

1st International Conference on Sleep Spindling

Thursday, May 12, 2016

08:00-09:00	Registration
09:00-09:10	Opening Remarks Róbert BÓDIZS Semmelweis University, Chair of the Scientific Committee
09:10-10:00	Basic mechanisms and rhythogenesis-1 Keynote Lecture Thalamic cellular interactions and the duration of sleep spindles László ACSÁDY Institute of Experimental Medicine of the Hungarian Academy of Sciences, Hungary
10:00-10:25	Invited Talk Thalamic reticular nucleus, thalamic bursts and cortical spindles Michael M. HALASSA New York University, United States Identification of highly connected brain sites associated with sleep spindles activity
10:25-10:40	Mario VALDERRAMA Universidad de los Andes, Colombia Spatiotemporal characteristics of the sleep spindle in human electrocorticography
10:40-10:55	Giovanni PIANTONI Massachusetts General Hospital, United States
10:55-11:15	Coffee break
11:15-12:05	Gatekeepers of sleep Keynote Lecture Relationships between Spindles and K-complexes, as gatekeepers of our conscious awareness George KOSTOPOULOS University of Patras, Greece
12:05-12:20	Are sleep spindles inhibitory for pain? Helene BASTUJI Lyon Neuroscience Research Center (CRNL), France
12:20-14:00	Lunch break
14:00-14:50	Mesiotemporal structures and cross-frequency coupling Keynote Lecture Nature of sleep spindles in mesiotemporal structures Zsófia CLEMENS University of Pécs, Hungary
14:50-15:05	Slow oscillations, spindles and ripples are hierarchically nested in the human hippocampus Til O. BERGMANN University Hospital Tübingen, Germany
15:05-15:20	Phase-amplitude coupling of sleep spindles predicts risk of evolution to dementia in Parkinson disease André ACHIM Université du Québec à Montréal, Canada
15:20-15:40	Coffee break
15:40-16:30	Basic mechanisms and rhythogenesis-2 Keynote Lecture Sleep spindles in the mouse: so small, yet so powerful Anita LÜTHI University of Lausanne, Switzerland Characterization of topographically specific sleep spindles in mice
16:30-16:45	Jee Hyun CHOI Korea Institute of Science and Technology, South Korea
16:45-17:35	Sleep regulation and sleep disorders Keynote Lecture Cortical spindles and sleep homeostasis Vladyslav VYAZOVSKIY University of Oxford, United Kingdom Changes of sleep spindle characteristics during split-night studies in patients with obstructive sleep apnea
17:35-17:50	Peter ANDERER Philips Austria GmbH, Austria
17:50-18:05	Sleep spindle characteristics before and after sleep deprivation in obstructive sleep apnea Anna E. MULLINS Woolcock Institute of Medical Research, Australia
18:05-20:00	Welcome Reception

Friday, May 13, 2016

09:00-09:50	Memory consolidation Keynote Lecture The role of sleep spindles for systems consolidation of memory Jan BORN University of Tübingen, Germany
09:50-10:15	Invited Talk Spindles: Coordination with other oscillations and the timing of replay Lisa GENZEL University of Edinburgh, United Kingdom
10:15-10:30	Sleep-dependent motor memory consolidation from adolescence to adulthood Kerstin HOEDLMOSER University of Salzburg, Austria
10:30-10:45	Local spindle networks in the right hemisphere enhance awareness of regularity after sleep Juliana YORDANOVA Bulgarian Academy of Sciences, Bulgaria
10:45-11:05	Coffee break
11:05-11:55	Networks and functions Keynote Lecture Sleep spindles: what are they for? György BUZSÁKI NYU School of Medicine, United States
11:55-14:00	Lunch break
14:00-14:15	Methodological corner A new, minimal assumption, spindle analysis method, applied to PTSD sleep Lucia M.TALAMINI University of Amsterdam, The Netherlands
14:15-14:30	SPISOP – fast replication and sharing of sleep EEG analysis in one toolbox Frederik D. WEBER University of Tübingen, Germany
14:30-15:20	Phenotypic variation and neurobehavioral correlates Keynote Presentation Sleep spindles are sexually dimorphic developmental and trait neurobehavioral markers Róbert BÓDIZS Semmelweis University, Hungary
15:20-15:35	Sleep spindles and intelligence in early childhood - developmental and trait-dependent aspects Péter P. UJMA Semmelweis University, Hungary
15:35-15:55	Coffee break
15:55-16:05	Is white matter diffusion implicated in age-related modifications of sleep spindles? Pierre-Olivier GAUDREAU University of Montreal, Canada
16:05-16:20	Decreased sigma-band EEG connectivity in aging Maude BOUCHARD University of Montreal, Canada
16:20-16:35	Characterizing sleep spindles in 11,630 Individuals Shaun M. PURCELL Icahn School of Medicine at Mount Sinai, United States
16:35-18:35	Poster Session Behaviour, cognitive performance and memory Clinical corner and biomarkers: Sleep disorders, Neurology, Psychiatry
19:00-22:00	Gala Dinner (optional)

Saturday May 14, 2016

09:00-09:50	Epilepsy / Biomarkers-1 Keynote Presentation Sleep spindles in epilepsy Dániel FABÓ National Institute of Neuroscience, Hungary
09:50-10:05	Sleep spindles and absence epilepsy in WAG/Rij rats Evgenia Yu. SITNIKOVA Institute of Higher Nervous Activity Russian Academy of Sciences, Russia
10:05-10:20	Genetic absence-related spike-and-wave discharges turn off while spindles turn on during the wake-sleep transition Didier PINAULT French National Institute of Health and Medical Research (INSERM), France
10:20-10:40	Coffee break
10:40-11:30	Affective processes / consciousness, memory Keynote Presentation Spindles and their significance for insomnia and disorders of consciousness Manuel SCHABUS University of Salzburg, Austria
11:30-11:55	Invited Talk Sleep spindle-dependent mechanisms to reorganize the forebrain Gina R. POE University of Michigan, United States
11:55-12:10	Role of sleep spindles and sigma power across multiple sleep bouts on emotional memory in early childhood Rebecca M. C. SPENCER University of Massachusetts, Amherst, United States
12:10-14:00	Lunch break
14:00-15:00	Poster Session Basic mechanisms and rhythogenesis / Methodology
15:00-15:25	Epilepsy / Biomarkers-2 Invited Talk Reduced sleep spindles in schizophrenia: a treatable endophenotype that links risk genes to impaired cognition? Dara S. MANOACH Massachusetts General Hospital, United States
15:25-15:40	Sleep spindle deficit in schizophrenia: a critical overview and novel findings Armando D'AGOSTINO The University of Milan, Italy
15:40-15:55	Microstructure of sleep spindles in a multiple sclerosis animal model Alejandro OSORIO-FORERO Universidad de los Andes, Colombia
15:55-16:15	Coffee break
16:15-16:40	Stimulating sleep spindles Invited Talk Invited review: rational design of non-invasive brain stimulation to target oscillations Flavio FRÖHLICH University of North Carolina at Chapel Hill, United States
16:40-16:55	The impact of transcranial electrical stimulation during sleep on motor sequence learning Philipp FUCHS University of Salzburg, Austria
16:55-17:10	Spatial organization of sleep spindles during acoustic phase-locked stimulation of NREM slow waves Miguel G. NAVARRETE Universidad de los Andes, Colombia
17:10-17:20	Closing Ceremony Róbert BÓDIZS Semmelweis University, Chair of the Scientific Committee

