

# Alpine Brain Imaging Meeting 2023

## PROGRAM OVERVIEW

SUNDAY, January 8<sup>th</sup>

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### OPENING LECTURE

16:00-17:30 Registration (Hotel Suisse)

17:30 Opening Keynote Lecture (Hotel Suisse Conference Room)

**Michael PLATT** | *University of Pennsylvania, USA*

- *Climate Change and the Social Brain*

18:30-20:30 Welcome Reception sponsored by **CIBM Center for Biomedical Imaging**  
(Hotel Suisse)

MONDAY, January 9<sup>th</sup>

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### *Development of Numerical and Musical Skills*

15:00 Welcome Coffee & posters

15:30 **Elisabeth BRANNON** | *University of Pennsylvania, USA*

- *Recent investigations characterizing the development and evolution of the approximate number system*

16:20 **Clara JAMES** | *University of Applied Sciences and Arts Western Switzerland HES-SO & University of Geneva, Switzerland*

- *Never too late: musical training-driven brain and cognitive benefits in healthy elderly*

16:40 **Giovanni LEONE** | *Inserm, Paris, France*

- *Plasticity in control and memory circuits forecasts PTSD symptoms evolution*

17:00 Coffee Break

17:30 **Psyche LOUI** | *Northeastern University, USA*

- *Why Music Moves Us: New Directions in Music for Brain Health*

18:20 **Andrew YONELINAS** | *University of California, Davis, USA*

- *The role of the hippocampus in working memory*

**18:40** ▶ **Poster Blitz Presentations**

**18:50-20:00** ▶ **Poster Session: Emotion & Motivation; Language & Music; Learning & Memory.**

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## **TUESDAY, January 10<sup>th</sup>**

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### ***Interoceptive Awareness***

15:00 Welcome Coffee & posters

**15:30** ▶ **Athina DEMERTZI** | *Liège University, Belgium*

- *At the boundaries of mental state reportability*

16:20 **Hal Blumenfeld** | *Yale School of Medicine, USA*

- *Shared subcortical arousal networks across perceptual modalities*

16:40 **Viviana LEUPIN** | *University of Fribourg, Switzerland*

- *Interoceptive signals determine the earliest markers of awareness for visual threshold stimuli: evidence from ERPs and their sources*

**17:00** ▶ **Coffee Break**

**17:30** ▶ **Anil SETH** | *University of Sussex, UK*

- *From beast machines to dreamachines*

18:20 **Andria PELENTRITOU** | *University Hospital (CHUV) and University of Lausanne (UNIL), Switzerland*

- *Cardio-audio synchronization elicits neural and cardiac surprise responses in human wakefulness, sleep and coma*

**18:40** ▶ **Poster Blitz Presentations**

**18:50-20:00** ▶ **Poster Session: Clinical Neuroscience; Perception.**

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## **WEDNESDAY, January 11<sup>th</sup>**

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### ***Brain Dynamics***

15:00 Welcome Coffee & posters

**15:30** ▶ **Diego VIDAURRE** | *Aarhus University, Denmark*

- *Models to characterise endogenous and task-related brain network dynamics*

16:20 **Thomas Koenig** | *University Hospital of Psychiatry, Translational Research Centre, & University of Bern, Bern, Switzerland*

- *Towards a more objective use of resting-state EEG microstate findings across studies*

16:40 **Matthias Müller** | *University of Leipzig, Germany*

- *What if they were wrong? Putting the Pd and signal suppression hypothesis on a stress test with a multi-dimensional approach*

17:00 **Coffee Break**

17:30 **Joana CABRAL** | *University of Minho, Portugal*

- *Brain Energy Landscapes across conditions*

18:20 **Erie BOORMAN** | *UC Davis, USA*

- *Cognitive maps, cognitive control, and inference*

18:40 **Poster Blitz Presentations**

18:50-20:00 **Poster Session: Clinical Neuroscience; Methods.**

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## THURSDAY, January 12<sup>th</sup>

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### ***Social Actions and Decisions***

15:00 Welcome Coffee & posters

15:30 **Emilie CROSS** | *Western Sydney University, Australia*

- *Using human—robot encounters to explore human behavioural and brain plasticity*

16:20 **Roland BENOIT** | *University of Colorado, Boulder & Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*

- *How imaginings shape our preferences: Computational and neural mechanisms of simulation-based learning*

16:40 **Matthias GRUBER** | *Cardiff University, UK*

- *Intrinsic functional connectivity determines how curiosity and prediction errors enhance memory*

17:00 **Coffee Break**

17:30 **Matthew RUSHWORTH** | *University of Oxford, UK*

- *What is special about the social brain?*

18:20 **Richard RAMSEY** | *Macquarie University, Sydney, Australia*

- *Lonely brains at rest: A population neuroscience approach to understanding resting-state functional connectivity in lonely individuals*

18:40 **Elenor MORGENROTH** | EPFL, Geneva, Switzerland

- *The neural organization of emotion experience during film*

19:00-20:00 Moving to dinner location

20:00 Farewell dinner with prize ceremony

- *Restaurant “Le Gueullhi”*