

iBehave Science Retreat

November 27 – 28, 2025 | Seehotel Maria Laach, Maria Laach

Day 1	Thursday, Nov. 27
11:00 – 11:45	Arrival and Welcome Coffee and Snacks
11:45 – 12:00	Ilona Grunwald Kadow, iBehave Network Vision and Program
12:00 – 12:45	Olivia Masseck (iBehave PI), University of Cologne Title: Next-Generation Biosensors to Illuminate Neuromodulation and Brain Circuits
12:45 – 13:30	Talk by Lisa Fenk, Max Planck Institute, Martinsried Title: Neural mechanisms for active eye movements in flies
13:30 – 14:30	Lunch at Seehotel Maria Laach 
14:30 – 14:45	Check-in <i>Session Moderator – Dr. Pietro Verzelli</i>
14:45 – 15:30	Talk by Klas Kullander, Uppsala University, Sweden Title: Position and function of inhibitory interneurons in the mouse hippocampus and cortex
15:30 – 16:15	Talk by France Rose, University of Bonn (Emmy Noether Fellow, Junior Group Leader) Title: Animal behavior analysis enabled by unsupervised deep learning
16:15 – 16:30	Panagiotis Sakagiannis (Postdoc from Martin Nawrot Group) Title: Larvaworld: A behavioral analysis and simulation platform
16:30 – 17:00	Coffee break  <i>Session Moderator – Dr. Ines Klein</i>
17:00 – 17:25	Bettina Schnell (PI), MPINB Title: Neuronal control of saccades in Drosophila
17:25 – 17:40	Moritz Nesseler (PhD from Marc Spehr Group) Title: The main and accessory olfactory pathways converge in distinct amygdaloid nuclei
17:40 – 17:55	Ivy Chi Wai Chan (PhD from Gaia Tavosanis Group) Title: Beyond Randomness: Biased Connectivity Shapes Odour Discrimination and Categorisation in the Drosophila Mushroom Body
17:55 – 18:20	Juergen Gall (PI), Uni-Bonn Title: Unsupervised Action Segmentation
18:20 – 20:00	Poster Session
20:00 – 22:30	Dinner at Seehotel Maria Laach 

Day 2	Friday, Nov. 28
	<i>Session Moderator – Dr. Natalie Schieferstein</i>
09:00 – 09:45	Talk by Valentin Nägerl, University of Göttingen Title: Mind the Gap! Super-resolution imaging of the extracellular space
09:45 – 10:00	Uttam Kumar (PhD from Elena Demidova Group) Title: VISOR: Visual Seizure Onset Detection PeRsonalized for Epilepsy Patients
10:00 – 10:15	Cem Dogdu (PhD from Anja Schneider Group) Title: TRACK-FTD – Validating digital assessment of emotionally evoked facial expressions for multidimensional empathy measurement in bvFTD
10:15 – 10:30	Ali Mohammadi (PhD from Martin Schwarz Group) Title: AI-Enhanced Behavioral Seizure Detection
10:30 – 10:45	Natalia Krasilshchikova (PhD from Tobias Rose Group) Title: Head–eye coordination in visually guided orienting: a freely moving mouse paradigm for active vision
10:45 – 11:00	Stephanie Käs (PhD from Bastian Liebe Group) Title: Seeing All Around: Human–Robot Interaction with 360° Vision
11:00 – 11:30	Coffee break  <i>Session Moderator – Ivy Chi Wai Chan</i>
11:30 – 11:45	Alireza Saeedi (Postdoc from Pascal Malkemper Group) Title: Species-specificity of fear processing circuits in rodent: a comparative study of mole-rats (<i>Fukomys micklemi</i>) and mice
11:45 – 12:00	Karen Cheng (Postdoc from Ilona Grunwald Kadow Group) Title: Behavioral modulation of visuo-olfactory processing
12:00 – 12:15	Yonatan Hutabarat (Postdoc from Dominik Bach Group) Title: Charting the space of human escape dynamics
12:15 – 12:30	Fabian Quicken (PhD from Marc Spehr Group) Title: A Modular Approach to Investigating Odor-Guided Behavior in Mice
12:30 – 12:55	Martin Fuhrmann (PI), DZNE Title: How microglia contribute to stress alterations of synaptic connectivity in the hippocampus
13:00 – 14:00	Lunch at Seehotel Maria Laach 
14:00 – 15:30	Social Hour/Meeting iBehave Network Steering committee members and technology advisory board <i>Session Moderator – Dr. Hannah Jones</i>
15:30 – 15:45	Sangeetha Nandakumar and Ole Bialas (iBOTS technology Team Members) Title: The iBOTS Training Materials Repository
15:45 – 16:10	Simon Musall (PI), RWTH Aachen and FZJ Title: Cortical and subcortical network activity during multisensory decision-making
16:10 – 16:25	Pietro Verzelli (Postdoc from Tatjana Tchumatchenko Group) Title: Linking Behavior and Brain activity in <i>C. Elegans</i>
16:25 – 16:40	Leonard Boeger (PhD from Monika Scholz Group) Title: Latent State Dynamics of Aggressive Behavior in Predatory Nematodes
16:40 – 17:00	Ilona Grunwald Kadow, End note and Thank you
17:00	Departure

Presenter	Posters
1. Anneke Fuß	Investigating whether developmentally and genetically defined mDA subcircuits encode functional modules within the dopaminergic system
2. Eva Sebastian	The role of thalamic neurons during exploration and sensory decision-making
3. Natalie Schieferstein	Cooperative coding in spiking networks with sparsity constraint
4. Laura Asché	ADHD Assessment in Virtual Reality: Multimodal Tracking of Medication Effects and Differentiation from Depression
5. Ines Klein	Differential Effects of Spinal V2a Neuron Modulation on Motor Output
6. Martina Canova	Neural Circuits Underpinning State-Dependent Odor-Taste Integration
7. Maja Neubauer	An open-source system designed for synchronised neural and behavioural data acquisition
8. Marei Freitag	From Connectomics to Cellomics: Reconstructing a Whole Animal Using Deep Learning Methods
9. Quinn Silverman	Developing New Tools to Dissect the Function of Proprioceptor Subtypes in Rhythmic Behaviors
10. Juliana Groß	Circuit-level effects of serotonin in cortico-limbic systems: Integrating ephysiology, optogenetics & behavior
11. Michael Denker	Supporting Reproducible Analysis Workflows in Electrophysiology
12. Julian Pakos	Evaluation of a virtual reality-based office room for a multimodal assessment of ADHD
13. Gokul Madhav	Internal state and olfaction in mushroombody clays of <i>Drosophila melanogaster</i>
14. Federico Spurio	Hierarchical Vector Quantization for Unsupervised Action Segmentation
15. Amina Abdelbaki	Spatiotemporal Embeddings of Whole-Brain Neural Activity Predict Diverse Brain States
16. Meenakshi Meenakshi	Identification of conserved circuit logic in homeostatic navigation
17. Uzay Gökay	Skeleton Motion Words for Unsupervised Skeleton-Based Temporal Action Segmentation
18. André Haubrich	Dentate granule cell activity and slow gamma oscillations support the formation of precise memories

Venue: Seehotel Maria Laach
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