

How to get there



Venue
Kaiserin Friedrich-Haus
Robert-Koch-Platz 7 | 10115 Berlin
<http://www.kaiserin-friedrich-stiftung.de/kfs-haus.html>

Contact Leopoldina
Dr Jan Nissen
International Relations Department
Jägerberg 1, 06108 Halle (Saale), Germany
Email: jan.nissen@leopoldina.org

The **German National Academy of Sciences Leopoldina** brings together the expertise of some 1,500 distinguished scientists to bear on questions of social and political relevance, publishing unbiased and timely scientific opinions. The Leopoldina represents the German scientific community in international committees and pursues the advancement of science for the benefit of humankind and for a better future.

Chartered by law in 1961, **The Israel Academy of Sciences and Humanities** acts as a national focal point for Israeli scholarship in all branches of the sciences, social sciences and humanities. The Academy comprises 125 of Israel's most distinguished scientists and scholars. It is tasked with promoting Israeli scientific excellence; advising the government on scientific matters of national interest; publishing scholarly research of lasting merit; and maintaining active contact with the broader international scientific and scholarly community.



האקדמיה הלאומית הישראלית למדעים
المجمع الوطني الإسرائيلي للعلوم والآداب
THE ISRAEL ACADEMY OF SCIENCES AND HUMANITIES



6th Inter-Academy Symposium

From Synapses to Circuits in Health and Disease

A growing number of people is confronted with neuro-degenerative diseases. The 6th Inter-Academy Symposium provides a platform for scientific discussions on nerve cells, synapses and their interactions in neuron structures and regulatory circuits. Advancements in these research areas shall contribute to the development of new therapies for neuropsychiatric diseases such as Alzheimer's and Parkinson's disease, depression and schizophrenia.

Renowned Israeli and German experts discuss these issues during their talks. Postdocs and PhD-candidates from both countries present their current neuroscience research in the frame of a poster session. The Neurowissenschaftliche Gesellschaft e.V. financially supports the participation of German scientists in this session.

The German National Academy of Sciences Leopoldina and the Israel Academy of Sciences and Humanities have been organizing a series of symposia in neurosciences since 2008. The scientific coordinators of the current symposium are Prof Yadin Dudai and Prof Israel Nelken on the side of the Israel Academy and Prof Peter Riederer ML, Prof Helmut Kettenmann ML, Prof Peter Hegemann ML, Prof Arthur Konnerth ML, Prof Ad Aertsen ML and Prof Dietmar Schmitz on the side of Leopoldina.

Registration
Participation is free of charge.
For participation in the symposium,
please kindly register here until 02/05/2018:
www.leopoldina.org/de/6ias

From Synapses to Circuits in Health and Disease

Joint Symposium by the German National Academy of Sciences Leopoldina and the Israel Academy of Sciences and Humanities

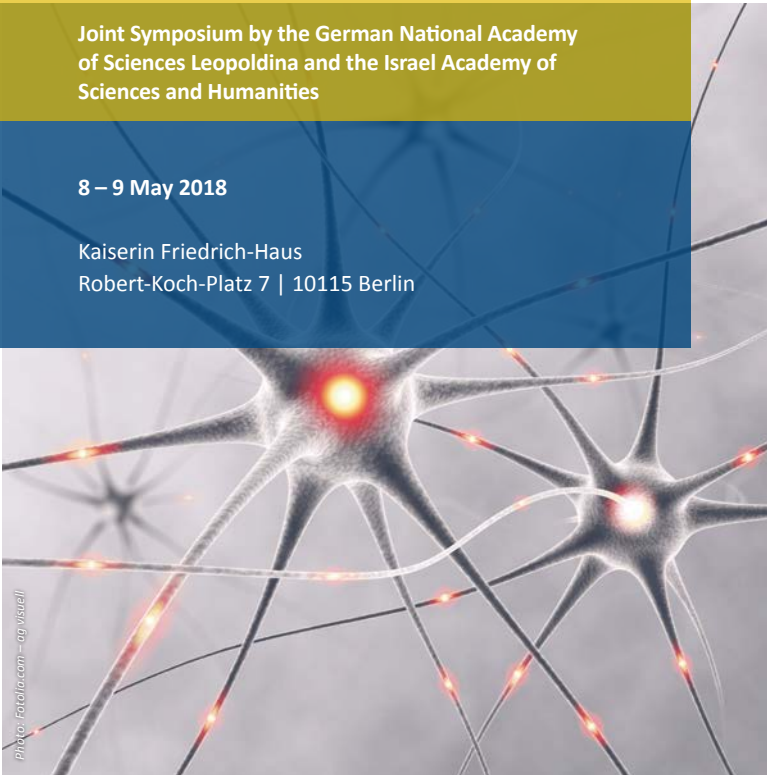
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8 – 9 May 2018

Kaiserin Friedrich-Haus
Robert-Koch-Platz 7 | 10115 Berlin

The Leopoldina and the Israel Academy of Sciences and Humanities kindly thank the Neurowissenschaftliche Gesellschaft e.V. for the financial support of a number of young scientists.



