



National Institute of
Neurological Disorders
and Stroke



National Institute of
Neurological Disorders and Stroke

R25 Grantee WORKSHOP

**R25 Research Education Program
for Residents and Fellows in
Neurological Disorders and Stroke**

MARCH 16–18, 2023

**Sandler Neurosciences Center, University of
California, San Francisco**

The banner features a dark blue background with a network of glowing blue lines and nodes, resembling a neural network or a complex data structure. The text is positioned in the upper right corner of the banner.

2023 NINDS R25 GRANTEE WORKSHOP

INTRODUCTION

SAN FRANCISCO, CA MARCH 16-18, 2023

This workshop brings together the participants (adult and pediatric neurologists, neurosurgeons, and neuropathologists) supported by the NINDS R25 to discuss the transition from residency and fellowship to successful competition for individual research career development awards. This workshop includes sessions that address issues relevant to all participants, as well as sessions that are individualized to each medical specialty. The workshop features presentations (lectures and panel discussions) from both junior and established researchers, including some who have recently transitioned to career development awards. Furthermore, in addition to providing many networking opportunities, all residents and fellows will present posters or presentations of their ongoing or planned research. This will allow participants to discuss their scientific work in-depth with both faculty and each other. Lastly, participants who submitted a specific aims page for their future intended grant application will have the opportunity to meet with faculty who will critique these aims.

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Security and Safety

All visitors must complete the UCSF screening form each day before entering the building. Please visit [UCSF Screening Form](#) and complete the form each day prior to entry. Please also note that **masking is required indoors** at the Sandler Neuroscience Center. Masks will be available at registration.

Please visit the meeting registration desk to check in and pick up your meeting name badge. Please **wear your name badge each day you attend the meeting** for security purposes.

The Venue

UCSF Sandler Neurosciences Center

675 Nelson Rising Lane
San Francisco, CA 94158

UCSF Joan and Sanford I. Weill Neurosciences Building

1651 4th St
San Francisco, CA 94158

Meals/Refreshments

Courtesy of American Neurological Association and Congress of Neurological Surgeons

Thursday: 5:00pm light refreshments
7:00pm pizza dinner

Friday: 7:00am breakfast
Light refreshments throughout the day
12:55pm lunch
5:00pm reception


Saturday: 7:00am breakfast
Light refreshments throughout the morning


Internet Access

The UCSF Sandler Neuroscience Center has free public Wi-Fi. Please connect to the “UCSF Guest” network. At the first connection you will need to agree to the terms of their usage.

Parking Information

The Sandler Neurosciences Center and The Weill Neurosciences Building are part of the UCSF Mission Bay campus. There are many options for parking, including multi-level parking garages and surface lots located throughout campus.

 UCSF Sandler Neurosciences Center

 UCSF Weill Neurosciences Building

1. UCSF Medical Center Garage & Surface Lot at Mission Bay (self-parking)

1835 Owens Street
San Francisco, CA 94143

The garage and connected surface lot are located across from the UCSF Ron Conway Family Gateway Medical Building. A parking booth attendant is on site from 5 a.m. to 10:30 p.m. Monday through Friday, and from 7 a.m. to 6:30 p.m. on weekends.

Entrances/exits:

- North entrance/exit: 4th Street at 16th Street
- South entrance/exit: Hospital Street at Mariposa Street
- West entrance/exit: Owens Street

2. UCSF Medical Center Valet Parking for Patients at UCSF Ron Conway Family Gateway Medical Building

1825 4th Street
San Francisco, CA 94143

Valet parking is available for patients Monday through Friday from 8 a.m. to 3 p.m. for drop-off, and until 10 p.m. for pick-up.

3. UCSF Community Center Garage, at Rutter Center

1625 Owens Street
San Francisco, CA 94143

4. UCSF Third Street Garage

1650 Third Street
San Francisco, CA 94158

Permit only after 8 p.m. and all day on weekends and UC holidays. Entrance/exit located on Campus Way at Third Street.



Transportation Information

Directions to UCSF Mission Bay campus from San Francisco Marriott Marquis

1. Head south on 4th Street
2. Continue on 4th Street and cross the bridge
3. Take a slight right to stay on 4th Street
4. Turn right onto Nelson Rising Lane
5. The Sandler Neurosciences Center will be on your left

Directions to UCSF Mission Bay campus from San Francisco Airport

1. Approaching San Francisco, keep right at the fork, follow signs for US 101 N/San Francisco and merge onto US-101 N
2. Take the exit toward Downtown SF and merge onto 1-280 N
3. Take the Mariposa Street exit and turn right onto Mariposa Street
4. Take Mariposa Street to 3rd St. and turn left onto 3rd Street
5. Take 3rd Street to 16th St. Turn left onto 16th Street
6. Turn left onto 4th Street
7. Turn left onto Nelson Rising Lane
8. The Sandler Neurosciences Center will be on your left

Directions to UCSF Mission Bay campus from Oakland Airport

1. Cross Bay Bridge (1-80 West) and take the exit toward 9th St./Civic Center
2. Keep left at the fork and merge onto 8th Street
3. Keep left to stay on 8th Street and take the first left onto Brannan St
4. Take the first right onto 7th Street
5. Turn left onto 16th Street
6. Turn right onto 4th Street
7. Turn left onto Nelson Rising Lane
8. The Sandler Neurosciences Center will be on your left

AGENDA

SAN FRANCISCO, CA

MARCH 16-18, 2023

Thursday, March 16

2:30 – 5:00 pm	Faculty Discussion with Dr. Stephen Korn	Weill Building, 1st Floor Learning Center
3:00 – 5:00 pm	Participant Discussion with Dr. Michael Tennekoon	Sandler Auditorium
5:00 – 5:30 pm	Light refreshments	Sandler Courtyard
5:30 – 7:00 pm	Dr. Shai Silberberg, NINDS <i>The P-value pretense and other common statistical pitfalls</i>	Sandler Auditorium
7:00 pm	Pizza Dinner	Sandler Courtyard

Friday, March 17

7:00 – 7:50 am	Registration/Breakfast <i>*Poster presenters to set up poster presentation</i> <i>*Talk presenters to load slides onto presenter PC in designated room</i>	Sandler Courtyard
7:50 – 8:00 am	Introduction: Goals of the R25 program Dr. Stephen Korn, NINDS	Sandler Auditorium
8:00 – 8:20 am	Welcome Dr. Andy Josephson, UCSF	Sandler Auditorium
8:20 – 9:20 am	Panel Discussion: Getting a K, what do you wish you knew, what mistakes did you make, what should you have taken advantage of etc. Panel: Drs. Rexach, Kleen, Hervey-Jumper and Knowles Moderator: Dr. McCullough	Sandler Auditorium
9:20 – 9:30 am	Break	Sandler Courtyard
9:30 – 10:30 am	Panel Discussion: Getting started as a faculty, starting your lab, who to hire, writing papers etc. Panel: Drs. Paredes, Wang, Glykys, Burns, Shtrahman Moderator: Dr. Poduri	Sandler Courtyard
10:30 – 10:40 am	Break	Sandler Courtyard
10:40 – 11:40 am	Dr. Shai Silberberg, NINDS <i>Assuring a Bright Future for Biomedical Research</i>	Sandler Auditorium
11:40 – 11:55 am	Break	Sandler Courtyard
11:55 – 12:55 pm	Talks 1-4: Second and third years giving 10-minute talks, 5 minutes of questions.	Sandler Auditorium, Weill 495, 381, 615
12:55 – 2:00 pm	Lunch	Sandler Courtyard
2:15 – 3:15 pm	Talks 5-8: Second and third years giving 10-minute talks, 5 minutes of questions.	Sandler Auditorium, Weill 495, 381, 615
3:15 – 3:30 pm	Break	Sandler Courtyard
3:30 – 5:00 pm	Posters	Sandler Courtyard
5:00 – 7:00 pm	Reception	Weill Building Rooftop

AGENDA

SAN FRANCISCO, CA

MARCH 16-18, 2023

Saturday, March 18

7:00 – 8:00 am	Breakfast	Sandler Courtyard
8:00 – 8:15 am	Adult/Pediatric Neurology Opportunities with the American Neurological Association Dr. Tom Carmichael, UCLA	Sandler Auditorium
8:30 – 9:45 am	Concurrent Sessions	
	1st year Neurology: Step by step- building a dual career as a Neurologist researcher. Dr. Tom Carmichael	Sandler Auditorium
	1st year Neurosurgery: Step by step- building a dual career as a Neurosurgeon researcher. Dr. Bill Mack	Weill 381
	2nd and 3rd years: Specific Aims mentoring session.	Assigned breakout rooms (<i>pages 35-36</i>)
9:45 – 10:00 am	Break	Sandler Courtyard
10:00 – 11:00 am	Concurrent Sessions	
	Adult Neurology/Pediatric Neurology Panel Discussion: <i>Setting up for career success</i> Panelists: Drs. Carmichael, Josephson, Hafler, McCullough, Porter Moderator: Dr. Fullerton	Sandler Auditorium
	All Neurosurgery Panel Discussion: <i>Setting up for career success</i> Panelists: Drs. Liau, Gupta, Lim, Levitt Moderator: Dr. Williams	Weill 381
11:00 – 11:30 am	Concurrent Sessions	
	Adult Neurology/Pediatric Neurology General feedback on Posters/Talks	Sandler Auditorium
	All Neurosurgery General feedback on Posters/Talks	Weill 381
11:30 – 12:30 pm	Concurrent Sessions	
	Adult Neurology Group mentoring session: All faculty and participants.	Sandler Auditorium
	Pediatric Neurology Group mentoring session: All faculty and participants.	Sandler 238
	All Neurosurgery General feedback on Posters/Talks	Weill 381
12:30 pm	Adjournment	

FACULTY and SPEAKER BIOGRAPHIES

SAN FRANCISCO, CA MARCH 16-18, 2023



GEOFFREY AGUIRRE, MD, PhD

*Associate Director of the Neurology Residency Program
University of Pennsylvania*

Dr. Aguirre is a Professor of Neurology at the University of Pennsylvania. His area of clinical specialty is Behavioral Neurology, which encompasses disorders of higher-level cognitive function. His scientific work is in the area of translational vision science. He relates human visual perception to quantitative measurements of the structure and function of the visual pathway. Magnetic resonance imaging (MRI) is an important technique in his studies, often coupled with retinal imaging and psychophysics. He is the Associate Director of the Center for Neuroscience and Society at the University of Pennsylvania, with a focus upon the use and misuse of brain imaging data. He is also active in career development for physician-scientist trainees and serve as the

Associate Director of the Neurology Residency program at the Hospital of the University of Pennsylvania.



ROGER L. ALBIN, MD

*Anne B. Young Collegiate Professor of Neurology,
University of Michigan
Associate Director for Research, AAAHS GRECC*

Roger L. Albin, MD is the Anne B. Young Collegiate Professor of Neurology at the University of Michigan. He is Associate Director for Research at the VAAHS GRECC, Co-Director of the Parkinson Disease/Movement Disorders Division at the University of Michigan, and Director of the University of Michigan Udall Center. His primary research interest is the pathophysiology of Movement Disorders, particularly non-treatment responsive features of Parkinson disease. Molecular imaging methods are his primary research tool.



TERENCE BURNS, MD, PhD

*Assistant Professor of Neurologic Surgery and Neuroscience
Mayo Clinic Rochester*

Dr. Burns is a neurosurgeon scientist committed to bridging the chasm between basic science research and clinical needs. An overarching theme of his current work is to facilitate the translation of safe and effective therapies for neurological disease by leveraging neurosurgical access to the live human brain. Clinically, he is an oncologic neurosurgeon with 50% effort devoted to managing patients with gliomas and metastatic brain tumors. He directs the Mayo Clinic Regenerative Neurosurgery and Neuro-oncology laboratory and serves as a collaborative node for Mayo and external investigators to push boundaries of translation through interactive neurosurgical access to live human brain tumors. Efforts at the interface between neuro-oncology and neuroregeneration have included studies of microglial and endogenous CNS progenitor cell biology. Dr. Burns has been excited to uncover fundamental mechanisms underlying radiation-induced accelerated brain aging, and to find that these are strongly recapitulated in glioblastoma patients with worst prognosis. A current focus includes evaluation of senolytic therapies targeting Bcl-XL to eliminate latent tumor cells, overcome therapeutic resistance, mitigate the pro-tumorigenic effects of prior brain radiation, and ameliorate radiation-induced neurocognitive sequelae. Dr. Burns has launched multiple ongoing clinical trials to facilitate scientific access to irradiated human brain and tumor tissue, and CNS biomarkers. These include a randomized trial of pre-operative vs post-operative stereotactic radiation for brain metastases, pre-emptive resection of pre-recurrent glioma, Ommaya reservoir placement for CSF biomarker access and intra-operative microdialysis. Dr. Burns is currently developing novel microdialysis and microperfusion-based strategies for multiplex drug testing within the live human brain tumor to accelerate discovery and translation of safe and effective therapies. His multidisciplinary and highly collaborative team provides training opportunities to residents, graduate students and fellows spanning neurobiology, oncology, pharmacology including drug and biomarker discovery in preclinical and clinical settings, bioinformatics, device development, and early phase clinical trials.

