

**Poster Session I: Monday, 10 June 2019 (3:35 pm - 5:35 pm)**

The Brain Conferences 2019 - **Dynamics of the brain: temporal aspects of computation**

*Rungstedgaard, 9-12 June 2019*

Poster board number	Surname	Name	Abstract Title	Institution
1	Morozova	Ekaterina	Effect of temperature on half-center oscillator networks	Brandeis University (US)
2	Fenk	Lorenz	Sleeping dragons and claustrum-cortical interactions	Max Planck Institute for Brain Research (DE)
3	Bitterman	Yael	Hierarchical amygdala network dynamics reflect learning of behavioral schemes	FMI (CH)
4	Fernandes	Henrique	The dynamics of the improvising brain: a study of musical creativity	Aarhus University (DK)
5	Nierwetberg	Svenja	Effect of sub-anesthetic ketamine on cortical dendritic activity and perceptual behavior in mice	Sainsbury Wellcome Centre (UK)
6	Yang	Mingyu	The Locus Coeruleus activity during hippocampal-cortical communication	Max Planck Institute for Biological Cybernetics (DE)
7	Schmitt	Lukas	Thalamic coordination of cortical dynamics stabilizes short-term perceptual representations	Massachusetts Institute of Technology (US)
8	Heszberger	Zalan	Robust Navigable Cores in the Human Brain Networks	Budapest University of Technology and Economics (HU)
9	Dubinina	Igor	Criticality, predictability and self-similarity of resting state dynamics in epilepsy patients.	Ernst Strüngmann Institut (DE)
10	Mahallati	Sara	Inference of network connectivity using maximum entropy models	University of Toronto (CA)
11	Teng	Xiangbin	Carrier Frequency and Bandwidth Modulate Cortical Oscillatory Activities in the Auditory Gamma Band but less in the Theta Band	Max Planck Institute for Empirical Aesthetics (DE)
12	Ghorbani	Maryam	Slow spindles are associated with cortical high frequency activity	Ferdowsi University of Mashhad (IR)
13	Jarne	Cecilia	Recurrent neural networks and flow control mechanisms	Universidad Nacional de Quilmes and CONICET (AR)
14	Ramaswamy	Venkatakrishnan	How many circuit perturbation experiments are necessary to understand how neural circuits mechanistically cause behavior?	National Centre for Biological Sciences
15	Pfeiffer	Paul	A speed control for neurons - modifying the membrane capacitance via dynamic clamp	Humboldt-Universität zu Berlin (DE)
16	Kuznietsov	Illia	EEG microstates during social interaction: team game model	Lesya Ukrainka Eastern European National University

