

## ABINEP Symposium 2021 of the International Graduate School ABINEP

Sep 8<sup>th</sup> - 9<sup>th</sup>, 2021 | Magdeburg, GER (Zoom)

### Program September 8<sup>th</sup>, 2021

9:15-9:30	<b>Welcome by Prof. Volkmar Leßmann</b>
<b>Session I:</b>	<b>Module 4 - Human Brain Imaging for Diagnosing Neurocognitive Disorders</b>
	<i>Chairs: Ehsan Kakaei, Camila Agostino</i>
09:30-10:40	Guest speaker - <b>Dr. Mona Garvert, MPI CBS, Leipzig</b> <i>Hippocampal spatio-temporal cognitive maps guide reward generalisation</i>
10:40-10:55	<b>Beatrice Barbazzeni</b> <i>Neurofeedback to improve working memory: a research study on healthy volunteers with an outlook on preclinical Alzheimer's Disease</i>
10:55-11:10	<b>Julia Rogge</b> <i>Urgency influences evidence representation and performance accuracy in perceptual decision making</i>
11:10-11:25	<b>Camila Agostino</b> <i>Predicting occluded trajectories using temporal and spatial information</i>
11:25-11:40	<b>Stefan Replinger</b> <i>The role of basal ganglia nuclei in sensorimotor gating</i>
11:40-11:55	<b>Sharavanan Ganesan</b> <i>Saccadic re-referencing training in simulated central vision loss and training transfer effects on different visual tasks</i>
12:00-13:00	<b>Round Table with Keynote Speaker Module 4 (ABINEP Fellows)</b>
13:00-14:00	<b>Lunch Break</b>

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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 persistence*
- 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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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 - Prof. Dr. Andrea Kroeger**

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 **Angela Wedekind (Sarah Schreier)**

*Impact of aging on mortality and morbidity during LGTV infection*

11:30-11:45 **Henning Düsedau**

*Microglial and Neuronal Alteration in Influenza Infection*

12:00-13:00 **Round Table with Keynote Speaker Module 1 (ABINEP Fellows)**

13:00-14:00 **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 pIgR 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**