

## ABINEP Symposium 2018 of the International Graduate School ABINEP

Sep 11<sup>th</sup>-12<sup>th</sup>, 2018 | Lukasklause, Magdeburg, GER

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### Program Sep-11th

09:00–09:10 Welcome by Prof. Volkmar Leßmann

09:10–10:20 **Dr. Mike X Cohen (Nijmegen, Netherlands)** – *Guest speaker Module 4  
Midfrontal Theta: A Burgeoning Multiscale Perspective*

Coffee Break I

10:50–11:05 **Beatrice Barbazzeni**  
*Cognitive Training Based on EEG-Neurofeedback to Improve Working  
Memory in Preclinical Alzheimer's Disease*

11:05–11:20 **Julia Rogge**  
*Gathering Evidence and Sensing Urgency - Electrical and Chemical Brain  
Signals During Perceptual Decision Making*

11:20–11:35 **Camila Agostino**  
*Investigation of Behavioral and Neural Correlates of Statistical Learning  
and Temporal Perception*

Lunch Break

12:35–13:35 Poster Session

13:35–14:45 **Prof. Helmut Kettenmann (Berlin, Germany)** – *Guest speaker Module 1  
The Role of Microglial Cells in Brain Diseases*

14:45–15:00 **Rituparna Bhattacharjee**  
*Development of New Techniques for Visualisation of  
Neuroinflammatory Processes During Infections and Autoimmunity  
Diseases of the Brain- Neuroinflammation in Experimental Cerebral  
malaria*

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### Program Sep-11th

Coffee Break II

15:30–15:45 **Carla Marcia Cangalara Lira**  
*Cytoskeleton-Dependent Mechanisms of the Microglia-Matrix-Neuron-Interaction During Neuroinflammatory Processes*

15:45–16:00 **Ayse Malci**  
*Neuroplastin-Mediated Effects in the Nerve and Immunity System*

16:00–17:00 Open discussion

17:00 **BBQ + Get together**

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### Program Sep-12th

09:00 – 09:10 Welcome

09:10–10:20 **Dr. Sonja Djudjaj** (Aachen, Germany) - *Guest speaker Module 3*  
*Role of Macrophage Inhibitory Factor (MIF) in Renal Diseases.*

Coffee Break I

10:50–11:05 **Lisa Osbelt**  
*Influence of the Intestinal Microbiome on Infections, Course Disease and Success of Treatment on Cytostatic Drug-Treated Hemic-Oncological Patients*

11:05–11:20 **Alexander Pausder**  
*Elucidating the Roles of Secretory Immunoglobulins in Asthma under Homeostatic and Infectious Conditions*

11:20–11:35 **Isabel Bernal**  
*Characterisation of Innate Antibacterial T-cell Immunity to Understand Age-Associated Infections with *C. difficile**

Lunch Break

12:35–13:35 Poster Session

13:35–14:45 **Prof. Ole Paulsen** (Cambridge, UK)- *Guest speaker Module 2*

14:45–15:00 **Babak Khodaie**  
*Cellular Simulation of the Dopamine/BDNF-Dependent Modulation of the Synaptical Plasticity*

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### Program Sep-12th

#### Coffee Break II

- 15:30–15:45 **Vivkanandhan Viswanathan**  
*Dopamine-Dependent Modulation of Neuronal Switches in the Auditory Cortex and the Striatum*
- 15:45–16:00 **Ehsan Kakaei**  
*Modelling of Dopamine-Induced Neuronal Network Activity - "Learning Conditional Associations: Rich Temporal Context and Involvement of Hippocampus / Medial Temporal Lobe"*
- 16:00–16:15 **Babak Saber Marouf**  
*Simulation of Behaviour-Dependent Network Activity and Dynamics on the Basis of In Vivo and In Vitro Recording*
- 16:15–16:30 **Evangelia Pollali**  
*Modulation of Behaviour-Related Oscillations by Interneuron Networks*
- 16:30 – 16:40 Closing remarks

## Poster Session - Students

### Module 1

#### *Neuroinflammation: Inflammatory Processes in Neurodegeneration*

**Sarah Schreier**

*Importance of the Astrocytes Activation in Neuropathological Situations such as Viral Infections*

**Timothy French**

*Infection-induced Neuroinflammation is altered by an Intestinal Nematode Infection*

**Carla Marcia Cangalara Lira**

*Cytoskeleton-Dependent Mechanisms of the Microglia-Matrix-Neuron-Interaction During Neuroinflammatory Processes*

### Module 2

#### *Neurophysiology and Computational Modelling of Neuronal Networks*

**Babak Khodaie**

*Cellular Simulation of the Dopamine/BDNF-Dependent Modulation of the Synaptical Plasticity*

**Vivkanandhan Viswanathan**

*Dopamine-Dependent Modulation of Neuronal Switches in the Auditory Cortex and the Striatum*

**Ehsan Kakaie**

*Modelling of Dopamine-Induced Neuronal Network Activity - "Learning Conditional Associations: Rich Temporal Context and Involvement of Hippocampus / Medial Temporal Lobe"*

**Evangelia Pollali**

*Modulation of Behaviour-Related Oscillations by Interneuron Networks*

## Poster Session - Students

### Module 3

*Immunosenescence: Infection and Immunity in the Context of Aging*

#### **Aneri Shah**

*Orchestration of Phagocytic Macrophage Activity to Clear Bacterial Infections by Cold Shock Proteins and NF- $\kappa$ B Signalling in Healthy and Immunosuppressed Elderly Patients*

#### **Ann-Kathrin Meinshausen**

*Interleukin-8 and the Terminal Complement Pathway Identify Posthesis Infection in Periprosthetic Tissue Samples*

#### **Alexander Pausder**

*Elucidating the Roles of Secretory Immunoglobulins in Asthma under Homeostatic and Infectious Conditions*

### Module 4

*Human Brain Imaging for Diagnosing Neurocognitive Disorders*

#### **Stefan Replinger**

*Deep Brain Technology (Application: Evaluation of Deep Brain Treatment)*

#### **Beatrice Barbazzeni**

*Cognitive Training Based on EEG-Neurofeedback to Improve Working Memory in Preclinical Alzheimer's Disease*

#### **Julia Rogge**

*Gathering Evidence and Sensing Urgency - Electrical and Chemical Brain Signals During Perceptual Decision Making*

#### **Camila Agostino**

*Investigation of Behavioral and Neural Correlates of Statistical Learning and Temporal Perception*

#### **Sharavanan Ganesan**

*Visual Learning and Attention Guidance in Patients with Macular Degeneration*