17	Tan	Hui Min	Maternal ERP dynamics to infant emotion and identity predict parenting sensitivity	Singapore Institute for Clinical Sciences (SG)
18	Carreno-Munoz	Maria Isabel	Electrophysiological evidences of altered sensory perception in SYNGAP1 mouse model	University of Montreal (CA)
19	Grabenhorst	Matthias	Uncertainty parameters in temporal prediction	Max Planck Institute for Empirical Aesthetics
20	Naik	Shruti	Functional Dynamics of the Infant Brain	Neurospin, Paris (FR)
21	Birla	Hareram	Neuroprotective effect of Withania somnifera in BPA induced-cognitive dysfunction and oxidative stress in mice.	Banaras Hindu University (IN)
22	Schoonover	Carl	Unstable odor responses in piriform cortex	Columbia University (US)
	Fink	Andrew		
23	Grabot	Laetitia	Spontaneous alpha oscillations reflect the effort to compensate an individual bias in temporal perception	University of Bielefeld (DE)
24	Amat Foraster	Maria	Modulation of thalamo-cortical activity by the NMDA receptor antagonists ketamine and phencyclidine in the awake freely-moving rat	Lundbeck (DK)
25	Stevner	Angus	Large-scale brain networks and transition dynamics during fluctuations between wakefulness and sleep in humans	Center for Music in the Brain (MIB)
26	Heggli	Ole Adrian	Interpersonal synchronization strategies – modelling and neuroimaging	Aarhus University (DK)
27	Shapcott	Katharine	Magnocellular influence on dynamics in area V1	Ernst Strüngmann Institute (DE)
28	Schaefer	Andreas	Scalable electrophysiology for dense recording of temporal neuronal dynamics	Francis Crick Institute / UCL (UK)
29	Vestergaard	Mikkel	Cortical Coding of Innocuous Thermal Perception in Mice	Max-Delbrück Center (DE)
30	Berg	Rune	Sparse network connectivity from physiology: What pairwise intracellular recordings can tell us about motor circuits	University of Copenhagen (DK)
31	Petersen	Peter	Altered cell assembly dynamics in the hippocampus by focal cooling of the medial septum	New York University (US)
32	Coen	Philip	Cortical basis of audiovisual spatial localization in mouse	University College London (UK)
33	Pashkovski	Stan	A systematic and invariant representation of odor space in cortex	Harvard Medical School (US)
34	Gebehart	Corinna	Integration of Multimodal Sensory Feedback by Local Premotor Nonspiking Interneurons of the Stick Insect	University of Cologne (DE)
35	Donato	Flavio	Stereotyped network dynamics in the medial entorhinal cortex.	Kavli Institute for Systems Neuroscience (NO)
36	Monaco	Joseph	Quasistability of sharp-wave/ripple trajectory sequences in spiking network models of hippocampal attractor maps	Johns Hopkins University School of Medicine (US)
37	Fischler	Walter	The role of olfactory landmarks in place cell formation and navigation	Columbia University (US)
38	Zalta	Arnaud	Temporal attention revisited: rate-limited and modality-specific rhythmic sampling capacities	Aix-Marseille University (FR)
39	Lidström	Suzy	The Deen Problem of consciousness — achieving coherence from below quantum fields to above neuronal networks	Texas A&M University (US)

37	Allen	Roland	The Deep Problem of Consciousness — Achieving coherence from below quantum fields to above neuronal networks	Texas A&M University (US)
40	Rue	Mara	Rapid adaptation of pyloric neurons of the crab, <i>Cancer borealis</i> , to elevated extracellular potassium concentrations	Brandeis University

**Poster Session II: Tuesday, 11 June 2019 (4:25 pm - 6:25 pm)**

No	Surname	Name	Abstract Title	Institution
1	Baas	Nils	Decoding of neural data using topological data analysis	Norwegian University of Science and Technology (NO)
2	Rué Queralt	Joan	Intrinsic spatiotemporal dynamics of the human sleep cycle revealed using novel temporal manifold harmonics method	CHUV
3	Nolte	Max	Neocortical circuitry supports spike-time reliability amidst cellular noise and chaos	École Polytechnique Fédérale de Lausanne (CH)
4	Yang	Yiling	Unpacking the transient: intensity-ramping natural stimuli result in sequential responses in area V4	Ernst Strüngmann Institute for Neuroscience in Cooperation with Max Planck Society (DE)
5	Franks	Kevin	Recurrent circuitry provides the substate for pattern completion in olfactory cortex	Duke University (US)
6	haddad	rafi	Evidence for Weak Contribution of Temporal Coding in Human Olfaction	Bar Ilan University
7	Munch	Anders	Ketamine Modify Oscillations and Single Neuron Firing in the Auditory Cortex in Vivo	Lundbeck/University of Copenhagen (DK)
8	Bowman	Christien	Taking the 'Loco' Out of Hyperlocomotion: Behaviourally Stratifying EEG Epochs in Freely Moving Rats During Blockade of Psychotic or Antidepressant Features of Ketamine	Lundbeck (DK)
9	Giroud	Jérémy	Asymmetric sampling in human auditory cortex reveals spectral processing hierarchy	Aix-Marseille University (FR)
10	Kedia	Sonal	Blue light activates pyloric neurons of the <i>C. Borealis</i> stomatogastric ganglion	Brandeis University (US)
11	Bergel	Antoine	Neurofunctional ultrasound reveals new insights in functional coupling between fast gamma oscillations and blood flow in behaving and sleeping rodents	INSERM U1273 (FR)
12	Subramoney	Anand	Networks of spiking neurons learn to learn	Technische Universität Graz (AT)
13	Karpas	Ehud	Strong spatial and temporal network correlations shape population dynamics in the prefrontal cortex during decision making	Weizmann Institute of Science (IL)
14	Guevara Erra	Ramon	Information content in functional networks of synchronized neural activity: implications for the pathological and normal brain	CNRS
15	Schwab	Bettina	Noninvasive modulation of large-scale cortical coupling	University Medical Center Hamburg-Eppendorf (DE)
16	Bi	Hongjie	Coexistence of fast and slow gamma oscillations in one population of inhibitory spiking neurons	Université de Cergy-Pontoise
17	Pesnot--Lerousseau	Jacques	Neural entrainment is frequency specific	Aix-Marseille University (FR)
18	Nordmark	Jonatan	Coding of azimuthal sound position across secondary regions of ferret auditory cortex	Ecole Normale Supérieure, Paris (FR)

