

# UNDERSTANDING OTHERS

From Psychological Concepts to Neural Mechanisms

Jerusalem | October 7–9, 2018



## PROGRAM OVERVIEW

Minerva Stiftung



האוניברסיטה העברית בירושלים  
THE HEBREW UNIVERSITY OF JERUSALEM



UNIVERSITÄT ZU LÜBECK





# SCHEDULE

## Sunday 7.10.18

12:00-13:00 Arrival, coffee and refreshments

13:00-13:15 Welcome remarks

### 13:15-15:00 **Session 1: Understanding Others: Behavioral & Neural Mechanisms**

Talk 1: The Shifting Nature of Empathic Accuracy in Couples' Daily Lives /  
Eshkol Rafaeli

Talk 2: Oxytocin and Social Cognition / Katja Bertsch

Talk 3: Neural Mechanisms Which Enable Our Understanding of Others /  
Anat Perry

Talk 4: Situating Empathy and Theory of Mind Neural Networks / Philipp Kanske

Talk 5: Regulating the Self by Seeing the World Through Others' Eyes /  
Michael Gilead

15:00-15:30 Coffee break

15:30-16:30 **Keynote Address I:** Mechanisms of Social Attention / Matthias Gamer

16:30-18:00 Poster Session A and light dinner

## Monday 8.10.18

09:00-09:30 Coffee and light refreshments

### 09:30-11:00 **Session 2: Developmental Aspects of Social Cognition**

Talk 1: Happy Infants, Parents' Brains: Social Regulation of Allostasis /  
Shir Atzil

Talk 2: Which Factors Impact Infant Emotion Processing and What Does That Tell Us About  
the Underlying Mechanisms? / Sarah Jessen

Talk 3: Empathy Development: Genetic and Environmental Contributions to Individual  
Differences in Cognitive and Affective Empathy / Ariel Knafo-Noam  
and Lior Abramson

Talk 4: Maturation of the Neural Basis of Empathy; A Lifetime Perspective / Ruth Feldman



- 11:00-11:30 Coffee break
- 11:30-13:00 **Session 3: Social Cognition and decision making**
- Talk 1: Neural control of human defensive reactions to social threat / Karin Roelofs
  - Talk 2: Social Media and the Brain: Explaining Individual Differences in Online Social Network Use / Dar Meshi
  - Talk 3: Sex-Specific Effects of Oxytocin on Intergroup Competition / Salomon Israel
  - Talk 4: Neural Mechanisms Underlying Avoidant and Approaching Responses to Interpersonal Threat / Ulrike M. Krämer
- 13:00-14:00 Light lunch
- 14:00-15:30 **Session 4: Neural mechanisms involved in empathy**
- Talk 1: Feeling Through Sensing: Dissecting Empathy Processes Through Moving Pictures and Sounds of Others / Talma Hendler
  - Talk 2: Self-Other Differentiation in Autism: Insights from an Imaging Genetics Study of Autism / Florina Uzefovsky
  - Talk 3: A Neural Perspective on Empathy and Prosociality / Valeria Gazzola and Christian Keysers
- 15:30-17:00 Poster Session B and Coffee  
Discussion with Hagit Alon from Joy Ventures: The Social Side of Neuro-Wellness
- 17:00-18:00 **Keynote Address II: A Two-Brain Approach for Understanding How Empathy Contributes to Distress Regulation / Simone Shamay-Tsoory**

## Tuesday 9.10.18

- 09:00-09:30 Coffee and Light Refreshments
- 09:30-11:00 **Session 5: Understanding Others' Actions and Emotions**
- Talk 1: Impairment of Automatic Action Functions in the Newly Sighted, Following Prolonged Visual Deprivation / Ehud Zohary
  - Talk 2: Watch and Learn - Neural Networks Underlying Transfer of Motor Knowledge / Roy Mukamel
  - Talk 3: The Self in The Context of Others / Sören Krach
  - Talk 4: If You're Happy and You Know It Then Your Face Will Surely Show It? / Hillel Aviezer



- 11:00-11:30 Coffee Break
- 11:30-13:00 **Session 6: Studying Social Neuroscience in Dyadic Settings**
- Talk 1: fMRI Hyperscanning As a Unique Method to Identify Information Flow Between Interacting Brains: Methods and Applications / Peter Kirsch and Edda Bilek
  - Talk 3: Neural, Autonomic and Facial Synchrony in Naturalistic Social-Emotional Contexts / Yulia Golland
  - Talk 4: Creating a Shared Space in the MRI for Gaze-Based Social Interaction / Frieder M. Paulus
- 13:00-14:00 Light Lunch
- 14:00-15:00 **Keynote Address III: I am Because We Are: Exploring the Mechanisms of Dyadic Social Interactions** / Uri Hasson
- 15:00-16:00 Future Directions: Panel with Keynote Speakers and Closing Remarks



