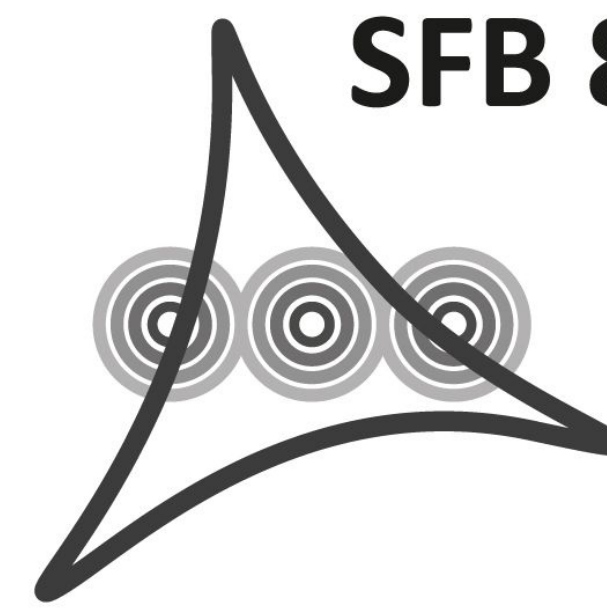


WORKSHOP

vom 15.06. - 18.06.2022

SFB 894



Mittwoch, 15.06.2022

17:00 - 20:00 **Reception**

Opening lecture (Dieter Bruns)

20:00 - 21:00 **Nils Brose**
Göttingen, D
Get together

Dynamic control and plasticity of presynaptic function in health and disease

Donnerstag, 16.06.2022

Session 1: Ion channels I & Bioinformatics (Frank Zufall)

09:00 - 09:45 **Rudi Vennekens**
Leuven, B

TRiPingthe Beat: TRPM4 in hereditary arrhythmias

09:45 - 10:30 **Reinhold Penner**
Honolulu, USA

Areca Nuts & Cannabis: Natural Products as Modulators of Calcium Signaling in Inflammation and Pain

10:30 - 11:00 **Coffee break**

11:00 - 11:45 **David J. Beech**
Leeds, UK

PIEZO1 channels in physical exercise and cardiovascular health and disease

11:45 - 12:30 **Andreas Keller**
Saarbrücken, D

Organism wide single cell profiling in mice

12:30 - 14:00 **Lunch**

Session 2: Ion Channels II (Frank Schmitz)

14:00 - 14:45 **Bernhard Flucher**
Innsbruck, A

How four structurally and functionally distinct voltage sensors control a calcium channel?

14:45 - 15:30 **Ryuichi Shigemoto**
Klosterneuburg, A

Presynaptic plasticity mediated by Ca channel dynamics

15:30 - 16:00 **Coffee break**

Session 3: Neural Circuits Dynamics (Frank Kirchhoff)

16:00 - 16:45 **Fritjof Helmchen**
Zürich, CH

Mapping and tracking brain activity during behavior with calcium imaging

16:45 - 17:30 **Nathalie Jurisch-Yaksi**
Trondheim, N

Understanding neuron-glia interaction during seizure generation

17:30 - 19:30 **Poster session**
19:30 **Socialize**

Freitag 17.06.2022

Session 4: Cellular Imaging & Sensor Systems I (Jutta Engel)

09:00 - 09:45 **Nikolaus Plesnila**
München, D

Nanoparticles for brain imaging

09:45 - 10:30 **Sonja Pyott**
Groningen, N

Ligand- and Voltage- Gated Potassium Channels in Sound Transduction

10:30 - 11:00 **Coffee break**

Session 5: Cellular Imaging & Sensory systems II (Trese Leinders-Zufall)

11:00 - 11:45 **Peter Mombaerts**
Frankfurt, D

Visualizing in deceased COVID-19 patients how SARSCoV-2 attacks the respiratory and olfactory mucosae but spares the olfactory bulb

11:45 - 12:30 **Stephan Sigrist**
Berlin, D

Active zone remodeling in Drosophila behavioral adaptation

12:30 - 14:00 **Lunch**

Session 6: Immune System Dynamics (Dieter Bruns)

14:00 - 14:45 **Salvatore Valitutti**
Toulouse, F

CTL-mediated cytotoxicity from the tumor cell perspective: dissecting multi-step attack and defence at the lytic synapse

14:45 - 15:30 **Michael Dustin**
Oxford, UK

Supramolecular effectors in the immunological synapse

15:30 - 16:00 **Coffee break**

16:00 - 16:45 **Morgan Huse**
New York, USA

Mechanical Control of Lymphocyte Cytotoxicity

16:45 - 17:30 **Gerhard Schütz**
Wien, A

Quantifying molecular forces in T cell antigen recognition

17:30 - 20:00 **Poster session**

Plenary Lecture (Ulrich Boehm)

20:00 - 21:00 **Stefan Offermanns**
Bad Nauheim, D

Mechanosensing and -signalling in the adipose and vascular systems

**Poster session -
Presenters at posters**

Samstag, 18.06.2022

Session 7: Blood Brain Barrier & Metabolism (Ulrich Boehm)

09:00 - 09:45 **Cristina Garcia Cáceres**
München, D

Astrocyte-Neuron crosstalk for hypothalamic feeding regulation

09:45 - 10:30 **Markus Schwaninger**
Lübeck, D

Signal transduction pathways maintaining blood-brain barrier integrity

10:30 - 11:00 **Coffee break**

Session 8: Ciliated Cells (David Mick)

11:00 - 11:45 **Oliver Griesbeck**
München, D

Protein Engineering in Optogenetics

11:45 - 12:30 **Markus Delling**
San Francisco, USA

Novel insights into polycystin activation

12:30 **Closing remarks**

Lunch



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