services research

ANNE T. BERG, PhD
Ann & Robert H. Lurie Children’s Hospital of Chicago
Northwestern University
Feinberg School of Medicine
Chicago, IL
Specialties: Epidemiology, epilepsy

ANDREA BERNASCONI, MD
Montreal Neurological Institute
Montreal, Quebec, CANADA
Specialties: Epilepsy, imaging of epilepsy

ANNA BERSANO, MD, PhD
Fondazione IRCCS Istituto Neurologico Carlo Besta
Cerebrovascular Unit
Milan, ITALY
Specialties: Cerebrovascular diseases, stroke, CADASIL, heritable form of cerebrovascular diseases, moyamoya arteriopathy, cerebral amyloid angiopathy

LAUREN A. BESLOW, MD, MSCE
Children’s Hospital of Philadelphia
Division of Neurology
Perelman School of Medicine at the University of Pennsylvania
Departments of Neurology and Pediatrics
Neuromuscular Reference
Specialties: Pediatric stroke, pediatric neurocritical care consultation, general child neurology

GÉRARD N BISCHOF, PhD, MSc
University Hospital of Cologne at University of Cologne, Germany
Department of Nuclear Medicine
Cologne, GERMANY
Specialties: Molecular imaging of Alzheimer’s disease, multimodal imaging of neurodegeneration and aging

DENNIS BOURDETTE, MD, FAAN
Oregon Health & Science University
Department of Neurology
Portland, OR
Specialties: Multiple sclerosis, neuroimmunologic diseases, demyelinating disease

AMY BRODTMANN, MD, PhD, FRACP
The Florey Institute for Neuroscience and Mental Health
Melbourne Dementia Research Centre
Austin Health, Eastern Health and Melbourne Health
Melbourne Brain Centre
Melbourne, AUSTRALIA
Specialties: Stroke, dementia, vascular cognitive impairment, cognitive neurology, frontotemporal dementia

JOHN C.M. BRUST, MD, FAAN
Columbia University Medical Center
New York Neurological Institute
New York, NY
Specialties: General neurology, headache, movement disorders, aphasia, apraxia, stroke, nutritional disorders, alcohol and substance abuse, coma, metabolic disorders, CNS infection, AIDS

RACHEL BUCKLEY, PhD
Massachusetts General Hospital/Department of Neurology
Boston, MA
Specialties: Sex differences in Alzheimer’s disease, preclinical Alzheimer’s disease, AD neuroimaging, AD biomarkers, cognitive aging
JOSEPH D. BURNS, MD
Tufts University School of Medicine
Division of Neurology
Lahey Hospital and Medical Center
Burlington, MA
Specialties: Neurocritical care, emergency neurology, vascular neurology, coma, neurology education

BRUCE C.V. CAMPBELL, PHD
Royal Melbourne Hospital
Department of Neurology
Parkville VIC, AUSTRALIA
Specialties: Stroke and stroke imaging

MAMEDE DE CARVALHO, MD, PhD
University of Lisbon
Faculty of Medicine-Instituto de Medicina Molecular
Department of Neurosciences and Mental Health – CHULN
Lisbon, SPAIN
Specialties: Clinical neurophysiology, electromyography, neuromuscular disorders, motor neuron disease polyneuropathies, amyloid neuropathies

FERNANDO CENDES, MD, PhD
University of Campinas–UNICAMP
Department of Neurology
Campinas, BRAZIL
Specialties: Imaging, functional imaging, anatomic imaging, epilepsy, EEG, partial seizures, epilepsy surgery

COLIN H. CHALK, MDCM, FRCPC
Department of Neurology & Neurosurgery
McGill University, Montreal General Hospital
Montreal, Quebec, CANADA
Specialties: Peripheral neuropathy, myasthenia gravis, medical education

DECLAN T. CHARD, MBBS, PhD, FRCPC
Department of Neuroinflammation
UCL Queen Square Institute of Neurology
London, UNITED KINGDOM
Specialties: Multiple sclerosis, neuroinflammation, neuroimaging

SEEMANT CHATURVEDI, MD, FAAN, FAHA
Greenebaum Endowed Professor of Neurology
University of Maryland School of Medicine
Baltimore, MD
Specialties: Vascular neurology, stroke, carotid stenosis, intracranial atherosclerosis, stroke in young adults

ROBERT CHEN, MA, MBBChir, MSc, FRCP
University of Toronto
Toronto Western Hospital
Toronto, Ontario, CANADA
Specialties: Movement disorders, neurophysicsology, motor control, transcranial magnetic stimulation, deep brain stimulation

CATHERINE D. CHONG, PhD
Department of Neurology and Biomedical Engineering
Mayo Clinic Arizona
Phoenix, AZ
Specialties: Migraine and post-traumatic headache, structural and functional brain imaging

KELVIN L. CHOU, MD, FAAN
University of Michigan
Department of Neurology
Ann Arbor, MI
Specialties: Deep brain stimulation, Parkinson’s disease, tremor, movement disorders
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANIEL O. CLAASSEN, MD, FAAN</td>
<td>Vanderbilt University Medical Center Department of Neurology</td>
<td>Movement disorders, neuroimaging, PET, dopamine, impulsivity, cognitive neuroscience</td>
</tr>
<tr>
<td>KRISTL G. CLAEYS, MD, PhD</td>
<td>University Hospitals Leuven Department of Neurology Neuromuscular Reference Center</td>
<td>Neuromuscular diseases, myopathies, muscular dystrophies, mitochondrial disorders, peripheral neuropathies, neurogenetics</td>
</tr>
<tr>
<td>FIONA COSTELLO, MD, FRCPC</td>
<td>University of Calgary Departments of Clinical Neurosciences and Surgery (Ophthalmology)</td>
<td>Neuro-ophthalmology, multiple sclerosis, biomarkers, neurodegeneration</td>
</tr>
<tr>
<td>AMY Z. CREPEAU, MD</td>
<td>Mayo Clinic Department of Neurology Division of Epilepsy</td>
<td>Epilepsy, clinical neurophysiology</td>
</tr>
<tr>
<td>CLAIRE J. CREUTZFELDT, MD</td>
<td>University of Washington Seattle, WA</td>
<td>Vascular neurology, neuropaalliative care</td>
</tr>
<tr>
<td>JEREMY K. CUTSFORTH-GREGORY, MD, FAAN</td>
<td>Mayo Clinic Department of Neurology Rochester, MN</td>
<td>CSF dynamics disorders, CSF leaks, idiopathic intracranial hypertension, hydrocephalus, autonomic disorders, medical education</td>
</tr>
<tr>
<td>FEZA DEYMEER, MD, MS (Epid)</td>
<td>Istanbul Medical Faculty Memorial Sisli Hospital Istanbul, TURKEY</td>
<td>Neuromuscular disorders</td>
</tr>
<tr>
<td>MARIANNE DIETERICH, MD, FANA, FEAN</td>
<td>Head of the Department of Neurology German Center for Vertigo and Balance Disorders Ludwig-Maximilians University, University Hospital, Munich Munchen, GERMANY</td>
<td>Imaging, CVR, pediatric stroke, moyamoya, arteriopathy, risk factors and outcomes</td>
</tr>
<tr>
<td>NOMAZULU DLMINI, MBBS, PhD</td>
<td>Associate Professor Pediatrics (Neurology) University of Toronto Director of Children’s Stroke Program</td>
<td>Imaging, CVR, pediatric stroke, moyamoya, arteriopathy, risk factors and outcomes</td>
</tr>
<tr>
<td>ARMAN ESHAGHI, MD, PhD</td>
<td>Queen Square Multiple Sclerosis Centre Centre for Medical Image Computing (CMIC) Department of Computer Science University College London London, UNITED KINGDOM</td>
<td>Machine learning, artificial intelligence applied to neuroimaging</td>
</tr>
</tbody>
</table>
Editorial Board • Neurology

ROBERT J. FOX, MD, FAAN
Mellen Center for Multiple Sclerosis
Cleveland Clinic
Cleveland, OH
Specialties: Multiple sclerosis and neuroimaging

ANSGAR J. FURST, MSc, PhD
Stanford University
School of Medicine
Depts. of Neurology & Neurological Sciences and Psychiatry & Behavioral Sciences, Stanford, CA; and
US Department of Veterans Affairs, Palo Alto
Palo Alto, CA
Specialties: Neuroimaging of traumatic brain injury and Alzheimer disease

STEVEN GALETTA, MD, FAAN
NYU School of Medicine
Department of Neurology
New York, NY
Specialties: Neuro-ophthalmology, idiopathic intracranial hypertension, multiple sclerosis, nystagmus, ocular motility, optic nerve, optic neuritis, visual fields, visual loss

M. MARIA GLYMOUR, ScD, MS
Department of Epidemiology and Biostatistics
University of California San Francisco
San Francisco, CA
Specialty: Epidemiology

ALICA M. GOLDMAN, MD, PhD, MS
Department of Neurology
Baylor College of Medicine
Associate Professor
Houston, TX
Specialties: Neurophysiology, epilepsy

NICOLE R. GONZALES, MD
Co-Director for Diversity, Equity and Inclusion
Professor, Department of Neurology
University of Colorado Anschutz Medical Campus
Aurora, CO
Specialty: Vascular neurology

REBECCA F. GOTTESMAN, MD, PhD
Johns Hopkins University
School of Medicine
Department of Neurology
Baltimore, MD
Specialties: Cardiovascular/stroke, epidemiology, vascular cognitive impairment, Alzheimer disease

