MONDAY, MAY 15
Arrival and Registration

TUESDAY, MAY 16
Keynote Session (Joint)
Michelle Monje, Stanford University, USA
Neuron-Glia Interactions in Health and Disease
Huda Y. Zoghbi, HHMI/Baylor College of Medicine, USA
Genetic Basis of Neurodegenerative Diseases

Neuroimmune Interactions (Joint)
Jonathan Kipnis, Washington University School of Medicine, USA
Meningeal Lymphatics in Neurological Diseases
Li Gan, Weill Cornell Medicine, USA
Regulation of Neuroimmune Interactions by Alzheimer's Genetic Risk Factors and Sex

Short Talks Chosen from Abstracts

Workshop 1: Emerging Topics in Neuroimmunology (Z3)
Short Talks Chosen from Abstracts

Workshop (Z4)
Short Talks Chosen from Abstracts

Adaptive Immunity (Z3)
David Gate, Northwestern University, USA
T Cells in Neurodegeneration
Daniel S. Reich, NINDS, National Institutes of Health, USA
Lymphocyte-Microglia Axis and Translational Neuroimmunology
David A. Hafler, Yale University School of Medicine, USA
Immunecells in the CNS

Dys-Regulation of Metabolic Pathways in Neurodegeneration (Z4)
Valina L. Dawson, Johns Hopkins University School of Medicine, USA
Metabolic Changes in Parkinson's Disease
Jaime Grutzendler, Yale School of Medicine, USA
Uncovering Cellular Mechanisms of Neurodegeneration One Image at a Time
Gilbert Di Paolo, Denali Therapeutics Inc., USA
Targeting Metabolic Pathways to Treat Neurodegenerative Disorders

Short Talks Chosen from Abstracts

Poster Session 1

WEDNESDAY, MAY 17
Emerging Technologies (Z3)
Francisco J. Quintana, Harvard Medical School and the Broad Institute of MIT and Harvard, USA
Tracing Single-Cell Interactions in Neuroinflammation

Naomi Habib, Hebrew University of Jerusalem, Israel
Multi-Omics Integration to Understand Cognitive Resilience with Aging
Alex Marson, University of California, San Francisco, USA
Cellular Immunotherapy and Genome Engineering with CRISPR
Fredrik C. Kamme, Ionis Pharmaceuticals, USA
Oligonucleotide Therapeutics in Neuroinflammation
Short Talks Chosen from Abstracts

Cellular Pathways Disrupted in Neurodegeneration (Z4)
Aaron D. Gitler, Stanford University School of Medicine, USA
Expanding Mechanisms and Therapeutic Targets for ALS
Virginia M. Y. Lee, University of Pennsylvania School of Medicine, USA
Protein Aggregation in Neurodegenerative Diseases
Yadong Huang, Gladstone Institutes/UCSF, USA
ApoE4 in Neuronal Toxicity
Clotilde Lagier-Tourenne, Massachusetts General Hospital, USA
Disruption of RNA Metabolism in Neurological Diseases and Therapeutic Interventions

Short Talks Chosen from Abstracts

Workshop 2: Emerging Topics in Neuroimmunology (Z3)
Short Talks Chosen from Abstracts

The Brain as an Immune Organ (Z3)
Asya Rolls, Technion-Israel Institute of Technology, Israel
Brain-Body Interactions
Maria Lehtinen, Harvard Medical School, USA
Immunity and Inflammation at the Choroid Plexus
Menna Clatworthy, University of Cambridge, UK
Adaptive Immunity in Gut-Brain Interaction

Short Talks Chosen from Abstracts

Human Genetics Guided Biomarker Identification in Neurodegenerative Diseases (Z4)
Henne Holstege†, Amsterdam UMC, Netherlands
Talk Title to be Announced

* Session Chair † Invited but not yet accepted     Program current as of November 17, 2022 Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
Leonard Petrucelli, Mayo Clinic Jacksonville, USA
Diagnostic and Therapeutic Biomarkers of FTD and ALS

Tracy Yuen, Genentech, Inc., USA
Targeting Glial Biology to Promote Remyelination in Neurodegenerative Diseases

Short Talks Chosen from Abstracts

Thursday, May 18

Neuroimmune Aging and Regeneration (Z3)

Tony Wyss-Coray, Stanford University School of Medicine, USA
Circulatory Factors as Reporters of Brain Aging and Rejuvenation

