SATURDAY, JUNE 5
Arrival and Registration

SUNDAY, JUNE 6
Welcome and Keynote Address (Joint)
Speakers to be Announced

Disease Mechanisms and Therapeutic Targets (Joint)
Holly Kordasiewicz†, Ionis Pharmaceuticals, USA
Targeting Neurodegeneration Using ASO
Joseph W. Lewcock, Denali Therapeutics, USA
Therapeutic Strategies for the Treatment of Neurodegenerative Disease Based on Human Genetics
Morgan H. Sheng, Broad Institute, USA
Severe Mental Illness: From Genes to Mechanism to Targets
Richard Hargreaves, Celgene, USA
What is Target ID, Anyway?

Short Talks Chosen from Abstracts

Workshop 1: New Tools and Approaches to Track and Manipulate Immune Cells in vivo (Z4)
Short Talks Chosen from Abstracts

Workshop 1: Integrating the "Omics" Approaches to Microglial Function and Dysfunction in Neurodegeneration (Z3)
Short Talks Chosen from Abstracts

Mapping Immune Cell States in Health and Disease (Z4)
Beth Stevens, Boston Children’s Hospital, Harvard Medical School, USA
Mapping Microglia State to Function in Health and Disease
Christopher K. Glass, University of California, San Diego, USA
Genome Wide Approaches to Define Myeloid Cell Identity and Function
Melanie Greter†, University of Zurich, Switzerland
Cytokine Control of Myeloid Developmental State
Shane Antony Lidelow, New York University Langone Medical Center, USA
Redefining Astrocytes States in Health and Disease

Short Talks Chosen from Abstracts

Genetic Contributions to Neurodegeneration (Z3)
Alison Goate, Icahn School of Medicine at Mount Sinai, USA
Genetic Variations and Its Implications to Alzheimer's Disease
Speaker to be Announced
Speaker to be Announced

Short Talks Chosen from Abstracts

Poster Session 1

MONDAY, JUNE 7

Neuroimmune Regulation of Sleep and Brain States (Z4)
Maiken Nedergaard, University of Rochester, USA
Sleep Regulation and Disease Roles of the Glymphatic System
David M. Holtzman, Washington University, USA
Mechanisms Linking Sleep, Innate Immunity, and Neurodegeneration
Marco Colonna, Washington University School of Medicine, USA
ILCs and Sleep

Short Talks Chosen from Abstracts

From Therapeutic Targets to Clinic (Z3)
Charlotte J. Sumner, Johns Hopkins School of Medicine, USA
The Evolving Challenges of Gene Targeted Therapeutics for SMA
Beverly L. Davidson, Children’s Hospital of Philadelphia and University of Pennsylvania, USA
Virus-Based Gene Therapy for Huntington’s Disease
Lorenz Studer, Memorial Sloan Kettering Cancer Center, USA
IPSC-Derived Dopaminergic Neurons and Parkinson's Disease Therapy

Short Talks Chosen from Abstracts

Workshop 2: Building Better Models of Human Disease (Z4)
*Kate Monroe, Denali Therapeutics, USA

Short Talks Chosen from Abstracts

Workshop 2: Modeling Neurodegeneration using IPSC and Organoids (Z3)
Short Talks Chosen from Abstracts

NeuroImmune Crosstalk at Brain Borders (Z4)
Jonathan Kipnis, University of Virginia, USA
Lymphatic System Function and Dysfunction
Michal Schwartz, Weizmann Institute of Science, Israel
Boosting Immunity to Combat Alzheimer’s Disease
Maria Lehtinen, Harvard Medical School, USA
Imaging and Probing Choroid Plexus Influence on Brain Development and Function
Richard Daneman, University of California, San Diego, USA
Control of Blood Brain Barrier Development, Function and Dysfunction

Short Talks Chosen from Abstracts

* Session Chair † Invited but not yet accepted
Program current as of March 28, 2020. Program subject to change. Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
Cellular Pathways Targeted by Neurodegeneration (Z3)