JONATHAN GRAFF-RADFORD, MD
ASSISTANT EDITOR
Mayo Clinic
Department of Neurology
Rochester, MN
Specialties: Mild cognitive impairment, Alzheimer disease, frontotemporal dementia, vascular cognitive impairment, dementia with Lewy bodies

JENNIFER GRAVES, MD, PhD, MAS
ASSISTANT EDITOR
Associate Professor of Neurosciences
Director of the UCSD Neuroimmunology Research Program
Director Rady Children’s Pediatric MS Center
ACTRI
La Jolla, CA
Specialties: Multiple sclerosis, neuroimmunology, neuroophthalmology, epidemiology, genetics, digital health

WOLFGANG GRISOLD, MD, FAAN
Ludwig Boltzmann Institute for Experimental and Clinical Traumatology
Vienna, AUSTRIA
Specialties: Neuromuscular, neurooncology, advocacy, education, palliative care
MICHEL J. GROTHE, PhD
Instituto de Biomedicina de Sevilla (IBiS)
Movement Disorders Group
Campus Hospital Universitario Virgen del Rocio
Sevilla, SPAIN
Specialties: Neurodegenerative diseases, neuroimaging, dementia, Alzheimer’s disease, Parkinson’s disease, Lewy body dementia

RENZO GUERRINI, MD, FRCP, FAES
Children’s Hospital A. Meyer
University of Florence
Neuroscience Department
Florence, ITALY
Specialties: Pediatric epilepsy, genetics of epilepsy, neurophysiology of epilepsy, myoclonus, brain malformations, genetic malformations of cortical development

AMANDA C. GUIDON, MD
Department of Neurology,
Division of Neuromuscular Medicine
Director, MGH Myasthenia Gravis Clinic
Program Director, Partners Neuromuscular Medicine Fellowship
Massachusetts General Hospital
Boston, MA
Specialties: Neuromuscular and electrodiagnostic medicine, myasthenia gravis, neurologic complications of cancer immunotherapy

YAEL HACOHEN, MBBS, DPhil
Department of Neuroinflammation
QSMS Centre, UCL Institute of Neurology
10-12 Russell Square House
London, UNITED KINGDOM
Specialties: Pediatric neurology, autoimmune neurology, multiple sclerosis

NOAM Y. HAREL, MD, PhD
Neurology and Rehabilitation Medicine
Icahn School of Medicine at Mount Sinai
Investigator, Spinal Cord Damage Research Center
James J. Peters VA Medical Center
Bronx, NY
Specialties: Neurorehabilitation, spinal disorders

ADAM HARTMAN, MD, FAAN
National Institute of Neurological Disorders & Stroke
Neuroscience Center
Rockville, MD
Specialties: Pediatric neurology, epilepsy, ketogenic diet

BIRGIT HÖGL MD
Department of Neurology
Medical University of Innsbruck
Innsbruck, AUSTRIA

JASON H. HUANG, MD
Baylor Scott & White Medical Center
Department of Neurosurgery
Temple, Texas
Specialties: Neurotrauma, neurosurgery, traumatic brain injury, spinal cord injury, brain tumors, spine disorders

RACHAEL MAREE HUNTER, MSc
University College London,
Research Department of Primary Care and Population Health
Royal Free Medical School
London, UNITED KINGDOM
Specialties: Health economics, health services research

REBECCA ICHORD, MD
Perelman School of Medicine
University of Pennsylvania
Department of Neurology
Children’s Hospital of Philadelphia
Philadelphia, PA
Specialties: Child neurology, child stroke
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution and Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOEP KILLESTEIN, MD, PhD</td>
<td>Amsterdam University Medical Center, Department of Neurology, University of Amsterdam, THE NETHERLANDS (Specialties: Multiple sclerosis, progressive multifocal leukoencephalopathy, neuroimmunology, body fluid biomarkers)</td>
</tr>
<tr>
<td>CHRISTOPHER J. KLEIN, MD</td>
<td>Mayo Clinic, Peripheral Neuropathy Research Laboratory, Rochester, MN (Specialties: Genetics, neuropathy)</td>
</tr>
<tr>
<td>DAVID S. KNOPMAN, MD, FAAN</td>
<td>Mayo Clinic, Department of Neurology, Rochester, MN (Specialties: Behavioral neurology/neuropsychology, cognitive disorders, clinical trials, epidemiology, neuropsychology, Alzheimer disease, dementia with Lewy bodies, executive function, frontotemporal dementia, vascular dementia)</td>
</tr>
<tr>
<td>MIKKKA KORJA, MD, PhD</td>
<td>Helsinki University Hospital, Helsinki, FINLAND (Specialties: Artificial intelligence, convolutional neural network, intracranial aneurysm, machine learning, meningioma, subarachnoid hemorrhage)</td>
</tr>
<tr>
<td>VICTORIA M. LEAVITT, PhD, FAAN</td>
<td>Columbia University Irving Medical Center, Multiple Sclerosis Center, Department of Neurology, New York, NY (Specialties: Multiple sclerosis, neuropsychology, neuroimaging, cognitive impairment, mood, clinical trials)</td>
</tr>
<tr>
<td>MARK S. LEDOUX, MD, PhD, FAAN</td>
<td>University of Tennessee Health Science Center, Department of Neurology, University of Memphis, and Veracity Neuroscience LLC, Memphis, TN (Specialties: General neurology, movement disorders, neurogenetics)</td>
</tr>
<tr>
<td>ENRIQUE C. LEIRA, MD, MS</td>
<td>University of Iowa, Department of Neurology, Iowa City, IA (Specialties: Vascular neurology, stroke cerebrovascular diseases, epidemiology)</td>
</tr>
<tr>
<td>THABELE (BAY) LESLIE-MAZWI, MD</td>
<td>Mayo Clinic Jacksonville, Department of Neurology, Jacksonville, FL (Specialties: Neuroendovascular, neurologic critical care)</td>
</tr>
<tr>
<td>MICHELLE P LIN, MD, MPH</td>
<td>Mayo Clinic Jacksonville, Department of Neurology, Jacksonville, FL (Specialties: Vascular neurology)</td>
</tr>
<tr>
<td>RICHARD B. LIPTON, MD, FAAN</td>
<td>Albert Einstein College of Medicine, Bronx, NY (Specialties: Headache, health services, neurodegenerative disease, clinical trials, epidemiology, Alzheimer disease, migraine, tension headache)</td>
</tr>
</tbody>
</table>
ALBERTO LLEÓ, MD, PhD
Neurology Department
Hospital de la Santa Creu i Sant Pau
Barcelona, SPAIN
Specialties: Cognitive disorders, dementia

WARREN D. LO, MD
Nationwide Children’s Hospital
Columbus, OH
Specialities: Child neurology; pediatric stroke, infant rehabilitation

SVETLANA LORENZANO, MD, PhD, MSc
Department of Neurology and Psychiatry
Policlinico Umberto
Hospital Sapienza University of Rome
Rome, ITALY
Specialties: Stroke/vascular neurology; cerebrovascular diseases, acute stroke, acute ischemic stroke, intracerebral hemorrhage, thrombolysis, imaging, molecular biomarkers, translational research, clinical trials

DOROTHÉE LULÉ, Dr. rer. nat., PhD
Neuropsychology, Department of Neurology, RKU, Ulm University
Ulm, GERMANY
Specialties: Neuropsychology, cognitive and behavioral neurology, motor neuron disease, fMRI, quality of life, medical decision making, brain-computer interfaces

TRACY E. MADSEN, MD, ScM, FAHA, FACEP
Alpert Medical School of Brown University/Brown Emergency Medicine
Department of Emergency Medicine
Providence, RI
Specialties: Sex and gender differences in stroke, stroke epidemiology, acute stroke treatment, stroke prevention

ANDREW L. MAMMEN, MD, PhD
Muscle Disease Unit
Laboratory of Muscle Stem Cells and Gene Regulation
National Institute of Musculoskeletal and Skin Diseases
National Institutes of Health
Bethesda, MD
Speciality: Neuromuscular medicine

RUTH ANN MARRIE, MD, PhD
Departments of Internal Medicine and Community Health Sciences
University of Manitoba
Winnipeg, MB, CANADA
Specialties: Multiple sclerosis, epidemiology

KIMFORD J. MEADOR, MD, FAAN, FRCPE
Department of Neurology & Neurological Sciences
Stanford Neuroscience Health Center
Stanford University School of Medicine
Palo Alto, CA
Specialties: Behavioral neurology, neuropsychology, epilepsy, epilepsy surgery, epilepsy and pregnancy, neuropharmacology of cognition, neurophysiology of cognition, clinical neurophysiology, clinical trials, attention, consciousness, neglect syndrome

MICHELLE M. MIELKE, PhD
Mayo Clinic College of Medicine
Mayo Clinic
Rochester, MN

