

Inhibition in the CNS

Gordon Research Conference

Fundamental Mechanisms of Inhibitory Neurotransmission in Health and Disease

Dates

June 25-30, 2017

Location

Les Diablerets Conference Center
Les Diablerets, Switzerland

Organizers

Chair:

Jean-Marc Fritschy

Vice Chair:

Ivan Soltesz

Application Deadline

Applications for this meeting must be submitted by **May 28, 2017**. Please apply early, as some meetings become oversubscribed (full) before this deadline. If the meeting is oversubscribed, it will be stated here. *Note:* Applications for oversubscribed meetings will only be considered by the Conference Chair if more seats become available due to cancellations.

Meeting Description

The 2017 GRC and GRS on Inhibition in the CNS aim to increase our understanding of the fundamental mechanisms contributing to the critical role of inhibitory neurotransmission in normal and abnormal CNS function. The scientific sessions will include the role of GABAergic transmission during brain development, the mechanisms of GABAergic synapse formation and plasticity, the significance of interneuron diversity and their function in specific neuronal circuits. Emphasis will be given to new areas of research not covered in prior meetings, such as the role of GABA in neurodevelopmental disorders and in sleep regulation. A major accent will be set to bridge the knowledge gap in our understanding of fundamental mechanisms of brain function and of pathophysiology of CNS disorders. The discussions at this meeting will thus help define fundamental questions that require experimental resolution in areas that affect human development and cognition, including neurological and psychiatric diseases involving abnormal inhibition, with a special focus on neurodevelopmental brain disorders.

Related Meeting



This GRC will be held in conjunction with the "Inhibition in the CNS" Gordon Research Seminar (GRS). Those interested in attending both meetings must submit an application for the GRS in addition to an application for the GRC. Refer to the [associated GRS program page](#) for more information.

Contributors





Preliminary Program

The topics and speakers for the conference sessions are displayed below (*italics denote discussion leaders*). The Conference Chair is currently developing their detailed program, which will include the complete meeting schedule, as well as the talk titles for all speakers. The detailed program will be available by **February 25, 2017**. Please check back for updates.

- **Inhibition in Developing and Mature Circuits**
(*Ivan Soltesz / Linda Overstreet-Wadiche / Peter Jonas*)
- **GABAergic Transmission in Developing Brain**
(*Hannah Monyer / Julia Kaltschmidt / Arnold Kriegstein / Denis Jabaudon / Songhai Shi*)
- **Synapse Formation and Plasticity**
(*Shiva Tyagarajan / Jean-Louis Bessereau / Cagla Eroglu / Peter Scheiffele*)
- **Neurodevelopmental Disorders**
(*Peter Somogyi / Lu Chen / John Rubinstein / Flora Vaccarino / Stephen Moss / Thomas Sudhof*)
- **Functional Heterogeneity of Interneurons**
(*Marlene Bartos / Paola Arlotta / Josh Huang / Jeffrey Magee*)
- **Circuits: Cerebral Cortex, Hippocampus**
(*Chris McBain / Laura Colgin / Nelson Spruston / Jayeeta Basu / Attila Losonczy / Brenda Bloodgood / Jun Ding*)
- **Molecular Organization of Inhibition**
(*Zoltan Nusser / Richard Kramer / Derek Bowie / Trevor Smart*)
- **GABAergic Mechanisms Regulating Sleep**
(*Bernhard Luscher / Steven Brown / Antoine Adamantidis / Andreas Luthi / Laszlo Acsady / Yang Dan*)
- **Models of Brain Disease**
(*Istvan Mody / Rosa Cossart / Anatol Kreizer / Anita Luthi*)