Valina L. Dawson, Johns Hopkins University School of Medicine, USA
Mechanism of A-Synuclein-Mediated Neurodegeneration

J. Wade Harper†, Harvard Medical School, USA
Linking Selective Autophagy to Neurodegenerative Diseases

Roy R. Parker, HHMI/University of Colorado, USA
Stress Granule Dynamic in Neurodegenerative Diseases

Speaker to be Announced

Short Talks Chosen from Abstracts

TUESDAY, JUNE 8

Immunomechanisms of Synapse Function and Dysfunction (Z4)

Baljit S. Khakh, David Geffen School of Medicine, UCLA, USA
Probing Neural-Glia-Immune Signaling on Synaptic Circuits in Health and Disease

Dorothy Schafer, University of Massachusetts Medical School, USA
Neuro-immune cross talk and neural circuit plasticity

Betty Diamond, Feinstein Institute for Medical Research, USA
Autoimmune mechanisms of cognitive dysfunction

Short Talks Chosen from Abstracts

Phase Separation, Protein Aggregation and Transmission (Z3)

J. Paul Taylor, St. Jude Children’s Research Hospital, USA
Phase Separation of RNA Binding Proteins in Neurodegeneration

Sjors Scheres†, MRC Laboratory of Molecular Biology, UK
CryoEM analyses of proteinopathy in neurodegeneration

Virginia M. Y. Lee, University of Pennsylvania School of Medicine, USA
Tau and A-Synuclein Aggregation and Spreading

Short Talks Chosen from Abstracts

Workshop 3: Integrating Omics with Genetics to Understand Disease Mechanisms (Z4)

Short Talks Chosen from Abstracts

Immune Regulation of Brain Development and Behavior (Z4)

Jonathan P. Godbout, Ohio State University, USA
The Impact of Social Stress on Immune Cell Trafficking and Neurobehavior

Sonia Garel, INSERM, France
Microglia and the Crossroads of Cortical Wiring and Environmental Signals

Gloria Choi, Massachusetts Institute of Technology, USA
Neuroimmune Interactions Shaping Social Behavior

Short Talks Chosen from Abstracts

Epigenetics and Transcriptomics of the Aging Brain (Z3)

Li-Huei Tsai, Massachusetts Institute of Technology, USA
Transcriptomics of Neuron-Glia in Alzheimer’s Disease

Philip L. De Jager, Columbia University Medical Center, USA
Epigenetics and systems biology of Alzheimer’s disease

Anne Brunet, Stanford University, USA
Single cell transcriptomic analyses of the aging neurogenic niches

Short Talks Chosen from Abstracts

Workshop 3: Therapeutic Target Identification and Development - Views from Industry (Z3)

Short Talks Chosen from Abstracts

Impact of Peripheral Signals and the Gut-Brain Axis (Z4)

Daniel Mucida, Rockefeller University, USA
Neuronal regulation of innate immune cells

Elaine Y. Hsiao, University of California, Los Angeles, USA
Microbiome interactions with the nervous system in health and disease

Henrique Veiga-Fernandes, Champalimaud Research, Portugal
Neuronal regulation of innate lymphoid cells

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Brian Kim, Washington University School of Medicine, USA
The Neuroimmune Basis of Chronic Itch

Tony Wyss-Coray, Stanford University School of Medicine, USA
How Young Blood Rejuvenates Old Brains

**Short Talks Chosen from Abstracts**

Modeling Neuro-Immune Interactions in Neurodegeneration (Z3)

Fred H. Gage†, The Salk Institute for Biological Studies, USA
Cerebral Organoids and Neurodegeneration

Hui-Hsin Tsai, Biogen, USA
Modeling Neuro Immune Interaction in Organotypic Brain Slices

Mathew M. Blurton-Jones, University of California, Irvine, USA
Neuro-Immune Interactions in AD Models

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

(Z4)

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

(Z3)

**THURSDAY, JUNE 10**

Departure