

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Neuroinflammation: Concepts, Characteristics, Consequences (E5)

June 19-23, 2017 • Keystone Resort • Keystone, Colorado, USA

Scientific Organizers: Richard M. Ransohoff, Christopher K. Glass and V. Hugh Perry

Sponsored by Biogen, BioLegend, Inc., Ionis Pharmaceuticals, Inc., Shire Human Genetic Therapies and Takeda Pharmaceutical Company Limited

Abstract & Scholarship Deadline: February 21, 2017 / Abstract Deadline: March 21, 2017 / Discounted Registration Deadline: April 19, 2017

MONDAY, JUNE 19

Arrival and Registration

TUESDAY, JUNE 20

Welcome and Keynote Address

Ben A. Barres, Stanford University, USA
What do Reactive Astrocytes Do?

Neuroinflammation and Ontogeny

Richard M. Ransohoff, Biogen, USA
Neuroinflammation: Historical Perspective and Overview
Michael Sofroniew, David Geffen School of Medicine at UCLA, USA
Astrocytes

V. Hugh Perry, University of Southampton, UK
Microglia

Short Talk(s) Chosen from Abstracts

Workshop: Microglial Profiles: Time for Your Close Up!

Short Talks Chosen from Abstracts

Glial Cells of the CNS: Glue No More

Richard Daneman, University of California, San Diego, USA
Blood-Brain, Endothelial Cells and Pericytes
Brian Popko, University of Chicago, USA
Oligodendrocytes and Myelin
Dwight E. Bergles, Johns Hopkins University School of Medicine, USA
Dynamics of NG2+ Glial Cells in the Resting and Damaged Brain
Christopher K. Glass, University of California, San Diego, USA
Gene by Environment Interactions Controlling Microglia Identity and Function

Short Talk Chosen from Abstracts

Poster Session 1

WEDNESDAY, JUNE 21

Neuroinflammation: Phylogeny

Magdalena Götz, University of Munich, Germany
Mechanisms of Scar Formation in Brain Injury from Zebrafish to Mice: The Role of Invading Macrophages

William S. Talbot, Stanford University School of Medicine, USA
Genetic Analysis of Microglia in Zebrafish

David A. Wassarman, University of Wisconsin, USA
Neurodegeneration and Innate Immunity in Drosophila

Marc R. Freeman, University of Massachusetts Medical School, USA
Clearing Cellular Debris in the Drosophila Brain

Short Talk(s) Chosen from Abstracts

Transgressions: Immune Molecules in the CNS and Vice Versa

Lisa M. Boulanger, Princeton University, USA
MHC Class I in Neurodevelopment, Plasticity, and Neurological Disorders

Sonia Garel, INSERM, France
Fractalkine Receptor, Microglia and Early Cortical Wiring

Wayne Drevets, Johnson & Johnson, Inc., USA
IL6 and Treatment Resistant Depression

Short Talk Chosen from Abstracts

Poster Session 2

THURSDAY, JUNE 22

Some Real Immunology for a Change: B Cells and the CNS

Josep Dalmau, IDIBAPS/University of Barcelona, Spain
NMDA-R Antibody Encephalitis: Lessons for Immunologists and Neuroscientists

Vanda Alice Lennon, Mayo Clinic, USA
NMO: An Autoimmune Astrocytopathy

Amit Bar-Or, Montreal Neurological Institute, Canada
Isn't MS a T Cell Disease?

Angela Vincent, University of Oxford, UK
Antibodies to Neuronal Receptors and Associated Proteins: Biomarkers and Pathogenic Factors

Short Talk(s) Chosen from Abstracts

Cool Stuff: New Techniques

Knut Biber, Universitätsklinikum, Germany
Organotypic Slice Cultures to Study Microglia

Milos Pekny, University of Gothenburg, Sweden
3D Cultures: Letting Neural Cells Stretch Out and Breathe

Nadeem Sarwar, Eisai, USA
Immunodementia: A Multidisciplinary Approach

Short Talk Chosen from Abstracts

Poster Session 3

FRIDAY, JUNE 23

Keynote Address

Virginia M. Y. Lee, University of Pennsylvania School of Medicine, USA
Spreading Proteinopathies: Immune Analysis and Treatment

It's About Time: Neuroinflammation Across the Life Span

Staci Bilbo, Duke Institute for Brain Sciences, USA
Environmental Effects on Development Transduced through Neuroinflammation

David Edwards, King's College London, UK
Neuroanatomical effects of Prematurity

Edith Hamel, McGill University, Canada
Inflammation and Vascular Factors in Dementia

Short Talk(s) Chosen from Abstracts

Type I Interferon in CNS Physiology and Pathophysiology

Marco Prinz, University of Freiburg, Germany
IFN Regulation by USP18 in Microglia

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Marina Lynch, Trinity College Dublin, Ireland

TLR Signaling via Glia: Effects on Hippocampal Function

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

SATURDAY, JUNE 24

Departure