## POSTER SESSION A

Sunday | 7.10.18 | 16:30-18:00

- A1 Separating Sympathy from Empathy: A Novel Empirical Examination of a Classic Theoretical Question**  
Lior Abramson and Ariel Knafo-Noam; The Hebrew University of Jerusalem
- A2 Forming Beliefs About the Self and Others in a Social Context**  
Laura Müller-Pinzler, Nora Czekalla, David Sören Stolz, Frieder Michel Paulus, Sören Krach; University of Lübeck
- A3 Immersive 360° Video Technology in The Service of Social Neuroscience: A Media Comparison Study**  
Daniela Cohen<sup>1\*</sup> & Daniel Landau<sup>1,2\*</sup>, Nava Levit-Binnun<sup>1</sup>, Yulia Golland<sup>1</sup>  
<sup>1</sup>The Interdisciplinary Center, Herzliya, Israel; <sup>2</sup>Aalto University Media Lab, Helsinki;
- A4 Late Positive Potential and Theta Activity During the Processing of Social Exclusion and Inclusion**  
Petereit, P.<sup>1</sup>, Rinn, C.<sup>2</sup> Stemmler, G.<sup>2</sup>, Mueller, E.M.<sup>2</sup>  
<sup>1</sup>University of Lübeck, Neurology Department; <sup>2</sup>University of Marburg, Psychology Department
- A5 Evaluative Threat of Others Influences Self-Related Evaluation Processes**  
Nora Czekalla, Frieder Michel Paulus, Sören Krach, Laura Müller-Pinzler; University of Lübeck
- A6 Dynamics of Feedback Processing in Cooperative and Competitive Situations.**  
Artur Czeszumski<sup>1</sup>, Benedikt V. Ehinger<sup>1</sup>, Basil Wahn<sup>1,2</sup>, and Peter König<sup>1,3</sup>  
<sup>1</sup>Institute of Cognitive Science, Universität Osnabrück, Osnabrück, Germany <sup>2</sup>University of British Columbia, Department of Psychology, Vancouver, BC, Canada <sup>3</sup>Institut für Neurophysiologie und Pathophysiologie, Universitätsklinikum Hamburg-Eppendorf, Hamburg, Germany
- A7 Does Working Memory Play the Same Role in the Perception of Emotions in Spoken Language for Older and Younger Adults?**  
Yehuda Dor<sup>1,2</sup>, Vered Shakuf<sup>1</sup>, and Boaz M. Ben David<sup>1</sup>  
<sup>1</sup>Baruch Ivcher School of Psychology, Interdisciplinary Center, Herzliya; <sup>2</sup>School of Psychological Sciences, Tel-Aviv University.
- A8 Perceptual Ambiguity and Contextual Malleability of Highly Intense Human Emotional Vocalizations**  
Doron Atias<sup>1</sup>, Alexander Todorov<sup>2</sup>, Shai Liraz<sup>3</sup>, Arella Eidinger<sup>3</sup>, Ilan Dror<sup>3</sup>, Yaacov Maymon<sup>3</sup>, and Hillel Aviezer<sup>1</sup>  
<sup>1</sup>Hebrew University of Jerusalem <sup>2</sup>Princeton University <sup>3</sup>The Israel State Lottery – Mifal Hapais
- A9 Do You See What I See? Individual Differences in Contextualized Emotion Recognition**  
Noga S. Ensenberg, Ran R. Hassin, Hillel Aviezer; The Hebrew University of Jerusalem
- A10 Syntactic Embedding and Thinking About Other People's Thoughts: A Double Dissociation**  
Maayan Gabso-Rajuan, Noga Balaban, and Naama Friedmann, Tel Aviv University