Maria Mittelbrunnn, Centro de Biología Molecular Severo Ochoa, Spain
Immunometabolomics and Inflammation in Aging

Veronique Miron, University of Edinburgh, UK
Immune Mechanisms of Remyelination

Arnon Rosenthal, Alector, USA
Harnessing the Brain’s Immune System to Treat Neurodegeneration

Short Talks Chosen from Abstracts

Novel Approaches to Identify Therapeutic Targets of Neurodegenerative Diseases (Z4)

Don W. Cleveland, University of California, San Diego, USA
Targeting Astrocytes to Treat Neurodegeneration

Michael T. Heneka, University of Luxembourg, Luxembourg
Targeting Neuroinflammation for Intervention of Neurodegenerative Diseases

Gonçalo Castelo-Branco, Karolinska Institutet, Sweden
Single-Cell and Spatial Omics of Oligodendroglia in Health and Disease

Priyanka Narayan, National Institute of Health, USA
Dysregulation of Endocytic Trafficking in Neurodegeneration

Short Talks Chosen from Abstracts

Neuroimmune Responses at the Neurovascular Interface (Z3)

Katerina Akassoglou, University of California, San Francisco, USA
The Immunology of Blood: Unlocking Drivers of Neurodegeneration

Dorian B. McGavern, NINDS, National Institutes of Health, USA
Neuroimmune Mechanisms in Brain Injury

Joy Yu Zuchero, Denali Therapeutics Inc, USA
Therapeutics across the BBB

Paul M. Matthews, Imperial College London, UK
Clinical Imaging of BBB Disruption and Neuroinflammation

Short Talks Chosen from Abstracts

Future Directions of Therapeutic Interventions (Z4)

Azad Bonni, Roche, Switzerland
Drug Development for Neurodegenerative Diseases: Challenges and Opportunities

Hien T. Zhao, Ionis Pharmaceuticals, USA
Antisense Oligonucleotides for the Treatment of Neurodegenerative Diseases

Mihaly Hajos, Cognito Therapeutics, Inc., USA
Non-Invasive Sensory Stimulation at gamma Frequency to Treat Alzheimer’s Dementia

Short Talks Chosen from Abstracts

Friday, May 19

Neuroimmune Activation of Neuronal Circuits (Z3)

Ukpog Bassey Eyo, University of Virginia, USA
Microglia and Neuronal Activity

Baljit S. Khakh, David Geffen School of Medicine, UCLA, USA
Astrocytes and Functional Connectivity

Anna Victoria Molofsky, University of California, San Francisco, USA
Microglia and Synapse Plasticity

Short Talks Chosen from Abstracts

Profiling of Neurodegeneration using Next Generation Technologies (Z4)

Marco Prinz, University of Freiburg, Germany
New Insights into CNS-Associated Macrophages

Dominic M. Walsh, Biogen Inc., USA
Deep Sequencing of ALS Tissues

Martin Kampmann, University of California, San Francisco, USA
CRISPR-Based Functional Genomic approaches to Neurological Disorders

Li-Huei Tsai, Massachusetts Institute of Technology, USA
Uncovering the Role of Alzheimer's Disease Risk Genes using Stem Cells and Human Brains

Short Talks Chosen from Abstracts

Workshop 3: Emerging Topics in Neuroimmunology (Z3)

Short Talks Chosen from Abstracts

Bench to Bedside and Back: Therapeutics in Neuroinflammation and Neurorepair (Z3)

Nathalie Franchimont, Biogen, USA
Lessons Learned from Clinical Development in Neuroinflammation with a Focus on Multiple Sclerosis

Short Talks Chosen from Abstracts
Lessons Learned from Clinical Development in Neurorepair and Remyelination

Speaker to be Announced

Short Talks Chosen from Abstracts

New Model System to Studying Neurodegeneration (Z4)

Sally Temple, Neural Stem Cell Institute, USA
Modeling Taopathies in vitro

Hideyuki Okano, Keio University School of Medicine, Japan
Using Human Stem Cells to Model ALS

Tracy L. Young-Pearse, Brigham and Women's Hospital and Harvard Medical School, USA
Using Human IPS Cells to Model Aging and Dementia

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)
(Z3)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)
(Z4)

SATURDAY, MAY 20

Departure