



Join Keystone Symposia
for the 2016 conference on:

Neurological Disorders of Intracellular Trafficking

January 31–February 4, 2016

Keystone Resort | Keystone, Colorado | USA

Scientific Organizers:

Dennis Drayna and Bettina Winckler

Deficits in intracellular trafficking are a newly emerging, unifying theme in a broad range of neurological disorders, including Alzheimer's Disease, Huntington's Disease, Parkinson's Disease and many others. Specific treatments for these disorders are either limited or unavailable. The meeting will look at how these trafficking deficits produce neuropathology, why these disorders are limited to the nervous system and how to elucidate trafficking networks and control points to identify novel drug targets. For the first time, the meeting will bring together groups that have traditionally not interacted, including cell biologists who study trafficking but have predominantly studied non-neural cells, clinical neurologists who do not typically work in cell biology, geneticists who have discovered causative genes for a wide range of neurological disorders but typically have limited expertise in the biological function of the gene products they identify, and drug developers, to cross-fertilize ideas and generate new collaborations.

Session Topics:

- Genetics: Multigenic Neurologic Disorders
- Genetics: Lessons from Single Genes in Neurologic Disorders
- The Biology of Intracellular Trafficking
- Intracellular Trafficking in Neurological Diseases
- Neurobiology of Intracellular Trafficking
- Clinical Neurology and Trafficking Disorders I & II
- Translational Research Opportunities in Neuronal Trafficking Disorders



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Sep 30, 2015

Abstract Deadline: Nov 2, 2015

Discounted Registration Deadline: Dec 1, 2015

For additional details, visit www.keystonesymposia.org/16A7.

KEYSTONE SYMPOSIA™
on Molecular and Cellular Biology
Accelerating Life Science Discovery

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SUNDAY, JANUARY 31

Arrival and Registration

MONDAY, FEBRUARY 1

Welcome and Keynote Address

Scott D. Emr, Cornell University, USA

Protein Quality Control: Role for Ubiquitin and ESCRT-Dependent Surveillance Systems

Genetics: Multigenic Neurologic Disorders

Speaker to be Announced

Lian Li, Emory University School of Medicine, USA

SIMPLE Mutations, Endosomal Trafficking, and Peripheral Neuropathy

Matthew J. Farrer, University of British Columbia, Canada

Genetics of Parkinson's Disease and Other Movement Disorders

Short Talk(s) Chosen from Abstracts

Genetics: Lessons from Single Genes in Neurologic Disorders

Dennis Drayna, National Institutes of Health, USA

Intracellular Trafficking Mutations in Persistent Stuttering

Speaker to be Announced

Stéphane Lefrançois, INRS, Canada

CLN5 Regulates the CLN3-Rab7 Interaction by Modulating CLN3 Conformation

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 2

The Biology of Intracellular Trafficking

Juan S. Bonifacino, National Institutes of Health, USA

Genetic Disorders of Protein Coats

Jennifer Hirst, University of Cambridge, UK

The AP-5 Adaptor Protein Complex and Hereditary Spastic Paraplegia

Mark von Zastrow, University of California, San Francisco, USA

GPCR Signaling and Endocytic Pathways

Bettina Winckler, University of Virginia, USA

Neuronal Endosomes in Health and Disease

Short Talk(s) Chosen from Abstracts

Intracellular Trafficking in Neurological Diseases

Ray Truant, McMaster University, Canada

Huntingtin Trafficking in Response to ROS and DNA Damage Leads to a Therapeutic lead for Huntington's Disease

Alison Twelvetrees, University of Pennsylvania, USA

Regulating Microtubule-Dependent Motors during Axonal Transport

Speaker to be Announced

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 3

Neurobiology of Intracellular Trafficking

Mary McCaffrey, University College Cork, Ireland

Rab GTPases and Long Term Potentiation

Jose A. Esteban, Centro de Biología Molecular Severo Ochoa, Spain

PIP3 Signaling and AMPA Receptor Trafficking During Synaptic Plasticity

Speaker to be Announced

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Clinical Neurology and Trafficking Disorders I

Eric M. Morrow, Brown University, USA

Cellular Mechanisms in Christianson Syndrome, a Novel Endosomal Disorder

Craig D. Blackstone, National Institutes of Health, USA

ER Shaping Proteins and Hereditary Spastic Paraplegias

Zbigniew K. Wszolek, Mayo Clinic College of Medicine, USA

Perry Syndrome

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 4

Clinical Neurology and Trafficking Disorders II

Juliane Winkelmann, Stanford University, USA

Genetics of Restless Leg Syndrome and other Movement and Sleep Disorders

Ellen Sidransky, NHGRI, National Institutes of Health, USA

Parkinson Disease and Lysosomal Storage Disorders

Speaker to be Announced

Patrizia Casaccia, Mount Sinai School of Medicine, USA

Nuclear Export and Its Inhibition

Short Talk(s) Chosen from Abstracts

Translational Research Opportunities in Neuronal Trafficking Disorders

Wim Annaert, VIB & KU Leuven, Belgium

Biological Relevance of γ -secretase Heterogeneity in Alzheimer's Disease – An Alternative Avenue for Therapeutic Intervention?

Speaker to be Announced

Michael D. Ehlers, Pfizer Inc., USA

Impaired Beta-Arrestin Recruitment and Reduced Desensitization by Non-Catechol Agonism of the D1 Dopamine Receptor

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

FRIDAY, FEBRUARY 5

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Departure