FACULTY and SPEAKER BIOGRAPHIES

SAN FRANCISCO, CA MARCH 16-18, 2023

**S. THOMAS CARMICHAEL, MD, PhD**

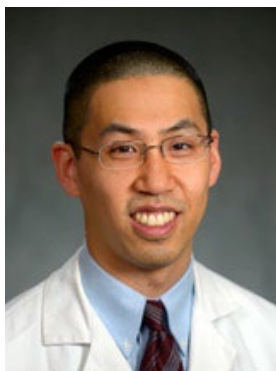
*Professor and Chair, Department of Neurology; Co-Director, Broad Stem Cell Center;
Co-Director, Regenerative Medicine Theme
University of California, Los Angeles*

S. Thomas Carmichael is Professor and Chair of the Department of Neurology and Professor in the Department of Neurobiology at the David Geffen School of Medicine at UCLA. He has active laboratory and clinical interests in stroke and neurorehabilitation and how the brain repairs from injury. He received his M.D. and Ph.D. degrees from Washington University School of Medicine in 1993 and 1994, and completed a Neurology residency at Washington University School of Medicine, serving as Chief Resident. Dr. Carmichael was a Howard Hughes Medical Institute postdoctoral fellow at UCLA from 1998-2001. He has been on the UCLA faculty since 2001. Dr. Carmichael's laboratory studies the molecular and cellular mechanisms of neural repair after stroke and other forms of brain injury. This research focuses on the processes of axonal sprouting and neural stem cell and progenitor responses after stroke, and on neural stem cell transplantation. Dr. Carmichael is an attending physician on the General Neurology and outpatient clinical services at UCLA. Dr. Carmichael has published important papers on stroke recovery that have defined mechanisms of plasticity and repair. These include the fact that the stroke produces partially damaged circuits that limit recovery but can be restored to normal functioning with newly applied experimental drugs. His work has identified brain "growth programs" that are activated by stroke and lead to the formation of new connections, how these growth programs change with age, and how specific molecules in the aged brain block the formation of new connections and of recovery.

**SYD CASH, MD, PhD**

*Associate Professor of Neurology
Harvard Medical School
Assistant in Neurology
Massachusetts General Hospital*

Sydney S. Cash, MD, PhD, received his MD and PhD degrees from Columbia University College of Physicians and Surgeons, completed his Neurology residency and was a Chief Resident at MGH and BWH. Dr. Cash is on the Neurology staff at MGH and is an Assistant Professor in Neurology at Harvard Medical School. Dr. Cash is a specialist in epilepsy with research expertise in cortical microphysiology, including research with the investigating the mechanisms of diseases such as epilepsy and ways of interfacing with the brain for improving the lives of people with seizures, paralysis, and other neurological difficulties.



H. ISAAC CHEN, MD

*Assistant Professor of Neurosurgery
University of Pennsylvania
Neurosurgery Residency Program Director and Surgical Director
Penn Epilepsy Center*

H. Isaac Chen, MD is an Assistant Professor of Neurosurgery at the University of Pennsylvania and serves as the Neurosurgery Residency Program Director and Surgical Director of the Penn Epilepsy Center. He obtained his undergraduate degree in Biochemical Sciences at Harvard University and his medical degree from the University of Pennsylvania. He subsequently completed his neurosurgical training at the University of Pennsylvania. Dr. Chen's clinical practice encompasses functional neurosurgery and the treatment of brain tumors, especially those in eloquent brain areas. He runs a translational research laboratory focused on developing novel strategies for rebuilding brain circuitry after injury using principles and techniques derived from stem cell biology, neural tissue engineering, and neural interfaces.



PETER FECCI, MD, PhD

*Professor of Neurosurgery
Duke University*

As the Director of both the Brain Tumor Immunotherapy Program and the Center for Brain and Spine Metastasis at Duke University, Dr. Fecci focuses the programmatic interests on the design, optimization, and monitoring of immune-based treatment platforms for patients with intracranial tumors, whether primary or metastatic. Within this broad scope, however, his own group looks more specifically at limitations to immunotherapeutic success, with a particular focus on understanding and reversing T cell dysfunction in patients with glioblastoma (GBM) and brain metastases. He continues to focus on combining strategies for reversing T cell deficits with current and novel immune-based platforms as a means of deriving and improving rational and precise anti-tumor therapies. He aims to forge a career focused on co-operative, multi-disciplinary, organized brain tumor therapy. Ultimately, Dr. Fecci's goal is to help coordinate the efforts of a streamlined and effective center for brain tumor research and clinical care. He hopes to play some role in ushering in a period where the science and treatment arms of brain tumor therapy suffer no disjoint, but instead represent the convergent efforts of researchers, neuro-oncologists, medical oncologists, radiation oncologists, biomedical engineers, and neurosurgeons alike.

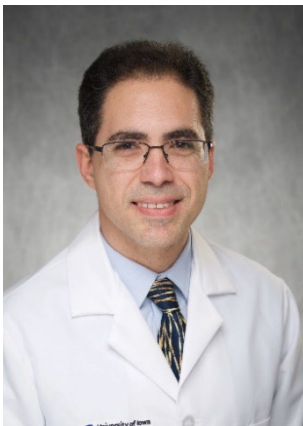
FACULTY and SPEAKER BIOGRAPHIES

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**HEATHER FULLERTON, MD, MAS**

*Chief of Child Neurology and Medical Director of the Pediatric Brain Center
UCSF Benioff Children's Hospital
Professor of Neurology
UCSF Weill Institute for Neurosciences*

Dr. Heather Fullerton is a pediatric vascular neurologist and clinical investigator at the University of California, San Francisco. After completing medical school at Baylor College of Medicine (Houston, TX), she moved to the University of California, San Francisco (UCSF) for her pediatrics residency, child neurology and vascular neurology fellowships, and master's in clinical research. She joined the UCSF faculty in 2003. She is the Kenneth Rainin Chair in Pediatric Stroke Care, Chief of Child Neurology in the UCSF Department of Neurology, and medical director of the Pediatric Brain Center at UCSF Benioff Children's Hospital. Dr. Fullerton's primary research efforts have focused on understanding the complex relationships between infection, inflammation, and arterial ischemic stroke in childhood. She has had continuous NIH funding for over two decades, leading international, multicenter prospective cohort studies in this area. She also has a research interest in hemorrhagic stroke, which accounts for half of all strokes seen in children. She is the Center and Training Director of the AHA-Bugher Center of Excellence in Hemorrhagic Stroke Research at UCSF. Dr. Fullerton is the principal investigator of the first NIH StrokeNet childhood stroke treatment trial. The FOCal Cerebral Arteriopathy Steroid (FOCAS) Trial, which began in February 2023, is a comparative effectiveness trial of corticosteroids for the treatment of focal cerebral arteriopathy of childhood (FCA), an inflammatory, post-infectious cerebral arteriopathy that affects otherwise healthy children. Dr. Fullerton is also the founding President of the International Pediatric Stroke Organization (IPSO), a nonprofit organization that aims to improve the prevention, care, and lifelong outcomes of children with cerebrovascular disease worldwide. Additionally, she serves as a co-mentorship officer and executive committee member of the NINDS Child Neurologist Career Development Program (CNCDP), a national K12 program that aims to train and support the next generation of academic child neurologists.

**JOSEPH GLYKYS, MD, PhD**

*Associate Professor of Pediatrics and Neurology
University of Iowa*

Dr. Joseph Glykys received his Medical Degree from the Universidad de Carabobo, Valencia, Venezuela (2001), and practiced general medicine in underserved communities in Carabobo, Venezuela. He completed his Ph.D. in Neuroscience (2002-07) at the University of California, Los Angeles (UCLA), followed by post-doctoral research at Massachusetts General Hospital (MGH)/Harvard University (2007-09) and then by a Pediatric Neurology Residency (2009-13) at the combined Harvard/BWH-MGH program. Dr. Glykys was an Assistant Professor at MGH until he relocated to the University of Iowa in 2019, where he is currently an Associate Professor of Pediatrics and Neurology. Multiple foundations and the NIH have funded him through the years.

Dr. Glykys practices general pediatric neurology and devotes most of his time to bench research studying epilepsy and neuronal swelling in the neonatal brain. Specifically, his research focuses on how the inhibitory system works at the cellular level and the relationship between neuronal edema, seizures, and altered chloride homeostasis.



NALIN GUPTA, MD, PhD

*Chief of the Division of Pediatric Neurosurgery
UCSF Benioff Children's Hospital
Professor of Neurological Surgery
UCSF Weill Institute for Neuroscience*

Dr. Gupta is currently Chief of the Division of Pediatric Neurosurgery at UCSF. His clinical and research interests are in the area of translational neuro-oncology and early phase surgical clinical trials. He has a specific interest in developing models of complex disease processes, such as tumor recurrence, and resistance to therapy, in experimental systems. The major focus of his laboratory is determining how normal components of the innate immune system, monocytes, macrophages and dendritic cells, contribute to tumor growth and recurrence through biological processes such as immunosuppression, and creation of a favorable microenvironment. He has both a clinical and research interest in diffuse intrinsic pontine gliomas (DIPG), a fatal primary brain tumor that occurs primarily in children. He has led a number of surgical trials examining direct delivery, chemotherapy agents, and viral gene therapy to the central nervous system.



DAVID A. HAFLER, MD, FANA

*Professor and Chairman, Department of Neurology and Professor of Immunobiology
Yale School of Medicine
Neurologist-in-Chief, Yale-New Haven Hospital.*

David A. Hafler, M.D. is the William S. and Lois Stiles Edgerly Professor and Chairman Department of Neurology and Professor of Immunobiology, Yale School of Medicine, and is the Neurologist-in-Chief of the Yale-New Haven Hospital. He graduated magna cum laude in 1974 from Emory University with combined B.S. and M.Sc. degrees in biochemistry, and the University of Miami School of Medicine in 1978. He then completed his internship in internal medicine at Johns Hopkins followed by a neurology residency at Cornell Medical Center-New York Hospital in New York. Dr. Hafler was trained in immunology at the Rockefeller University and then at Harvard where he joined the faculty in 1984 and later became the Breakstone Professorship of Neurology at Harvard and was a founding Associated Member of the Broad Institute at MIT. In 2009 he moved to Yale as the Chair of the Department of Neurology. Dr. Hafler is a clinical scientist with a research interest in the mechanism of multiple sclerosis with over 400 publications in the field of MS, autoimmunity and immunology. He is a co-founder of the International MS Genetic Consortium a group that identified the genes causing MS. He has served as a member of the editorial boards for Journal of Clinical Investigation and the Journal of Experimental Medicine, and is co-founder of the Federation of Clinical Immunology Societies and leads the NIH Autoimmunity Prevention Center Grant at Yale. He was a Jacob Javits Merit Award Recipient from the NIH and has won many awards including Dystel Prize for MS research from the American Academy of Neurology, the University of Miami Annual Distinguished Alumni Award, the Raymond Adams Prize from the American Neurologic Association, and was the 2016 Frontier Lecturer at the AAN. Dr. Hafler has been elected to membership in the Alpha Omega Society, the American Society of Clinical Investigation, and the National Academy of Medicine.

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**DAVID HASAN, MD, MSc**

*Microvascular Surgeon, Neurosurgeon
Professor of Neurosurgery
Duke University*

Dr. Hasan's clinical mission is to advance the science and practice of cerebrovascular neurosurgery to new uncharted frontiers. He aims to provide patients seeking neurosurgical treatment at Duke Health with world-class clinical care and surgical management. He partners with patients and their families to achieve excellent clinical and surgical outcomes. He leads a team of scientists and clinicians that strive to make innovative advances in treatment devices, alternative therapeutic agents for cerebrovascular diseases, and surgical approaches. Dr. Hasan is a scientist neurosurgeon with experience in management of cerebrovascular diseases and skull base tumors. He is a fellowship - dual trained open cerebrovascular and endovascular with a background of treating over 2500 brain aneurysms using very innovative techniques including awake surgery. He is an international authority in cerebrovascular research with over 270 peer-reviewed PubMed publications, multiple NIH grants, and member of several editorial boards of high impact medical and surgical journals.

**MELANIE HAYDEN GEPHART, MD**

*Professor of Neurosurgery and Neurology
Stanford University*

Dr. Hayden Gephart is a brain tumor neurosurgeon, treating patients with primary and metastatic brain tumors. She treats patients with malignant and benign tumors, including glioma, brain metastases, meningioma, and vestibular schwannomas. She directs the Stanford Brain Tumor Center and the Stanford Brain Metastasis Consortium, collaborative unions of physicians and scientists looking to improve our understanding and treatment of brain tumors. Her laboratory seeks greater understanding of the mechanisms driving tumorigenesis and disease progression in malignant brain tumors. She and her team study how rare cancer cell populations survive and migrate in the brain, inadvertently supported by native brain cells. She develops novel cell free nucleic acid biomarkers to track brain cancer treatment response, relapse, and neurotoxicity. Her bedside-to-bench-to-bedside research model builds on a foundation of generously donated patient samples, where she tests mechanisms of brain cancer growth, develop novel pre-clinical models that reliably recapitulate the human disease, and facilitate clinical trials of new treatments for patients with brain cancer.