NISHANT K. MISHRA, MD, MBBS, PhD
Division of Stroke and Vascular Neurology
Department of Neurology
Yale University
New Haven, CT
Specialties: Cerebrovascular diseases
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution and Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth Mormino, PhD</td>
<td>Stanford, Neurology and Neurological Sciences, Preclinical AD, cognitive aging, PET, MRI</td>
</tr>
<tr>
<td>Elena Moro, MD, PhD, FEAN, FAAN</td>
<td>CHU of Grenoble, Grenoble Alpes University, Movement disorders</td>
</tr>
<tr>
<td>Nicholas A. Morris, MD</td>
<td>University of Maryland Medical Center, Movement disorders</td>
</tr>
<tr>
<td>Nils Muhlert, PhD</td>
<td>University of Manchester School of Psychological Sciences, Multiple sclerosis, cognition, neuropsychology, MRI</td>
</tr>
<tr>
<td>Serena L. Orr, MD, MSc</td>
<td>University of Calgary, Pediatric neurology, headache disorders, randomized controlled trials</td>
</tr>
<tr>
<td>Maryam Oskoui, MD, MSc, FRCP, FAAN</td>
<td>McGill University Health Centre, Montreal Children's Hospital, Neuromuscular, pediatric neurology, epidemiology</td>
</tr>
<tr>
<td>Leonardo Pantoni, MD, PhD</td>
<td>Department of Biomedical and Clinical Sciences, Dementia, cognitive impairment, stroke, small vessel disease, post-stroke dementia, CADASIL and genetic forms of small vessel disease</td>
</tr>
<tr>
<td>Melissa Shuman Paretsky, PhD</td>
<td>Brain Injury Research Center, Neuropsychology, rehabilitation, traumatic brain injury, cognitive disorders, neurodegenerative disease, sleep/fatigue</td>
</tr>
<tr>
<td>Lucilla Parnetti, MD, PhD</td>
<td>University of Perugia, Italy, Alzheimer's disease, Parkinson's disease, cerebrospinal fluid biomarkers</td>
</tr>
<tr>
<td>Name</td>
<td>Title/Institution</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PHILLIP L. PEARL, MD, FAAN</td>
<td>Boston Children’s Hospital Harvard Medical School Boston, MA</td>
</tr>
<tr>
<td>TONI S. PEARSON, MD</td>
<td>Department of Neurology Washington University School of Medicine St. Louis, MO</td>
</tr>
<tr>
<td>SARAH T. PENDLEBURY MA</td>
<td>University of Oxford Wolfson Centre for Prevention of Stroke and Dementia Oxford, UNITED KINGDOM</td>
</tr>
<tr>
<td>JOEL S. PERLMUTTER, MD, FAAN</td>
<td>Washington University School of Medicine Department of Neurology St. Louis, MO</td>
</tr>
<tr>
<td>ANNA RANTA, MD, PhD, FRACP, FAHA, FWSO, FAAN</td>
<td>Department of Medicine University of Otago, Wellington Wellington South, NEW ZEALAND</td>
</tr>
<tr>
<td>KATHRYN M. REXRODE, MD, MPH</td>
<td>Chief, Division of Women’s Health Department of Medicine Brigham and Women’s Hospital Associate Professor of Medicine, Harvard Medical School</td>
</tr>
<tr>
<td>MARIA A. ROCCA, MD</td>
<td>Vita-Salute San Raffaele University Neuroimaging of CNS White Matter Unit Division of Neuroscience San Raffaele Scientific Institute Milan, ITALY</td>
</tr>
<tr>
<td>LEONARDO ROEVER, PhD</td>
<td>Department of Clinical Research Federal University of Uberlândia - UFU</td>
</tr>
<tr>
<td>PEGGY J. PLANETTA, PhD</td>
<td>Toronto, ON, CANADA</td>
</tr>
<tr>
<td>ANNA RANTA, MD, PhD, FRACP, FAHA, FWSO, FAAN</td>
<td>Department of Medicine University of Otago, Wellington Wellington South, NEW ZEALAND</td>
</tr>
<tr>
<td>KATHRYN M. REXRODE, MD, MPH</td>
<td>Chief, Division of Women’s Health Department of Medicine Brigham and Women’s Hospital Associate Professor of Medicine, Harvard Medical School</td>
</tr>
<tr>
<td>MARIA A. ROCCA, MD</td>
<td>Vita-Salute San Raffaele University Neuroimaging of CNS White Matter Unit Division of Neuroscience San Raffaele Scientific Institute Milan, ITALY</td>
</tr>
<tr>
<td>LEONARDO ROEVER, PhD</td>
<td>Department of Clinical Research Federal University of Uberlândia - UFU</td>
</tr>
<tr>
<td>ÀLEX ROVIRA MD</td>
<td>Section of Neuroradiology Department of Radiology University Hospital Vall d’Hebron Barcelona, SPAIN</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>MARIA SABATER-LEAL, PhD</td>
<td>Sant Pau Biomedical Research Institute (IIB Sant Pau)</td>
</tr>
<tr>
<td>SIMONA SACCO, MD</td>
<td>University of L’Aquila</td>
</tr>
<tr>
<td>AMBER SALTER, PhD</td>
<td>UT Southwestern Medical Center, Department of Neurology, Section on Statistical Planning and Analysis</td>
</tr>
<tr>
<td>ELSE CHARLOTTE SANDSET, MD</td>
<td>Oslo University Hospital Ullevål Department of Neurology Stroke Unit</td>
</tr>
<tr>
<td>ROCÍO CAROLINA GARCÍA SANTIBÁÑEZ, MD</td>
<td>Department of Neurology Neurovascular Division Emory University School of Medicine Atlanta, GA</td>
</tr>
<tr>
<td>RODOLFO SAVICA, MD, PhD, FAAN</td>
<td>Mayo Clinic Department of Neurology Rochester, MN</td>
</tr>
<tr>
<td>INGRID E. SCHEFFER, AO, MBBS, PhD, fracp</td>
<td>Florey Institute University of Melbourne Austin Health and Royal Children's Hospital Melbourne, AUSTRALIA</td>
</tr>
<tr>
<td>MENNO M. SCHOONHEIM, PhD</td>
<td>Amsterdam UMC MS Center Amsterdam Department of Anatomy and Neurosciences Amsterdam, THE NETHERLANDS</td>
</tr>
<tr>
<td>HITOSHI SHINOTOH, MD, PhD, FAAN</td>
<td>Neurology Clinic Chiba Chiba, JAPAN</td>
</tr>
</tbody>
</table>
ELIZABETH SILBERMANN, MD
Neurology, Oregon Health & Science University
Portland VA
Portland, OR
Specialties: Neuroimmunology

BETH E. SNITZ, PhD
Department of Neurology
University of Pittsburgh
3501 Forbes Avenue
Suite 830
Pittsburgh, PA
Specialties: Neuropsychology, Alzheimer’s disease and related dementias, cognitive aging, neuropsychology

MARIA PIA SORMANI, PhD
Department of Health Sciences
University of Genoa
Genoa, ITALY
Specialties: Multiple sclerosis, biostatistics, clinical trials

JAIME LYNN SPEISER, PhD, MS
Department of Biostatistics and Data Science
Wake Forest School of Medicine
Winston-Salem, NC
Specialties: Biostatistics, machine learning, prediction modeling

LUCIANO A. SPOSATO, MD, MBA, FRCP
Professor of Neurology
Department of Clinical Neurological Sciences
University Hospital London Health Sciences Centre
The Western Ontario University
London, ON, CANADA
Specialties: Neurocardiology, cardioembolic stroke, atrial fibrillation, stroke prevention

MICHAEL STRUPP, MD, FRCP, FAAN, FANA, FEAN
Department of Neurology and German Center for Vertigo and Balance Disorders
Ludwig Maximilians University, Munich
Munich, GERMANY
Specialties: Vertigo, dizziness, balance disorders, gait disorders, neuro-otology, neuro-ophthalmology, nystagmus, downbeat nystagmus, cerebellar ataxia, pharmacotherapy, post-lumbar puncture headache

RAWAN TARAWEH, MD
Assistant Editor- Cognitive Portfolio
Associate Professor of Neurology
Department of Neurology
UNM-Alzheimer Disease Research Center
The University of New Mexico
Albuquerque, NM
Specialties: Cognitive and behavioral neurology, biomarker discovery

LIU LIN THIO, MD, PhD
Washington University School of Medicine
Department of Neurology
St. Louis, MD
Specialties: Pediatric neurology, pediatric epilepsy, epilepsy surgery, EEG, ketogenic diet, cellular neurophysiology

MAJDA M. THURNHER, MD
Medical University Vienna
Department of Biomedical Imaging and Image-guided Therapy
Section of Neuroradiology and Musculoskeletal Radiology
Vienna, AUSTRIA
Specialties: Neuroangiography, infections, demyelinating diseases, spine, brain tumors

