

Berlin Neuroscience Meeting

October 10 - October 11, 2024

GLS Campus Berlin

Program

The Biology of Grasping in Elephants

Michael Brecht

1. Elephants & Trunks (Hildebrandt & Kaufmann)
2. Trunk Sensing & a Trunk Myelin Map (Denninger, Revoyaz)
3. Trunk Movement (Longren & Eigen)
4. Hose Tools Use (Urban, Kaufmann, Becker, Ochs)

Program

Thursday, October 10, 2024

9:15 – 9:30 Opening Aula

Noa Lipstein | *Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP)*

9:30 – 10:30 **Einstein Lecture I** Aula

Chair:

Eva Maria Robles Hernandez | *German Center for Neurodegenerative Diseases, Berlin*

The role of dentate gyrus interneurons in encoding contextual information

Marlene Bartos | *Universität Freiburg, Institute of Physiology*

SHANK3 as an organizer of the microtubule cytoskeleton in parvalbumin neurons?

Daniela Hacker | *Humboldt-Universität zu Berlin, Institute of Biology*

10:30 – 11:15 Coffee Break Lounge

11:15 – 12:45 **Scientific talks – Panel I** Aula

Chair:

Hana Sheldon | *German Center for Neurodegenerative Diseases, Berlin*

Understanding memory through engrams:
Bridging cellular and circuit mechanisms
Matthias Habert | *Charité – Universitätsmedizin
Berlin*

Brain-wide latent population activity integrates
action and goal expectation
Yangfan Peng | *Charité – Universitätsmedizin
Berlin*

Integrating homecage behavior to assess sex-
dependent social stress susceptibility
Tobias Pohl | *Max Delbrück Center for Molecular
Medicine, Berlin*

In vivo functional connectivities underlying
cortical sensory processing are stable throughout
behavior and impaired under anesthesia
Jérémie Sibille | *Charité – Universitätsmedizin
Berlin*

12:45 – 14:00 Lunch Break

Lounge

14:00 – 15:00 **Einstein Lecture II**

Aula

Chair:
Niklas Meyer | *Charité – Universitätsmedizin
Berlin*

Insights into early-life social behavior from new
inhibitory optogenetic tools
Ofer Yizhar | *Weizmann Institute of Science,
Department of Molecular Neuroscience,
Rehovot, Israel*

Mitochondria: More than just the powerhouses
of cells?
Rina Patel | *German Center for
Neurodegenerative Diseases, Berlin*

15:15 – 16:45 **Scientific talks – Panel II** Aula

Chair:

Robert Chesters | *German Institute of Human Nutrition Potsdam-Rehbruecke*

Serotonin-Dopamine interplay toggling action selection and memory consolidation in *Drosophila*

Lisa Scheunemann | *Freie Universität Berlin*

Role of microglia in the maturation and modulation of hippocampal networks

Christian Madry | *Charité – Universitätsmedizin Berlin*

Melanocortin system activity in bridging food responses and behavior

Rachel Lippert | *German Institute of Human Nutrition Potsdam-Rehbruecke*

Evaluation of novel biomarkers for delayed sleep-wake phase disorder

Paulina Pineda | *Charité – Universitätsmedizin Berlin*

16:45 – 17:45 Coffee Break Lounge

17:45 – 19:30 Poster session I Aula

19:30– 20:00 MedNeuro MSc Graduation ceremony Lounge

from 19:30 Party Restaurant
,Oderberger‘

Program

Friday, October 11, 2024

9:00 – 18:00	Satellite: Alumni workshop * 'Cooperative Case Consultation'	Room 111
9:00 – 11:00	Satellite: NeuroCure Research Fellow Network Meeting *	Room 112
9:15 – 10:15	Einstein Lecture III Chair: Ana Lorena Flores Camacho <i>Charité – Universitätsmedizin Berlin</i> Autoimmunity and neurodegeneration – New disease concepts Harald Prüb <i>German Center for Neurodegenerative Diseases, Berlin</i> The inhibitory action of the chaperone BRICHOS against the α -Synuclein secondary nucleation pathway Enrico Klotzsch <i>Humboldt-Universität zu Berlin</i>	Aula
10:15 – 11:00	Coffee Break	Lounge
11:00 – 12:45	Einstein Lecture IV Chair: Clara Unger <i>Max Delbrück Center for Molecular Medicine, Berlin</i>	Aula

Holistic approach towards human decision making

Soyoung Q Park | *German Institute of Human Nutrition Potsdam-Rehbruecke*

Exploring cellular and synaptic heterogeneity in neuronal culture

Melissa Herman | *Charité – Universitätsmedizin Berlin*

Protein ubiquitination regulates cellular diversification in the developing brain