- A11 Disentangling Empathy-Related Processes in the Human Brain**  
Ayam Grental<sup>\*1,3‡</sup>, Ofir Shany<sup>1,2‡</sup>, Gadi Gilam<sup>1,2</sup>, Maya Bleich-Cohen<sup>1</sup>, Daniella Perry-Ziv<sup>1</sup>, Moran Ovadia<sup>1</sup>, Avihay Cohen<sup>1</sup>, Talma Hendler<sup>1,2,3,4</sup> & Gal Raz<sup>1,3</sup> ‡ - equal contribution; \* - presenting author  
<sup>1</sup>Sagol Brain Institute, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel; <sup>2</sup>School of Psychological Sciences, Faculty of Social Sciences, Tel-Aviv University, Tel-Aviv, Israel; <sup>3</sup>Sagol School of Neuroscience, Tel-Aviv University, Tel-Aviv, Israel; <sup>4</sup>Department of Physiology and Pharmacology, Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel.
- A12 Through the Outgroup's Gaze: The Impact of Virtual Reality on Empathy and Perspective Taking in Intergroup Conflict**  
Yossi Hasson<sup>1,2</sup>, Noa Schori-Eyal<sup>1</sup>, Daniel Landau<sup>3</sup>, Béatrice Hasler<sup>1</sup>, Jonathan Levy<sup>1</sup>, Doron Friedman<sup>1</sup>, Eran Halperin<sup>1</sup>  
<sup>1</sup>The Interdisciplinary Center, Herzliya; <sup>2</sup>The Hebrew University of Jerusalem; <sup>3</sup>Aalto University
- A13 The Effect of Social Presence on Social Attention**  
Lea Hildebrandt & Matthias Gamer, University of Würzburg
- A14 High-Resolution Facial Electromyography in Freely Behaving Humans**  
Lilah Inzelberg<sup>1,3,1</sup>, David Rand<sup>1</sup>, Stanislav Steinberg<sup>2</sup>, Moshe David Pur<sup>1</sup>, Yael Hanein<sup>1,2,3</sup>  
<sup>1</sup>Tel Aviv University Center for Nanoscience and Nanotechnology; <sup>2</sup>School of Electrical Engineering; <sup>3</sup>Sagol School of Neuroscience, Tel Aviv University, Israel
- A15 Alterations in Social Affect and Cognition: The Case of Narcissism**  
Emanuel Jauk, Philipp Kanske; Technische Universität Dresden
- A16 A Naturalistic Paradigm to Measure Empathic Accuracy in Hebrew**  
Karine Jospe and Anat Perry; The Hebrew University of Jerusalem
- A17 A Model Combining Reinforcement Learning and Self-Evaluations Explains How Humans Learn About Character Traits.**  
Christoph Korn<sup>1</sup>, Gabriela Rosenblau<sup>2</sup>, Jan Gläscher<sup>1</sup>
- A18 The Emergence of Multidisciplinary Approaches Supporting Intergroup Conflict Resolution**  
Yoni Levy<sup>1</sup>, Abraham Goldstein<sup>2</sup>, Moran Infuls<sup>2</sup>, Shafiq Masalha<sup>3</sup>, Ruth Feldman<sup>1</sup>  
<sup>1</sup>IDC Herzliya; <sup>2</sup>Bar Ilan University; <sup>3</sup>College of Academic Studies, Or-Yehuda.
- A19 Intranasal Oxytocin and Neural Activation of Social Affect in High-Functioning Autism: A Randomized Controlled Trial**  
A. V. Mayer<sup>1</sup>, A.-K. Wermter<sup>2</sup>, S. Stroth<sup>2</sup>, M. Haberhausen<sup>2</sup>, T. Stehr<sup>2</sup>, I. Kamp-Becker<sup>2</sup>, F. M. Paulus<sup>1</sup> and S. Krach<sup>1</sup>  
<sup>1</sup>Department of Psychiatry and Psychotherapy, Lübeck University, Lübeck, Germany, <sup>2</sup>Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Philipps University of Marburg, Marburg, Germany
- A20 The Association Between Parental and Child's Empathy as Mediated by Parental Behaviors and Attitudes**  
Meidan A. & Uzefovsky F., Ben Gurion University in the Negev



