

Program



Wintersymposium 2020
"Sleep, Cognition and Consciousness"

Thursday, 27/02/2020 -
Saturday, 29/02/2020

Thursday, 27/02/2020

14.00-14.30

Opening Ceremony

14.30-15.00

Steffen GAIS

Sleep and the interactions in multiple memory systems

15.00-15.30

Monika SCHÖNAUER

The roles of rehearsal and sleep in systems memory consolidation

COFFEE BREAK (15.30-16.00)

16.00-16.30

Tristan BEKINSCHTEIN

How transitions of consciousness modulate cognitive processes

16.30-17.00

Christina SCHMIDT

Temporal constraints on sleep and cognition

17.00-17.30

Christian CAJOCHEN

New developments of non-image forming effects of light in humans

Friday, 28/02/2020

08.30-09.00

Philippe PEIGNEUX

Interpersonal brain synchronization with instructor compensates for learner's sleep deprivation in interactive learning

09.00-09.30

Kai SPIEGELHALDER

Genetics and neuroimaging of insomnia

09.30-10.00

Eus VAN SOMEREN

Towards understanding brain mechanisms of insomnia vulnerability

COFFEE BREAK (10.00-10.30)

10.30-11.00

Wolfgang KLIMESCH

Frequency coupling between brain-body oscillations and conscious awareness

11.00-11.30

Randolph HELFRICH

Intracranial recordings in humans: The network neuroscience of sleep

Free Afternoon: Social Program (Skiing) & Evening Program (Sledging)



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09.00-10.55 Data-Blitz (Part 1)

09.00-09.13 **Malgorzata WISLOWSKA** – Insight into oscillatory mechanisms governing information processing during sleep

09.13-09.26 **Anna PEIFFER** - The developmental advantage of sleep: Children outplay adults in sleep-dependent memory consolidation processes at equal learning performance

09.26-09.39 **Michael HAHN** - The significance of slow-oscillation spindle coupling for developing memory networks: Longitudinal and cross-sectional evidence

09.39-09.52 **Ann-Kathrin JÖCHNER** - Sleep spindles are implicated in overnight memory retention in pre-school children

09.52-10.05 **Kathrin BOTHE** - The relation between sleep spindle power and emotion regulation across development

10.05-10.18 **Viviana GRECO** – The effects of wearing an eye mask on cognitive functions

10.18-10.31 **Christine BLUME** - Effects of pre-sleep artificial light exposure on the brain's predictive abilities

10.31-10.44 **Monika ANGERER** - Actigraphy in severely brain-injured patients – A valid measurement for the assessment of circadian rhythms?

10.44-10.57 **Gregory HAMDAD** - pyActigraphy, an open-source python package for actigraphy data visualisation and analysis

COFFEE BREAK (11.00-11.15)

11.15-12.45 Data-Blitz (Part 2)

11.15-11.28 **Jeanne LEERSEEN** - Brain structural correlates of insomnia severity in 1,053 individuals with Major Depressive Disorder: Results from the ENIGMA Major Depressive Disorder Working Group

11.28-11.41 **Tom BRESSER** - Consistent altered internal capsule white matter microstructure in insomnia disorder

11.41-11.54 **Julian SCHIEL** - Effects of CBT-I on neurobiological mechanisms underlying emotion perception

11.54-12.07 **Janna LENDNER** - An electrophysiological marker of arousal level in humans

12.07-12.20 **Mohamed AMEEN** - K-complexes mediate the preferential processing of salient auditory stimuli during NREM sleep

12.20-12.33 **Liliia ROSCHUPKINA & Whitney STEE** - The impact of beta-tACS on the consolidation of motor memory

12.33-12.46 **Dominik HEIB** - The influence of memory strength for sleep-associated memory consolidation

LUNCH BREAK (13.00-14.30)

Saturday, 29/02/2020

14.30-15.00

Björn RASCH

The MemoSleep Hypothesis: How does cognition influence sleep?

15.00-15.30

Lucia MELLONI

From continuous stream to segmented units: How units are created in perception and their role on memory

15.30-16.00

Penelope A. LEWIS

Sleep, semantic memory, and creative problem solving

COFFEE BREAK (16.00-16.30)

16.30-17.00

Eti BEN-SIMON

Sleepless, anxious and alone: the impact of sleep loss on human social and emotional functions

17.00-17.30

Anat ARZI

Olfactory sniffing signals recovery in disorders of consciousness

17.30-18.00

Kerstin Hödlmoser & Manuel Schabus

Concluding words and perhaps some recent data...