

**2nd Interacademic Symposium
of the
National Academy of Sciences, Leopoldina
and the
Israel Academy of Sciences and Humanities**

**From Molecules to Circuits in
Neuropsychiatric Disease**

September 18th-21st, 2011, Würzburg, Germany

Würzburg Residence, Toscana auditorium



Leopoldina
Nationale Akademie
der Wissenschaften

Program

Sunday September 18th

18.00 Opening of the symposium

Prof. Jörg Hacker, Prof. Martin J. Lohse, Prof. Ruth Arnon, Prof. Raphael Mechoulam

Chair: Prof. Jörg Hacker, Prof. Ruth Arnon

Keynote lecture

“The Blue Brain Project”, Prof. Yadin Dudai, Rehovot

19.30 Welcome Reception

Monday, September 19th

9:00 – 12:30 “Molecules”

Chair: Prof. Michael Sendtner, Prof. Raphael Mechoulam

9:00 – 09:30

The endocannabinoid system: a novel neuroprotective entity

Prof. Raphael Mechoulam, Jerusalem

9:30 – 10:00

Activity-dependent intracellular transport processes underlying synaptic plasticity

Prof. Matthias Kneussel, Hamburg

10:00 – 10:30

Neurotrophins: Regulators of development and disease in the vertebrate nervous system

Prof. Yves-Alain Barde, Basel

10:30 – 11:00 Break

11:00 – 11:30

Modulation of learned fear in the amygdala

Prof. Hans-Christian Pape, Münster

11:30 – 12:00

Schizophrenia: A disturbance of the regenerative capacities of the human brain

Prof. Peter Falkai, Göttingen

12:00 – 12:30

Molecular mechanisms of familial prion pathogenesis

Prof. Ruth Gabizon, Jerusalem

12:30 – 13:30 Lunch

13:30 – 15:00 Posters

15:00 – 18:30 “Genotypes and Phenotypes”

Chair: Prof. Michael Frotscher, Freiburg, Prof. T. Ben-Hur, Jerusalem

15:00 – 15:30

Adult stem cells producing neurotrophic factors: therapeutic potential for neurodegenerative disorders

Prof. Eldad Melamed, Tel Aviv

15:30 – 16:00

The mechanisms underlying synergistic interactions between genetic risk factors of Alzheimer's disease and the amyloid cascade

Prof. Daniel Michaelson, Tel Aviv

16:00 – 16:30

Organic and functional defects in the brain caused by congenital GH/IGF-I deficiency (IGHD and Laron syndrome)

Prof. Zvi Laron, Tel Aviv

16:30 – 17:00 Break

17:00 – 17:30

Molecular Mechanisms of Gene x Environment Interactions in Psychiatric Disorders

Prof. Elisabeth Binder, Munich

17:30 – 18:00

Intermediate phenotypes of the psychoses

Prof. Andreas Meyer-Lindenberg, Mannheim

18:00 – 18:30

Genetics of anxiety - molecules, mind and mood

Prof. Katharina Domschke, Münster

19.00 Diner in the wine-cellar of the Residence

Tuesday, September 20th

9:00 – 12:30 “Circuits”

Chair: Prof. Martin J. Lohse, Würzburg, Prof. Yadin Dudai, Rehovot

9:00 – 09:30

Neuropsychiatric diseases in human and animal models: Computational physiology and treatment

Prof. Hagai Bergman, Jerusalem

9:30 – 10:00

Blood-brain (dis)communication and Neuropsychiatric Diseases: from Molecules to Circuits

Dr. Alon Friedman, Ben-Gurion University of the Negev

10:00 – 10:30

Non-invasive brain stimulation techniques in psychiatry

Prof. Andreas Fallgatter, Tübingen

10:30 – 11:00 Break

11:00 – 11:30

Abnormal activity in cortical and hippocampal circuits in Alzheimer's disease

Prof. Arthur Konnerth, Munich

11:30 – 12:00

Spatial and Temporal Properties of Tic-related Neuronal Activity in the Cortico-Basal Ganglia Loop

Dr. Izhar Bar-Gad, Ramat-Gan

12:00 – 12:30

Brain circuits in panic disorder

Prof. Dr. Tilo Kircher, Marburg

12:30 – 13:30 Lunch

13:30 – 15:00 “Psychiatric Diseases”

Chair: Prof. Jürgen Deckert, Würzburg, Prof. Michal Schwartz, Rehovot

13:30 – 14:00

The immune system protects the mind: Implications to Neuropsychiatric Diseases"

Prof. Michal Schwartz, Rehovot

14:00 – 14:30

Parkinson's disease: From genes to treatment
Prof. J.B. Schulz, Aachen

14:30 – 15:00

Mitigating mental pain: Molecular memory erasures as potential agents for treating post-trauma and phobia
Prof. Yadin Dudai, Rehovot

15.00 – 15.30 Break

15:30 – 17:30 **“Therapeutic Approaches & Future Directions”**

Chair: Prof. Peter Riederer, Würzburg, Prof. Moussa Youdim, Haifa

15:30 – 16:00

D-cycloserine augmented exposure therapy for anxiety disorders
Prof. Andreas Ströhle, Berlin

16:30 – 17:00

Impairment of ubiquitin proteasome system in sporadic and animal models; neuroprotection and neurorestoration with novel multi targeted drugs
Prof. Moussa Youdim, Haifa

17:30 – 18:00

Stem cells therapy in multiple sclerosis: from bench to bedside
Prof. T. Ben-Hur, Jerusalem

18:00 – 18:30

Tuning basal ganglia circuits by deep brain stimulation
Prof. Jens Volkmann, Würzburg

19.00 Diner in the Franconian Restaurant “Bürgerspital”

Wednesday, September 21st

08:00 – 10:00 **Closing session**

Chair: Prof. Jörg Hacker, Prof. Ruth Arnon

Open discussion:

Ways for enhanced links between the Israel and German national academies of science, DFG, BMBF, BfArm, GMH, GIF and drug companies

Concluding remarks

Prof. Ruth Arnon, Prof. Jörg Hacker

Sponsors:



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