## POSTER SESSION B

Monday | 8.10.18 | 15:30-17:00

- B1 A Putative Social Chemosignal Modulates Aggression in Humans**  
Mishor E., Ravia A., Amir D., Livne E., Endevelt-Shapira Y., Agron S., Sobel N.; Weizmann Institute of Science
- B2 Referring as Monitoring Shared Knowledge: Evidence from a Lesion Study**  
Noga Balaban and Naama Friedmann; Tel Aviv University
- B3 Mental Whisking - Respiratory Phase Shapes Human Task Performance and Its Neural Underpinnings**  
O. Perl, A. Eisen, T. Soroka, N. More, N. Sobel; The Weizmann Institute of Science
- B4 The Feminine Hero's Journey: A Neurological Perspective**  
Rotem Cohen, M.A student of Drama Therapy; Tel-Hai College
- B5 The Chemistry of Social Chemistry**  
Inbal Ravreby and Noam Sobel; Weizmann Institute of Science
- B6 Title: A Novel Cyberball Paradigm for Measuring Behavioral and Neurobiological Correlates of Social Repair**  
Reinhard, M.A.<sup>1</sup>, Dewald-Kaufmann, J.<sup>1,2</sup>, Barton, B.<sup>1</sup>, Wüstenberg, T.<sup>3</sup>, Jobst, A.<sup>1</sup>, Musil, R.<sup>1</sup>, Falkai, P.<sup>1</sup>, Padberg, F.<sup>1</sup>;  
<sup>1</sup>Ludwig-Maximilians-University, Department of Psychiatry and Psychotherapy, Munich, Germany; <sup>2</sup>Hochschule Fresenius, University of Applied Sciences, Munich, Germany; <sup>3</sup>Charité – Universitätsmedizin Berlin, Charité Campus Mitte, Department of Psychiatry and Psychotherapy
- B7 Behavioral and Neural Mechanisms of Reflexive Social Attention**  
Lara Rösler & Matthias Gamer, Julius Maximilians University of Würzburg
- B8 The Semantics of Aggression: Implicit Attention to Antisocial Words Predicts Anger Reactivity**  
Macià Buades-Rotger, Ulrike M. Krämer; University of Lübeck
- B9 Are Shared Experiences Amplified? A Behavioral and Dual EEG Study**  
Noam Roth, Mor Nahum, Anat Perry; The Hebrew University of Jerusalem
- B10 Maternal Behavior Predicts Infant Neural Responses and Social Behavior: A Story of Differential Susceptibility**  
S. Rousseau, PhD<sup>1</sup>; L.C. Bowman, PhD<sup>2</sup>; D. Miron<sup>1</sup>; T.I. Frenkel, PhD<sup>1</sup>  
<sup>1</sup>Ziama Arkin Infancy Institute, Interdisciplinary Center (IDC), <sup>2</sup>Center for Mind and Brain, University of California, Davis
- B11 Social Anxiety Modulates Visual Exploration in Real Life – But Not in the Laboratory**  
Marius Rubo and Matthias Gamer; Würzburg University
- B12 Prosocial Behaviors of Children with ASD During Interactions with Their TD Siblings**  
Yonat Rum, Esther Dromi; Tel Aviv University
- B13 Anticipatory Information Influences Subsequent Emotion Regulation: Neural and Behavioral Evidence**  
Roni Shafir & Gal Sheppes; Tel Aviv University.



- B14 Altered Responses to Social Chemosignals in Autism Spectrum Disorder**  
Yaara Endevelt-Shapira; Ofer Perl; Aharon Ravia; Daniel Amir; Ami Eisen; Vered Bezalel; Liron Rozenkrantz; Eva Mishor; Liron Pinchover; Timna Soroka; Danielle Honigstein; Noam Sobel; Weizmann Institute of Science
- B15 Hormonal Imbalance Among Women With and Without Autism**  
Simantov T.<sup>1</sup>, Uzefovsky F.<sup>1,2</sup>, Pohl A.<sup>3</sup>, Ruigrok A.<sup>3</sup>, Smith P.<sup>3</sup>, Allison C.<sup>3</sup>, and Baron-Cohen S.<sup>3</sup>.  
<sup>1</sup>Psychology department, Ben Gurion University; <sup>2</sup>Zlotowski center for neuroscience, Ben Gurion University; <sup>3</sup>Autism Research Centre, Department of Psychiatry, University of Cambridge
- B16 The Influence of Social Interaction on Memory Organization**  
Yoni Stern, Michael Gilead, Talya Sadeh; Ben-Gurion University of the Negev
- B17 Neural Correlates of Dictator Game Choice Behavior in Narcissistic Personality Disorder**  
David Stolz, Björn Schott, Aline Vater, Stefan Roepke, Frieder Michel Paulus, Sören Krach; University of Lübeck; Universität Göttingen; Campus Benjamin Franklin, Charité Berlin
- B18 Lie to Me – Or Not? An Experimental Investigation of Lying in a Cooperative and a Confrontative Context**  
Kristina Suchotzki & Matthias Gamer; University of Würzburg
- B19 Do Mothers' Executive Functions Contribute to Parental Mentalization? The Role of Child Characteristics**  
Tal Yatziv, Yoav Kessler, and Naama Atzaba-Poria; Ben-Gurion University of the Negev
- B20 Moving Forward: The Contribution of Dynamic Facial Expressions to Understanding Subtle Emotional Interactions**  
Neta Yitzhak & Hillel Aviezer; The Hebrew University of Jerusalem