SHAWN HERVEY-JUMPER, MD

*Associate Professor, Neurological Surgery
University of California, San Francisco*

Shawn Hervey-Jumper, M.D. is an Associate professor in the department of neurological surgery and PI in the Brain Tumor Center at University of California San Francisco. His research focuses on the bidirectional mechanisms by which low and high-grade gliomas interface with functional cognitive networks. After completing undergraduate studies at Oakwood College, he enrolled in medical school at The Ohio State University College of Medicine. He subsequently completed neurosurgery residency at University of Michigan Medical Center during which time he completed a research fellowship studying notch-regulated microRNA in glioblastoma. He then completed a clinical neuro-oncology fellowship at UCSF focused on brain mapping, functional imaging, and cortical plasticity in adult glioma. It was during this time that Dr. Hervey-Jumper detected an unmet need in glioma patients. Although the survival of some patients may be short, there are many with favorable genetics who experience extended disease-free survival periods. Throughout this survival period the majority of patients have limitations in day to day life due to functional impairments involving speech, motor function, and cognition. Dr. Hervey-Jumper's research program therefore studies glial-neural network connections using functional imaging and molecular biology. His goal is that a clearer understanding of how glioma integrate into neural networks will inform our understanding of cognitive recovery paving the way for interventional strategies focused on both eradicating tumor and repairing healthy brain.



JASON HINMAN, MD, PhD

*Associate Professor-in-Residence, Neurology
University of California Los Angeles*

Dr. Dr. Hinman is a physician-scientist, Associate Professor of Neurology, and Vice Chair of Research in the David Geffen School of Medicine at UCLA. He also Stroke Program Director at the West Los Angeles VA Medical Center. Dr. Hinman obtained his MD/PhD from Boston University School of Medicine and completed Adult Neurology Residency and Vascular Neurology Fellowship with specialization in Neurorehabilitation. He joined UCLA faculty in 2013 and believes in equity in education, science, and medicine. His NIH-funded laboratory at UCLA focuses on cellular and molecular pathways active in injury and repair in stroke and neurodegenerative disease.

FACULTY and SPEAKER BIOGRAPHIES

SAN FRANCISCO, CA MARCH 16-18, 2023

**WINSON HO, MD**

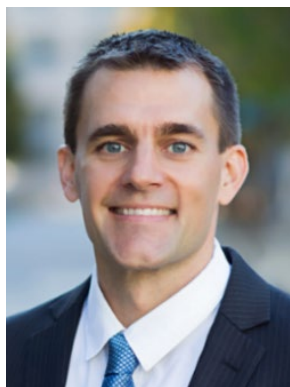
*Assistant Professor, Neurological Surgery
University of California, San Francisco*

Dr. Winson Ho is a board-certified pediatric neurosurgeon. His clinical work covers the whole spectrum of pediatric neurosurgery with a special interest in the neurosurgical care of children with brain tumors, epilepsy, and trauma. His laboratory research focuses on developing novel immunotherapies for the treatment of brain tumors, with a particular interest in studying the role of Protein Phosphatase 2A (PP2A) in modulating anti-tumor immunity. He received his M.D. from Yale University School of Medicine and completed his residency in the joint neurosurgery program of the University of Virginia and the National Institutes of Health. Following his residency, he completed a fellowship in pediatric neurosurgery at Intermountain Primary Children's Medical Center at the University of Utah in Salt Lake City. He was an Assistant Professor in Neurosurgery at University of Texas at Austin from 2019-2022 prior to joining UCSF.

**S. ANDREW JOSEPHSON, MD**

*Professor and Chair, Neurology
UCSF Weill Institute for Neurosciences*

Dr. Josephson specializes in neurovascular and other neurologic disorders, caring for general neurology and stroke patients in the hospital as well as in clinic. He is the founder of UCSF's Neurohospitalist Program and specializes in difficult to diagnose inpatient neurologic conditions. He serves as Chair of the Department of Neurology and is the Carmen Castro Franceschi and Gladys K. Mitchell Neurohospitalist Distinguished Professor. After graduating from Stanford University, Dr. Josephson earned his medical degree at Washington University in Saint Louis. He completed an internship in internal medicine and a residency in neurology at UCSF, where he was chief resident. He also completed fellowships in neurovascular neurology (stroke) and behavioral neurology at UCSF and is board certified in vascular neurology and neurocritical care. Dr. Josephson is known nationally for his pioneering work launching the neurohospitalist model of care and his leadership of its society. His research interests include improving models of inpatient neurologic care delivery, quality and safety in hospitalized patients, neurologic education, delirium, and the contribution of stroke to dementia. He serves as the Editor-In-Chief of JAMA Neurology, a leading journal in the field. He has won numerous teaching awards from medical students and residents at UCSF including being selected to present the keynote address for the School of Medicine Commencement; the Henry J. Kaiser Award for Excellence in Teaching; the Academic Senate Distinction in Teaching Award, and the Robert Layzer Golden Toe Award for resident teaching.



JON KLEEN, MD, PhD

*Assistant Professor, Neurology
UCSF Weill Institute for Neurosciences*

Jon Kleen MD, PhD is originally from rural Minnesota. He earned a PhD studying neuroscience from Dartmouth College along with training in engineering and computer science, and his MD from Dartmouth Medical School. At UCSF, he completed a residency in neurology, clinical fellowship in epilepsy, and postdoctoral training in human neurophysiology research. He is both a physician and a scientist in the Department of Neurology, Division of Epilepsy, and UCSF Weill Institute for Neurosciences. His lab merges computer science and human intracranial recordings to study memory neurophysiology, how neural activity flows in space and time, and mechanisms of cognitive impairment due to neurological disease.



JULIET KNOWLES, MD, PhD

*Assistant Professor of Neurology and Pediatrics
Stanford University*

Juliet Knowles, MD PhD, is an Assistant Professor at Stanford University. Her basic, translational and clinical research lab focuses on the contribution of neuron-glia interactions to the pathogenesis of pediatric epilepsy. Her research group is particularly interested in generalized epilepsies, and developmental and epileptic encephalopathies. Most recently, the Knowles lab demonstrated an unexpected contribution of activity-dependent myelination to generalized epilepsy progression (J.K. Knowles et al, Nature Neuroscience, 2022). Dr. Knowles is also a clinician who provides care for children with genetic and difficult-to-treat forms of epilepsy.



STEPHEN KORN, PhD

*Director, Office of Training and Workforce Development
National Institute of Neurological Disorders and Stroke, National Institutes of Health*

Dr. Korn came to NINDS as Director of the Office of Training, Career Development and Workforce Diversity (now the Office of Training & Workforce Development) in January 2006. He received his Ph.D. in Pharmacology from the University of North Carolina - Chapel Hill, and received postdoctoral training at NIH (as a PRAT Fellow of NIGMS) and at the Roche Institute of Molecular Biology (with financial support from NRSA postdoctoral fellowships). He then spent 15 years on the faculty of the University of Connecticut at Storrs, where he was a Full Professor. His area of scientific specialty is the molecular basis of ion channel gating and permeation, but he has also conducted electrophysiological and imaging research on calcium and pH transport/buffering, and synaptic transmission in the hippocampal slice.

FACULTY and SPEAKER BIOGRAPHIES

SAN FRANCISCO, CA MARCH 16-18, 2023

**SHENG HAN KUO, MD**

*Associate Professor of Neurology
Columbia University*

Dr. Kuo is Associate Professor of Neurology at Columbia University, and he is also a physician-scientist in Movement Disorders. He received his neurology residency training at Baylor College of Medicine and his fellowship training at Columbia University where he stayed as a faculty member. Dr. Kuo has published 154 papers, 5 book chapters, and 1 book. He serves as the Vice Chair for the Movement Disorders Section at American Academy of Neurology and also in American Neurological Association. His research focuses on the cerebellar circuit in ataxia and tremor, using multidisciplinary approaches, including postmortem pathology, mouse models, optogenetics, in vivo physiology recording, and human cerebellar electroencephalogram. He is also leading the Clinical research Consortium for Spinocerebellar Ataxias, constituting 15 medical centers to study the natural history and biomarkers for spinocerebellar ataxia. One interesting note about Dr. Kuo is that he is a theater lover. During the COVID pandemic when all the Broadway theater shut down, Dr. Kuo and his team set up a non-profit program called Broadway for Ataxia to raise funds to employ Broadway performers and leverage their expertise in voice and movement control to help people with cerebellar ataxia.

**MICHAEL LEVITT, MD, FAANS**

Assistant Professor of Neurological Surgery, Radiology, and Mechanical Engineering; Associate Program Director of the Neurological Surgery Residency; Scientific Director of the Stroke and Applied Neuroscience Center, University of Washington

Dr Michael Levitt is an Associate Professor of Neurological Surgery, Radiology and Mechanical Engineering. He is a board-certified neurosurgeon with a focused practice in the surgical treatment of cerebrovascular disease. Dr. Levitt's research has been funded by the NIH, the American Heart Association and other foundations since 2011, with research focused on cerebral aneurysm pathophysiology. His lab pioneered the incorporation of endovascular Doppler measurements to improve boundary condition accuracy in fluid dynamics simulations; the application of microtomography, 3D-printed models and materials science techniques in the characterization of endovascular aneurysm treatment; and the use of endothelialized 3D-printed models to measure the effect of hemodynamic stresses on the transcriptional activity of vascular endothelial cells. As the Scientific Director of the UW Stroke & Applied Neuroscience Center, a multidisciplinary organized research unit, he maintains close collaborations with physician-scientists and researchers in multiple disciplines including radiology, bioengineering, cardiothoracic surgery, mechanical engineering, psychiatry and genomics. He has served on multiple NIH and AHA grant review study sections focusing on surgery, neuroscience and small businesses, and is the current national chair of research for the American Association of Neurological Surgeons/Congress of Neurological Surgeons Cerebrovascular Section.



SAMDEN LHATOO, MD, FRCP

*Director, Texas Comprehensive Epilepsy Program
Co-Director, Texas Institute for Restorative Neurotechnologies
Professor, McGovern Distinguished Chair in Neurology, and Executive Vice Chair, Department of Neurology
McGovern Medical School, UTHealth*

Dr. Lhatoo received his basic medical training from the University of Delhi's Maulana Azad Medical College in 1991. He completed his residency in Internal Medicine at the Postgraduate Institute of Medical Education and Research, Chandigarh in 1994 and obtained his Membership of the Royal College of Physicians, London in 1995. He trained in Neurology at the Radcliffe Infirmary at Oxford, Frenchay Hospital in Bristol and the National Hospital for Neurology and Neurosurgery (NHNN) at Queen Square in London, UK. He received his board certification (UK) in Neurology in 2002 and trained in epilepsy with a two year fellowship at NHNN and a further epilepsy research fellowship in EEG at the Cleveland Clinic Foundation. Dr. Lhatoo also has an MBA from the Cleveland Clinic Weatherhead Executive MBA program. Dr. Lhatoo joined the faculty at Case Western Reserve University in 2010. He was recruited in December 2018 to McGovern Medical School as Visiting Professor and Executive Vice Chair with the Department of Neurology. Dr. Lhatoo also serves as Director of the Texas Comprehensive Epilepsy Program (TCEP) and Co-Director of the Texas Institute of Restorative Neurotechnologies.



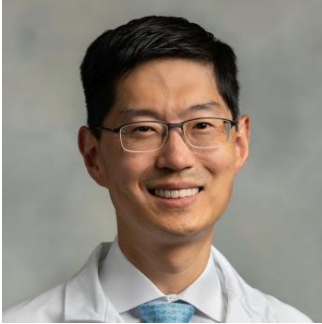
LINDA M. LIAU, MD, PhD, MBA

*Professor and the W. Eugene Stern Chair
Chair & Executive Medical Director, Department of Neurosurgery
David Geffen School of Medicine & UCLA Health*

Dr. Linda M. Liau is Professor and W. Eugene Stern Chair of the Department of Neurosurgery at the David Geffen School of Medicine at UCLA. She is Co-Director of the UCLA Brain Tumor Center, and Principal Investigator and Director of the NCI-designated UCLA Brain Tumor SPORE (Specialized Program of Research Excellence). She served as a Board Director of the American Board of Neurological Surgery (2014 – 2020) and was the first woman Chair of the ABNS (2019-2020). She was also the first woman President of the Western Neurosurgical Society (WNS). Dr. Liau has been continuously funded by the National Institutes of Health (NIH) for the past 25 years. She has been the mentor of several NIH training grants for residents, fellows, and postdoctoral researchers in her laboratory. Her research interests include translational experimental therapeutics of cell-based immunotherapy for brain tumors and the characterization of biomarkers of response to immune-based therapies. She is internationally recognized for her achievements in understanding the immunobiology of malignant brain tumors and pioneering the use of dendritic cell-based vaccines for glioblastoma. Dr. Liau has authored over 230 peer-reviewed research articles, along with several book chapters, and a textbook entitled Brain Tumor Immunotherapy. She is on the editorial boards of several scientific/medical journals and was the Editor-in-Chief of the Journal of Neuro-Oncology (2007–2018). In 2018, she was elected to the National Academy of Medicine (NAM).

