**FRIDAY, JUNE 19**
Arrival and Registration

**SATURDAY, JUNE 20**
Welcome and Keynote Address (Joint)
- **Rudolph E. Tanzi**, Massachusetts General Hospital, USA
  *New Insights into Pathogenesis and Therapeutics Options in Alzheimer’s Disease*
- **Thomas C. Südhof**, Stanford School of Medicine, USA
  *APP, ApoE, and Synaptic Transmission*
- **John Hardy**, University College London, Institute of Neurology, UK
  *Identifying Genetic Variants Contributing to Neurodegenerative Diseases*
- **David Sulzer**, Columbia University, USA
  *Inflammation and Immunity in Parkinson’s Disease*
- **Alison Goate**, Icahn School of Medicine at Mount Sinai, USA
  *Alzheimer’s Disease Susceptibility Alleles Implicate Endolysosomal Function in Microglia*

**Short Talks Chosen from Abstracts**

**Workshop 1: Imaging of the CNS in Health and Disease (Z5)**

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**Workshop 1: Imaging of the CNS in Health and Disease (Z5)**

**SUNDAY, JUNE 21**
Microglia in Neurodegeneration and Synaptic Diseases (Z5)
- **Frederic Geissmann**, Memorial Sloan Kettering Cancer Center, USA
  *Mosaicism in the Central Nervous System and Neurodegeneration*
- **Michael T. Heneka**, German Center for Neurodegenerative Diseases, Germany
  *Detrimental Effects of Inflammasome Activation in Chronic Neurodegeneration*
- **Anna Victoria Molofsky**, University of California, San Francisco, USA
  *Innate Immune Mechanisms of Synapse Remodeling during Development and Learning*
- **Rosa C. Paolicelli**, University of Lausanne, Switzerland
  *The Role of TDP-43 in Microglia Phagocytosis of Synapses and beta Amyloid*

**Short Talks Chosen from Abstracts**

**Autophagy and Disease (Z6)**
- **Ivan Dikic**, Goethe University Medical School, Germany
  *ER-phagy: From Molecular Principles to Pathogenesis of Neuropathies*
- **Xinnan Wang**, Stanford University School of Medicine, USA
  *A Miro1-Based Individual-Tailored Treatment Strategy for Parkinson’s Patients*
- **Myriam Heiman**, Massachusetts Institute of Technology, USA
  *Genome-wide in vivo CNS Screening Identifies Genes that Modify CNS Neuronal Survival and Mutant Huntingtin Toxicity*
- **Ai Yamamoto**, Columbia University, USA
  *Selective Autophagy in the CNS*

**Short Talks Chosen from Abstracts**

**The Role of the Microbiome in Shaping the CNS in Health and Disease (Z5)**
- **Gloria Choi**, Massachusetts Institute of Technology, USA
  *Maternal Immune Activation and Cortical Dysfunction*
- **Sarkis K. Mazmanian**, California Institute of Technology, USA
  *The Microbiome Modulates Parkinson’s Disease Pathology in Mice*
- **Rachel R. Caspi**, NEI, National Institutes of Health, USA
  *Autoimmune Uveitis and Microbiota*

**Short Talks Chosen from Abstracts**

**Endolysosomal Dysfunction in Neurodegeneration (Z6)**
- **Dimitri Krainc**, Northwestern University, USA
  *Convergence of Mitochondrial and Lysosomal Dysfunction*
Ralph A. Nixon, New York University, Langone Medical Center, USA
Defective Endolysosomal Function in Disease

Roberto Zoncu, University of California, Berkeley, USA
mTOR and Lysosomes in Nutrient Sensing and Growth Control

Short Talks Chosen from Abstracts

Poster Session 2

MONDAY, JUNE 22

Transcriptomics, Proteomics and Modeling of Neuro-Immune Interactions (Z5)

Morgan H. Sheng, Broad Institute, USA
Microglia-Neuron Interactions in CNS Disease

Li-Huei Tsai, Massachusetts Institute of Technology, USA
The Use of Induced Pluripotent Stem Cells to Model Alzheimer’s Disease

Ido Amit, Weizmann Institute, Israel
The Power of ONE: Immunology in the Age of Single Cell Genomics

Christopher K. Glass, University of California, San Diego, USA
Decoding microglia enhancers in health and disease

Short Talks Chosen from Abstracts

Mitochondrial Defects in Neurodegeneration (Z6)

