The Israel Society for Astrobiology and the Study of the Origin of Life

35th Annual Meeting, May 30th 2022 - The Hebrew U. of Jerusalem, Los Angeles bldg

08:30-09:00 – Coffee and light breakfast

09:00-09:05 – Welcome note, Danny Porath, vice Dean of Faculty of Science, HUJI
09:05-09:15 – Opening note, Moran Frenkel-Pinter, HUJI

Session 1 – Origin of Life Chair: Nir Ben-Tal

09:20-10:00 – Keynote: Loren Williams (Georgia Tech) - RNA and Protein: Molecules in Mutualism
10:00-10:15 – Nir Ben-Tal (TAU) -Protein archaeology: How proteins emerged and evolve?
10:15-10:30 – Tanaya Bose (WIS) - Glimpse into origin of life: From RNA to proteins
10:30-10:45 – Avshalom C. Elitzur (chapmanU) The Ski-Lift Pathway to Complexity: Thermodynamically Unique, Biologically Ubiquitous
10:45-11:00 – Tal Mor (Technion) - Emergence of the code - a model of three amino acids
11:00-11:15 – Ayala Lampel (TAU) - Biomolecular Condensates Formed by Designer Minimalistic Peptides

11:30-13:00 – Lunch break

Session 2 – Biochemistry Chair: Moran Frenkel-Pinter

13:00-13:40 – Keynote: Itamar Willner (HUJI) - A Protoribosome and Prebiotic Nanotechnology
13:40-13:55 – Sergey Semenov (WIS) - Probing out-of-equilibrium conditions in prebiotic chemistry
13:55-14:10 – Moran Frenkel-Pinter (HUJI) – Chemical Evolution Reimagined
14:10-14:25 – Meital Reches (HUJI) - The amino acid DOPA in Peptides, Materials & Origin of Life
14:25-14:40 – Norman Metanis (HUJI) - Functional "Ambidexterity" in an Ancient Nucleic Acid-Binding Protein
14:40-14:55 – Hava Sadihov-Hanoch (BGU), Nucleic-Acid-Peptide chimeras in the origin of life

14:55-15:30 – Coffee break & Poster session

Session 3 – Astrobiology Chair: Amri Wandel

15:30-15:50 – Amri Wandel (HUJI) - Copernican solution to the Fermi Paradox
15:50-16:10 – Uri Malamud (Technion) - Are there any pristine comets? Constraints from pebble structure
16:10-16:30 – Volker Perdelwitz (ArielU) - Chromospheric Activity of Planet Host Stars
16:30-16:50 – Alona Vazan (OpenU) - Habitability of water-rich planets
16:50-17:10 – Inwoo Han (KASI, South Korea) - Planets of evolved giant stars: detection and habitability
17:10-17:15 – Concluding remarks, Amri Wandel