Mateusz Ambrozkiwicz | *Charité – Universitätsmedizin Berlin*

12:45 – 14:00 Lunch Break

Lounge

14:00 – 15:00 **Einstein Lecture V**

Aula

Chair:

Malgorzata Lubas | *Charité – Universitätsmedizin Berlin*

Rethinking Synapses: Aspects of synaptic complexity and diversity

Guus Smit | *Vrije Universiteit Amsterdam*

Exploring parallels in humans and AI prospective memory task performance embedded in a virtual week game

Sushma Kumari | *Berlin School of Business and Innovation*



15:15 – 16:45 **Scientific talks – Panel III** Aula

Chair:

Anna Oliveras | *Berlin Institute for Medical Systems Biology*

Intergenerational transmission of maternal childhood maltreatment and the role of fetal programming

Claudia Buß | *Charité – Universitätsmedizin Berlin*

Early deviations in cellular lipid profiles and cell-to-cell communication in neurodegenerative disease trajectories

Melissa Birol | *Berlin Institute for Medical Systems Biology*

The impact of sleep deprivation on genome regulation in dorsal CA1 region of hippocampus

Dominika Vojtasova | *Max Delbrück Center for Molecular Medicine, Berlin*

Verbal symbols support concrete concept, but enable abstract concept processing: Evidence from brain-constrained neural networks

Fynn Dobler | *Freie Universität Berlin*

16:45 – 17:45 Coffee Break Lounge

17:45 – 19:30 Poster session II Aula

19:30 – 19:45 Closing remarks Aula

from 19:45 Get-Together Lounge

Conference Chair

Silvia Viana da Silva

German Center for Neurodegenerative Diseases, Berlin

Speakers

Mateusz Ambrozkiwicz

Charité – Universitätsmedizin Berlin

Marlene Bartos

Universität Freiburg

Melissa Birol

Berlin Institute for Medical Systems Biology

Claudia Buß

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Tobias Pohl

Max Delbrück Center for Molecular
Medicine, Berlin

Harald Prüb

German Center for Neurodegenerative
Diseases, Berlin

Lisa Scheunemann

Freie Universität Berlin

Jérémie Sibille

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Dominika Vojtasova

Max Delbrück Center for Molecular
Medicine, Berlin

Ofer Yizhar

Weizmann Institute of Science,
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Venue

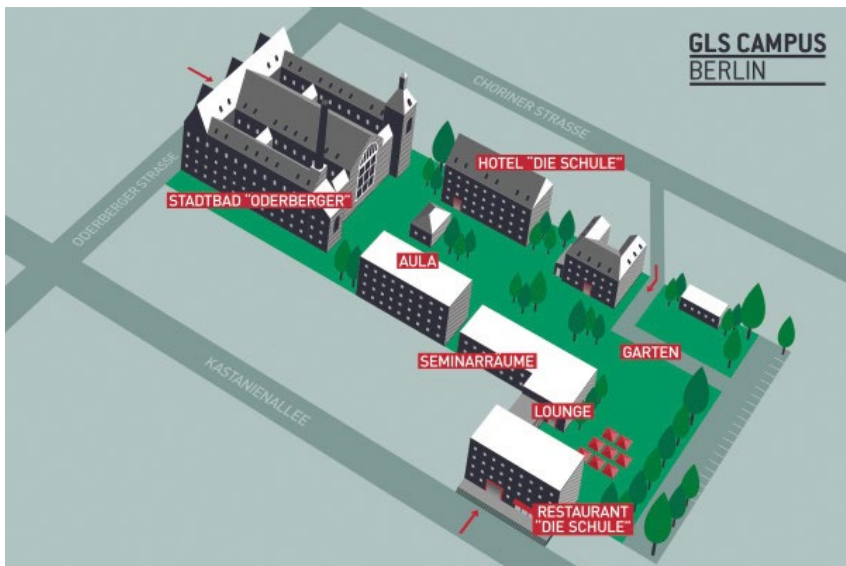
Thursday, October 10, 2024

Lounge and Aula at
GLS Campus Berlin
Kastanienallee 82
10435 Berlin
Childcare: Room 111

Friday, October 11, 2024

Lounge, Aula and Seminar
rooms 111/112 at
GLS Campus Berlin
Kastanienallee 82
10435 Berlin
Childcare: Room 112

Nearest underground stations are U2 Eberswalder Str. and U8 Rosenthaler Platz.



Einstein Center for Neurosciences Berlin

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