



The Genetics Society of Israel
Annual Meeting 2022

FRONTIERS IN GENETICS XIII

April 13, 2022

Ben-Gurion University of the Negev

- 09:30 **OPENING REMARKS**
Dan Mishmar, President, The Genetics Society of Israel
- 09:40 **THE ROLE OF INTRINSICALLY DISORDERED DOMAINS IN THE SEARCH OF TRANSCRIPTION-FACTORS FOR THEIR BINDING SITES IN-VIVO**
Naama Barkai, Weizmann Institute of Science
- 10:00 **FROM GENOTOXICITY TO ONCOGENICITY: ON HELICOBACTER PYLORI-INDUCED DNA DAMAGE IN GASTRIC CELLS**
Yaakov Maman, Bar-Ilan University in Safed
- 10:15 **MRNA EDITING IN BACTERIA AFFECTS PROTEIN SEQUENCE AND FUNCTION WITH CONSEQUENCES FOR BACTERIAL FITNESS**
Dan Bar-Yaacov, Ben-Gurion University in the Negev
- 10:30 **MOSQUITOES, LOVE, MEMORY: GENETIC PROGRAMS TOWARD A LIFETIME BEHAVIOR**
Leah Hourii-Zeevi, Rockefeller University, USA
- 10:45 **EVOLUTION OF PROTEIN FOLDING AND ASSEMBLY PATHWAYS: DECIPHERING THE CHARACTERISTICS OF DIVERGENT CO-TRANSLATIONAL ASSEMBLY PATHWAYS IN ATOMIC RESOLUTION**
Ayala Shiber, Technion - Israel Institute of Technology
- 11:00 *Coffee Break*
- 11:30 **ECO-EVOLUTIONARY DYNAMICS OF GENE DRIVE SPILLOVERS**
Gili Greenbaum, The Hebrew University of Jerusalem
- 11:45 **CHALLENGES IN CORRECTING EPIGENETIC DISEASES BY GENE EDITING**
Sara Selig, Technion - Israel Institute of Technology
- 12:05 **FROM POPULATION HEALTH DISPARITY VIA GENETICS TOWARD DRUG DISCOVERY**
Karl Skorecki, Azrieli Faculty of Medicine, Bar-Ilan University, Safed
- 12:35 ***GSI BUSINESS MEETING***
- 12:45 *Poster Session & Lunch*
- 14:15 **WHAT CAN Hi-C TEACH US ABOUT NUCLEAR SUB-COMPARTMENTS AND ALTERNATIVE SPLICING?**
Gil Ast, Tel Aviv University
- 14:35 **HUMAN-CHIMP HYBRID CELLS REVEAL GENE REGULATORY EVOLUTION UNDERLYING SKELETAL DIVERGENCE**
David Gokhman, Weizmann Institute of Science
- 14:50 **WHEN THE HEAT IS ON, TURN UP THE AC(4C)**
Aldema Sas-Chen, Tel Aviv University
- 15:05 **ANCIENT DNA FROM PREHISTORIC ISRAEL: HOPES AND CHALLENGES**
Vivian Slon, Tel Aviv University
- 15:20 **SHOULD WHOLE-EXOME SEQUENCING BE USED AS AN ADJUNCT TOOL FOR ASD DIAGNOSIS IS ISRAEL?**
Idan Menashe, Ben-Gurion University of the Negev
- 15:35 *Poster Prizes & Closure*