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

Genetics of Neuro-Immune Interactions (Joint)
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)
Short Talks Chosen from Abstracts

Synaptic Mechanisms and Molecular Events (Z6)
Short Talks Chosen from Abstracts

Understanding Immune Receptors in the CNS (Z5)
Short Talks Chosen from Abstracts

SUNDAY, JUNE 21

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
Selective Autophagy in the CNS

Short Talks Chosen from Abstracts

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
The Role of TDP-43 in Microglia Phagocytosis of Synapses and beta Amyloid

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

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

MONDAY, JUNE 22

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

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

Workshop: Cellular Pathways Driving Disease (Z6)
Short Talks Chosen from Abstracts

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

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

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
Jennifer L. Gommerman, University of Toronto, Canada
Talk Title to be Announced
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

Workshop 3: Immunotherapy of Neurodegeneration (Z5)
Short Talks 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

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

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Z6)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Z5)

WEDNESDAY, JUNE 24
Departure