CARMEN TUR, MD, MSc, PhD
Vall d’Hebron Institute of Research
Multiple sclerosis centre of Catalonia (Cemcat), Neurosciences Research Area
Vall d’Hebron Barcelona Hospital Campus
Barcelona, SPAIN
Specialties: Multiple sclerosis, demyelinating disorders, statistics, clinical trials, neuroimaging, disease-modifying treatment
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>J.A. Van Gerpem, MD</td>
<td>University of Alabama at Birmingham</td>
<td>Gait disorders, Parkinsonism, chorea, myoclonus, dystonia, neurogenetics, clinical neurophysiology, botulinum toxin</td>
</tr>
<tr>
<td>Juliana H. Vanderpluym, MD</td>
<td>Mayo Clinic Arizona Department of Neurology Division of Headache Scottsdale, AZ</td>
<td>Headache medicine, pediatric neurology, migraine, trigeminal autonomic cephalalgias, concussion, health disparities</td>
</tr>
<tr>
<td>Angela Vincent, Frcpath</td>
<td>Nuffield Department of Clinical Neurosciences John Radcliffe Hospital Oxford, United Kingdom</td>
<td>Antibody-mediated neurological disorders</td>
</tr>
<tr>
<td>Francois J.G. Vingerhoets, MD</td>
<td>Service de Neurologie (BH13) Lausanne, Switzerland</td>
<td>Movement disorders</td>
</tr>
<tr>
<td>Katja E. Wartenberg, MD, PhD</td>
<td>Neurocritical Care and Stroke Unit Department of Neurology University of Leipzig Leipzig, Germany</td>
<td>Neurocritical care</td>
</tr>
<tr>
<td>Nicole I. Wolf, MD, PhD</td>
<td>Amsterdam University Medical Centers Dept of Child Neurology Amsterdam, The Netherlands</td>
<td>Child neurology, leukodystrophies, neurogenetics, neurometabolic disorders, MRI</td>
</tr>
<tr>
<td>Courtney J. Wusthoff, MD, MS</td>
<td>Associate Professor of Neurology &amp; Neurological Sciences And by courtesy, Pediatrics-Neonatal Medicine Director of Neurocritical Care Neurology Director, LPCH Neuro NICU Stanford Division of Child Neurology Stanford School of Medicine Lucile Packard Children's Hospital Palo Alto, CA</td>
<td>Child neurology, demyelination, inflammatory brain disease, multiple sclerosis, ADEM, optic neuritis, transverse myelitis</td>
</tr>
<tr>
<td>E. Ann Yeh, MD</td>
<td>University Hospital for Sick Children Division of Neurology Toronto, ON, Canada</td>
<td>Multiple sclerosis, ADEM, optic neuritis, transverse myelitis</td>
</tr>
<tr>
<td>Chen Zhao, MD, MS, MA</td>
<td>Assistant Professor of Neurology and Public Health Sciences Penn State Milton S. Hershey Medical Center</td>
<td>Behavioral neurology, neurodegenerative diseases, neuroepidemiology</td>
</tr>
</tbody>
</table>
JOHN J. HALPERIN, MD, FAAN
Overlook Medical Center
Department of Neurosciences
Summit, NJ
Specialties: Neuroinfectious diseases, neuroimmunology, neuromuscular disease, evidence-based medicine

JASON LAZAROU, MD, FRCPC
Mount Sinai Hospital
Toronto, Ontario, CANADA
Specialties: General neurology, EMG and NCS, EEG

STEVEN R. MESSÉ, MD, FAAN
Division of Stroke and Neurocritical Care
Hospitals of the University of Pennsylvania
Department of Neurology
Philadelphia, PA
Specialty: Vascular neurology

PUSHPA NARAYANASWAMI, MBBS, DM, FAAN
Harvard Medical School/Beth Israel Deaconess Medical Center
Department of Neurology
Boston, MA
Specialties: Neuromuscular disorders and health services

SONJA POTREBIC, MD, PhD, FAAN
Department of Neurology
Southern California Permanente Medical Group
Los Angeles, CA
Specialties: Headache

TAMARA PRINGSHEIM, MD, FRCP, FAAN
Professor, University of Calgary
Department of Clinical Neurosciences, Psychiatry, Pediatrics and Community Health Sciences
Program Lead, Tourette and Pediatric Movement Disorders
Mathison Centre for Mental Health Research and Education
Calgary AB, CANADA
Specialties: Pediatric movement disorders

Classification of Evidence Review Team • Neurology
SHASHANK AGARWAL, MD
NYU Langone Health - Brooklyn
Brooklyn, NY
Specialty: General adult neurology

RAPHAËL BERNARD-VALNET, MD, PhD
Centre Hospitalier Universitaire Vaudois
Service of Neurology, Department of Clinical Sciences
Lausanne, SWITZERLAND
Specialties: Multiple sclerosis, neuro-immunology, neuroinfectious diseases

MEHDI BOUSLAMA, MD
Department of Neurology
Emory University School of Medicine
Atlanta, GA
Specialties: Vascular neurology, intervention, neuroimaging, data analytics

SARAH BROOKER, MD, PhD
Northwestern University
Department of Neurology
Chicago, IL
Specialties: Movement disorders, neural stem cell research

GIANLUCA COSTAMAGNA, MD
Department of Neurology
University of Milan
Milan, ITALY
Specialties: Neuromuscular, motor neuron disease, translational research

ROY E. STROWD III, MD, ME4, MS, FAAN
EDITOR, RESIDENT & FELLOW SECTION
Wake Forest School of Medicine
Department of Neurology
Department of Internal Medicine, Section on Hematology & Oncology
Winston Salem, NC
Specialties: Neuro-oncology, primary brain tumors, leptomeningeal metastases, neurofibromatoses, medical education

WHITLEY AAMODT, MD, MPH
DEPUTY EDITOR, RESIDENT & FELLOW SECTION
University of Pennsylvania
Department of Neurology
Philadelphia, PA
Specialties: Movement disorders, health services research, medical education
Resident & Fellow Section Editors

**Neurology**

### ISABELLA FERANDO, MD, PhD
University of Miami Miller School of Medicine
Department of Neurology
Miami, FL
Specialties: Epilepsy

### KATHERINE FU, MD
Department of Neurology
University of California, Los Angeles
Los Angeles, CA
Specialties: Neurology, movement disorders

### GALINA GHEIHMAN, MD
Departments of Neurology
Massachusetts General Hospital and Brigham & Women’s Hospital
Boston, MA
Specialties: Adult neurology, general neurology

### KATRINA HANNAH D. IGNACIO, MD
Department of Neurosciences
University of the Philippines - Philippine General Hospital
Manila, PHILIPPINES
Specialty: Adult neurology

### SABA JAFARPOUR, MD
Child Neurology Resident PGY-4
Division of Neurology
Children’s Hospital Los Angeles
Los Angeles, CA

### ALEXANDRIA E. MELENDEZ-ZAIIDI, MD, PhD
Department of Pediatrics
Texas Children's Hospital
Baylor College of Medicine
Houston, TX
Specialty: Pediatric neurology

### NARA MIRIAM MICHAELSON MD, MS
NewYork-Presbyterian Hospital/Weill Cornell
Department of Neurology
New York, NY
Specialties: Multiple sclerosis & other inflammatory disorders of the CNS

### ALISA MO, MD, PhD
Department of Neurology
Boston Children’s Hospital
Boston, MA
Specialty: Pediatric neurology

### JODIE ROBERTS, MD, MSc
Department of Clinical Neurosciences
University of Calgary
Calgary, Alberta, CANADA
jrobert@ucalgary.ca

### JEFFREY RUSS, MD, PhD
Duke University
Pediatic Neurology
Durham, NC
Specialties: Child neurology; neonatal neurology
### Resident & Fellow Section Editors

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERIC L. STULBERG, MD, MPH</td>
<td>University of Utah</td>
<td>Salt Lake City, UT</td>
</tr>
<tr>
<td>DATTANAND (DATTA) SUDARSHANA, MD</td>
<td>University of California, San Francisco</td>
<td>San Francisco, CA</td>
</tr>
<tr>
<td>DANIEL TALMASOV, MD</td>
<td>Columbia University Medical Center</td>
<td>New York, NY</td>
</tr>
<tr>
<td>JOAQUIN A. VIZCARRA, MD</td>
<td>Emory University School of Medicine</td>
<td>Atlanta, GA</td>
</tr>
<tr>
<td>ADINA WISE, MD</td>
<td>Department of Neurology</td>
<td>New York, NY</td>
</tr>
<tr>
<td></td>
<td>Mount Sinai Beth Israel</td>
<td></td>
</tr>
</tbody>
</table>

**Specialties:** Adult neurology, movement disorders

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENISE J. XU, MD</td>
<td>Hospital of the University of Pennsylvania</td>
<td>Philadelphia, PA</td>
</tr>
</tbody>
</table>

---

*Neurology*
Vision

*Neurology® Clinical Practice* will be the premier peer-reviewed journal to improve patient outcomes in clinical neurology.

Mission

*Neurology: Clinical Practice* aims to help clinicians provide unbiased, high-quality care for all neurological patients. We prioritize papers that address quality, patient outcomes and practice-related topics.
Editorial Board • Neurology: Clinical Practice

MARTINA ABSINTA, MD, PhD
Institute of Experimental Neurology,
Division of Neuroscience,
San Raffaele Scientific Institute and Hospital,
Vita-Salute San Raffaele University
Milan, ITALY
Specialties: inflammatory diseases of the central nervous system, multiple sclerosis, neuroimaging, neuropathology

TARSO ADONI, MD, PhD, FAAN
University of São Paulo
Department of Neurology
São Paulo-SF, BRAZIL
Specialties: Neuroimmunology, multiple sclerosis, neuromyelitis optica, optic neuritis, myelitis, neuroarachnoiditis

AIESHA AHMED, MD, MBA
Department of Neurological Health at Spectrum Health
Professor, Department of Neurology & Ophthalmology
College of Human Medicine - Michigan State University
Grand Rapids, MI
Specialties: Neuromuscular diseases, myopathies, myasthenia gravis peripheral neuropathies, general neurology

ASHLEY ALEX, MD
Jacobs School of Medicine and Biomedical Sciences
University at Buffalo, The State University of New York
Williamsville, NY
Specialties: Headache medicine

FRANCESCA BAGNATO, MD, PhD
Vanderbilt University Medical Center
VA Medical Center TN Valley Healthcare System
Department of Neurology
Nashville TN
Specialty: Neuroimmunology

JAMES L. BERNAT, MD, FAAN
Geisel School of Medicine at Dartmouth and Dartmouth-Hitchcock Medical Center
Hanover, NH
Specialties: Bioethics, professional conduct and misconduct, coma and disorders of consciousness, brain death medicine, neurology education

