

# 8<sup>th</sup> International Workshop on Computational Neuropsychiatry

## Systems Biology of Biorhythms: Sleep, Affective disorders and Schizophrenia - An integrated view - May 11<sup>th</sup> / 12<sup>th</sup> 2012

Department of Psychiatry, Alzheimer Saal, Nußbaumstraße 7, Munich

### Organized by:

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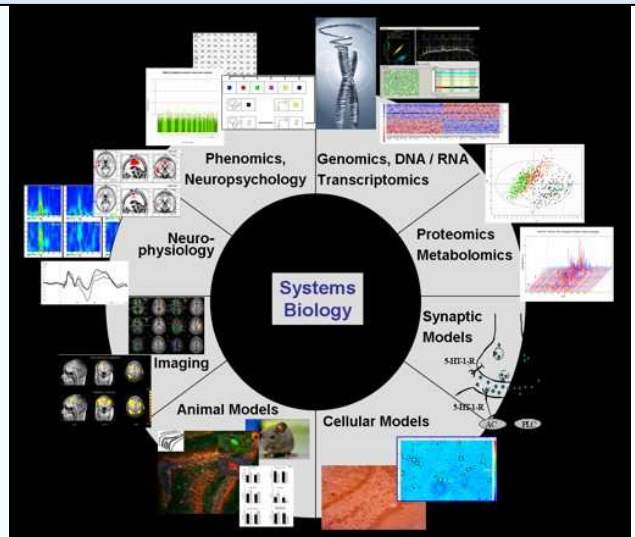
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### FRIDAY, May 11<sup>th</sup> (13.00-20.00)

13.00: Felix TRETTER / Margot ALBUS / Dan RUJESCU / Chris TURCK / Werner MEWES / Oliver POGARELL / Eva MEISENZAHL: Introduction

13.30: Alexander BORBELY: The two-process model of sleep regulation in the framework of systems physiology (m.: *John DITTAMI*)

14.15: Axel STEIGER: Pathology of sleep, hormones and depression (m.: *Ulrich MANSMANN*)

14.45: Break

15.00: Christian CAJOCHEN: Sleep and wake-EEG rhythms in depressed women under high and low sleep pressure conditions

(m.: *Andreas J. FALLGATTER*)

15.30: Katharina WULFF & Russell FOSTER: Circadian rhythms in schizophrenia (m.: *Andreas DRAGUHN*)

16.00: Break

16.30: Maurizio POPOLI: Epigenetic regulation in the stress response and vulnerability for neuropsychiatric disorders (m.: *Eva MEISENZAHL*)

17.00: Dieter KUNZ: Mechanisms of action of new medications for sleep disorders (m.: *Francois IRIS*)

17.30: Break

18.00: Robert McCARLEY: Oscillations, sleep and cognition in Schizophrenia (m.: *Eduardo MENDOZA*)

19.00: Albert GOLDBETER: Modeling the dynamics of bipolar disorders in terms of bistability and oscillations (m.: *Matthias MUNK*)

20.00: End of session

### SATURDAY, May 12<sup>th</sup> (09.00-12.30)

09.00: Peter GEBICKE-HAERTER: Circadian rhythms investigated by genome-wide studies (m.: *Hans BRAUN*)

09.30: Svetlana POSTNOVA & Peter ROBINSON: From neurobiology to behaviour: Model-based predictions of shift workers' entrainment and alertness

(m.: *Michael ZEHETLEITNER*)

10.00: Break

10.30: Till ROENNEBERG: Modeling the timing of sleep based on daily light profiles (m.: *Uwe AN DER HEIDEN*)

11.00: Eberhard VOIT & Zhen QUI: Molecular biological model of sleep regulation (m.: *Christoph TURCK*)

12.00: Final discussion

12.30: End of workshop

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