

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

New Frontiers in Neuroinflammation: What Happens When CNS and Periphery Meet? (Z4)

Scientific Organizers: Marco Prinz, Jonathan Kipnis and Irene Knuesel

Supported by the Directors' Fund

Advances in Neurodegenerative Diseases Research and Therapy (Z3)

Scientific Organizers: Li Gan, Leonard Petrucelli and Morgan H. Sheng

June 17-21, 2018 • Keystone Resort • Keystone, Colorado, USA

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Abstract & Scholarship Deadline: / Abstract Deadline: / Discounted Registration Deadline:

SUNDAY, JUNE 17

Arrival and Registration

MONDAY, JUNE 18

Welcome and Keynote Address (Z4)

Dorian B. McGavern[†], National Institutes of Health, USA
Kinetics of Myeloid Cells in the CNS

Welcome and Keynote Address (Z3)

Huda Y. Zoghbi[†], HHMI/Baylor College of Medicine, USA
Epigenetic Mechanisms in Neurodevelopmental and Neurodegenerative Diseases

Immune Privilege, Blood-Brain Barrier and Microglia I (Z4)

Josef Priller[†], Charité – Universitätsmedizin Berlin, Germany
From Blood to Brain: How Myeloid Cells can Enter the CNS

Jonathan Kipnis, University of Virginia, USA
Lymphatics in the CNS

Richard Daneman[†], University of California, San Diego, USA
Pericytes and BBB

Short Talk(s) Chosen from Abstracts

Genetics to Epigenetics in Neurodegenerative Diseases (Z3)

John Hardy[†], University College London, Institute of Neurology, UK
Genetics in Neurodegenerative Diseases

Alison Goate[†], Mount Sinai School of Medicine, USA
Combine Genetics with Endophenotypes in AD

Li-Huei Tsai[†], Massachusetts Institute of Technology, USA
Epigenetics and DNA Damage in Neurodegeneration

Short Talk(s) Chosen from Abstracts

Immune Privilege, Blood-Brain Barrier and Microglia II (Z4)

Marco Prinz, University of Freiburg, Germany
Turnover of CNS Macrophages

Burkhard Ludewig[†], Kantonsspital St. Gallen, Switzerland
Stromal Cells in the CNS

Speaker to be Announced

Short Talk Chosen from Abstracts

Aging in Health and Disease (Z3)

Andrew G. Dillin[†], University of California, Berkeley, USA
Aging in Protein Homeostasis and Stress

Ana Maria Cuervo[†], Albert Einstein College of Medicine, USA
Aging and Lysosomal Health

Tony Wyss-Coray[†], Stanford University School of Medicine, USA
System Factors in Aging

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, JUNE 19

Cross Talk of Microglia with Other CNS Cells (Z4)

Mikael Simons[†], Technische Universität München / German Center for Neurodegenerative Diseases, Germany
Oligodendrocytes and Microglia

Francisco J. Quintana[†], Harvard Medical School, USA
Astrocytes and Microglia

Cagla Eroglu[†], Duke University Medical Center, USA
Astrocytes and Synapses

Short Talk(s) Chosen from Abstracts

Innate Immunity (Z3)

Beth Stevens[†], Children's Hospital Boston, USA
Microglia, Complement in AD

Christian Haass[†], Ludwig-Maximilians University Munich, Germany
TREM2 in AD

Christopher K. Glass[†], University of California, San Diego, USA
System Approach to Dissect Innate Immunity in Neurodegeneration

Li Gan, Gladstone Institutes and University of California, San Francisco, USA
Microglia in Frontotemporal Dementia

Short Talk(s) Chosen from Abstracts

Myeloid Cells and Neuroinflammation (Z4)

Catherine (Lynn) Hedrick[†], La Jolla Institute for Allergy and Immunology, USA
Monocytes and Inflammation

Masaaki Murakami[†], Hokkaido University, Japan
Monocytes, Pain, and Inflammation

Akihiko Yoshimura[†], Keio University, Japan
Microglia and Stroke

Robyn S. Klein[†], Washington University School of Medicine, USA
Myeloid Cells and Infections