JOSÉ BILLER, FACCP, FAAN
Loyola University Chicago
Department of Neurology
Maywood, IL
Specialties: Ischemic and hemorrhagic cerebrovascular diseases (children, adults), carotid artery disease, transient ischemic attacks, CNS vascular malformations, clinical trials in stroke, neurology of systemic diseases, acute care neurology/neurohospitalist medicine, headache medicine

TRACIE A. CALLER, MD, MPH, FAAN
Cheyenne Regional Medical Group
Cheyenne, WY
Specialties: Neurophysiology, preventive medicine, quality improvement & patient safety

TINA CHARWAY-FELLI, MD, PhD, FGCPs
President, African Academy of Neurology
Accra, GHANA
Specialties: General neurology, behavioral and cognitive neurology, neurodegenerative diseases, movement disorders

CALLI COOK, DNP, APRN, FNP-C, FAANP
Emory University
Neil Hodgson Woodruff School of Nursing
Emory Brain Health Center
Department of General Neurology
Atlanta, GA
Specialties: General neurology, headache, multiple sclerosis
TIMOTHY J COUNIHAN, MD, FRCP, FAAN
Department of Neurology,
Galway University Hospitals
Galway, IRELAND
Specialties: Movement disorders, education

NEHA S. DANGAYACH, MD, MSCR, FNCS, DCE'21
Neurocritical Care Division
Departments of Neurosurgery and Neurology
Mount Sinai Health System
Icahn School of Medicine at Mount Sinai
New York, NY
Specialties: Neurocritical care, stroke, intracerebral hemorrhage, subarachnoid hemorrhage systems of care, health services research, patient centered outcomes, implementation science

GUILLERMO DELGADO-GARCÍA, MD, MSc
Department of Clinical Neurosciences
Cumming School of Medicine
Calgary, AB, CANADA
Specialty: Epilepsy and EEG

MARC DISABELLA, DO
Child Neurology Department
Associate Professor of Pediatrics and Child Neurology
Program Director, Child Neurology Fellowship
Director, Headache Program
Medical Director, Neurology Education
Children’s National Hospital
George Washington University School of Medicine & Health Sciences
Washington, DC
Specialties: Headache, migraine, trigeminal autonomic cephalalgia, pseudotumor cerebri, education

IMA EBONG, MD, MS
Assistant Professor of Neurology
Director of Diversity and Inclusion
Department of Neurology
University of Kentucky
Department of Neurology
Lexington, KY
Specialties: Clinical neuropsychology, epilepsy, neuromuscular diseases, general neurology, ED in medicine

RAQUEL FARIAS-MOELLER, MD
Medical College of Wisconsin
Department of Neurology and Pediatrics
Division of Child Neurology
Children’s Wisconsin
Wauwatosa, WI
Specialties: Pediatric neurology, pediatric epilepsy, pediatric neurocritical care

GILLIAN L. GORDON PERUE, MBBS, DM, FAHA, FAAN
University of Miami, Miller School of Medicine, Miami FL
Assistant Professor, Vascular Neurology
Chief, Neurology, Jackson South Medical Center
Director, Stroke Program, Jackson South Medical Center
Chief, Neurology, Jackson West Medical Center
University of Miami Miller School of Medicine
Miami, FL
Specialties: Stroke, general neurology, neurohospitalist

LYELL K. JONES, Jr., MD, FAAN
Department of Neurology
Mayo Clinic, Rochester, MN
Rochester, MN
Specialties: Neuromuscular, EMGNCS, neurology education, health policy, health care economics

CHRISTINE KIM, MD
Department of Neurology
Division of Movement Disorders
Columbia University Irving Medical Center
New York, NY
Specialties: Parkinson’s disease, atypical parkinsonism, essential tremor, ataxia, dystonia

BARBARA S. KOPPEL, MD, FAAN
Department of Neurology
New York Medical College
New York, NY
Specialties: AIDS and CNS infections, epilepsy, illicit substance use, cocaine, alcohol and other neurotoxins, neurologic complications of vitamin deficiencies
<table>
<thead>
<tr>
<th>Name</th>
<th>Specialty</th>
</tr>
</thead>
<tbody>
<tr>
<td>GARY KUI-KAI LAU, MBBS, DPHIL (OXON), FRCP, FESO</td>
<td>stroke, vascular neurology</td>
</tr>
<tr>
<td>MACKENZIE P. LERARIO, MD, NYS CRPA/CPS-p</td>
<td>Vascular neurology, functional neurological disorders</td>
</tr>
<tr>
<td>HEIDI MOAWAD, MD</td>
<td>Patient education, patient care, education, CM, payment policy, health care policy, professional development</td>
</tr>
<tr>
<td>VIVEK NAMBIAR, MD, DM</td>
<td>Stroke neurology, post stroke auto immunity, vascular interventions for stroke</td>
</tr>
<tr>
<td>CASEY OLM-SHIPMAN, MD, MS</td>
<td>Neurocritical care, pediatric stroke, quality improvement, health systems science, patient safety, health disparities, value-based care</td>
</tr>
<tr>
<td>VICTORIA S. PELAK, MD, FAAN</td>
<td>Neuro-ophthalmology, Neuro-ophthalmology Fellowship</td>
</tr>
<tr>
<td>TAMARA PRINGSHEIM, MD, MSc</td>
<td>Movement disorders, neuropsychiatry/neurology and mental health, headache</td>
</tr>
<tr>
<td>AMY A. PRUITT, MD, FAAN</td>
<td>Neuro-oncology, complications of solid organ and hematopoietic cell transplantation, neuro-infectious diseases, neurological complications of medical illnesses</td>
</tr>
<tr>
<td>TERRY ROLAN, MD</td>
<td>Movement disorders, traumatic brain injury, neurotoxicology, sports neurology, neurology, and medicine in austere environments</td>
</tr>
</tbody>
</table>
ANURADHA SINGH, MD
Mount Sinai Health System, Department of Neurology
New York, NY
Specialties: Epilepsy, epilepsy surgery, neuromodulation, epilepsy/EEG education

CHRISTOPHER G. TAROLLI, MD, MSEd
University of Rochester Medical Center
Department of Neurology
Rochester, NY
Specialties: Movement disorders, deep brain stimulation, neurology education, neuropalliative care

ZACHARY D. THRELKELD, MD
Division of Neurocritical Care
Department of Neurology & Neurological Sciences
Stanford University School of Medicine
Palo Alto, CA
Specialties: Neurocritical care, disorders of consciousness, traumatic brain injury

MAURICIO F. VILLAMAR, MD, FACNS
Department of Neurology
The Warren Alpert Medical School of Brown University
Kent Hospital
Warwick, RI
Specialties: Epilepsy, clinical neurophysiology, neurohospitalist

LAKSHMI WARRIOR MD, MPH, FAAN
Cook County Health, Division of Neurology
Chicago, IL
Specialties: General neurology

TISSA WIJERATNE, MD, FRACP, FAAN
Neurology University of Rajarata, Sri Lanka
University of Melbourne
Stroke Unit and Research Unit
Department of Neurology
Western Hospital
Melbourne, AUSTRALIA
Specialties: Advocacy, global issues in clinical practice, neurology education, stroke in the developing world, TIA, movement disorders, pain, stroke/vascular neurology, clinical trials, education, epidemiology, Parkinson disease, stroke in young adults
Vision

Neurology® Neuroimmunology & Neuroinflammation will be the premier peer-reviewed journal in the fields of neuroimmunology and neuroinflammation.

Mission

Neurology: Neuroimmunology & Neuroinflammation will provide neurologists and clinical research scientists with outstanding peer-reviewed articles, editorials, and reviews to enhance patient care and facilitate basic and translational research.
Associate Editors

DENNIS KOLSON, MS, MD, PhD
University of Pennsylvania
Department of Neurology
280C Clinical Research Bldg.
Philadelphia, PA

Specialty: Neurology; neurological complications of HIV and SARS CoV2

FRIEDEMANN PAUL, MD
Charité University Medicine Berlin
NeuroCure Clinical Research Center and Experimental and Clinical Research Center, Max Delbrueck Center for Molecular Medicine and Charité – University Medicine Berlin
Berlin, GERMANY

Specialties: Neuroimmunology, multiple sclerosis, neuromyelitis optica, neuroimaging, optical coherence tomography

MARINOS C. DALAKAS, MD, FAAN
Professor of Neurology (endowed Chair)
Director, Neuromuscular Division
Thomas Jefferson University
Philadelphia, PA

Specialties: Neuromuscular disorders, autoimmune neurology, immunotherapies

RAQUEL SANCHEZ-VALLE, MD, PhD
Alzheimer’s disease and other cognitive disorders group
Neurology Service
Hospital Clinic de Barcelona, IDIBAPS, University of Barcelona
Barcelona, SPAIN

Specialties: Cognitive disorders, neurodegenerative diseases, dementia
Editorial Board

Neurology: Neuroimmunology & Neuroinflammation

SERGIO BARANZINI, PhD
Department of Neurology
University of California
San Francisco, CA
Specialties: Multiple sclerosis, genomics, systems biology, bioinformatics, immunology

SUSANNE BENSELER, MD, PhD
Pediatric Rheumatology
Alberta Children's Hospital
Calgary, AB, CANADA
Specialties: Childhood inflammatory brain diseases, vascular stroke, immunotherapy, CNS vasculitis, rare diseases research methodology

