SUNDAY, JUNE 5
Arrival and Registration

MONDAY, JUNE 6
Welcome and Keynote Session (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
Synapse Biology in Alzheimer’s Disease

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 Talk(s) Chosen from Abstracts

Workshop 1: Imaging of the CNS in Health and Disease (Z1)
Short Talks Chosen from Abstracts

Understanding Immune Receptors in the CNS (Z1)
Greg E. Lemke, The Salk Institute for Biological Studies, USA
TAM Receptor Regulation of Neurodegenerative Disease
Shilpa Sambashivan, Nura Bio, USA
Intracellular Receptors for NAD in Neurodegeneration
Marco Colonna, Washington University School of Medicine, USA
ITAM Signaling in Neurodegeneration
Short Talks Chosen from Abstracts

Synaptic Mechanisms and Molecular Events (Z2)
Pietro V. De Camilli, Yale University School of Medicine, USA
Synaptic Membrane Endocytosis
Morgan H. Sheng, Broad Institute, USA
Mechanisms of Synapse Loss in Neurodegenerative Disease
Maria Grazia Spillantini, University of Cambridge, UK
Synaptic Dysfunction in Parkinson’s Disease
Volker Haucke, Leibniz Forschungsinstitut für Molekulare Pharmakologie, Germany
Synaptic Vesicle Exo-Endocytosis and Reformation
Short Talk(s) Chosen from Abstracts

Poster Session 1

TUESDAY, JUNE 7
Microglia, Other Glial Cells and Macrophages in Neurodegenerative Diseases (Z1)
Michael T. Heneka, German Center for Neurodegenerative Diseases, Germany
Detrimental Effects of Inflammasome Activation and ASC Spec as a Plaque Nucleating Event in Alzheimer’s Disease
Rosa C. Paolicelli, University of Lausanne, Switzerland
Metabolic Control of Microglial Function
Marco Prinz, University of Freiburg, Germany
Brain Macrophages in Neurodegenerative Diseases
Dorothy Schafer, University of Massachusetts Medical School, USA
Microglial regulation of synaptic connectivity in demyelinating disease
Short Talks Chosen from Abstracts

Autophagy and Disease (Z2)
Ivan Dikic, Goethe University Medical School, Germany
ER-phagy: From Molecular Principles to Pathogenesis of Neuropathies
Xinnan Wang, Stanford University School of Medicine, USA
Redox Mechanisms in Aging and Neurodegeneration.
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 Talk(s) Chosen from Abstracts

Workshop 2: IPSC and Organoids for the Study of Neurodegeneration (Z1)
Short Talks Chosen from Abstracts

The Role of Brain Immune System in Shaping the CNS Connectivity (Z1)
Jun R. Huh, Harvard Medical School, USA
Impact of Gut Bacteria in Neurodevelopmental Abnormalities
Katerina Akassoglou, University of California, San Francisco, USA
Microglia Regulation of Brain Network Hyperexcitability.
Anne Schaefer, Icahn School of Medicine at Mount Sinai, USA
Control of Neuronal Activity by Microglia
Short Talks Chosen from Abstracts

Endolysosomal Dysfunction in Neurodegeneration (Z2)
Dimitri Krainc, Northwestern University, USA
Convergence of Mitochondrial and Lysosomal Dysfunction

* Session Chair † Invited but not yet accepted
Program current as of September 19, 2021. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
Katrin Andreasson, Stanford University, USA
Myeloid Cell Metabolism in Aging

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

Douglas R. Green, St. Jude Children’s Research Hospital, USA
Autophagy in Alzheimer’s Disease

Short Talks Chosen from Abstracts

Future Directions for Therapeutics (Z2)

Anabella Villalobos, Biogen, USA
Small Molecule Therapeutics for CNS

C. Frank Bennett, Ionis Pharmaceuticals, Inc., USA
Oligonucleotide-based Therapeutic Approaches

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Z1)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Z2)

FRIDAY, JUNE 10

Departure