FACULTY and SPEAKER BIOGRAPHIES

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**MICHAEL LIM, MD**

*Chair of the Department of Neurosurgery
Professor of Neurosurgery and Radiation Oncology, Medicine, Otolaryngology – Head & Neck Surgery, and Neurology
Stanford University School of Medicine*

Dr. Lim's clinical interests include the treatment of benign and malignant brain tumors, with special interest in gliomas, meningiomas, metastatic tumors, and skull base tumors. Dr. Lim also specializes in surgical treatments for trigeminal neuralgia. During his time at Johns Hopkins, Dr. Lim built one of the largest brain tumor and trigeminal neuralgia practices and utilized the most advanced surgical technologies and techniques for his patients. As a mentor, he has garnered numerous teaching awards, including being honored as an outstanding teacher by Johns Hopkins University School of Medicine. Dr. Lim's research interests focus on harnessing the immune system to fight cancer. His laboratory focuses on understanding mechanisms of immune evasion by cancer cells. He has successfully translated his findings from the laboratory to the clinics and has conducted and led several large national immunotherapy clinical trials for brain tumors. Dr. Lim is a world leader in immunotherapy for brain tumors. Dr. Lim served as the program co-chair of the Society for Neuro-Oncology and CNS section of the American Society for Clinical Oncology. He also served on many executive committees, including the Executive Committee for the Joint Tumor Section of the American Association of Neurological Surgeons and Congress of Neurological Surgeons.

**DANIEL LU, MD, PhD**

*Professor of Neurosurgery, Professor-in-Residence, Orthopedic Surgery
UCLA School of Medicine*

Daniel C. Lu is professor and vice chair of research in the Department of Neurosurgery at UCLA. As a member of the UCLA Comprehensive Spine Center in Sana Monica, Dr. Lu's clinical focus is on minimally invasive techniques in the surgical management of degenerative, traumatic, and neoplastic spinal disorders. His research efforts are focused on the molecular biology and regenerative treatment of traumatic spinal cord and brain injury. As the Director of The Neuroplasticity and Repair Laboratory and the UCLA Neuromotor Recovery and Rehabilitation Center, his research efforts are focused on modulating the neuronal circuitry and networks in the treatment of central nervous system disorders with the ultimate goal of restoring lost function.

His research work is multiply funded by the National Institutes of Health. Dr. Lu received his undergraduate degree in biochemistry and molecular biology from Dartmouth College, a PhD focused on neurodegeneration and apoptosis from UC San Diego's Neuroscience Graduate program, and his MD from UC San Diego School of Medicine. He completed his residency in neurological surgery at UCSF and a fellowship in minimally invasive surgery at the Semmes- Murphey Neurologic & Spine Institute.



WILLIAM MACK, MD

*Professor of Neurosurgery
University of Southern California*

William Mack William Mack is Professor of Neurosurgery, Vice Chair of Academic Affairs, and a faculty member of the Neuroscience Graduate Program at University of Southern California. His area of clinical focus is endovascular and open surgical management of patients with cerebrovascular disease. Dr. Mack received his bachelor's degree from Cornell University. He then attended Columbia University, College of Physicians and Surgeons, where he graduated from medical school and completed Neurosurgical residency training. During residency, he spent one year as a post-doctoral cerebrovascular research fellowship under Drs. David J. Pinsky and E. Sander Connolly Jr. at Columbia University. Following residency, Dr. Mack completed an Interventional Neuroradiology fellowship at UCLA. Dr. Mack is the Principal Investigator and Director of the Cerebrovascular Laboratory in the Zilkha Neurogenetic Institute. His overarching academic goal is to examine the effects of inflammation in experimental models of cerebrovascular disease. Dr. Mack is currently the Principal Investigator on active NIH (R01, P01, R21, R25) grants. He serves on the National Advisory Council for the Neurosurgery K12 Neurosurgeon Research Career Development program. Dr. Mack is the Past President of the Society of Neurointerventional Surgery and the Chair of the Cerebrovascular section of the Congress of Neurological Surgeons/American Association of Neurological Surgeons. He is an Associate Editor of the *Journal of Neurointerventional Surgery*, and an Editorial Board member for the *Journal of Neurosurgery* and *World Neurosurgery*. Dr. Mack is a Charter member of the NIH/ NINDS NST-1 study section and a member of the AHA Stroke Scientific Statement Oversight Committee.



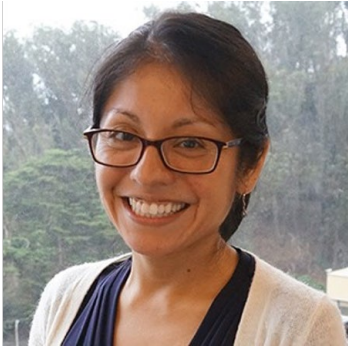
LOUISE D. MCCULLOUGH, MD, PhD, FAHA

*Roy M. and Phyllis Gough Huffington Distinguished Chair
Professor and Chair, Department of Neurology, McGovern Medical Support, UTHealth Houston*

Dr. Louise McCullough is the Roy M. and Phyllis Gough Huffington Distinguished Chair and Professor of Neurology at McGovern Medical School at UTHealth. She is a physician-scientist and a practicing vascular neurologist with clinical expertise in sex/gender disparities, the microbiome, stroke and aging, and acute stroke treatments. A renowned investigator, she is well recognized for her work in cerebral vascular disease and is known for her research identifying sex differences in cell death pathways during stroke, which have now been shown to be a major factor in the response to ischemic insult. Working closely with the Society for Women's Health Research (SWHR) and the Office of Research on Women's Health (ORWH), she was instrumental in the National Institute of Health's requirement to include female animals in basic and translational studies. Among Dr. McCullough's many honors and awards are the prestigious National Institute of Neurological Disorders and Stroke (NINDS) Javits Neuroscience Investigator Award, the NINDS Landis Award for Outstanding Mentorship, the Inaugural American Heart Association (AHA) Outstanding Stroke Research Mentor Award and the AHA Merit Award.

FACULTY and SPEAKER BIOGRAPHIES

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**MERCEDES PAREDES, MD, PhD**

*Associate Professor in Residence, Neurology
UCSF Weill Institute for Neurosciences*

The Paredes lab studies cortical development to understand the molecular and cellular basis of neuropsychiatric conditions, such as epilepsy, and brain malformations. Our hypothesis is that the gyrencephalic brain has evolved developmental processes and a prolonged timeline that, when disrupted, will lead to cortical disorganization and aberrant connectivity. We are currently focused on identifying features of neuronal progenitor proliferation and migration, with an emphasis on the perinatal period, which are unique to the gyrated brain. Our approach is to advance ways to directly investigate the human brain and to better model its development using gyrencephalic systems like the piglet cortex.

**ANN PODURI, MD, MPH**

*Professor of Neurology, Harvard Medical School
Associate Chief for Academic Development, Department of Neurology
Diamond Blackfan Chair in Neuroscience Research, Boston Children's Hospital*

Dr. Ann Poduri is Director of the Epilepsy Genetics and Neurogenetics Programs, Associate Chief for Academic Development in the Department of Neurology, Diamond Blackfan Chair of Neuroscience Research at Boston Children's Hospital and Professor of Neurology at Harvard Medical School. She and Dr. Clif Saper at Beth Israel Deaconess Medical Center serve as Co-PIs of the BCH-BIDMC R25 program. Her collaborative research and mentorship contributions have been recognized through numerous honors, including the American Neurological Association's Derek Denny-Brown Young Neurological Scholar Award, the American Academy of Neurology's Dreifuss-Penry Epilepsy Award, and the Harvard Club of Boston's Most Influential Women designation.

**BRENDA PORTER, MD, PhD**

*Professor of Neurology and Pediatrics
Stanford University*

Brenda E. Porter, MD, Ph.D. is a Professor of Neurology and Pediatrics at Stanford University. She received her MD and Ph.D. from Washington University in St. Louis. She traveled east to complete her child neurology fellowship at the Children's Hospital of Philadelphia. She went on to complete a combined clinical and research fellowship in epilepsy. Dr. Porter developed an interest in difficult-to-treat epilepsy, with a special focus on children with neuronal developmental disorders leading to epilepsy such as tuberous sclerosis and focal cortical dysplasia. Her clinical research focuses on improving outcomes in epilepsy surgery, increasing parental understanding of epilepsy and the role epilepsy surgery plays in treatment. She enjoys working in her lab studying the molecular and cellular changes that contribute to the development of epilepsy. Her research has shown that suppression of CREB a transcription factor can decrease the severity of epilepsy and is hoping to expand on this finding and someday turn her research findings into a therapeutic strategy for preventing epilepsy.



NADER POURATIAN, MD, PhD, FAANS, FACS

*Professor and Chair of the Department of Neurological Surgery
UT Southwestern Medical Center*

Nader Pouratian is Professor and Chair of Neurological Surgery at UT Southwestern Medical Center. He uses advanced neurotechnologies to improve brain and spine function for neurological and psychiatric disease, including Parkinson's, tremor, pain, depression, obsessive compulsive disorder, and blindness. He takes advantage of unparalleled opportunities presented by neurosurgery to study human brain function and design novel neurotechnologies. His work is supported by several NIH grants. Finally, he is passionate about training future leading clinician scientists and neuroscientists, having mentored numerous residents in neurology, neurosurgery, neuroscience, and bioengineering.



JESSICA REXACH, MD, PhD

*Assistant Professor of Neurology
University of California, Los Angeles*

Dr. Jessica Rexach, MD PhD, is an assistant professor of Neurology at UCLA and John Douglas French Alzheimer's Foundation Endowed Chair. She completed the undergraduate at Cornell, the MSTP physician scientist training program at UCLA and Caltech, medical residency at Cedars Sinai and the WLAVA, and a neurology residency and neurogenetics R25 fellowship at UCLA. She completed her postdoctoral fellowship in Neurogenetics with Professor Daniel Geschwind at UCLA; and her PhD on intracellular glycosylation in neuronal signaling at Caltech with Professor

Linda Hsieh-Wilson. Her lab combines multiomic, single-cell and genomics methods with experimental disease modeling to study neuronal-gial and neuroimmune mechanisms in dementia with the goal of identifying effective therapeutics.



GEORGE B. RICHERSON, MD, PhD

*Roy J. Carver Chair in Neuroscience and Professor and Chairman,
Department of Neurology, University of Iowa*

Dr. Richerson is Professor and Chairman of Neurology, and The Roy J. Carver Chair in Neuroscience at the University of Iowa. He received a B.S. in aerospace engineering from Iowa State University in 1980, and an M.D. and Ph.D. in physiology and biophysics from the University of Iowa in 1987. He trained in neurology at Yale University, where he spent 19 years as a faculty member, including 15 years as Neurology Residency Program Director. Dr. Richerson performs research on rodent models focused on the neurobiology of serotonin neurons and their role in control of breathing and arousal. These neurons are sensors of CO₂ and pH and are involved in the pathophysiology of sudden unexpected death in epilepsy (SUDEP) and sudden infant death syndrome. Dr. Richerson

has had continuous funding from the NIH since 1995, and has trained more than 55 students, residents, and fellows in his basic science laboratory. He has founded two residency research tracks, one at Yale and the other at Iowa, which provide integration of research and clinical training for physician-scientists. These programs have led to the successful training of many academic neurologists who have gone on to obtain K awards and R01s as well as independent faculty positions.

FACULTY and SPEAKER BIOGRAPHIES

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**CLIFFORD B. SAPER, MD, PhD**

James Jackson Putnam Professor of Neurology and Neuroscience, Harvard Medical School, and Department of Neurology, Beth Israel Deaconess Medical Center

Dr. Clifford B. Saper received his M.D. and Ph.D. degrees and did his internship in internal medicine at Washington University School of Medicine in St. Louis, before doing a neurology residency at Cornell University Medical Center- New York Hospital. He then joined the faculty of Washington University School of Medicine where he served from 1981-1985 as Assistant and then Associate Professor of Neurology and Anatomy and Neurobiology. He moved to the University of Chicago, where from 1985-1992 he was an Associate Professor, then William D. Mabie Professor of Physiology and Neurology, and Chairman of the Committee on Neurobiology. In 1992, he moved to Harvard Medical School, where he is the James Jackson Putnam Professor of Neurology and Neuroscience. From 1992-2021 he also served as Chairman of the Harvard Department of Neurology at Beth Israel Deaconess Medical Center. Dr. Saper served from 1994-2011 as the Editor-in-chief of the *Journal of Comparative Neurology* and from 2014-2021 as the Editor-in-Chief of *Annals of Neurology*. He has served as Vice President and Councilor of the American Neurological Association and has served on the Publications Committee and has chaired the Program Committee of both that organization and the Society for Neuroscience. Dr. Saper has received a Javits Neuroscience Investigator Award from the NIH and was named one of the 100 most frequently cited neuroscientists by the Institute for Scientific Information. He has received distinguishing awards from the University of Illinois, the Sleep Research Foundation, the American Academy of Neurology, the Netherlands Brain Research Institute, and the International Federation for Clinical Neurophysiology. Dr. Saper was elected to the National Academy of Medicine and has been named a Fellow of the American Academy of Neurology, the American Association for the Advancement of Science, and the Royal College of Physicians (London) and a member of the American Association of Physicians. Dr. Saper's research explores circuitry of the brain that controls basic functions such as wake-sleep cycles, thermoregulation, and immune and stress responses, and how these circuits are disrupted in neurological disorders, such as Parkinson's disease, and in sleep disorders such as narcolepsy and sleep apnea, and during aging.