JEFFREY L. BENNETT, MD, PhD, FAAN
University of Colorado Denver
Department of Neurology
Aurora, CO
Specialties: Neuroimmunology, neuromyelitis optica, multiple sclerosis, B cell immunology, neuro-ophthalmology

SÉVERINE BOILLÉE, PhD
INSERM U1127
UPMC Sorbonne Universities
ICM Institute
Paris, FRANCE
Specialties: ALS, motor neuron degeneration, microglia

RILEY BOVE, MD MMSc
UCSF Weill Institute for Neurosciences
Department of Neurology
University of California, San Francisco
San Francisco, CA
Specialties: Multiple sclerosis, neuroimmunology, women's neurology, digital health

ALEXANDER U. BRANDT, MD
University of California, Irvine
Department of Neurology
Division of Neuroimmunology and Multiple Sclerosis
Orange, CA
Specialties: Neuroimmunology, multiple sclerosis, neuromyelitis optica spectrum disorders, neuroimaging, retinal imaging

CHIARA BRIANI, MD
University of Padova
Padova, ITALY
Specialties: Neuroimmunology, neuromuscular, neuro- oncology, chronic inflammatory demyelinating polyneuropathy, gammapathy neuropathy, Guillain-Barre syndrome, lymphoma, neuropathic pain, peripheral neuropathy, sarcoid

FABIENNE BRILLOT, PhD
University of Sydney
Faculty of Medicine and Health
School of Medical Sciences
Brain Autoimmunity Group
Kids Neuroscience Centre
Kids Research at the Children’s Hospital at Westmead
Westmead (Sydney), AUSTRALIA
Specialties: Antibody-associated disorders, demyelinating disorders, MOG Ab-associated disease, antibodies, T cells

MATTHIS C. BROUWER, MD, PhD
Department of Neurology
Academic Medical Center
Amsterdam, THE NETHERLANDS
Specialties: Neurologic infectious diseases, bacterial meningitis, brain abscess, HIV, encephalitis

WOLFGANG BRÜCK, MD
University Medical Center Göttingen
Göttingen, GERMANY
Specialties: Multiple sclerosis and other neuroinflammatory disorders
STACEY L. CLARDY, MD, PhD, FAAN
University of Utah Imaging and Neuroscience Center
Staff Neurologist, VA Salt Lake City Health Care System
Salt Lake City, UT
Specialty: Autoimmune neurology, neuroimmunology

DAVID B. CLIFFORD, MD, FAAN
Department of Neurology and Medicine Washington University, St. Louis
St. Louis, MO
Specialties: Neurologic infectious disease, neuropharmacology, HIV, PML, Alzheimer disease

ANNE HANEY CROSS, MD
Washington University School of Medicine
Department of Neurology / Neuroimmunology Section
Saint Louis, MO
Specialty: Neuroimmunology (multiple sclerosis, neuromyelitis optica, myelin oligodendrocyte glycoprotein antibody disease, CNS vasculitis)

RUSSELL C. DALE, MBChB, MRCP, PhD
The Children’s Hospital at Westmead
University of Sydney Clinical School
Westmead, AUSTRALIA
Specialties: Pediatric neuroimmunology, pediatric movement disorders

THOMAS G. FORSTHUBER, MD
University of Texas, San Antonio
San Antonio, TX
Specialties: Neuroimmunology, MS, EAE

KAZU FUJIHARA, MD
Department of Multiple Sclerosis Therapeutics
Fukushima Medical University School of Medicine
MS & NMO Center
Southern TOHOKU Research Institute for Neuroscience
Fukushima, JAPAN
Specialties: Neuroimmunology, neuromyelitis optica spectrum disorders, multiple sclerosis, autoimmune encephalitis

CHRISTIAN GEIS, MD
Jena University Hospital
Department of Neurology
Chair Translational Neuroimmunology
Jena, GERMANY
Specialties: Neuroimmunology, autoimmune CNS disorders, neurophysiology, antibody-mediated disorders, sepsis-associated encephalopathy, translational neuroscience

JEFFREY M. GELFAND, MD, MAS, FAAN
University of California, San Francisco
MS and Neuroinflammation Center, Division of Neuroimmunology and Gial Biology, Department of Neurology and Weill Institute for Neurosciences
San Francisco, CA
Specialties: Neuroinflammation, autoimmune neurology, neuroimmunology, multiple sclerosis, leukoencephalopathy, neurodegenerative disease, diagnostics, therapeutics, clinical research, clinical trials, medical education

SILVIA GINES PADROS, PhD
University of Barcelona
Department of Biomedical Science
Institute of Neuroscience
Barcelona, SPAIN
Specialties: Neurodegenerative diseases, Huntington’s Disease, synaptic and cognitive deficits, mitochondria, neuron-glia crosstalk

FRANCESC GRAUS, MD, PhD
Institut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Neuroimmunology Laboratory
Barcelona, SPAIN
Specialties: Neuro-oncology, paraneoplastic neurological disorders, autoimmune encephalitis
KERSTIN HELLWIG, MD
Department of Neurology, Katholisches Klinikum Bochum, St. Josef Hospital, Klinikum der Ruhr Universität Bochum, GERMANY
Specialties: Neuroimmunologic diseases, multiple sclerosis, NMOSD, MOGAD disease, myasthenia gravis, immune neuropathies, pregnancy

ROMANA HÖFTBERGER, MD
Professor of Neuropathology, Director of the Division of Neuropathology and Neurochemistry, Department of Neurology, Medical University of Vienna, Vienna, AUSTRIA
Specialties: Neuroimmunology, neuropathology

MATILDE INGLESE, MD, PhD
Division of Neuroimmunology and Neuroinfectious Diseases, Department of Neurology, Institute of Laboratory Medicine and Department of Neurology, Kiel, GERMANY
Specialties: Multiple sclerosis, neuromyelitis optica, neuroimmunology, clinical trials

TAKAHIRO IIZUKA, MD
Kitasato University School of Medicine, Department of Neurology, Sagamihara, JAPAN
Specialties: Neuroimmunology, autoimmune encephalitis, clinical research

LUISA KLOTZ, MD
University Hospital Muenster, Department of Neurology with Institute of Translational Neurology, Muenster, GERMANY
Specialties: Multiple sclerosis, neuromyelitis optica, neuroimmunology, flow cytometry, immunometabolism, immunotherapy, clinical trials

KRISTEN M. KRYSKO, MD, MAS, FRCPC
Staff Neurologist, St. Michael’s Hospital - Unity Health Toronto, Assistant Professor, University of Toronto, Investigator, Li Ka Shing Knowledge Institute, St. Michael’s Hospital Multiple Sclerosis Clinic, Toronto, Ontario, CANADA
Specialties: Multiple sclerosis, neuroimmunology, women’s health, pregnancy

ANNETTE M. LANGER-GOULD, MD, PhD
Southern California Permanente Medical Group/Kaiser Permanente, Department of Neurology, Los Angeles Medical Center, Los Angeles, CA
Specialties: Multiple sclerosis and related disorders, autoimmune encephalopathies, neuroepidemiology, health services research, specialty pharmaceuticals

FRANK LEYPOLDT, MD
University-Hospital Schleswig-Holstein and Kiel University Neuroimmunology, Institute of Laboratory Medicine and Department of Neurology, Kiel, GERMANY
Specialties: Autoimmune encephalitis, antibody-associated diseases in neurology, neuroimmunology, immune neuropathies

JENNY J. LINNOILA, MD, PhD
Division of Neuroimmunology and Neuroinfectious Diseases, Department of Neurology, Massachusetts General Hospital, Harvard Medical School, Boston, MA
Specialties: autoimmune neurology, paraneoplastic disorders, immune-mediated CNS disorders, post-infectious CNS disorders

ERIN LONGBRAKE, MD, PhD
Assistant Professor of Neurology, Yale University, New Haven, CT
Specialties: Neuroimmunology, autoimmune neurology, multiple sclerosis, clinical trials
LAWRENCE STEINMAN, MD, FAAN
Stanford University
School of Medicine
Department of Neurology and Neurological Sciences
Beckman Center for Molecular Medicine
Stanford, CA
Specialties: Inflammation, neuromyelitis optica, multiple sclerosis, pediatric

SILVIA N. TENEMBAUM, MD
National Pediatric Hospital
Dr. J.P. Garrahan
Department of Neurology
Combate de los Pozos 1881
Buenos Aires, ARGENTINA
Specialties: Pediatric neuroimmunology, multiple sclerosis, neuromyelitis optica spectrum disorders, ADEM, optic neuritis, pediatric neuroimaging

CHARLOTTE TEUNISSEN, PhD
Professor in Neurochemistry
Dept. Clinical Chemistry
VUmc
PK1 BR 141
Amsterdam, THE NETHERLANDS
Specialties: Neurochemistry, body fluid biomarkers, dementia, multiple sclerosis, biobanking, pre-analytics

MAARTEN J. TITULAER, MD, PhD
Erasmus University Medical Center
Department of Neurology
Rotterdam, THE NETHERLANDS
Specialties: Neuroimmunology, autoimmune and paraneoplastic encephalitis, neuromuscular junction disorders

ARI WAISMAN, MD
University Medical Center Mainz
Institute for Molecular Medicine
Mainz, GERMANY
Specialties: Autoimmunity, inflammation, multiple sclerosis, psoriasis, colitis, IL-17 and Th17, cytokine signaling and regulation, immune and glia cells, blood brain barrier

GREGORY WU, MD, PhD
Washington University
School of Medicine
Department of Neurology
St. Louis, MO
Specialties: Neuroimmunology, multiple sclerosis, experimental models of autoimmunity, optic neuritis
Vision

*Neurology® Genetics* will be the premier peer-reviewed journal in the field of neurogenetics.

