

האקדמיה הלאומית הישראלית למדעים المجمــع الوطــــني الإســــرائيلي للعلــوم والآداب THE ISRAEL ACADEMY OF SCIENCES AND HUMANITIES



האקדמיה הלאומית הישראלית למדעים והאקדמיה הלאומית הגרמנית ליאופולדינה מתכבדות להזמינכם לכינוס משותף בנושא

The Israel Academy of Sciences and Humanities and the German National Academy of Sciences Leopoldina cordially invite you to the 7th Inter-Academy Symposium

# RECENT ADVANCES IN **NEUROSCIENCE**

## שלישי-רביעי, כ"ט-ל' בסיון, תשפ"ב Tuesday - Wednesday, June 28-29, 2022

Scientific committee of the symposium:

Yadin Dudai, Chair, Science Division, The Israel Academy of Sciences and Weizmann Institute of Science; Arthur Konnerth, Munich Technical University; Peter Riederer, University Hospital of Wurzburg; Asya Rolls, Technion - Israel Institute of Technology

#### Tuesday, June 28, 2022

- 08:30 Registration and coffee
- 09:00 Welcome addresses

David Harel, President, Israel Academy of Sciences and Humanities Gerald Haug, President, German National

Academy of Sciences Leopoldina

Susanne Wasum-Rainer, German Ambassador

Renewal of the Memorandum of Understanding between IASH and Leopoldina

#### **SESSION I**

Chair: Asya Rolls, Technion - Israel Institute of Technology

- 09:30 Onur Güntürkün, Ruhr-University Bochum Cognition without cortex
- 10:00 Yoav Livneh, Weizmann Institute of Science Brain-body interactions: sensations and predictions in insular cortex
- 10:30 Merav Ahissar, The Hebrew University of Jerusalem
  - Perceptual priors explain acquisition
- 11:00 Coffee break

Chair: Peter Riederer, University Hospital of Wurzburg

- 11:30 Thomas Misgeld, Munich Technical University & German Centre for Neurodegenerative Diseases Munich
- Mechanisms of axon damage in neuroinflammation 12:00 Avi Mendelsohn, University of Haifa Building memories by mistake: the impact of errors on
- long-term memory 12:30 Rafi Haddad, Bar-Ilan University How do gamma oscillations affect the neural activity of downstream neurons?
- 13:00 Lunch break

#### **SESSION III**

Chair: Moussa Youdim, Technion - Israel Institute of Technology

- 14:00 Michael Thomas Heneka, Luxembourg University Does innate immunity contribute to neurodegenerative disease?
- 14:30 Firas Mawase, Technion Israel Institute of Technology Neural control of finger dexterity
- 15:00 **J. Matt McCrary**, Hannover University of Music, Drama and Media Fatigue in elite musicians: symptoms, consequences, and peripheral/central mechanisms
- 15:30 Coffee break

#### **SESSION IV**

Chair: Onur Güntürkün, Ruhr-University Bochum

- 16:00 Sarah Kittel-Schneider, University Hospital of Wurzburg The brain in a dish - stem cell models in psychiatry
- 16:30 **Stefan Vestring**, University of Freiburg GluN2D: a novel target for rapid antidepressive treatment
- 17:00 ROUNDTABLE Research horizons and Israeli-German cooperation in neuroscience

Israel Nelken, The Hebrew University of Jerusalem Arthur Konnerth, Munich Technical University

Funding organisations

Daniel Zajfman, Chair of the Academic Board of the Israel Science

Anke Ley, German Research Foundation DFG (virtual) **Sonja Spal**, Alexander von Humboldt Foundation (virtual) Lou Bohlen, Minerva Foundation of the Max Planck Society (virtual)

18:15 Adjourn

### Wednesday, June 29, 2022

#### **SESSION V**

Chair: Arthur Konnerth. Munich Technical University

- 09:30 Benjamin Judkewitz, Charité University Medicine Berlin Imaging the smallest vertebrate brain while singing
- 10:00 Yaniv Ziv, Weizmann Institute of Science The dynamic engram: long-term spatial memory is maintained in the presence of ongoing changes in hippocampal representations
- 10:30 Shira Knafo, Ben-Gurion University of the Negev AMPA receptors: from fundamental insights to cognitive
- 11:00 Coffee break

#### **SESSION VI**

Chair: Menahem Segal, Weizmann Institute of Science

- 11:30 Katharina Lichter, University Hospital of Wurzburg Three-dimensional nanoscopy of hippocampal mossy fiber active zones in RIM1α knock-out and wildtype mice
- 12:00 **Ivo Spiegel**, The Weizmann Institute of Science Mechanisms of experience-dependent plasticity in cortical **GABAergic circuits**

- 12:30 Rhiannon McNeill, University Hospital of Wurzburg Development of a human-based, disease-relevant in vitro model for investigating the role of genetic variation in the ADGRL3 gene in ADHD pathogenesis
- 13:00 Lunch break

#### **SESSION VII**

Chair: Sarah Kittel-Schneider, University Hospital of Wurzburg

- 14:00 Jastyn A. Pöpplau, University Medical Centre Hamburg-Eppendorf Reorganization of adolescent prefrontal circuitry is required for the functional maturation of cognitive abilities
- 14:30 Naomi Habib, The Hebrew University of Jerusalem Unmasking cellular dynamics in Alzheimer's disease
- 15:00 Yaara Yeshurun, Tel Aviv University It's not what you look at that matters, it's what you see
- 15:30 Concluding remarks by members of the scientific committee Yadin Dudai, Chair, Science Division, The Israel Academy of Sciences; Weizmann Institute of Science

Arthur Konnerth, Munich Technical University Peter Riederer, University Hospital of Wurzburg Asya Rolls, Technion - Israel Institute of Technology

The conference will take place at The Israel Academy of Sciences and Humanities, 43 Jabotinsky St., Jerusalem

The conference will be held in English



הכינוס יתקיים בבית האקדמיה הלאומית הישראלית למדעים, רחוב ז'בוטינסקי 43, ירושלים

ההרצאות תתקיימנה בשפה האנגלית

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**NWG** 

האירוע יתקיים בכפוף להנחיות משרד הבריאות שיהיו בתוקף הכניסה בהרשמה מראש, ללא תשלום ועל בסיס מקום פנוי | חניה עירונית ברחובות הסמוכים לאקדמיה

The conference will be conducted according to current Health Ministry regulations | Please register in advance

Admission is free of charge, on the basis of available seating | Paid on-street municipal parking is available in the vicinity of the Academy



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