**ASHISH SHAH, MD**

*Assistant Professor of Neurological Surgery
University of Miami, Miller School of Medicine*

Dr. Shah is Assistant Professor of Neurological Surgery at the University of Miami Miller School of Medicine. He received his medical degree from the University of Miami Medical School and completed his neurosurgical internship and residency at the University of Miami/Jackson Memorial Hospital, followed by a fellowship in Surgical Neuro-Oncology at the University of Miami. Following residency, Dr. Shah completed another fellowship in Translational Neuro-Oncology at the NIH within the Surgical Neurology Branch where he specialized in clinical trials for brain tumors. As Director of Clinical Trials and Translational Research within the University of Miami Brain Tumor Initiative, Dr. Shah's main clinical interests include surgical and radio surgical treatment of primary and metastatic brain tumors as well as pituitary lesions and meningiomas. He is a specialist in minimally invasive approaches to brain tumors utilizing cutting-edge techniques. Dr. Shah is currently serving as principal investigator for the Section of Virology and Immunotherapy and Director of clinical trials and translational research in the UMBTI. The laboratory goal is to develop novel treatment options for brain tumors including virotherapies, immunotherapies, and targeted molecular therapeutics. He is a member of the Society of Neuro-oncology, American Association of Neurological Surgery and the Congress of Neurological Surgery. Aside from his clinical work, Dr. Shah is deeply invested in mitigating global health disparities.



MATTHEW SHTRAHMAN, MD, PhD

*Assistant Adjunct Professor, Neurosciences
UCSD School of Medicine*

Dr. Shtrahman received his undergraduate degree in Biochemistry from the University of Michigan. He returned to his hometown to obtain his MD and PhD degrees at the University of Pittsburgh, where he did his thesis work with Dr. Xiao-lun Wu in the Department of Physics. He completed his residency training and clinical neurophysiology fellowship in the Department of Neurology at UCLA. Matt went on to do his postdoctoral training in the labs of Dr. Tom Otis at UCLA and Dr. Fred Gage at the Salk Institute before joining the faculty of the Department of Neurosciences at UCSD in 2016. His lab develops novel optical tools to interrogate the function of the nervous system in learning, memory, and brain disease. More recently, his lab discovered that the genome of the commonly used viral vector, adeno-associated virus (AAV) is highly toxic to neural progenitor cells. The Shtrahman lab is currently investigating the molecular mechanism for this phenomenon and its implications for neurodevelopmental and neurodegenerative diseases.



SHAI SILBERBERG, PhD

*Director of the Office of Research Quality
National Institute of Neurological Disorders and Stroke*

Dr. Shai Silberberg is the Director of the Office of Research Quality at the NIH National Institute of Neurological Disorders and Stroke (NINDS) leading the Institute efforts to increase the excellence of science and the completeness of research reporting. Dr. Silberberg obtained a Ph.D. in Neurophysiology from the Hebrew University in Jerusalem. Prior to joining NINDS in 2002, Dr. Silberberg was an Associate Professor at Ben-Gurion University of the Negev in Israel, investigating the biophysical functions and physiological roles of various ion channels.



MICHAEL TENNEKOON, Ph.D.

*Health Program Specialist, Office of Training and Workforce Development
National Institute of Neurological Disorders and Stroke, National Institutes of Health*

Dr. Tennekoon joined NINDS as a Health Program Specialist in May 2018. He earned his Ph.D. in Neuroscience from Northwestern University with support from a NINDS T32 funded training program. Subsequently, he received postdoctoral training at the National Institute for Drug Abuse in Baltimore. Dr. Tennekoon's research interests involved comparing differences in reward circuitry between healthy individuals and individuals who have maladaptive behaviors, such as smoking and other highly impulsive actions. He has used multifaceted approaches, including pharmacological and behavioral manipulations, MRI, and genetic studies to examine these underlying neural circuits. Throughout his career, Dr. Tennekoon has had a passion for training and has been involved in several career development symposia, workshops, and other training related activities.

FACULTY and SPEAKER BIOGRAPHIES

SAN FRANCISCO, CA MARCH 16-18, 2023

**SUZANNE THARIN, MD, PhD**

*Assistant Professor of Neurosurgery
Stanford University*

Suzanne Tharin, M.D., Ph.D. joined the faculty at Stanford University in 2012 as an Assistant Professor of Neurosurgery. Following her undergraduate degree in Physiology and a master's degree in Anatomy and Cell Biology at the University of Toronto, Dr. Tharin completed a PhD in Genetics at Cold Spring Harbor Laboratory and SUNY Stony Brook. She received her MD from Columbia University and then completed her neurosurgery residency at the Brigham and Women's Hospital/Children's Hospital Boston/Harvard Medical School program. She subsequently completed a clinical fellowship in complex spine surgery at the Cleveland Clinic. Her research program encompasses the molecular controls over cortical neuronal development, spinal cord injury, and regenerative strategies for spinal cord repair, including stem cell-based strategies. As a practicing neurosurgeon at the Palo Alto VA and Stanford University Hospital, Dr. Tharin is dedicated to translating an understanding of neural development into regenerative strategies for the treatment of spinal cord injury.

**DORIS WANG, MD, PhD**

*Assistant Professor, Neurological Surgery
UCSF School of Medicine*

Dr. Doris Wang is an Assistant Professor in the Department of Neurological Surgery at UCSF with a clinical and research focus in Stereotactic and Functional Neurosurgery. Dr. Wang completed her undergraduate studies in biology at Yale University. She became interested in the field of neurophysiology research during her undergraduate research with Dr. Angelique Bordey, where she studied ion channels in adult-born neural progenitor cells. Dr. Wang subsequently entered the Medical Scientist Training Program at UCSF to pursue her MD/PhD degrees. During her graduate work with Dr. Arnold Kriegstein, she discovered a novel mechanism of excitatory synapse formation during a critical period in cortical development. Dr. Wang completed her neurosurgery residency training at UCSF. During residency, she performed human neurophysiology research during under the mentorship of Dr. Philip Starr to study basal ganglia physiology of patients with movement disorders during deep brain stimulation (DBS) surgery. Following residency, Dr. Wang completed a one-year fellowship in Stereotactic and Functional Neurosurgery at UCSF. Currently, Dr. Wang's clinical interest is treating movement disorders using neuromodulation and ablative procedures. Her R01 funded research focus is to understand the network neurophysiology underlying gait and motor learning in patients with movement disorders. She is the former recent recipient of an NIH/NINDS K12 Neurosurgeon Research Career Development Award and a Burroughs-Wellcome Career Award for Medical Scientist.



JONATHAN WEINSTEIN, MD, PhD

*Professor, Neurology
University of Washington (UW)*

Dr. Weinstein is a clinician scientist with a focus on stroke at both the basic science and clinical levels. He has developed an independent NIH-funded research program focusing on the role of microglia and innate immune cell signaling pathways in the robustly protective ischemic preconditioning (IPC) phenomenon. His laboratory combines *in vivo* and *in vitro* methodologies to study IPC including multiple ischemia models for stroke and IPC, *ex vivo* flow cytometry/sorting, transcriptomic profiling of innate immune cells, single cell RNA seq, immunofluorescent microscopy, quantitative stereology and electrophysiology. Using these paradigms, Dr. Weinstein have demonstrated key roles for microglial type 1 interferon (IFN) signaling in IPC. He has also developed a novel model of IPC in white matter. His training included medical scientist training program (MSTP) at UC Irvine as well as neurology residency and stroke fellowship at UW (completed in 2007). His clinical work includes supervising in-patient attending for care of stroke and intracranial hemorrhage patients on the neurology/neurocritical care service at UW/Harborview Medical Center. He is also the director of the UW Neurology Residency Research Track Program and co-PI for a newly resubmitted institutional R25 from UW Neurology/Neurosurgery.



ZIV WILLIAMS, MD

*Associate Professor of Neurosurgery
Harvard Medical School*

Ziv Williams is an associate professor in neurosurgery at Massachusetts General Hospital, Harvard Medical School and is faculty at the Harvard-MIT division of health sciences and technology. Using an array of techniques in both animal models and humans, his main focus has been to investigate social cognition at the basic cellular level and to develop novel treatments for abnormal social behavior through neuro-modulatory and genetic techniques.

TALKS SESSION 1 Friday, 11:55am – 12:55am

SAN FRANCISCO, CA

MARCH 16-18, 2023

Location	Time	Name	Title of Talk	Faculty	Participants
Sandler Auditorium	11:55-12:10	Bender, Alex	Altered sleep micro-architecture in temporal lobe epilepsy	Dr. Albin Dr. Kleen Dr. Knowles Dr. Poduri Dr. Richerson Dr. Saper Dr. Shtrahman Dr. Pouratian Dr. Wang	Dr. Michelassi Dr. Srinivasan Dr. Marcott Dr. Rifkin Dr. Hammer Dr. Krishnamurthy Dr. Andrews Dr. Thomas Dr. Timbie Dr. Munoz Dr. Brown Dr. Wang Dr. Lindquist Dr. Lawlor Dr. Kammen Dr. Friedman
	12:10-12:25	Thum, Jasmine	Quantitative Neurophysiology Methods to Improve Nerve Transfers		
	12:25-12:40	Jamiolkowski, Ryan	The fasciola cinereum of the hippocampal tail is an epileptic focus and source of seizure recurrence		
	12:40-12:55	Chiang, Sharon	Neural mechanisms of abnormal memory consolidation in epilepsy		
Weill 381	11:55-12:10	Regenhardt, Robert	Infarct Topography in Large Vessel Occlusion Stroke	Dr. Chen Dr. Mack Dr. Hafler Dr. Carmichael Dr. McCullough Dr. Weinstein Dr. Fullerton Dr. Levitt	Dr. Holmes Dr. Perez Dr. Yoh Dr. Lane-Donovan Dr. Jeevarajan Dr. Fitzgerald Dr. Guo Dr. Duskin Dr. Linares
	12:10-12:25	Xu, Risheng	Mrgprb2-mediated neuroinflammation after cerebral ischemia		
	12:25-12:40	Fischer, David	Using brain network dynamics to understand and manage disorders of consciousness		

TALKS SESSION 1 Friday, 11:55am – 12:55pm

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Location	Time	Name	Title of Talk	Faculty	Participants
Weill 495	11:55-12:10	Ramani, Biswa	Defining the functional endogenous molecular chaperone network in the polyglutamine diseases	Dr. Tharin Dr. Hayden Gephart Dr. Shah Dr. Glykys Dr. Ho Dr. Porter Dr. Liao Dr. Burns Dr. Paredes Dr. Rexach	Dr. Tang Dr. Gardin Dr. Bennett Dr. Carrell Dr. Fischer, L Dr. Ellaithy Dr. Mo Dr. Han Dr. Jackson Dr. Andzelm Dr. Flavin Dr. Kulubya
	12:10-12:25	Jayaraman, Divya	Correlating molecular genetic testing for rare genetic variants with a broad clinicopathologic spectrum of congenital myopathies		
	12:25-12:40	Estevez-Ordenez, Dagoberto	Phase I clinical trial of oncolytic HSV-1 M032, a second-generation virus armed to expressed IL-12, for the treatment of recurrent or progressive high-grade glioma: Assessing molecular signals of response to treatment		
	12:40-12:55	Brosius, Stephanie	Interneurons that BiTE: A novel cellular therapy for high grade glioma		
Weill 615	11:55-12:10	Heuermann, Robert	Dopaminergic regulation of pain processing in the central amygdala	Dr. Cash Dr. Josephson Dr. Hinman Dr. Kuo Dr. Aguirre Dr. Williams Dr. Hervey-Jumper Dr. Lu Dr. Lhatoo	Dr. Herman Dr. Orlando Dr. Lu Dr. Rudman Dr. Giridharan
	12:10-12:25	Motzkin, Julian	Network correlates of analgesic brain stimulation for chronic pain		
	12:25-12:40	Elafros, Melissa	The Flint Neuropathy Study: assessing the prevalence of neuropathy in a predominantly Black, low-income patient population		
	12:40-12:55	Kerr, Wesley T	Advancing Clinical and Neuroimaging Biomarkers of Functional Seizures		