Mission

*Neurology: Genetics* will provide neurologists and clinical research scientists with outstanding peer-reviewed articles, editorials, and reviews to elucidate the role of genetic and epigenetic variations in diseases and biological traits of the central and peripheral nervous systems.
Editors

STEFAN M. PULST, MD, FAAN
University of Utah
Department of Neurology
Salt Lake City, UT
Specialties: Genetics, movement disorders

MASSIMO PANDOLFO, MD, FAAN
Department of Neurology and Neurosurgery
McGill University
Lakeshore General Hospital
Pointe-Claire, Quebec, CANADA
Specialties: neurogenetics, ataxia, epilepsy

ALEXANDRA DURR, MD, PhD
Paris Brain Institute and Genetic Department, Salpêtrière
University Hospital
Paris, FRANCE
Specialties: Spastic paraplegia, Huntington disease, ataxia

SUMAN JAYADEV, MD
University of Washington Medicine Memory and Brain Wellness Center
Seattle, WA
Specialties: Neurodegeneration, neuroinflammation

MARGHERITA MILONE, MD, PhD, FAAN
Mayo Clinic
Department of Neurology
Rochester, MN
Specialties: Hereditary myopathies, congenital myasthenic syndromes, mitochondrial disorders and muscle pathology

RAYMOND P. ROOS, MD, FAAN
University of Chicago Medical Center
Chicago, IL
Specialties: Motor neuron disease, prion disease, neurovirology/neurommunology

Deputy Editor

ASSOCIATE EDITORS

ALEXANDRA DURR, MD, PhD
Paris Brain Institute and Genetic Department, Salpêtrière
University Hospital
Paris, FRANCE
Specialties: Spastic paraplegia, Huntington disease, ataxia

SUMAN JAYADEV, MD
University of Washington Medicine Memory and Brain Wellness Center
Seattle, WA
Specialties: Neurodegeneration, neuroinflammation

MARGHERITA MILONE, MD, PhD, FAAN
Mayo Clinic
Department of Neurology
Rochester, MN
Specialties: Hereditary myopathies, congenital myasthenic syndromes, mitochondrial disorders and muscle pathology

RAYMOND P. ROOS, MD, FAAN
University of Chicago Medical Center
Chicago, IL
Specialties: Motor neuron disease, prion disease, neurovirology/neurommunology
GIOVANNI COPPOLA, MD
Vice President, Neuroscience and Ophthalmology Genetics
Regeneron Genetics Center
Tarrytown, NY
Specialties: Genetics, genomics, neurodegeneration

LOUISE A. CORBEN, MSc PhD
Associate Professor, Bruce Lefroy Centre for Genetic Health Research
Murdoch Children’s Research Institute
The Royal Children’s Hospital
Parkville, Victoria, AUSTRALIA
Specialties: Cerebellar ataxia, Friedreich ataxia, cognitive neurosciences

CHANTAL DEPONDT, MD, PhD
Department of Neurology
Hôpital Erasme
Université Libre de Bruxelles
Brussels, BELGIUM
Specialties: Epilepsy, pharmacogenetics, ataxia, neurogenetics

ANTOINE DUGUETTE, MD, MSc, FRCP(C)
Assistant Clinical Professor
Department of Neurosciences
Faculty de médecine and Centre hospitalier de l’Université de Montréal
Montréal, Quebec, CANADA
Specialties: Ataxia, neurodegenerative diseases, movement disorders, atypical parkinsonism

BRENT L. FOGEL, MD, PhD, FAAN
David Geffen School of Medicine University of California
Los Angeles
UCLA Dept. of Neurology and Human Genetics
Los Angeles, CA
Specialties: Neurogenetics, genomics, cerebellar ataxia, spastic paraplegia, leukodystrophy, precision health
ALICA M. GOLDMAN, MD, PhD, MS
Department of Neurology
Baylor College of Medicine
Associate Professor
Houston, TX
Specialties: Neurophysiology, epilepsy

ANTHONY J. GRISWOLD, PhD
University of Miami Miller School of Medicine
Miami, FL
Specialties: Bioinformatics, developmental disorders, Alzheimer disease

ANDREA L. GROPMAN, MD, FAAP, FACMG, FANA
Professor (tenured) Pediatrics, Neurology, Genetics and Personalized Medicine
George Washington University Medical School and Health Sciences
Attending, Child Neurology, Children’s National Hospital
Washington, D.C.
Specialties: Child neurology, clinical genetics, biochemical genetics, developmental disabilities, neurogenetics

ORHUN H. KANTARCI, MD
Mayo Clinic
Department of Neurology
Rochester, MN
Specialties: Muscular dystrophies, mitochondrial disorders, and hereditary myopathies

JULIE R. KORENBERG, MD, PhD
University of Utah
Salt Lake City, UT
Specialties: Pediatrics, Down syndrome, Williams syndrome

CARLA MARINI, MD, PhD
Director of the Child Neurology and Psychiatric unit
Salesi Pediatric Hospital, United Hospitals of Ancona
Ancona, ITALY
Specialties: Child neurology, psychiatry, epilepsy

CATERINA MARIOTTI, MD
Fondazione IRCCS Istituto Neurologico Carlo Besta
Unit of Medical Genetics and Neurogenetics
Milano, ITALY
Specialties: Spinocerebellar ataxias, hereditary spastic paraplegia, Huntington disease

PAOLO MORETTI, MD
University of Utah
Department of Neurology
Chief, Division of Movement Disorders
Staff Physician, Neurology
SLC Veterans Administration Medical Center
Imaging and Neurosciences Center
Salt Lake City, UT
Specialties: Movement disorders, parkinsonism, tremor, chorea, dystonia, ataxia, spastic paraplegia, neurodegenerative diseases, cognitive disorders, intellectual disability, autism spectrum, neurogenetics, undiagnosed diseases

STEFAN NICOLAU, MD
Nationwide Children’s Hospital
Center for Gene Therapy
Columbus, OH
Specialties: Neuromuscular diseases, myopathies, muscular dystrophies

