

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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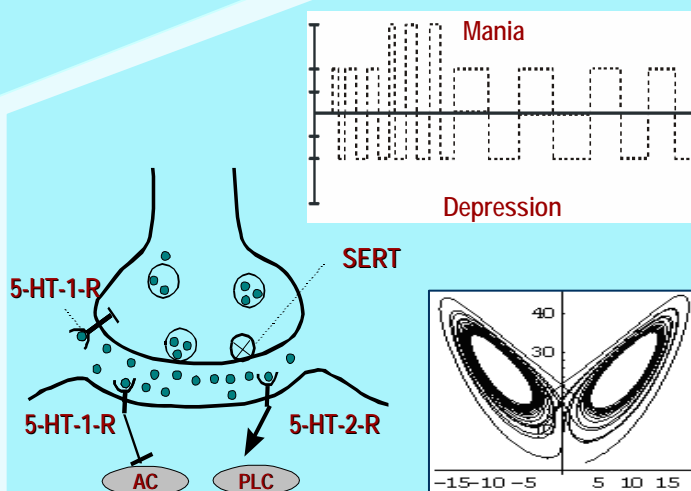
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Understanding the dynamics and the pathology of synapses by using computational models
Essential benefits of theoretical neuropsychiatry by using tools of systems science (systemic modeling, computer simulations)

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: Tili 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)

13
CME
points

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