

15th meeting of the Israeli Society for the Origin of Life (ILSOL)

08:30 – 08:50 Morning Coffee

Morning Session *Chair: Naomi Dar (HUJ)*

08:50 – 09:00 Noam Lahav (HUJ)

Opening of meeting

09:00 – 09:40 Gidi Fleminger (TAU)

“Catalytic Activity of Amino Acids and Small Peptides Formed on their Substrates in Hydrolytic Cleavage and Condensation as well as in DNA Synthesis.”

09:40 – 10:20 Akiva Bar-Nun (TAU)

“On the Contribution of Comets to the Volatile Inventory of Venus, Earth, Mars and Jupiter.”

10:20 – 11:00 Meir Lahav (WIS)

“Chiral Amplification of Oligopeptides in 2-Dimensional Amphiphilic Crystalline Self-Assemblies on Water.”

11:00 – 11:20 Coffee break

Noon Session *Chair: Igor Berezovski (WIS)*

11:20 – 11:50 Iris Fry (TAU)

“Aristotle, Kant, Paley and Cairns-Smith on the Definition of Life and its Origin – Similarity and Differences.”

11:50 – 12:20 Naomi Dar (HUJ)

“Is life a Virus? The Virus Model in the Definition of Life?”

12:20 – 12:50 Avshalom C. Elitzur (BIU)

“A Proposal for a Definition of Life.”

12:50 – 13:50 Lunch

Afternoon Session Chair: Barak Shenhav (WIS)

13:50 – 14:30 Dan Tawfik (WIS)

“Conformational Diversity and the Evolution of Protein Functions and Folds.”

14:30 – 15:00 Igor Berezovski* and Edward Trifonov (WIS)

“‘Codons’ of the Earliest Protein Organization.”

15:00 - 15:30 Edward Trifonov

“Molecular Opportunism of the Earliest Life.”

15:30 – 16:00 Ron Kafri*, Doron Lancet and Barak Shenhav* (WIS)

“New GARD Developments: Chiral Selection and polymer Formation.”

16:00 – 17:00 *Open Discussion* Moderator: Gidi

Fleminger:

Doron Lancet and Avshalom C.

Elitzur

“Is there a Viable Alternative to the RNA World Scenario?”