TALKS SESSION 2 Friday, 2:15pm – 3:15pm

SAN FRANCISCO, CA

MARCH 16-18, 2023

<i>Location</i>	<i>Time</i>	<i>Participant Name</i>	<i>Title of Talk</i>	<i>Assigned Faculty</i>	<i>Assigned Participants</i>
Sandler Auditorium	2:15-2:30	Michelassi, Francesco	The Relation Between Neuronal Activity and Vulnerability to Stasimon Loss	Dr. Poduri Dr. Lhatoo Dr. Cash Dr. Saper Dr. Richerson Dr. Williams Dr. Kleen Dr. Shtrahman Dr. Pouratian Dr. Knowles	Dr. Bender Dr. Fischer, D Dr. Elafros Dr. Marcott Dr. Rifkin Dr. Thum Dr. Motzkin Dr. Munoz Dr. Duskin Dr. Thomas Dr. Jamiolkowski Dr. Heurman Dr. Jeevarajan Dr. Andrews Dr. Wang Dr. Chiang Dr. Kerr Dr. Lawlor Dr. Kammen Dr. Friedman
	2:30-2:45	Hammer, Lauren	Using machine learning to estimate Parkinsonian clinical state from neural signals for adaptive DBS		
	2:45-3:00	Timbie, Claire	Selective inhibition of thalamic pathways by the amygdala		
	3:00-3:15	Lindquist, Britta	Acid-base status affects susceptibility to spreading depolarization		
Weill 381	2:15-2:30	Holmes, Brandon	A β Fibrils Induce Microglial Biosynthesis of Heparan Sulfate Proteoglycans and Lead to Increased Tau Phagocytosis	Dr. Burns Dr. Hayden Gephart Dr. Weinstein Dr. McCullough Dr. Albin Dr. Carmichael Dr. Hafler Dr. Wang Dr. Rexach	Dr. Wilcox Dr. Jayaraman Dr. Regenhardt Dr. Fischer, L Dr. Xu Dr. Brown Dr. Ramani Dr. Flavin
	2:30-2:45	Lane-Donovan, Courtney	Illuminating Lysosomal Dysfunction in Aging and Neurodegenerative Disease		
	2:45-3:00	Guo, Michael	Transcriptional dysregulation of RNA binding proteins propagate splicing defects in familial Alzheimer's disease		
	3:00-3:15	Linares, Anthony	Integrated Spatial Genomics to Study the Cell-Type Specific Changes in Human Alzheimer's Disease		

TALKS SESSION 2 Friday, 2:15pm – 3:15pm

SAN FRANCISCO, CA

MARCH 16-18, 2023

<i>Location</i>	<i>Time</i>	<i>Participant Name</i>	<i>Title of Talk</i>	<i>Assigned Faculty</i>	<i>Assigned Participants</i>
Weill 495	2:15-2:30	Srinivasan, Sharan	Potassium Channel Activators for Therapeutic Rescue in Spinocerebellar Ataxia	Dr. Kuo Dr. Tharin Dr. Ho Dr. Aguirre Dr. Chen Dr. Hervey-Jumper Dr. Lu Dr. Hinman	Dr. Estevez-Ordonez Dr. Rudman Dr. Bennett Dr. Brosius Dr. Han Dr. Ellaithy Dr. Lu Dr. Pappalardo Dr. Jackson Dr. Krishnamurthy Dr. Yoh Dr. Kulubya
	2:30-2:45	Tang, Yunshuo (Caroline)	Estrogen Induces IL-1 β to Mediate Retinal Ganglion Cell Loss in Murine Optic Glioma		
	2:45-3:00	Perez, Enmanuel	Effect of astrocyte and microglial ApoE on TBI-mediated neuroinflammation and neurodegeneration		
Weill 615	2:15-2:30	Carrell, Samuel	Targeting the tissue and the transgene for myotonic dystrophy	Dr. Paredes Dr. Shah Dr. Josephson Dr. Levitt Dr. Glykys Dr. Fullerton Dr. Porter Dr. Liao Dr. Mack	Dr. Herman Dr. Giridharan Dr. Orlando Dr. Fitzgerald
	2:30-2:45	Mo, Alisa	Somatic mosaicism in regulatory regions in the autism brain		
	2:45-3:00	Gardin, Tova	Characterizing transcriptional profiles of leukocytes/examining imbalance of stimulatory and inhibitory molecules, looking at B-cells etc.		

POSTER SESSION Friday, 3:30 p.m. - 5:00 p.m.

SAN FRANCISCO, CA

MARCH 16-18, 2023

	Name	Institution	Poster Title	Assigned Faculty
1	Andrews, John	UCSF	Multimodal profiling of the epileptic human hippocampus	Dr. Shtrahman Dr. Poduri
2	Bennett, Mariko	Penn	What do microglia do? Targeting microglia for neurotherapeutic design	Dr. Burns Dr. Rexach
3	Brown, Christopher	Penn	Prediction of Regional Tau Spread Using Individualized Tau Epicenters and Structural Connectomes	Dr. Knowles Dr. Hinman
4	Duskin, Jonathan	MGH	Relationship between Nutrition Markers and Post-Intracerebral Hemorrhage Cognitive Outcomes	Dr. Mack Dr. Chen
5	Ellaithy, Amr	MGH	Investigating the therapeutic mechanism of cannabidiol in Drave syndrome	Dr. Glykys Dr. Fecci
6	Fischer, D. Luke	UCSF	Distinct inclusions of α -synuclein and tau in temporal cortex of Lewy body disease	Dr. Albin Dr. McCullough
7	Fitzgerald, Dennis	Boston Childrens	Elucidating the Role of the Lateral Parabrachial Nucleus in Opioid-Induced Respiratory depression	Dr. Richerson Dr. Glykys
8	Flavin, Bill	UCLA	Defining cellular factors that promote resilience against prion-like propagation of alpha-synuclein and tau	Dr. McCullough Dr. Tharin
9	Friedman, Gabriel	MGH	Recapitulating proprioceptive function via biological actuation in a neural prosthetic model	Dr. Poration Dr. Hervey-Jumper
10	Giridharan, Nisha	Baylor	Identification of neural biomarkers of obsessive-compulsive symptom severity using a provocation task	Dr. Lhatoo Dr. Albin
11	Han, Rowland	WUSTL	Diffusion basis spectrum imaging distinguishes high-grade glioma progression from treatment effect	Dr. Ho Dr. Shah
12	Herman, Wendy	Boston Childrens	Networks involved in autism spectrum disorder	Dr. Paredes Dr. Fullerton
13	Jackson, Joshua	Duke	Interferon Signaling in the Glioblastoma Microenvironment as a Driver of Resistance to Checkpoint Blockade	Dr. Hayden Gephart Dr. Levitt
14	Jeevarajan, Jerome	UT Houston	Machine Learning Enabled Outcomes Prediction for Endovascular Stroke Therapy	Dr. Mack

POSTER SESSION Friday, 3:30 pm - 5:00 pm

SAN FRANCISCO, CA

MARCH 16-18, 2023

	Name	Institution	Poster Title	Assigned Faculty
15	Kammen, Alexandra	USC	Probing structural and electrophysiologic connectivity in epilepsy: a patient-specific semi-automated analysis	Dr. Lhatoo Dr. Kleen
16	Krishnamurthy, Kamesh	UCSF	Impact of Exercise on Myelination and Cognitive Recovery after rmTBI	Dr. Hafler Dr. Carmichael
17	Kulubya, Edwin	UC Davis	Placental Mesenchymal Stromal/Stem Cells and Extracellular Vesicles Seeded on a Dural Graft Improved Motor Function Recovery After Acute Spinal Cord Injury	Dr. Kuo Dr. Lu
18	Lawlor, Patrick	Penn	Computational Circuit Modeling of Interneuron Dysfunction in a Mouse Model of Dravet Syndrome	Dr. Porter Dr. Knowles
19	Lu, Victor	Miami	The etiology and impact of postinfectious hydrocephalus in Haiti	Dr. Josephson Dr. Aguirre
20	Marcott, Pamela	UCSF	Investigating mechanisms of sleep dysregulation in a mouse model of Parkinson's disease	Dr. Saper Dr. Cash
21	Munoz, William	MGH	Single-neuron and columnar computations in the human prefrontal cortex during speech.	Dr. Richerson Dr. Kleen
22	Orlando, Christopher	UT Houston	Social Determinants of Health and Disparate Disability Accumulation In a Cohort of Black, Hispanic, and White Patients with Multiple Sclerosis	Dr. Hafler Dr. Liao
24	Rifkin, Robert	Columbia	Metabotropic inhibition in altering the excitatory-inhibitory balance of focal neurocortical epilepsy	Dr. Cash Dr. Lu
25	Rudman, Michelle	WUSTL	Effect of statins on brain APOE	Dr. Hinman Dr. Liao
26	Thomas, Rachel	Penn	Cortical spreading depolarizations (CSDs) as targets for intervention in secondary TBI	Dr. Williams Dr. Shtrahman
27	Wang, Amy	MGH	Neurophysiology of processing liminal percepts in humans	Dr. Aguirre Dr. Wang
28	Yoh, Nina	Columbia	Focused Ultrasound Opening of the Blood Brain Barrier for Delivery of ONC201 in Diffuse Midline Glioma	Dr. Hayden Gephart Dr. Ho

SPECIFIC AIMS Saturday, 8:45am-9:45am

SAN FRANCISCO, CA

MARCH 16-18, 2023

<i>Name</i>	<i>Institution</i>	<i>Title</i>	<i>Faculty</i>	<i>Location</i>
Jamiolkowski, Ryan	Stanford	The fasciola cinereum of the hippocampal tail is an epileptic focus and source of seizure recurrence	Dr. Lhatoo Dr. Poduri	Sandler 238
Kerr, Wesley	Michigan	Advancing Clinical and Neuroimaging Biomarkers of Functional Seizures		
Fischer, David	MGH	Disorders of consciousness in COVID-19		
Heuermann, Robert	Washington University	Dopaminergic regulation of pain processing in the central amygdala	Dr. Saper Dr. Richerson Dr. Chen	Sandler 332
Motzkin, Julian	UCSF	Network correlates of analgesic brain stimulation for chronic pain		
Lindquist, Britta	UCSF	Acid-base status affects susceptibility to spreading depolarization		
Hammer, Lauren	UCSF	Using machine learning to estimate Parkinsonian clinical state from neural signals for adaptive DBS	Dr. Williams Dr. Albin Dr. Aguirre	Sandler 232
Gardin, Tova	Yale	Characterizing transcriptional profiles of leukocytes/examining imbalance of stimulatory and inhibitory molecules, etc.		
Timbie, Clare	UCSF	Selective inhibition of thalamic pathways by the amygdala		
Lane-Donovan, Courtney	UCSF	Illuminating Lysosomal Dysfunction in Aging and Neurodegenerative Disease	Dr. Lu Dr. Burns Dr. Levitt	Sandler 304
Guo, Michael	Penn	Transcriptional dysregulation of RNA binding proteins propagate splicing defects in familial Alzheimer's disease		
Holmes, Brandon	UCSF	A β Fibrils Induce Microglial Biosynthesis of Heparan Sulfate Proteoglycans and Lead to Increased Tau Phagocytosis		
Linares, Anthony	UCLA	Integrated Spatial Genomics to Study the Cell-Type Specific Changes in Human Alzheimer's Disease		

SPECIFIC AIMS Saturday, 8:45am-9:45am

SAN FRANCISCO, CA

MARCH 16-18, 2023

Name	Institution	Title	Faculty	Location
Lu, Victor	Miami	The etiology and impact of postinfectious hydrocephalus in Haiti	Dr. Gupta Dr. Josephson	Sandler 338
Elafros, Melissa	Michigan	The Flint Neuropathy Study: assessing the prevalence of neuropathy in a predominantly Black, low-income patient population		
Brosius, Stephanie	Penn	Interneurons that BiTE: A novel cellular therapy for high grade glioma	Dr. Ho Dr. Liau Dr. Hinman	Sandler 404
Ramani, Biswa	UCSF	Defining the functional endogenous molecular chaperone network in the polyglutamine diseases		
Tang, Yunshuo (Caroline)	Washington University	Estrogen Induces IL-1 β to Mediate Retinal Ganglion Cell Loss in Murine Optic Glioma		
Mo, Alisa	Boston Childrens	Somatic mosaicism in regulatory regions in the autism brain	Dr. Porter Dr. Glykys	Sandler 432
Chiang, Sharon	UCSF	Neural mechanisms of abnormal memory consolidation in epilepsy		
Bender, Alex	MGH	Altered sleep micro-architecture in temporal lobe epilepsy		
Srinivasan, Sharan	Michigan	Potassium Channel Activators for Therapeutic Rescue in Spinocerebellar Ataxia	Dr. Kuo Dr. Shtrahman	Sandler 438
Thum, Jasmine	MGH	Quantitative Neurophysiology Methods to Improve Nerve Transfers		
Carrell, Samuel	Penn	Targeting the tissue and the transgene for myotonic dystrophy	Dr. Fullerton Dr. Tharin	Sandler 538
Regenhardt, Robert	MGH	Infarct Topography in Large Vessel Occlusion Stroke		
Jayaraman, Divya	Boston Childrens	Correlating molecular genetic testing for rare genetic variants with a broad clinicopathologic spectrum of congenital myopathies	Dr. Hafler Dr. McCullough	Sandler 532
Xu, Risheng	Hopkins	Mrgprb2-mediated neuroinflammation after cerebral ischemia		

