

10th MindBrainBody Symposium

March 14-17, 2023

Program

Venue: Kaiserin-Friedrich-Haus, Robert-Koch-Platz 7, 10115 Berlin, Germany / Virtual

| Tuesday, March 14, 2023 | |
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| 15:00 – 16:00 | Registration |
| 16:00 – 17:15 | Keynote Public Lecture & Discussion |
| | Anil K. Seth (University of Sussex; Canadian Institute for Advanced Research) <i>From beast machines to dreamachines</i> Chair: Arno Villringer (MindBrainBody; MPI CBS Leipzig) |
| 17:15 – 18:30 | Panel 1: Presentations by 5 Participants |
| | Jonas Karolis Degutis (MPI CBS Leipzig) <i>Neural encoding and dynamics of visual working memory during distraction</i> |
| | Juanli Zhang (MPI CBS Leipzig) <i>Electrophysiological biomarkers of healthy aging and Parkinson's disease progression</i> |
| | Piotr Litwin (Jagiellonian University) <i>Homeostatic relevance modulates access to visual awareness</i> |
| | André Hechler (Technical University of Munich) <i>Quantifying the brain-wide metabolic effects of predictive processing</i> |
| | Genji Kawakita (Imperial College London) <i>Is my "red" your "red"?: Unsupervised alignment of qualia structures via optimal transport</i> |
| | Chairs: Maria Azanova & Nadine Herzog (MindBrainBody; MPI CBS Leipzig) |
| | Reception |
| 19:00 – 19:45 | Poster Session A (Foyer) |
| | Posters Nr. A1-A28 |
| 19:45 – 20:30 | Poster Session B (Foyer) |
| | Posters Nr. B1-B28 |

Time zone: GMT+1 (Berlin)

Wednesday, March 15, 2023

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| 09:00 – 09:30 | Anil K. Seth Discussion only |
| 09:30 – 10:30 | Keynote Lecture 1 |
| | <p>Frederike Petzschner (Brown University)</p> <p><i>On the physiological basis of reward and punishment</i></p> <p>Chair: Michael Gaebler (MindBrainBody; MPI CBS Leipzig)</p> |
| 10:30 – 10:50 | Coffee Break |
| 10:50 – 12:20 | Panel 2: Presentations by 6 Participants |
| | <p>Corinna Schulz (Tübingen Center for Mental Health, University of Tübingen) <i>Ghrelin amplifies hedonic drive and food reward signaling in binge eating disorder</i></p> |
| | <p>Alireza Nia (Auckland Bioengineering Institute, Auckland) <i>Practical considerations in deploying hybrid fNIRS-EEG system on frontal lobe: an emotion recognition case study</i></p> |
| | <p>Bonnie O'Malley (MPI CBS Leipzig) <i>How do mindfulness-based trainings reduce physiological stress? Assessing changes in attention and acceptance traits and their role in cortisol reduction</i></p> |
| | <p>Lara Puhmann (Leibniz Institute for Resilience Research, Mainz) <i>Introducing a structured online video interview to assess digital biomarkers of psychological distress</i></p> |
| | <p>Monika Malon (Institute of Psychology, Polish Academy of Sciences, Warsaw) <i>Is loneliness linked to prosociality? A meta-analysis of 36 studies with 43,508 participants</i></p> |
| | <p>Leah Banellis (CFIN, Aarhus University, Aarhus.) <i>Body-Wandering: Investigating the Subjective and Physiological Fingerprints of Interoceptive Mind-wandering</i></p> |
| | <p>Chairs: Carina Forster, Felix Klotzsche & Lioba Enk (MindBrainBody; MPI CBS Leipzig)</p> |
| 12:20 – 13:15 | Lunch Break |

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| 13:15 – 14:30 | Sponsor Workshops A |
| | <p>Sophie Ankner (Brain Products / MES Forschungssysteme GmbH) <i>The Brain in Motion – Neuroscientific Imaging Methods</i></p> <p>Alex Dimov (Biopac) <i>High density multimodal fNIRS Application: from Virtual Reality to Real-World</i></p> <p>Eshwar Ghumare (ANT Neuro) <i>Quick high-density EEG measurements with the advances in eego™ solutions</i></p> <p>Chairs: <i>Marta Gerosa & Antonin Fourcade (MindBrainBody; MPI CBS Leipzig)</i></p> |
| 14:35 – 15:35 | Keynote Lecture 2 |
| | <p>Stephanie R. Jones (Brown University) <i>Interpreting the mechanisms and meaning of brain rhythms in somatosensation using the Human Neocortical Neurosolver (HNN) modeling software</i></p> <p>Chair: <i>Vadim Nikulin (MindBrainBody; MPI CBS Leipzig)</i></p> |
| | Coffee Break |
| 15:40– 16:25 | Poster Session C (Foyer) |
| | Posters Nr. C1-C28 |
| 16:25 – 17:10 | Poster Session D (Foyer) |
| | Posters Nr. D1-D28 |
| 17:15 – 18:15 | Keynote Lecture 3 |
| | <p>Matthew Larkum (Humboldt Universität zu Berlin) <i>The Dendritic Integration Theory of Consciousness</i></p> <p>Chair: <i>Tilman Stephani (MindBrainBody; MPI CBS Leipzig)</i></p> |
| | Social Gathering (Optional) |