Short Talk Chosen from Abstracts

Neuronal and Network Dysfunction in Neurodegeneration (Z3)

Lennart Mucke[†], Gladstone Institutes and University of California, San Francisco, USA
Targeting Network Dysfunction as Therapeutic Strategy

Zayd M. Khaliq[†], NINDS, National Institutes of Health, USA
Dendritic Ca²⁺ Signaling in Dopamine Neurons

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Morgan H. Sheng, Genentech, Inc., USA
Synaptic Elimination in Health and Disease

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, JUNE 20

Imaging of the Healthy and Diseased CNS (Z4)

Wenbiao Gan[†], Skirball Institute Program of Molecular Neurobiology, USA

Microglia Under the Microscope

Tim Lämmermann[†], Max Planck Institute of Immunobiology and Epigenetics, Germany

Myeloid Cell Migration

Melanie Meyer-Luehmann[†], University of Freiburg, Germany
AD Seeding and Host Microglia

Francesca Peri[†], European Molecular Biology Laboratory, Germany
Microglia and Neuronal Interactions

Short Talk(s) Chosen from Abstracts

Protein Trafficking and Degradation (Z3)

Andrea Ballabio[†], Telethon Institute of Genetics and Medicine, Italy
Lysosomal Trafficking in Health and Disease

Baris Bingol[†], Genentech, Inc., USA
Mitophagy in Parkinson's

Bradley T. Hyman[†], Massachusetts General Hospital, USA
Pathogenic Spread of Tau

David M. Holtzman[†], Washington University, USA
Tau Proteostasis in vivo

Short Talk(s) Chosen from Abstracts

Myeloid Cells as Targets of Drug Discovery and Biomarkers (Z4)

Irene Knuesel, Roche Innovation Center Basel, Switzerland
Talk Title to be Announced

Thomas Möller[†], Foundational Neuroscience Center, USA
Talk Title to be Announced

David R. Owen[†], Imperial College London, UK
Microglia Imaging in Patients

Short Talk Chosen from Abstracts

Disease Modeling (Z3)

Serge Przedborski[†], Columbia University, USA
Astrocyte-Induced Motor Neuron Degeneration ALS

Bart De Strooper[†], VIB Center for the Biology of Disease, KU Leuven, Belgium

Human Neurons in Neurodegenerative Mouse Models

Yadong Huang[†], Gladstone Institutes and University of California, San Francisco, USA
Modeling in AD in Patients' Derived iPSCs

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, JUNE 21

Keynote Address (Z4)

Ruslan M. Medzhitov[†], HHMI/Yale University School of Medicine, USA

Regulation of Macrophage Activation

Myeloid Gene Regulation (Z4)

Ido Amit[†], Weizmann Institute, Israel
RNA-Seq and Microglia

Marco Colonna[†], Washington University School of Medicine, USA
Cytokines and Microglia

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

RNA Metabolisms and New Mechanisms of Toxicity (Z3)

J. Paul Taylor[†], HHMI, St. Jude Children's Research Hospital, USA
RNA Stress Granules in ALS

Aaron D. Gitler[†], Stanford University School of Medicine, USA
Nuclear Transport Mechanisms in ALS and FTD

Leonard Petrucelli, Mayo Clinic Jacksonville, USA
C9 Biology and Biomarkers

Guojun Bu[†], Mayo Clinic, USA
Vascular Mechanisms of Dementia

Short Talk(s) Chosen from Abstracts

Microglia and CNS Diseases (Z4)

Melanie Greter[†], University of Zurich, Switzerland
Microglia Gene Modifications

Philip L. De Jager[†], Brigham & Women's Hospital, USA
SNPs in Patients

Cornelius Gross[†], European Molecular Biology Laboratory, Italy
Microglia and Behavior

Biomarker and Therapeutics (Z3)

William J. Jagust[†], University of California, Berkeley, USA
Tau PET Imaging

Ryan J. Watts[†], Denali Therapeutics Inc, USA
Talk Title to be Announced

Samantha Budd Haeberlein[†], Biogen, USA
The Current State of Anti-Amyloid Clinical Development

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Z4)

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FRIDAY, JUNE 22

Departure