




10 YEARS INT - PROGRAM

WEDNESDAY 28/09/2022

8:45 – 12:30 CONECT – Chair: L. Perrinet & D. Hansel


- 9:00

Learning generative models of latent dynamics in spiking neural networks (S. Denève)
- 9:45

Motor-related signals support localization invariance for stable visual perception (A. Benucci)
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COFFEE BREAK & Poster Session 1
- Reinforcement learning of birdsong (R. Hahnloser)
- 11:00

Stochastic dynamics of neural representations residing in low dimensional manifolds: from motor control to spatial cognition (Y. Burak)
- 11:45




LUNCH BREAK & Poster Session 1

13:50 – 17:30 NeuroTechCenter – Chair: M. Cazorla & R. O'Connor


- 14:00

Opto-electrical tools to manipulate brain connections on-demand (M. Cazorla)
- 14:45

Neuroprostheses for artificial vision (D. Ghezzi)
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COFFEE BREAK & Poster Session 1
- 16:00

Large Area High Resolution Optical Imaging (F. Pavone)
- 16:45


High capacity electrophysiology: Where we are and where we go (T. Harris)
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BREAK & Poster Session 1
- 18:00

KEYNOTE: From Modulation of Small Degenerate Circuits to Climate Change (E. Marder)


THURSDAY 29/09/2022

- 8:00




BREAKFAST Students & D. Ghezzi
- ### 8:45 – 12:30 Embodied CNS – Chair: R. Bos & G. Masson
- 9:00

Astrocytic contribution to neuronal rhythmicity in the spinal locomotor network (R. Bos)
- 9:45

Early-life adversity & altered cerebral plasticity: recent cellular & molecular evidence in humans (N. Mechawar)
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COFFEE BREAK & Poster Session 2
- 11:00

The microbial metabolite p – Cresol induces autistic-like behaviors in mice by remodelling the gut microbiota & deregulation of central catecholamines (L. Davidovic)
- 11:45


Functional & Comparative Neuroanatomy of Interoception (H. Evrard)
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LUNCH BREAK & Poster Session 2

13:55 – 17:30 Circuits, Maps & population dynamics – Chair: M. Szinte & G. Ibos


- 14:00

Facial expressions & their neural correlates reveal a reservoir of decision variables in the mouse frontal cortex (F. Cazes)
- 14:45


From visual space to memory space: Insights from neural recordings in parietal cortex & hippocampus (S. Wirth)
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COFFEE BREAK & Poster Session 2
- 16:00

Sensory maps in visual cortex & superior colliculus (J. Kemkow)
- 16:45

Turtles all the way up: sensory-topographic organization throughout the human brain (T. Knapen)
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BREAK & Poster Session 2
- 18:00

KEYNOTE: The mechanics & norms of perceptual choice (A. Renart)
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SOCIAL EVENT Speakers' Dinner


FRIDAY 30/09/2022

- 8:00




BREAKFAST Students & A. Renart
- ### 8:45 – 12:30 Variability & diversity at multiple scales – Chair: J.-M. Goillard & G. Auzias
- 9:00

Degeneracy, cell-to-cell variability, & and co-variations in ion channels properties (J.-M. Goillard)
- 9:45

Continually reconfiguration neural circuits & feedback control in the brain (T. O'Leary)
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COFFEE BREAK & Poster Session 3
- 11:00

Cortical activity fluctuations: the good, the bad, and the circuits (R. Coen-Cagli)
- 11:45

Sulcal variability identifies differential evolution of prefrontal cortical regions in primates (C. Amiez)
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LUNCH BREAK & Poster Session 3
- ### 13:50 – 17:30 Interrogating neural circuits to better understand brain function & disease (C. Beurrier & M. Degoulet)
- 14:00

How do deep-brain recordings shape the future of DBS in Parkinson's disease? (A. Eusebio)
- 14:45


Amyloid precursor protein peptides: physiological modulators of glutamergic signaling (H. Marie)
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COFFEE BREAK & Poster Session 3
- 16:00

Linking emotional valence & anxiety: case study of the insular cortex & amygdala (A. Beyeler)
- 16:45

Drug addictions: putting drugs into context (A. Baldiani)
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BREAK & Poster Session 3
- 18:00

KEYNOTE: The role of OSVZ in shaping primate visual cortex architecture (C. Dehay)
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SOCIAL EVENT Apéro INT