6th International Workshop on Computational Neuropsychiatry

Systems Biology of Affective Disorders

May 7th / 8th 2010

Department of Psychiatry
Alzheimer Saal
Nußbaumstraße 7
Munich

Organized by:
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FRIDAY, May 7th (13.00-20.30)

Felix TRETTER / Dan RUJESCU / Werner MEWES: Introduction
Heinz GRUNZE: Neuropsychiatry of bipolar disorder as a dynamic disease (moderator: Dan RUJESCU)
Florian HOLSBOER: The dynamics of bipolar disorders from a biochemical perspective (moderator: Werner MEWES)
Sevilla DETERA-WADLEIGH: Molecular networks of genes for mood disorders and lithium response (moderator: Eduardo MENDOZA)
Siegfried KASPER / Rupert LANZENBERGER: Mechanisms of antidepressants and their dynamics (moderator: Felix TRETTER)
Rainer RUPPRECHT: Modulation of ligand gated ion channels as a novel pharmacological principle (moderator: Oliver POGARELL)
Peter ACHERMANN: Modeling sleep regulation: from health to disease: affective disorders (moderator: John DITTAMI)
Jörg STELLING: Behavior of multiple coupled chemical oscillators (moderator: Hans LILJENSTRÖM)
Denis NOBLE: The Aims of Systems Biology – from molecules to organs (moderator: Uwe AN DER HEIDEN)

SATURDAY, May 8th (09.00-14.00)

Hans WESTERHOFF: Perspectives of Neurosystemsbiology – molecular networks and neuropsychiatric diseases? (moderator: Peter GEBICKE-HAERTER)
Hans LILJENSTRÖM: Modelling oscillatory networks? (moderator: Hans BRAUN)
Chadi TOUMA: The dynamics of endocrine networks – human data and animal research (moderator: Epaminondas ROSA)
Eberhard VOIT: A computational model of the dopamine synapse (moderator: Till ROENNEBERG)
Janet BEST: A computational model of norepinephrenergic / serotonergic synapse - dynamics of transmission (moderator: Christoph TURCK)
Christoph TURCK & François IRIS: Pathways of Proteomics in depression - data and modelling (moderator: Andreas DRAGUHN)

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