Thursday, March 16, 2023

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| 09:00 – 09:30 | Matthew Larkum Discussion only |
| 09:30 – 10:30 | <p>Keynote Lecture 4</p> <p>György Buzsáki (New York University)</p> <p><i>Ways to Think About the Brain: Emergence of cognition from action</i></p> <p>Chair: Arno Villringer (MindBrainBody; MPI CBS Leipzig)</p> |
| 10:30 – 10:50 | Coffee Break |
| 10:50 – 11:35 | <p>Methodological Focus 1</p> <p>Micah Allen (Institute of Clinical Medicine, Aarhus University)</p> <p><i>A Psychophysical Approach to Quantifying Respiratory and Cardiac Interoception</i></p> <p>Chair: Paul Steinfath (MindBrainBody; MPI CBS Leipzig)</p> |
| 11:35 – 12:20 | <p>Methodological Focus 2</p> <p>Felix Biessmann (TU Berlin)</p> <p><i>Trust and Explanations in Machine Learning</i></p> <p>Chair: Michael Gaebler (MindBrainBody; MPI CBS Leipzig)</p> |
| 12:20 – 13:20 | Lunch Break |
| 12:20 – 13:20 | Lunch Break |
| 13:20 – 14:15 | <p>Sponsor Workshops B</p> <p>Felix Toepfer (NIRx)</p> <p><i>fNIRS hyperscanning, a live demonstration</i></p> <p>Artur Czeszumski (Mentalab)</p> <p><i>Unlocking the Secrets of the Brain: The Power of Mobile EEG Devices</i></p> <p>Chairs: Alina Studenova & Nikolai Kapralov (MindBrainBody; MPI CBS Leipzig)</p> |
| 14:15 – 14:35 | Coffee Break |

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| 14:35 – 15:50 | Panel 3: Presentations by 5 Participants |
| | <p>Yulia Revina (MPI CBS Leipzig) <i>Expectations about pain location do not improve pain discrimination performance</i></p> |
| | <p>Alejandro Galvez-Pol (University of the Balearic Islands, Palma de Mallorca) <i>People actively adjust the gaining of tactile data based on how their heartbeats alters their perceptual sensitivity</i></p> |
| | <p>Suvi Karjalainen (University of Jyväskylä) <i>Neural activity is modulated by spontaneous and volitionally controlled breathing</i></p> |
| | <p>Fivos Iliopoulos (MPI CBS Leipzig) <i>Fundamental Unconscious Modulators of Somatosensory Perception</i></p> |
| | <p>Sofija Perovic (Istituto Italiano di Tecnologia, Sapienza University of Rome) <i>Does the Vertex Potential reflect the activation of the extralemniscal system?</i></p> |
| | <p>Chairs: <i>Eleni Panagoulas & Tilman Stephani (MindBrainBody; MPI CBS Leipzig)</i></p> |
| 15:50 – 16:00 | Closing Remarks & Award Distribution |
| | Arno Villringer (MindBrainBody; MPI CBS Leipzig) |
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| 17:00 – 17:30 | György Buzsáki Discussion only |
| 17:30 – 18:00 | Frederike Petzschner Discussion only |

| Friday, March 17, 2023 | |
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| | Only VIRTUAL poster sessions |
| 10:30 - 11:30 | Poster Session A Virtual Posters Nr. A1-A28 & V1-V6 |
| 11:30 – 12:30 | Poster Session B Virtual Posters Nr. B1-B28 & V7-V12 |
| 12:30 – 13:30 | Break |
| 13:30 – 14:30 | Poster Session C Virtual Posters Nr. C1-C28 & V13-V18 |
| 14:30 – 15:30 | Poster Session D Virtual Posters Nr. D1-D28 & V18-V26 |