SPEAKER/FACULTY ASSIGNMENTS

SAN FRANCISCO, CA

MARCH 16-18, 2023

<i>Name</i>	<i>Institution</i>	<i>Talks Session I (11:55-12:55pm)</i>	<i>Talks Session II (2:15-3:15pm)</i>	<i>Poster Assignment</i>	<i>Specific Aims</i>
Aguirre	U. Pennsylvania	Weill 615	Weill 495	19 - Lu 27 - Wang	Sandler 232 Hammer Timbie Gardin
Albin	U. Michigan	Sandler Auditorium	Weill 381	6 - D. Fischer 10 - Giridharan	Sandler 232 Hammer Timbie Gardin
Burns	UCLA	Weill 495	Weill 381	2 - Bennett	Sandler 304 Lane-Donovan Guo Holmes Linares
Carmichael	UCLA	Weill 381	Weill 381	16 - Krishnamurthy	Sandler Auditorium
Cash	Harvard	Weill 615	Sandler Auditorium	20 - Marcott 24 - Rifkin	
Chen	U. Pennsylvania	Weill 381	Weill 493	4 - Duskin	Sandler 332 Heuermann Motzkin Lindquist
Fullerton	UCSF	Weill 381	Weill 615	12 - Herman	Sandler 538 Carrell Regenhardt
Glykys	U. Iowa	Weill 495	Weill 615	5 - Ellaithy 7 - Fitzgerald	Sandler 432 Mo Chiang Bender
Gupta	UCSF				Sandler 338 Lu Elafros
Hafler	Yale	Weill 381	Weill 381	16 - Krishnamurthy 22 - Orlando	Sandler 532 Jayaraman Xu
Hayden Gephart	Stanford	Weill 495	Weill 381	13 - Jackson 28 - Yoh	
Hervey-Jumper	UCSF	Weill 615	Weill 495	9 - Friedman	
Hinman	UCLA	Weill 615	Weill 495	3 - Brown 25 - Rudman	Sandler 404 Brosius Ramani Tang

SPEAKER/FACULTY ASSIGNMENTS

SAN FRANCISCO, CA

MARCH 16-18, 2023

Name	Institution	Talks Session I (11:55-12:55pm)	Talks Session II (2:15-3:15pm)	Poster Assignment	Specific Aims
Ho	UCSF	Weill 495	Weill 495	11 - Han 28 - Yoh	Sandler 404 Brosius Ramani Tang
Josephson	UCSF	Weill 615	Weill 615	19 - Lu	Sandler 338 Lu Elafros
Kleen	UCSF	Sandler Auditorium	Sandler Auditorium	15 - Kammen 21 - Munoz	
Knowles	Stanford	Sandler Auditorium	Sandler Auditorium	3 - Brown 18 - Lawlor	
Kuo	Columbia	Weill 615	Weill 495	17 - Kulubya	Sandler 438 Srinivasan Thum
Levitt	U. Washington	Weill 381	Weill 615	13 - Jackson	Sandler 304 Lane-Donovan Guo Holmes Linares
Lhatoo	UTHealth	Weill 615	Sandler Auditorium	10 - Giridharan 15 - Kammen	Sandler 238 Jamiolkowski Kerr D. Fischer
Liau	UCLA	Weill 495	Weill 615	22 - Orlando 25 - Rudman	Sandler 404 Brosius Ramani Tang
Lim	Stanford				
Lu	UCLA	Weill 615	Weill 495	17 - Kulubya 24 - Rifkin	Sandler 304 Lane-Donovan Guo Holmes Linares
Mack	U. Southern California	Weill 381	Weill 615	4 - Duskin 14 - Jeevarajan	Weill 381
McCullough	UTHealth	Weill 381	Weill 381	6 - D. Fischer 8 - Flavin	Sandler 532 Jayaraman Xu
Paredes	UCSF	Weill 495	Weill 615	13 - Herman	

SPEAKER/FACULTY ASSIGNMENTS

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MARCH 16-18, 2023

Name	Institution	Talks Session I (11:55-12:55pm)	Talks Session II (2:15-3:15pm)	Poster Assignment	Specific Aims
Poduri	Harvard	Sandler Auditorium	Sandler Auditorium	1 - Andrews	Sandler 238 Jamiolkowski Kerr D. Fischer
Porter	Stanford	Weill 495	Weill 615	18 - Lawlor	Sandler 432 Mo Chiang Bender
Pouratian	UCLA	Sandler Auditorium	Sandler Auditorium	9 - Friedman	
Rexach	UCLA	Weill 495	Weill 381	2 - Bennett	
Richerson	U. Iowa	Sandler Auditorium	Sandler Auditorium	7 - Fitzgerald 21 - Munoz	Sandler 332 Heuermann Motzkin Lindquist
Saper	Harvard	Sandler Auditorium	Sandler Auditorium	20 - Marcott	Sandler 332 Heuermann Motzkin Lindquist
Shah	U. Miami	Weill 495	Weill 615	11 - Han	
Shtrahman	UCSD	Sandler Auditorium	Sandler Auditorium	1 - Andrews 26 - Thomas	Sandler 438 Srinivasan Thum
Tharin	Stanford	Weill 495	Weill 495	8 - Flavin	Sandler 538 Carrell Regenhardt
Wang	UCSF	Sandler Auditorium	Weill 381	27 - Wang	
Weinstein	U. Washington	Weill 381	Weill 381		
Williams	Harvard	Weill 615	Sandler Auditorium	26 - Thomas	Sandler 232 Hammer Gardin Timbie

PARTICIPANT ASSIGNMENTS

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<i>Last Name</i>	<i>Institution</i>	<i>Talks Session I (11:55-12:55pm)</i>	<i>Talks Session II (2:15-3:15pm)</i>	<i>Poster Assignment</i>	<i>Specific Aims/ Step by Step</i>
Andrews, John	UCSF	Sandler Auditorium	Sandler Auditorium	N/A	Weill 381
Bender, Alex	Massachusetts General Hospital	Sandler Auditorium	Sandler Auditorium	N/A	Sandler 432 Dr. Porter Dr. Glykys
Bennett, Mariko	Children's Hospital of Philadelphia	Weill 495	Weill 495	N/A	Sandler Auditorium
Brosius, Stephanie	Children's Hospital of Philadelphia	Weill 495	Weill 495	N/A	Sandler 404 Dr. Ho Dr. Liau Dr. Hinman
Brown, Christopher	U. Pennsylvania	Sandler Auditorium	Weill 381	N/A	Sandler Auditorium
Carrell, Samuel	U. Pennsylvania	Weill 495	Weill 615	N/A	Sandler 538 Dr. Fullerton Dr. Tharin
Chiang, Sharon	UCSF	Sandler Auditorium	Sandler Auditorium	N/A	Sandler 432 Dr. Porter Dr. Glykys
Duskin, Jonathan	Massachusetts General Hospital	Weill 381	Sandler Auditorium	N/A	Sandler Auditorium
Elafros, Melissa	U. Michigan	Weill 615	Sandler Auditorium	N/A	Sandler 338 Dr. Gupta Dr. Josephson
Ellaithy, Amr	Massachusetts General Hospital	Weill 495	Weill 495	N/A	Sandler Auditorium
Estevez-Ordonez, Dagoberto	U. Alabama at Birmingham	Weill 495	Weill 495	N/A	Weill 381
Fischer, D. Luke	UCSF	Weill 495	Weill 381	N/A	Sandler Auditorium
Fischer, David	U. Pennsylvania	Weill 381	Sandler Auditorium	N/A	Sandler 238 Dr. Lhatoo Dr. Poduri

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<i>Last Name</i>	<i>Institution</i>	<i>Talks Session I (11:55-12:55pm)</i>	<i>Talks Session II (2:15-3:15pm)</i>	<i>Poster Assignment</i>	<i>Specific Aims/ Step by Step</i>
Fitzgerald, Dennis	Beth Israel Deaconess Medical Center	Weill 381	Weill 615	N/A	Sandler Auditorium
Flavin, Bill	UCLA	Weill 495	Weill 381	N/A	Sandler Auditorium
Friedman, Gabriel	Massachusetts General Hospital	Sandler Auditorium	Sandler Auditorium	N/A	Weill 381
Gardin, Tova	Yale University	Weill 495	Weill 615	N/A	Sandler 232 Dr. Williams Dr. Albin Dr. Aguirre
Giridharan, Nisha	Baylor College of Medicine	Weill 615	Weill 615	N/A	Weill 381
Guo, Michael	U. Pennsylvania	Weill 381	Weill 381	N/A	Sandler 304 Dr. Lu Dr. Burns Dr. Levitt
Hammer, Lauren	UCSF	Sandler Auditorium	Sandler Auditorium	N/A	Sandler 232 Dr. Williams Dr. Albin Dr. Aguirre
Han, Rowland	Washington U. in Saint Louis	Weill 495	Weill 495	N/A	Weill 381
Herman, Wendy	Boston Children's Hospital	Weill 615	Weill 615	N/A	Sandler Auditorium
Heuermann, Robert	Washington U. in Saint Louis	Weill 615	Sandler Auditorium	N/A	Sandler 332 Dr. Saper Dr. Richerson Dr. Chen
Holmes, Brandon	UCSF	Weill 381	Weill 381	N/A	Sandler 304 Dr. Lu Dr. Burns Dr. Levitt
Jackson, Joshua	Duke University	Weill 495	Weill 495	N/A	Weill 381
Jamiolkowski, Ryan	Stanford University	Sandler Auditorium	Sandler Auditorium	N/A	Sandler 238 Dr. Lhatoo Dr. Poduri
Jayaraman, Divya	Boston Children's Hospital	Weill 495	Weill 381	N/A	Sandler 532 Dr. Hafler Dr. McCullough
Jeevarajan, Jerome	UTHealth	Weill 381	Sandler Auditorium	N/A	
Kammen, Alexandra	U. Southern California	Sandler Auditorium	Sandler Auditorium	N/A	Weill 381
Kerr, Wesley	U. Michigan	Weill 615	Sandler Auditorium	N/A	Sandler 238 Dr. Lhatoo/ Dr. Poduri

PARTICIPANT ASSIGNMENTS

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<i>Last Name</i>	<i>Institution</i>	<i>Talks Session I (11:55-12:55pm)</i>	<i>Talks Session II (2:15-3:15pm)</i>	<i>Poster Assignment</i>	<i>Specific Aims/ Step by Step</i>
Krishnamurthy, Kamesh	UCSF	Sandler Auditorium	Weill 495	N/A	Sandler Auditorium
Kulubya, Edwin	U. California, Davis	Weill 495	Weill 495	N/A	Weill 381
Lane-Donovan, Courtney	UCSF	Weill 381	Weill 381	N/A	Sandler 304 Dr. Lu Dr. Burns Dr. Levitt
Lawlor, Patrick	Children's Hospital of Philadelphia	Sandler Auditorium	Sandler Auditorium	N/A	Sandler Auditorium
Linares, Anthony	UCLA	Weill 381	Weill 381	N/A	Sandler 304 Dr. Lu Dr. Burns Dr. Levitt
Lindquist, Britta	UCSF	Sandler Auditorium	Sandler Auditorium	N/A	Sandler 332 Dr. Saper Dr. Richerson Dr. Chen
Lu, Victor	U. Miami	Weill 615	Weill 495	N/A	Sandler 338 Dr. Gupta Dr. Josephson
Marcott, Pamela	UCSF	Sandler Auditorium	Sandler Auditorium	N/A	Sandler Auditorium
Michelassi, Francesco	Columbia U.	Sandler Auditorium	Sandler Auditorium	N/A	
Mo, Alisa	Boston Children's Hospital	Weill 495	Weill 615	N/A	Sandler 432 Dr. Porter Dr. Glykys
Motzkin, Julian	UCSF	Weill 615	Sandler Auditorium	N/A	Sandler 332 Dr. Saper Dr. Richerson Dr. Chen
Munoz, William	Massachusetts General Hospital	Sandler Auditorium	Sandler Auditorium	N/A	Weill 381
Orlando, Christopher	UTHealth	Weill 615	Weill 615	N/A	Sandler Auditorium

