

Kick-Off Meeting

PP2205 - Evolutionary Optimization of Neuronal Processing

October 12th - 14th 2020

| Monda | ау | | |
|--------|-------|----------------------------|--|
| 12th | 00.00 | Welcome / Introduction | |
| | 09.00 | welcome / introduction | Weakly nonlinear interactions in an electrosensory cocktail party |
| | 09:30 | Benda, Grewe, Lindner | problem |
| | | Jösch, Kondrashov | Evolution of Sensorimotor Transformation Across Diptera |
| | 10:30 | | Break |
| | | Arrenberg, Hafed | Saccadic suppression: from zebrafish to primates |
| | | <u> </u> | Deciphering the neuronal codes for convergently evolved working |
| | 11:30 | Nieder, Mormann | memory functions in humans, monkeys, and crows |
| | | · | The evolutionary mechanisms optimizing neural circuit structure and |
| | 12:00 | Nowick, Wernet | function for skylight navigation across insect species |
| | 12:30 | | End |
| | | | |
| | | | Evening Colloquium: Visual processing mechanisms in dynamically |
| | 16:30 | Marion Silies | changing contexts |
| Tuesda | ıy | | |
| 13th | | | Madeline dimension from the condensation of continue to continue to the contin |
| | 00.00 | NA | Modeling dynamics, function and evolution of earliest nervous |
| | | Memmesheimer | systems |
| | 09:30 | Priesemann, Wibral | Evolutionary Convergence of Hierarchical Information Processing |
| | 10.00 | Ernst, Kreiter | Evolving to be flexible - optimizing task-dependent information |
| | 10:30 | EITIST, KIEITEI | processing in the visual system Break |
| - | 10.50 | | Evolutionary specialization of neuronal core circuits in arthropod |
| | | | olfactory systems: structure and function of convergence/divergence |
| | 11.00 | Harzsch, Nawrot, Rybak | in crustaceans versus insects |
| | 11.00 | Tiai23cii, ivawiot, ivybak | Spatially anisotropic lateral inhibition: Convergent circuit designs in the |
| | 11.30 | Egger, Sachse | insect AL and vertebrate OB |
| - | 11.50 | 26607, 3001130 | The evolution of phenotype, computation, and network mechanism |
| | 12:00 | Clemens, Hennig | of song recognition in crickets |
| | 12:00 | elemens, menng | End |
| | | | |
| | | | Evening Colloquium: Evolutionary Innovations: from Stamp |
| | 17:00 | George Striedter | Collecting to Theory (interactive forum) |
| Wedne | esday | | |
| 411 | 09:00 | Wicher, Kittel | Task-dependent orchestration of insect OSN performance |
| | | , | Plug and play integration of a new sensory channel in evolution – |
| | 09:30 | Rotter, Kampa | experiment and theory |
| | | , , | Identification of conserved circuit logic in temperature navigation |
| | 10:00 | Grunwald, Portugues | behavior in fish and fly |
| | 10:30 | | Break |
| - | | | Through the eyes of a mouse lemur – understanding the evolutionary |
| | | | emergence of visual cortical columns through cellular imaging, |
| | 11:00 | Wolf, Huber | optimization theory, and visual behavior in a miniature primate |
| | | | A three-dimensional functional investigation of the avian visual system |
| | 11:30 | Güntürkün, Pusch, Rose | - Do amniotes share a canonical forebrain circuit? |
| | | Final Discussion | |
| | 13:00 | | End |
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