



# Dynamics of biological systems: emergent phenomena at different scales

## Saturday, December 2, 2023

**Neural Networks: Part I - A-1-06 (2:30 PM - 4:00 PM)**

-Conveners: Jeremi Ochab

| time    | [id] title  | presenter         |
|---------|---|-------------------|
| 2:30 PM | [15] Cholinergic modulation of neuronal excitability underlies differential dynamics and roles of NREM and REM sleep during sleep dependent memory consolidation. | ZOCHOWSKI, Michal |
| 3:15 PM | [1] Kinematics of mice reinforcement learning in intelligent cages  | WÓJCIK, Daniel    |

# Sunday, December 3, 2023

## Neural Networks: Part II - A-1-06 (9:30 AM - 11:15 AM)

-Conveners: Zuzanna Szymańska

| time     | [id] title   | presenter           |
|----------|--|---------------------|
| 9:30 AM  | [17] Fractal and multifractal organisation of neuroimaging signals in cognitive tasks and in disease   | OCHAB, Jeremi       |
| 10:15 AM | [9] Exploring Dendritic Plasticity: How Synaptic and Ion Channel Adaptations Enable Single Neurons to Rival Artificial Neural Network Complexity | SŁAWIŃSKI, Ziemowit |
| 10:35 AM | [19] Mapping Brain Connections: The Role of Relaxin 3/RXFP3 system in Behavior and Functionality   | CZERNIAK, Gabriela  |
| 10:55 AM | [16] About hierarchical correlation reconstruction, multi-feature Granger causality, and others  | DUDA, Jarek         |