PARTICIPANT ASSIGNMENTS

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<i>Last Name</i>	<i>Institution</i>	<i>Talks Session I (11:55-12:55pm)</i>	<i>Talks Session II (2:15-3:15pm)</i>	<i>Poster Assignment</i>	<i>Specific Aims/ Step by Step</i>
Perez, Enmanuel	Washington U. in Saint Louis	Weill 381	Weill 495	N/A	Sandler Auditorium
Ramani, Biswarathan	UCSF	Weill 495	Weill 381	N/A	Sandler 404 Dr. Ho Dr. Liao Dr. Hinman
Regenhardt, Robert	Massachusetts General Hospital	Weill 381	Weill 381	N/A	Sandler 538 Dr. Fullerton Dr. Tharin
Rifkin, Robert	Columbia U., Irving Medical Center	Sandler Auditorium	Sandler Auditorium	N/A	Sandler Auditorium
Rudman, Michelle	Washington U. in Saint Louis	Weill 615	Weill 495	N/A	Sandler Auditorium
Srinivasan, Sharan	U. Michigan	Sandler Auditorium	Weill 495	N/A	Sandler 438 Dr. Kuo Dr. Shtrahman
Tang, Yunshuo	Washington U. in Saint Louis	Weill 495	Weill 495	N/A	Sandler 404 Dr. Ho Dr. Liao Dr. Hinman
Thomas, Rachel	U. Pennsylvania	Sandler Auditorium	Sandler Auditorium	N/A	Sandler Auditorium
Thum, Jasmine	UCLA	Sandler Auditorium	Sandler Auditorium	N/A	Sandler 438 Dr. Kuo Dr. Shtrahman
Timbie, Clare	UCSF	Sandler Auditorium	Sandler Auditorium	N/A	Sandler 232 Dr. Williams Dr. Albin Dr. Aguirre
Wang, Amy	Massachusetts General Hospital	Sandler Auditorium	Sandler Auditorium	N/A	Weill 381
Xu, Risheng	Johns Hopkins U. School of Medicine	Weill 381	Weill 381	N/A	Sandler 532 Dr. Hafler Dr. McCullough
Yoh, Nina	Columbia U.	Weill 381	Weill 495	N/A	Weill 381

2023 NINDS R25 GRANTEE WORKSHOP

PARTICIPANT LIST

SAN FRANCISCO, CA

MARCH 16-18, 2023

<i>Last Name</i>	<i>First Name</i>	<i>Email</i>	<i>Organization/Company/Institution</i>
------------------	-------------------	--------------	---

Aguirre	Geoffrey	aguirreg@upenn.edu	University of Pennsylvania
Albin	Roger	ralbin@med.umich.edu	University of Michigan
Andrews	John	john.andrews@ucsf.edu	University of California, San Francisco
Andzelm	Milena	milena.andzelm@childrens.harvard.edu	Boston Children's Hospital
Bender	Alex	acbender@partners.org	Massachusetts General Hospital
Bennett	Mariko	bennettm2@chop.edu	Children's Hospital of Philadelphia
Benzing	William	benzingw@ninds.nih.gov	National Institute of Neurological Disorders and Stroke, NIH
Brosius	Stephanie	brosiuss@chop.edu	Children's Hospital of Philadelphia
Brown	Christopher	christopher.brown@penmedicine.upenn.edu	University of Pennsylvania
Burns	Terry	burns.terry@mayo.edu	Mayo Clinic
Carmichael	S. Thomas	scarmichael@mednet.ucla.edu	David Geffen School of Medicine, University of California, Los Angeles
Carrell	Samuel	samuel.carrell@penmedicine.upenn.edu	University of Pennsylvania
Cash	Sydney	scash@mgh.harvard.edu	Massachusetts General Hospital
Chang	Edward	edward.chang@ucsf.edu	University of California, San Francisco
Chen	H. Isaac	Isaac.Chen@penmedicine.upenn.edu	University of Pennsylvania
Chen	Han-Chiao	Isaac.Chen@penmedicine.upenn.edu	University of Pennsylvania
Chiang	Sharon	Sharon.Chiang@ucsf.edu	University of California, San Francisco
Duskin	Jonathan	duskin@bwh.harvard.edu	Massachusetts General Hospital
Elafros	Melissa	elafrome@med.umich.edu	University of Michigan
Ellaithy	Amr	aellaithy@bwh.harvard.edu	Massachusetts General Hospital



<i>Last Name</i>	<i>First Name</i>	<i>Email</i>	<i>Organization/Company/Institution</i>
Estevez-Ordonez	Dagoberto	destevezordonez@uabmc.edu	University of Alabama at Birmingham

Fecci	Peter	peter.fecci@duke.edu	Duke University Medical Center
Fischer	D. Luke	david.fischer2@ucsf.edu	University of California, San Francisco
Fischer	David	d.b.fisch@gmail.com	University of Pennsylvania
Fitzgerald	Dennis	dfitzge1@bidmc.harvard.edu	Beth Israel Deaconess Medical Center
Flavin	Bill	wflavin@mednet.ucla.edu	University of California, Los Angeles
Friedman	Gabriel	gfriedman1@partners.org	Massachusetts General Hospital
Fullerton	Heather	heather.fullerton@ucsf.edu	University of California, San Francisco
Gardin	Tova	Tova.gardin@yale.edu	Yale University
Giridharan	Nisha	nisha.giridharan@bcm.edu	Baylor College of Medicine
Glykys	Joseph	joseph-glykys@uiowa.edu	University of Iowa
Guo	Michael	michael.guo@penntmedicine.upenn.edu	University of Pennsylvania
Gupta	Nalin	nalin.gupta@ucsf.edu	University of California, San Francisco
Hafler	David	david.hafler@yale.edu	Yale University
Hammer	Lauren	lauren.hammer@ucsf.edu	University of California, San Francisco
Han	Rowland	rowland.han@wustl.edu	Washington University in Saint Louis
Hayden Gephart	Melanie	mghayden@stanford.edu	Stanford University
Herman	Wendy	wendy.herman@childrens.harvard.edu	Boston Children's Hospital
Hervey-Jumper	Shawn	Shawn.hervey-jumper@ucsf.edu	University of California, San Francisco
Heuermann	Robert	rjheuerm@wustl.edu	Washington University in Saint Louis



2023 NINDS R25 GRANTEE WORKSHOP

PARTICIPANT LIST

SAN FRANCISCO, CA MARCH 16-18, 2023

<i>Last Name</i>	<i>First Name</i>	<i>Email</i>	<i>Organization/Company/Institution</i>
Hinman	Jason	jhinman@mednet.ucla.edu	University of California, Los Angeles
Ho	Winston		University of California, San Francisco
Holmes	Brandon	brandon.holmes2@ucsf.edu	University of California, San Francisco

Jackson	Joshua	joshua.jackson@duke.edu	Duke University
Jamiolkowski	Ryan	jamiolk@gmail.com	Stanford University
Jayaraman	Divya	Divya.Jayaraman@childrens.harvard.edu	Boston Children's Hospital
Jeevarajan	Jerome	jerome.a.jeevarajan@uth.tmc.edu	The University of Texas Health Science Center at Houston
Josephson	S. Andrew	Neuroea@ucsf.edu	University of California, San Francisco
Kammen	Alexandra	alexkammen@gmail.com	University of Southern California
Kerr	Wesley	kerrwe@med.umich.edu	University of Michigan
Kim	Jennifer	Jkim256@jhmi.edu	Johns Hopkins University School of Medicine
Kleen	Jonathan	jon.kleen@ucsf.edu	University of California, San Francisco
Knowles	Juliet	jkk1@stanford.edu	Stanford University School of Medicine
Korn	Stephen	korns@ninds.nih.gov	National Institute of Neurological Disorders and Stroke, NIH
Krishnamurthy	Kamesh	kamesh.krishnamurthy@ucsf.edu	University of California, San Francisco
Kulubya	Edwin	ekulubya@ucdavis.edu	University of California, Davis
Kuo	Sheng-Han	sk3295@columbia.edu	Columbia University
Lane-Donovan	Courtney	courtney.lane-donovan@ucsf.edu	University of California, San Francisco
Lawlor	Patrick	lawlorp1@chop.edu	Children's Hospital of Philadelphia
Levitt	Michael	mlevitt@uw.edu	University of Washington

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PARTICIPANT LIST

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<i>Last Name</i>	<i>First Name</i>	<i>Email</i>	<i>Organization/Company/Institution</i>
Lhatoo	Samden	samden.d.lhatoo@uth.tmc.edu	The University of Texas Health Science Center at Houston
Liau	Linda	LLIAU@mednet.ucla.edu	University of California, Los Angeles
Lim	Michael	mklim@stanford.edu	Stanford University School of Medicine

Linares	Anthony	alinares@mednet.ucla.edu	University of California, Los Angeles
Lindquist	Britta	britta.lindquist@ucsf.edu	University of California, San Francisco
Lu	Daniel	dclu@mednet.ucla.edu	University of California, Los Angeles
Lu	Victor	vml43@med.miami.edu	University of Miami
Mack	William	William.mack@med.usc.edu	University of Southern California
Marcott	Pamela	pamela.marcott@gmail.com	University of California, San Francisco
McCullough	Louise	louise.d.mccullough@uth.tmc.edu	The University of Texas Health Science Center at Houston
Michelassi	Francesco	fem2104@cumc.columbia.edu	Columbia University
Mo	Alisa	alisa.mo@childrens.harvard.edu	Boston Children's Hospital
Motzkin	Julian	julian.motzkin@ucsf.edu	University of California, San Francisco
Munoz	William	wmunozmiranda@mgh.harvard.edu	Massachusetts General Hospital
Orlando	Christopher	christopher.m.orlando@uth.tmc.edu	The University of Texas Health Science Center at Houston
Pappalardo	Laura	laura.pappalardo@penntmedicine.upenn.edu	University of Pennsylvania
Paredes	Mercedes	Mercedes.Paredes@ucsf.edu	University of California, San Francisco
Perez	Enmanuel	eperezmartinez@wustl.edu	Washington University in Saint Louis
Poduri	Ann	annapurna.poduri@childrens.harvard.edu	Boston Children's Hospital
Porter	Brenda	brenda2@stanford.edu	Stanford University

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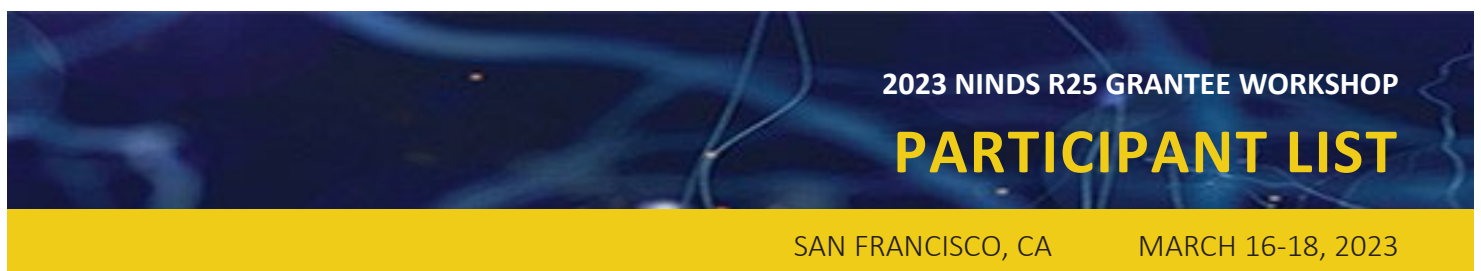
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<i>Last Name</i>	<i>First Name</i>	<i>Email</i>	<i>Organization/Company/Institution</i>
Pouratian	Nader	nader.pouratian@utsouthwestern.edu	The University of Texas Southwestern Medical Center
Ramani	Biswarathan	biswa2919231@gmail.com	University of California, San Francisco
Regenhardt	Robert	robert.regenhardt@mgh.harvard.edu	Massachusetts General Hospital
Rexach	Jessica	JRexach@mednet.ucla.edu	University of California, Los Angeles

Richerson	George	george-richerson@uiowa.edu	University of Iowa
Rifkin	Robert	rr3302@cumc.columbia.edu	Columbia University, Irving Medical Center
Rogawski	Michael	rogawski@ucdavis.edu	University of California, Davis
Rudman	Michelle	mdrudman@wustl.edu	Washington University in Saint Louis
Saper	Clifford	csaper@bidmc.harvard.edu	Beth Israel Deaconess Medical Center
Shah	Ashish	ashah@med.miami.edu	University of Miami
Shtrahman	Matthew	mshtrahman@ucsd.edu	University of California, San Diego
Silberberg	Shai	silberbs@ninds.nih.gov	National Institute of Neurological Disorders and Stroke, NIH
Srinivasan	Sharan	sharans@med.umich.edu	University of Michigan
Tang	Yunshuo	tangyunshuo@wustl.edu	Washington University in Saint Louis
Tennekoon	Michael	michael.tennekoon@nih.gov	National Institute of Neurological Disorders and Stroke, NIH
Tharin	Suzanne	stharin@stanford.edu	Stanford University
Thomas	Rachel	Rachel.Thomas1@pennmedicine.upenn.edu	University of Pennsylvania
Thum	Jasmine	jthum.ucla@gmail.com	University of California, Los Angeles
Timbie	Clare	Clare.timbie@ucsf.edu	University of California, San Francisco
Wang	Amy	ajwang@mgh.harvard.edu	Massachusetts General Hospital



<i>Last Name</i>	<i>First Name</i>	<i>Email</i>	<i>Organization/Company/Institution</i>
Wang	Doris	doris.wang@ucsf.edu	University of California, San Francisco
Weinstein	Jonathan	jweinste@uw.edu	University of Washington
Wilcox	Douglas	drwilcox@bwh.harvard.edu	Massachusetts General Hospital
Williams	Ziv	Zwilliams@mgh.harvard.edu	Massachusetts General Hospital

Xu	Risheng	rxu4@jhmi.edu	Johns Hopkins University School of Medicine
Yoh	Nina	ny2219@cumc.columbia.edu	Columbia University

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