19	Maravall	Miguel	Collective cortical activity underlying discrimination of tactile sequences in mice	University of Sussex (UK)
20	Stauch	Benjamin	Stimulus repetition modifies neuronal synchronization in human and macaque V1	Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society
14	Kashefi	Adel	Methylphenidate (MPH) produces conditioned place preference (CPP) in marmoset monkeys and cannabidiol exposure during extinction do not inhibit the reinstatement of MPH-induced CPP	Shahid Beheshti University of Medical Science (IR)
22	Marko	Martin	The role of theta oscillations in lexical-semantic retrieval	Slovak Academy of Sciences, Centre of Experimental Medicine, Institute of Normal and Pathological Physiology
23	Gulyás	András	The role of detours in individual human navigation patterns of complex networks	Budapest University of Technology and Economics (HU)
24	Domanski	Aleksander	Distributed prefrontal cortical population dynamics during flexible decision making	University of Bristol (UK)
25	Shinn	Maxwell	FEF signatures of saccade inhibition during perceptual decision-making	Yale University (US)
26	Vilimelis Aceituno	Pau	From Spike Latency Reduction to Forecasting	Max Planck Institute for Mathematics in the Sciences
27	Machado Vieira	Diego	Entrainment of hippocampal theta oscillations by local optogenetic stimulation	University of Freiburg (DE)
28	Qasim	Salman	Phase precession in the human MTL	Columbia University (US)
29	Márton	Christian David	Learning actions and values shapes recurrent dynamics in the corticostriatal system	Imperial College London/NIH (UK)
30	Ebbesen	Christian	Subject sex and partner sex modulate social touch responses across multiple cortical areas	New York University (US)
31	Senoussi	Mehdi	Testing a computational model of cognitive control through periodic binding at theta frequency: a behavioural and EEG investigation	Ghent University (BE)
32	Cafalchio	Matheus	The effect of Medial Septum Stimulation on Hippocampal Electrophysiology and Behaviour	Trinity College Dublin (IE)
33	Yanik	Mehmet	Engineering brain activity patterns by neuromodulator polytherapy for treatment of disorders	ETH
34	Dzaja	Domagoj	Structural differences between homologous areas of prefrontal cortex in rat, monkey and human: a quantitative NeuN and calretinin immunohistochemical study	School of medicine, Croatian Institute for Brain Research
35	Shteyn	Michael	Neurons in Frontal Eye Field Signal Unsigned Reward Prediction Error	University of Pittsburgh; Carnegie Mellon University
36	Mohammadzada	Freschta	Communication through synchronization: a mechanism of recovery underlying spinal cord injury?	University Hospital Balgrist (CH)
37	Korotkova	Tatiana	Regulation of innate behaviors by distinct neuronal subgroups in the lateral septum	Max Planck Institute for Metabolism Research (DE)
38	Vibell	Jonas	ERP latency shifts from attention to spatial locations versus sensory modalities	University of Hawaii (US)
39	Tuckute	Greta	Real-time EEG decoding of attentional states to faces and scenes	Technical University of Denmark (DK)