

**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



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:



Alfried Krupp von Bohlen
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