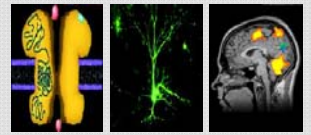


IGSN CONFERENCE



6TH INTERNATIONAL IGSN CONFERENCE

Receptors and ion channels: The molecular basis of synaptic signaling and modulation

1st - 2nd of April 2014

Veranstaltungszentrum, Ruhr University Bochum

hosted by:

Denise Manahan-Vaughan

Director of the IGSN,
Department of Neurophysiology, Faculty of Medicine

Michael Hollmann

Speaker of the IGSN,
Department of Receptor Biochemistry,
Faculty of Chemistry and Biochemistry



Receptors and ion channels:

The molecular basis of synaptic signaling and modulation

Tuesday, 1st of April, 9:15

Interactions with auxiliary proteins

time: 9:30

Host: STUDENT (1)

Introduction

ANNE STEPHENSON, *(keynote speaker)*

UCL School of Pharmacy, London, UK

NMDA Receptors and the MAGUK Family of Scaffolding Proteins

BERND FAKLER Institute of Physiology, University Freiburg, Germany

The proteome of native AMPA-receptors and its significance for excitatory neurotransmission

CLAUS PIETRZIK, Institute of Pathobiochemistry,
University Medical Center of the Johannes Gutenberg-University Mainz

The role of lipoprotein receptors on NMDA receptor activity

Insights from physiological approaches

time: 14:00

Host: STUDENT (2)

Introduction

PHILIPPE LORY, Institute of Functional Genomics (IGF), Montpellier, France

Molecular mechanisms underlying calcium channelopathies

CHRIS DE ZEEUW, Erasmus MC, Rotterdam / Royal Dutch Academy
of Arts and Sciences, Amsterdam, The Netherlands

Creating patterns for cerebellar motor coordination

JÜRGEN SANDKÜHLER, Center for Brain Research, Medical University of Vienna, Austria

Synaptic effects of opioids

Receptors and ion channels:

The molecular basis of synaptic signaling and modulation

Wednesday, 2nd of April, 9:15

Spatial and temporal expression patterns

time: 9:15

Host: STUDENT (3)

Introduction

HELMUT KETTENMANN (*keynote speaker*)

Max-Delbrueck-Center for Molecular Medicine (MDC), Berlin, Germany

Properties of microglial cells

VIDAR GUNDERSEN Department of Anatomy, University of Oslo, Norway

Presynaptic localisation of NMDA receptors at hippocampal synapses

FRANK KIRCHHOFF Institute of Physiology, University of Saarland, Homburg, Germany

The role of glial glutamate receptors in vivo

Advances in methodology

time: 13:45

Host: STUDENT (4)

Introduction

STEPHAN SIGRIST Institute for Biology/Genetics, F U Berlin, Germany

Shedding light on the assembly and function of synaptic protein architectures

A.B. (GUUS) SMIT Medical Center, V U Amsterdam

Understanding glutamate receptors by interaction proteomics

DIRK TRAUNER Department of Chemistry, University of Munich, Germany

Optomics

Conference details:

- Conference in cooperation with the “Bochum Research School for Medical Neuroscience” (**BoNeuroMed**), funded by the Ministry of Innovation, Science, Research and Technology of the State of North Rhine-Westphalia
- Conference starts each day at **9:15 am**
- Each session will start with a short **introduction** of topic and speakers by an IGSN student
- Length of each **talk 30 minutes** (keynote talks 45 min) followed by **10 minutes** discussion
- Brain storming session at the end of each topic with speakers and students for approx **30 minutes**
- Coffee and lunchbreaks on all conference days
- Conference dinner on April 1st
- End of conference on April 2nd at approx. **4:45 pm**

