

ABINEP Symposium 2021 of the International Graduate School ABINEP

Sep 8th - 9th, 2021 | Magdeburg, GER (Zoom)

Program September 8th, 2021

9:15-9:30 **Welcome by Prof. Volkmar Leßmann**

Session I: Module 4 - Human Brain Imaging for Diagnosing Neurocognitive Disorders

Chairs: Ehsan Kakaei, Camila Agostino

09:30-10:40 Guest speaker - **Dr. Mona Garvert, MPI CBS, Leipzig**
Hippocampal spatio-temporal cognitive maps guide reward generalisation

10:40-10:55 **Beatrice Barbazzeni**
Neurofeedback to improve working memory: a research study on healthy volunteers with an outlook on preclinical Alzheimer's Disease

10:55-11:10 **Julia Rogge**
Urgency influences evidence representation and performance accuracy in perceptual decision making

11:10-11:25 **Camila Agostino**
Predicting occluded trajectories using temporal and spatial information

11:25-11:40 **Stefan Replinger**
The role of basal ganglia nuclei in sensorimotor gating

11:40-11:55 **Sharavanan Ganesan**
Saccadic re-referencing training in simulated central vision loss and training transfer effects on different visual tasks

12:00-13:00 **Round Table with Keynote Speaker Module 4 (ABINEP Fellows)**

13:00-14:00 **Lunch Break**

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Session II: Module 2 - Neurophysiology and Computational Modelling of Neural Networks

Chairs: Julia Rogge, Babak Khodaie

- 14:00-14:15 **Evangelia Pollali**
Sharp wave-ripple activity in the ventral hippocampus as a correlate of fear memory salience.
- 14:15-14:30 **Ehsan Kakaei**
Evolving multivoxel representations during an object recognition learning task
- 14:30-14:45 **Babak Saber Marouf**
Role of TRPC4 Channels in Temporal Bridging and Spatial Navigation in the Hippocampal-Entorhinal Circuit
- 14:45-15:00 **Vivekanandhan Viswanathan**
A Rat model of reward conditioning using optogenetic VTA stimulation
- 15:00-15:15 **Babak Khodaie**
Modulation of spike timing-dependent plasticity in CA1 pyramidal neurons of mouse hippocampus by pharmacological and optogenetic control of dopamine release
- 15:15-15:30 **Coffee Break**
- 15:30-16:40 Guest speaker- **Assoc. Prof. Dr. Kamran Diba, University of Michigan, USA**
Multi-neuronal sequences in the hippocampus during waking and sleep
- 17:00-18:00 **Round Table with Keynote Speaker Module 2 (ABINEP Fellows)**
- 18:30-20:30 **Get Together - Online Game (ABINEP Fellows)**

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Program September 9th, 2021

09:30-09:35 **Welcome**

Session III **Module 1 - Neuroinflammation: Inflammatory processes in Neurodegeneration**

Chairs: Evangelia Pollali, Carla Marcia Cangalaya Lira

09:35-10:45 **Guest speaker - to be announced**

10:45-11:00 **Coffee Break**

11:00-11:15 **Carla Marcia Cangalaya Lira**

Microglia-neuron interactions under physiological and neuroinflammatory conditions in adult mice

11:15-11:30 **Ayse Malci**

Participation of PMCA-Neuroplastin complexes in neuronal Ca²⁺ regulation, signaling and plasticity

11:30-11:45 **Angela Wedekind (Sarah Schreier)**

Impact of aging on mortality and morbidity during LGTV infection

11:45-12:45 **Round Table with Keynote Speaker Module 1 (ABINEP Fellows)**

12:45-13:45 **Lunch**

Session IV: Module 3 - Immunosenescence: Infection and Immunity in the Context of Aging

Chairs: Stefan Replinger, Alexander Pausder

14:00-14:15 **Ann-Kathrin Meinshausen**

C9 immunostaining of periprosthetic tissue as a biomarker to diagnose PJI

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14:15-14:30 **Alexander Pausder**
Analysing the effect of immunomodulating substances on pneumococcal colonization of the respiratory tract in murine allergic asthma

14:30-14:45 **Marie Wende**
Promoting gut decolonization of multi-drug resistant bacteria via the microbiome

14:45-15:00 **Melisa Kantar Weigelt**
Biofilm, microbiome and infection during cancer of the larynx

15:00-15:15 **Coffee Break**

15:15-15:30 **Aneri Tusharbhai Shah**
Novel insights into YB-1 Signaling and Cell Death Decisions

15:30-15:45 **Josefine Jakob**
Multi-omic characterization of mucosal-associated invariant T (Mait) cell responses in infections

15:45-16:55 Guest speaker - **Prof. Dr. Charles Pilette, UCLouvain, Belgium**
Mucosal immunity in chronic obstructive pulmonary disease: from plgR to epithelial biology

16:55-17:05 **Dr. Christiane Hedtmann**
Goodbye Words

17:05-17:15 **Prof. Constanze Seidenbecher**
Goodbye Words

18:30 - open end **Social Evening for ABINEP Fellows**