DAVIDE PAREYSON, MD
Rare Neurodegenerative and Neurometabolic Diseases Unit
Department of Clinical Neurosciences
IRCCS Foundation
C. Besta Neurological Institute
Milan, ITALY
Specialties: Inherited neuropathies, spinal and bulbar muscular atrophy, clinical neurogenetics
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gerald Pfeffer, MD, CM, FRCP, PhD</td>
<td>Assistant Professor, Hotchkiss Brain Institute, Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada</td>
<td>Neurogenetics, neuromuscular disease, mitochondrial disorders, muscular dystrophy, myopathy, genetic neuropathy, hereditary spastic paraplegia, genetic ataxia</td>
</tr>
<tr>
<td>Catarina Quinzii, MD</td>
<td>Columbia University, Department of Neurology, Division of Neuromuscular Medicine, New York, NY</td>
<td>Mitochondrial diseases, ceroid lipofuscinoses, neurogenetics</td>
</tr>
<tr>
<td>M. Elizabeth Ross, MD, PhD, FAAN</td>
<td>Weill Cornell Medicine, Center for Neurogenetics, New York, NY</td>
<td>Neurogenetics of structural birth defects, brain malformations, epilepsy, leukencephalopathies, MS, neurodegenerative diseases</td>
</tr>
<tr>
<td>Barbara Scelsa, MD</td>
<td>Department of Pediatric Neurology, Vittore Buzzi Children’s Hospital, Milan, Italy</td>
<td>Fetal and neonatal neurology, pediatric epilepsy</td>
</tr>
<tr>
<td>Gerald Pfeffer, MD, CM, FRCP, PhD</td>
<td>Hotchkiss Brain Institute, Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada</td>
<td>Neurogenetics, neuromuscular disease, mitochondrial disorders, muscular dystrophy, myopathy, genetic neuropathy, hereditary spastic paraplegia, genetic ataxia</td>
</tr>
<tr>
<td>Catarina Quinzii, MD</td>
<td>Columbia University, Department of Neurology, Division of Neuromuscular Medicine, New York, NY</td>
<td>Mitochondrial diseases, ceroid lipofuscinoses, neurogenetics</td>
</tr>
<tr>
<td>M. Elizabeth Ross, MD, PhD, FAAN</td>
<td>Weill Cornell Medicine, Center for Neurogenetics, New York, NY</td>
<td>Neurogenetics of structural birth defects, brain malformations, epilepsy, leukencephalopathies, MS, neurodegenerative diseases</td>
</tr>
<tr>
<td>Barbara Scelsa, MD</td>
<td>Department of Pediatric Neurology, Vittore Buzzi Children’s Hospital, Milan, Italy</td>
<td>Fetal and neonatal neurology, pediatric epilepsy</td>
</tr>
<tr>
<td>Gerald Pfeffer, MD, CM, FRCP, PhD</td>
<td>Hotchkiss Brain Institute, Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada</td>
<td>Neurogenetics, neuromuscular disease, mitochondrial disorders, muscular dystrophy, myopathy, genetic neuropathy, hereditary spastic paraplegia, genetic ataxia</td>
</tr>
<tr>
<td>Catarina Quinzii, MD</td>
<td>Columbia University, Department of Neurology, Division of Neuromuscular Medicine, New York, NY</td>
<td>Mitochondrial diseases, ceroid lipofuscinoses, neurogenetics</td>
</tr>
<tr>
<td>M. Elizabeth Ross, MD, PhD, FAAN</td>
<td>Weill Cornell Medicine, Center for Neurogenetics, New York, NY</td>
<td>Neurogenetics of structural birth defects, brain malformations, epilepsy, leukencephalopathies, MS, neurodegenerative diseases</td>
</tr>
<tr>
<td>Barbara Scelsa, MD</td>
<td>Department of Pediatric Neurology, Vittore Buzzi Children’s Hospital, Milan, Italy</td>
<td>Fetal and neonatal neurology, pediatric epilepsy</td>
</tr>
<tr>
<td>Gerald Pfeffer, MD, CM, FRCP, PhD</td>
<td>Hotchkiss Brain Institute, Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada</td>
<td>Neurogenetics, neuromuscular disease, mitochondrial disorders, muscular dystrophy, myopathy, genetic neuropathy, hereditary spastic paraplegia, genetic ataxia</td>
</tr>
<tr>
<td>Catarina Quinzii, MD</td>
<td>Columbia University, Department of Neurology, Division of Neuromuscular Medicine, New York, NY</td>
<td>Mitochondrial diseases, ceroid lipofuscinoses, neurogenetics</td>
</tr>
<tr>
<td>M. Elizabeth Ross, MD, PhD, FAAN</td>
<td>Weill Cornell Medicine, Center for Neurogenetics, New York, NY</td>
<td>Neurogenetics of structural birth defects, brain malformations, epilepsy, leukencephalopathies, MS, neurodegenerative diseases</td>
</tr>
<tr>
<td>Barbara Scelsa, MD</td>
<td>Department of Pediatric Neurology, Vittore Buzzi Children’s Hospital, Milan, Italy</td>
<td>Fetal and neonatal neurology, pediatric epilepsy</td>
</tr>
<tr>
<td>Gerald Pfeffer, MD, CM, FRCP, PhD</td>
<td>Hotchkiss Brain Institute, Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada</td>
<td>Neurogenetics, neuromuscular disease, mitochondrial disorders, muscular dystrophy, myopathy, genetic neuropathy, hereditary spastic paraplegia, genetic ataxia</td>
</tr>
<tr>
<td>Catarina Quinzii, MD</td>
<td>Columbia University, Department of Neurology, Division of Neuromuscular Medicine, New York, NY</td>
<td>Mitochondrial diseases, ceroid lipofuscinoses, neurogenetics</td>
</tr>
<tr>
<td>M. Elizabeth Ross, MD, PhD, FAAN</td>
<td>Weill Cornell Medicine, Center for Neurogenetics, New York, NY</td>
<td>Neurogenetics of structural birth defects, brain malformations, epilepsy, leukencephalopathies, MS, neurodegenerative diseases</td>
</tr>
<tr>
<td>Barbara Scelsa, MD</td>
<td>Department of Pediatric Neurology, Vittore Buzzi Children’s Hospital, Milan, Italy</td>
<td>Fetal and neonatal neurology, pediatric epilepsy</td>
</tr>
<tr>
<td>Gerald Pfeffer, MD, CM, FRCP, PhD</td>
<td>Hotchkiss Brain Institute, Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada</td>
<td>Neurogenetics, neuromuscular disease, mitochondrial disorders, muscular dystrophy, myopathy, genetic neuropathy, hereditary spastic paraplegia, genetic ataxia</td>
</tr>
<tr>
<td>Catarina Quinzii, MD</td>
<td>Columbia University, Department of Neurology, Division of Neuromuscular Medicine, New York, NY</td>
<td>Mitochondrial diseases, ceroid lipofuscinoses, neurogenetics</td>
</tr>
<tr>
<td>M. Elizabeth Ross, MD, PhD, FAAN</td>
<td>Weill Cornell Medicine, Center for Neurogenetics, New York, NY</td>
<td>Neurogenetics of structural birth defects, brain malformations, epilepsy, leukencephalopathies, MS, neurodegenerative diseases</td>
</tr>
</tbody>
</table>
JULIANE WINKELMANN, MD
Helmholtz Zentrum München
German Research Centre for Environmental Health
Director of the Institute for Neurogenomics
Neuherberg, GERMANY
Specialty: Neurogenomics

JUAN I. YOUNG, PhD
University of Miami
Department of Human Genetics
Miami, FL
Specialties: Epigenetics, pathophysiology, cognitive disorders, neurogenetics, Rett syndrome
Vision

Neurology® Education Education will be a premier peer-reviewed journal in the field of neurologic and neuroscience education research.

Mission

Neurology: Education will publish original research articles, reviews, and editorials on evidence-based teaching methods and curriculum innovations, and provide the academic community with a forum to exchange ideas that enhance neurologic and neuroscience teaching and training.
Editor

ROY E. STROWD III, MD, MED, MS, FAAN
Wake Forest School of Medicine
Department of Neurology
Department of Internal Medicine, Section on Hematology & Oncology
Winston Salem, NC

Specialties: Neuro-oncology, primary brain tumors, leptomeningeal metastases, neurofibromatoses, medical education
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>DARA VF ALBERT, DO, MEd</td>
<td>Nationwide Children’s Hospital/ The Ohio State University</td>
<td>Child neurology, epilepsy, clinical neurophysiology, psychogenic nonepileptic seizures (events), neurology education</td>
</tr>
<tr>
<td>MIYA BERNSON-LEUNG, MD, EdM</td>
<td>Boston Children’s Hospital Department of Neurology</td>
<td>Child neurology, pediatric stroke and cerebrovascular disorders, continuing professional development, graduate medical education, residency education</td>
</tr>
<tr>
<td>NICOLE CHIOTA-MCCOLLUM, MD, MEd</td>
<td>Penn Medicine Lancaster General Health</td>
<td>Acute ischemic stroke, vasculopathy, carotid disease, cerebral venous sinus thrombosis, neurologic education, learner assessment</td>
</tr>
<tr>
<td>ANDRES FERNANDEZ, MD, MSEd, FACNS</td>
<td>Department of Neurology Thomas Jefferson University</td>
<td>Electroencephalography, neurology education</td>
</tr>
<tr>
<td>CHRIS GILLETTE, PhD</td>
<td>Wake Forest School of Medicine Winston-Salem, NC</td>
<td>Study design, pharmacoepidemiology, medication utilization, pharmacoeconomics, provider-patient communication, statistical analysis</td>
</tr>
<tr>
<td>PEARCE KORB, MD, MHPE</td>
<td>Department of Neurology Virginia Commonwealth University Richmond, VA</td>
<td>Epilepsy, general neurology, hospital neurology, medical education, learning theory, qualitative methodology</td>
</tr>
<tr>
<td>DOUGLAS P. LARSEN, MD, MEd</td>
<td>Professor of Neurology &amp; Pediatrics Department of Neurology</td>
<td>Pediatric neurology, medical education</td>
</tr>
<tr>
<td>SHARON LEWIS, MD, FAAN, FCCP</td>
<td>University of Pennsylvania Philadelphia, PA</td>
<td>General neurology, neuromuscular</td>
</tr>
<tr>
<td>ZACHARY LONDON, MD FAAN</td>
<td>James W. Albers Collegiate Professor of Neurology Department of Neurology</td>
<td>Neuromuscular medicine, gamification, resident education, and technology</td>
</tr>
</tbody>
</table>

Specialties: Neuro-ophthalmology, idiopathic intracranial hypertension, multiple sclerosis, nystagmus, ocular motility, optic nerve, optic neuritis, visual fields, visual loss
JEREMY MOELLER, MD, MSc, FRCP, FAAN
Department of Neurology
Yale School of Medicine
New Haven, CT
Specialties: Clinical epilepsy, EEG, neurology education, clinical neurophysiology

GAURI V. PAWAR, MD, FAAN
Professor and Vice Chair for Education
Residency Program Director
WVU Dept of Neurology
Morgantown, WV
Tel: (304) 293-2342
Fax: (304) 293-7725
Specialties: General neurology, clinical neurophysiology, neuromuscular

RANA R. SAID, MD, FAAN
Professor of Pediatrics and Neurology
University of Texas Southwestern Medical Center
Children’s Health Dallas
Department of Pediatrics, Division of Neurology
Dallas, TX
Specialties: Multiple sclerosis, neuroimmunology, neuroophthalmology, epidemiology, genetics, digital health

RACHEL MARIE E. SALAS, MD, MEd, FAAN
Johns Hopkins School of Medicine
Baltimore, MD
Specialties: Medical education, health professions education, clerkship, interprofessional education, health systems science, sleep, insomnia, RLS, narcolepsy, circadian rhythm, sleep apnea

STEFANO SANDRONE, PhD
Department of Brain Sciences, Faculty of Medicine, Imperial College London
London, UNITED KINGDOM
Specialties: Neuroscience education, neurology education, medical education, neuroimaging, neuroplasticity, history of neurology, history of neuroscience

MADHU SONI, MD, FAAN
Department of Neurological Sciences
Rush University Medical Center
Chicago, IL
Specialties: Neuromuscular Disease

ANDREW M. SOUTHERLAND, MD, MSc, FAHA, FAAN
Departments of Neurology and Public Health Sciences
University of Virginia
Charlottesville, VA
Specialties: Stroke, cerebrovascular disease, clinical trials, neurology education, education research

STEPHEN SOZIO, MD, MHS, MEHP
Department of Medicine, Division of Nephrology, Johns Hopkins University School of Medicine
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Baltimore, MD
Specialties: Medical education, nephrology, epidemiology