

NEUREX WORKSHOP

OCTOBER
10TH - 11TH, 2019
B A S E L

VENUE

MUSEUM KLEINES KLINGENTAL
UNTERER RHEINWEG 26

ORGANIZERS

JAN M SCHULZ
& **JOSEF BISCHOFBERGER**

(Department Biomedicine,
University of Basel, Switzerland)

UTE HÄUSSLER

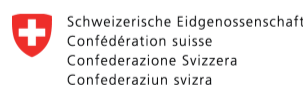
(University of Freiburg, Germany)

MARIA-CLEMENCIA HERNANDEZ

(F. Hoffmann-La Roche Ltd,
Basel, Switzerland)



European Regional
Development Fund



— PROJECT INTERNEURON —

Program Interreg V Upper Rhine «Transcending borders with every project», Neurex, Médalis, BioValley France, CNRS, Université de Strasbourg, Région Grand Est, Département du Bas-Rhin, Département du Haut-Rhin, Eurométropole Strasbourg, Hôpitaux Universitaires de Strasbourg, Bernstein Center Freiburg, Klinik für Psychiatrie und Psychotherapie Freiburg, Neurozentrum Freiburg, Universität Freiburg, Universität Basel, Universitäre Psychiatrische Kliniken Basel, Kanton Aargau, Kanton Basel-Landschaft, Confédération suisse.

EXCITATORY-INHIBITORY BALANCE: THE ROLE OF GABA SYNAPSE DIVERSITY

THURSDAY, OCTOBER 10TH, 2019

10.30 — 11.00 WELCOME COFFEE
11.00 — 11.10 WELCOME NOTE - JOSEF BISCHOFBERGER

SESSION 1 CHAIR: **JOSEF BISCHOFBERGER**
11.10 — 11.50

Jan Schulz — University of Basel, Switzerland
"Synapse specific regulation of dendritic integration by distinct GABA receptor subunits"

11.50 — 12.30
Claudio Elgueta — University of Freiburg, Germany
"E-I balance in dendritic integration of fast-spiking interneurons of the dentate gyrus"

12.30 — 13.30 **LUNCH BREAK**

SESSION 2 CHAIR: **JAN M SCHULZ**
13.30 — 14.10

Johannes Letzkus — Max Planck Institute for Brain Research, Frankfurt, Germany
"Encoding of top-down information in mouse and human neocortex"

14.10 — 14.50
Tania Barkat — University of Basel, Switzerland
"Critical periods for plasticity in the developing auditory cortex – the role of excitation/inhibition imbalance"

14.50 — 15.30
Sabine Krabbe — Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland
"Disinhibitory Amygdala Circuits for Associative Learning"

15.30 — 16.00 **COFFEE BREAK**

SESSION 3 CHAIR: **UTE HÄUSSLER**
16.00 — 16.40

Javier Zorilla De San Martin — Institut du Cerveau et de la Moëlle Épinrière, Paris, France
"Circuit specific alterations of inhibition in a mouse model of Down Syndrome"

16.40 — 17.20
Jonas Sauer — University of Freiburg, Germany
"Disrupted-in-schizophrenia-1 is required for prefrontal GABAergic function"

17.20 — 18.00
Fabrice Ango — Institut de Génétique Fonctionnelle, Montpellier, France
"Excitatory granule neuron progenitors orchestrate laminar localization and differentiation of inhibitory interneuron subtype in cerebellum"

FRIDAY, OCTOBER 11TH, 2019

SESSION 4 CHAIR: **MARIA-CLEMENCIA HERNANDEZ**
10.00 — 10.40

Bernhard Bettler — University of Basel, Switzerland
"Cell-specific regulation of synaptic inhibition by multi-protein GABAB receptor complexes"

10.40 — 11.20
Elisabetta Furlanis — University of Basel, Switzerland
"Cell Type-Specific Alternative Splicing Programs for Neuronal Specification"

11.20 — 12.00
Eric Allemand — Institut Pasteur, Paris, France
"Alternative splicing of Gephyrin defines a code for inhibitory synapse diversity"

12.00 — 12.50 **LUNCH BREAK**

SESSION 5 CHAIR: **UTE HÄUSSLER**
12.50 — 13.30

Maria-Clemencia Hernandez — F. Hoffmann-La Roche Ltd, Basel, Switzerland
"Translational research in Dup15q syndrome: Role of GABAA $\alpha 5$ subunit-containing receptors"

13.30 — 14.10
Véronique Brault — Université de Strasbourg, France
"Interneurons in Down syndrome neurobiology from PTZ to Dyrk1a"

14.10 — 14.30 **CONCLUDING REMARKS**

Interneuron