Program

Tuesday, 8 May 2018

08:30 – 09:00 | Registration

09:00 – 09:15 | Welcome Addresses

Jörg Hacker ML
President of the German National Academy of Sciences Leopoldina, Halle (Saale)

Yadin Dudai
Israel Academy of Sciences and Humanities, Jerusalem

Helmut Kettenmann ML
German Neuroscience Society, Berlin

Session 1

Facilitator: Peter Hegemann ML
Humboldt University of Berlin, Berlin

09:15 – 09:45

Cellular and Network Mechanisms in Motor Learning
Jackie Schiller
Technion – Israel Institute of Technology, Haifa

09:45 – 10:15

Restructuring of Synapses and Networks in Epilepsy
Carola Haas
University of Freiburg, Freiburg

10:15 – 10:45 | Coffee Break

Session 2

Facilitator: Gabriele Rune
University Medical Center Hamburg-Eppendorf, Hamburg

10:45 – 11:15

Principles of Neural Coding in the Grid Cell System: Implications for Dynamics and Organization
Yoram Burak
Hebrew University of Jerusalem, Jerusalem

11:15 – 11:45

Cerebral Cortex Connectomics
Moritz Helmstaedter
Max Planck Institute for Brain Research, Frankfurt (Main)

11:45 – 12:15

The Dynamic Architecture of the Adult Visual Cortex: How to Keep My Brain Young?
Siegrid Löwel
University of Göttingen, Göttingen

12:15 – 13:15 | Lunch Break

Session 3

Facilitator: Menahem Segal
Weizmann Institute of Science, Rehovot

13:15 – 13:45

Mechanisms of Sexually Dimorphic Neuronal Connectivity: From Molecules and Synapses to Circuits and Behaviors
Meital Oren-Suissa
Weizmann Institute of Science, Rehovot

13:45 – 14:15

Sexual Touch, Genital Cortex and Changes to Body and Brain in Puberty
Michael Brecht
Humboldt University of Berlin, Berlin

14:15 – 15:30 | Poster Session (incl. Coffee) | Seminar Room

Session 4

Facilitator: Helmut Kettenmann ML
Max-Delbrück-Center for Molecular Medicine, Berlin

15:30 – 16:00

Optogenetic Dissection of Prefrontal Circuits for Cognitive Control
Ofer Yizhar
Weizmann Institute of Science, Rehovot

16:00 – 16:30

Differential Roles for Two Striatal Inhibitory Inputs to the Ventral Pallidum in Cocaine Seeking
Yonatan Kupchik
Hebrew University of Jerusalem, Jerusalem

16:30 – 17:00

Neuronal Inhibition and Its Role for Spatial Coding and Memory
Hannah Monyer ML
Heidelberg University Hospital, Heidelberg

Wednesday, 9 May 2018

Session 5

Facilitator: Ad Aertsen ML
University of Freiburg, Freiburg

08:30 – 09:15 | Keynote Lecture for Michael Frotscher

Synaptic Mechanisms of Pattern Completion and Pattern Separation
Peter Jonas ML
IST Austria, Klosterneuburg

09:15 – 09:45

Stress and High Fat Diet Modulation of Prefrontal Function and Plasticity in the Juvenile Rat
Mouna Maroun
University of Haifa, Haifa

09:45 – 10:15

Visual Processing and Top-Down Influences during Visual Perception in Behaving Monkeys
Hamutal Slovin
Bar Ilan University, Ramat Gan

10:15 – 10:45 | Coffee Break

Session 6

Facilitator: Moussa Youdim ML
Technion – Israel Institute of Technology, Haifa

10:45 – 11:15

Rhythmic Sampling – a Domain General Principle in the Architecture of Attention
Ayelet Landau
Hebrew University of Jerusalem, Jerusalem

11:15 – 11:45

Studying Axonal Cell Biology in Vivo
Thomas Misgeld
Technical University Munich, Munich

11:45 – 12:15

Alpha-Synuclein and Synapsin Jointly Regulate the Synaptic Vesicle Cycle
Daniel Gitler
Ben-Gurion University of the Negev, Beer-Sheva

12:15 – 12:20 | Poster-Award Ceremony

Facilitators: Yadin Dudai
Weizmann Institute of Science, Rehovot

Peter Riederer ML
University of Würzburg, Würzburg

12:20 – 13:15 | Lunch Break

Session 7

Facilitators: Arthur Konnerth ML
Technical University Munich, Munich

Israel Nelken
Hebrew University of Jerusalem, Jerusalem

13:15 – 14:15 | Training Measures and Scientific Cooperation

My German Collaborations – A Short Personal Account
Israel Nelken
Hebrew University of Jerusalem, Jerusalem

Israeli-German Cooperation: A Functional 3D Map of the Mouse Auditory Cortex in Vivo
Carsten Tischbirek
Technical University Munich, Munich

Training in Experimental Neuroscience at the Marine Biological Laboratory Eilat
Yosef Yarom
Hebrew University of Jerusalem, Jerusalem

German-Israeli Scientific Cooperation: DFG Funding Opportunities
Ute Stotz
German Research Foundation (DFG), Bonn

German-Israeli Foundation (GIF) – Research Funding Programs
Stephanie Weberring
German-Israeli Foundation for Scientific Research and Development (GIF)

Session 8

Facilitator: Dietmar Schmitz
Charité – Neuroscience Research Center, Berlin

14:15 – 14:45

Sensory Processing Across Behavioral and Neuromodulatory States
Yuval Nir
Tel Aviv University, Tel Aviv

14:45 – 15:15

Spiking Neurons Can Discover Predictive Features by Aggregate-Label Learning
Robert Gütig
Charité – Universitätsmedizin, Berlin

15:15 – 15:30 | Concluding Remarks and Farewell

Yadin Dudai
Weizmann Institute of Science, Rehovot

Peter Riederer ML
University of Würzburg, Würzburg