SATURDAY, JUNE 5
Arrival and Registration

SUNDAY, JUNE 6
Welcome and Keynote Address (Joint)
Speakers to be Announced
Christopher K. Glass, University of California, San Diego, USA
Exploiting Dynamic Enhancer Landscapes to Infer Pathogenic
Mechanisms in Neurodegenerative Diseases

Disease Mechanisms and Therapeutic Targets (Joint)
Holly Kordasiewicz, Ionis Pharmaceuticals, USA
is Antisense Oligonucleotide Therapeutics for Neurodegenerative
Diseases
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 Liddelow, 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
Chris Shaw†, UK Dementia Research Institute, UK
Talk Title to be Announced
Jennifer Yokoyama, University of California, San Francisco, USA
Immune Contributions to Early-onset Neurodegenerative Disease

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 CROSS TALK 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

* Session Chair † Invited but not yet accepted

Program current as of June 20, 2020. Program subject to change. Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
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: Integrating Omics with Genetics to Understand Disease Mechanisms (Z4)
Marco Prinz, University of Freiburg, Germany
Talk Title to be Announced
Ádám Dénes†, Hungarian Academy of Sciences, Hungary
Talk Title to be Announced
Anne Schaefer, Mount Sinai School of Medicine, USA
Epigenetic Regulation of Microglia in Alzheimer’s Disease
Michael T. Heneka, German Center for Neurodegenerative Diseases, Germany
Inflammasome Activation in Alzheimer’s Disease
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
- **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)**

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

**THURSDAY, JUNE 10**

**Departure**