

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:

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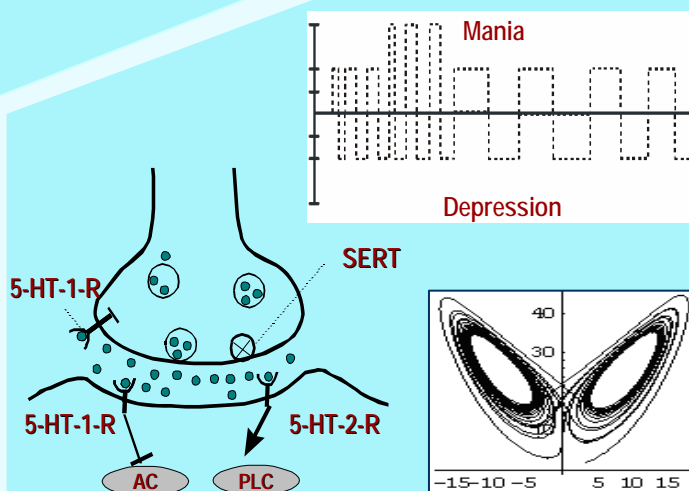
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Understanding the dynamics and the pathology of synapses by using computational models
Essential benefits of theoretical neuropsychiatry by using tools of systems science (systemic modeling, computer simulations)

13
CME
points

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FRIDAY, May 7th (13.00-20.30)

13.00: Felix TRETTER / Dan RUJESCU / Werner MEWES: Introduction

13.30: Heinz GRUNZE: The clinical side of bipolar disorders (*moderator: Ulrich MANSMANN*)

14.00: Elisabeth BINDER: Molecular mechanisms in mood and anxiety disorders – from genomics to epigenetics? (*moderator: Werner MEWES*)

14.30: Break

15.00: Sevilla DETERA-WADLEIGH: Molecular networks of genes for mood disorders and lithium response (*moderator: Eduardo MENDOZA*)

15.30: Rupert LANZENBERGER: Mechanisms of antidepressants and their dynamics (*moderator: Felix TRETTER*)

16.00: Break

16.30: Rainer RUPPRECHT: Modulation of ligand gated ion channels as a novel pharmacological principle (*moderator: Oliver POGARELL*)

17.00: Peter ACHERMANN: Modeling sleep regulation: from health to disease: affective disorders (*moderator: John DITTAMI*)

17.30: Break

18.00: Till ROENNEBERG: The molecular network of circadian oscillators (*moderator: Hans LILJENSTRÖM*)

18.30: Break

19.00: Denis NOBLE: The Aims of Systems Biology – from molecules to organs (*moderator: Uwe AN DER HEIDEN*)

SATURDAY, May 8th (09.00-14.00)

09.15: Hans WESTERHOFF: Perspectives of Neurosystemsbiology – molecular networks and neuropsychiatric diseases? (*m.: Peter GEBICKE-HAERTER*)

09.45: Hans LILJENSTRÖM: Modelling oscillatory networks? (*moderator: Hans BRAUN*)

10.15: Chadi TOUMA: The dynamics of endocrine responses - the impact of stress hormones in affective disorders (*moderator: Epaminondas ROSA*)

10.45: Break

11.15: Eberhard VOIT: A computational model of the dopamine synapse (*moderator: Till ROENNEBERG*)

11.45: Janet BEST: A computational model of norepinephrenergic / serotonergic synapse - dynamics of transmission (*moderator: Christoph TURCK*)

12.15: Break

12.45: Christoph TURCK & François IRIS: Pathways of Proteomics in depression - data and modelling (*moderator: Dan RUJESCU*)

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