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. Izhak 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

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