

The 37th meeting of ILASOL, Monday, June 3rd 2024

Technion

9:00 – 9:30		Coffee and Registration
9:30 – 9:35		Greetings
9:35 – 11:00		Opening lectures (Chair: Tal Mor)
9:35 – 10:15	Ron Naaman (WIS)	The electron's spin, chirality and the origin of life.
10:15 – 11:00	Eugene Koonin (NIH)	Keynote: On the origin of genomes and viruses
11:00 – 11:20		Coffee Break
11:20 – 12:50		Session 1: Astrobiology and Philosophy (Chair: Moran Frenkel Pinter)
11:20 – 11:50	Amri Wandel (HUJI)	A new perspective for Habitability and the Circumstellar Habitable Zone
11:50 – 12:05	Mangesh Daspute (Ariel)	Interior Structures and Potential Habitability of the Super-Earth Exoplanets LHS 1140 b, K2-18 b, TOI-1452 b and TOI-1468 c
12:05 – 12:20	Itay Weintraub (TECH)	Examination of the Adaptive Habitability Concept in Search for Habitable Exoplanets
12:20 – 12:50	Ute Deichmann (BGU)	Early Controversies about the Origin of Life and their Philosophical / Ideological Background
12:50 – 14:00		Lunch + Poster Session
14:00 – 14:10		Greetings: Noam Ziv, Head of Technion Human Health Initiative
14:10 – 16:00		Session 2: Origin of Life and Evolution (Chair: Gonen Ashkenasy)
14:10 – 15:00	Ada Yonath (WIS)	Keynote: Prebiotic Peptide Bond Formation by the Protoribosome: A Probable Link between the RNA and the Protein Dominated Worlds
15:00 – 15:30	Rami Pugatch (BGU)	Rebooting life - on the minimal number of autocatalytic entities required for sustained replication
15:30 – 16:00	Benjamin Podbilewicz (TECH)	Membrane fusion and fission and the origin of eukaryotes
16:00 – 16:15		Coffee Break
16:15 – 17:45		Session 3: Origin of Life and Prebiotic Chemistry (Chair: Amri Wandel)
16:15 – 16:45	Doron Lancet (WIS)	A Darwinian Origin of Life: from micellar protocells to LUCA
16:45 – 17:00	Shoval Gilboa (TECH)	Photo-assisted Formation of Nucleobases, nucleosides and nucleotides from formamide and cerium phosphate
17:00 – 17:15	Rotem Edri (HUJI)	Lipid-Hydroxy acids Conjugates as Novel Prebiotic Amphiphiles
17:15 – 17:45	Gonen Ashkenasy (BGU)	Peptides and Proteins as Molecular Hubs in the Origin of Life
17:45 – 18:00		Closing Remarks