Dalton James Surmeier, Northwestern University, USA
Bioenergetic Determinants of Selective Neuronal Vulnerability in Parkinson’s Disease

Richard J. Youle, NINDS, National Institutes of Health, USA
Neuroinflammation Stemming from Mitochondrial DAMPs Linked to Parkinson’s Disease Genes and Mitophagy Defects

Yvette C. Wong, Northwestern University, USA
New Pathways for Mitochondrial and Lysosomal Crosstalk at Mitochondria-Lysosome Contact Sites

Short Talks Chosen from Abstracts

Workshop 2: IPSC and Organoids for the Study of Neurodegeneration (Z5)

Short Talks Chosen from Abstracts

Workshop: Cellular Pathways Driving Disease (Z6)

Short Talks Chosen from Abstracts

PAMP, DAMP and Other Triggers in Neuroinflammation (Z5)

Oleg Butovsky, Harvard Medical School, USA
Restoration of Homeostatic Microglia in Neuroinflammation

Francisco J. Quintana, Harvard Medical School, USA
Impact of Aryl Hydrocarbon Receptor in Multiple Sclerosis

Anne Schaefer, Mount Sinai School of Medicine, USA
Negative Feedback Control of Neuronal Activity by Microglia

Short Talks Chosen from Abstracts

Neuronal Pathways in Disease (Z6)

David M. Holtzman, Washington University, USA
Innate Immunity, ApoE, and Neurodegeneration

Hugo J. Bellen, Baylor College of Medicine, USA
Pathways to Neuronal Loss

Heather Rice, University of Oklahoma Health Sciences Center, USA
The Role of APP in GABA Receptor Signaling

Virginia M. Y. Lee, University of Pennsylvania School of Medicine, USA
Pathogenic Neuronal Mechanisms in Parkinson’s and Alzheimer’s Disease

Short Talks Chosen from Abstracts

Poster Session 3

TUESDAY, JUNE 23

Blood Brain Barrier (BBB), Glymphatics and Lymphatics (Z5)

Jonathan Kipnis, University of Virginia, USA
Meningeal Sinuses and Lymphatics in the Epicenter of CNS Immune Surveillance

Berislav Zlokovic, University of Southern California, USA
Pericytes Play an Important Role in Maintaining the BBB

Chenghua Gu, Harvard Medical School, USA
Lipid Transport-Dependent Suppression of Caveolae-Mediated Transcytosis in BBB

Short Talks Chosen from Abstracts

Translational Considerations in Neurodegenerative Research (Z6)

Alfred W. Sandrock Jr., Biogen Idec, Inc., USA
Introduction “Challenges of going from Bench to Bedside in Neurology”

Carole Ho, Denali Therapeutics Inc., USA
Phase 2 Trial Design Considerations: How to Achieve Proof of Biology and Proof of Efficacy

Richard Hargreaves, Celgene, USA
Restoring Protein Homeostasis to Treat Neurodegeneration

Marie H. Kosco-Vilbois, AC Immune, Switzerland
PET Imaging Biomarkers for Synucleinopathies

Short Talks Chosen from Abstracts

Workshop 3: Immunotherapy of Neurodegeneration (Z5)

Short Talks Chosen from Abstracts

Aging, Senescence and Neurodegeneration (Z5)
Elizabeth M. Bradshaw, Columbia University Medical Center, USA
Innate Immunity, Genetics and Neurodegenerative Disease

Tony Wyss-Coray, Stanford University School of Medicine, USA
Systemic Regulation of Brain Aging

Li Gan, Weill Cornell Medicine, USA
How Microglial Dysfunction Contributes to Neurodegeneration?

Short Talk Chosen from Abstracts

Future Directions for Therapeutics (Z6)

Peter T. Lansbury, Harvard Medical School / Lysosomal Therapeutics, Inc, USA
Development of Targeted Therapies for PD

Richard M. Ransohoff, Third Rock Ventures, USA
Where Microglia Fit into the Neurodegenerative Process

Bernard Ravina, Praxis Precision Medicines, USA
Gene Therapy: Current State and Future Directions

Short Talk Chosen from Abstracts

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

(WEDNESDAY, JUNE 24)
Departure

* Session Chair † Invited but not yet accepted 
Program current as of March 12, 2020. Program subject to change. Meal formats are based on meeting venue. 
For the most up-to-date details, visit https://www.keystonesymposia.org.