

The Israel Society for Astrobiology and the Origin of Life (ILASOL)



21st annual meeting December 2nd, 2007

Session 1 - Plenary

9:05 -10:00 **Robert Shapiro (NYU)** A SIMPLER ORIGIN FOR LIFE.

Session 2 – Prebiotic Chemistry and Evolution

10:00-10:30 **Iris Fry (Technion)** On the “RNA-first” – “Metabolism-first” debate: What is the debate about?

10:30-11:00 **Meir Lahav (WIS)** Oligo-Copeptides of Homochiral Sequence from Racemic α -Amino Acids in Water. Relevance to Chirobiogenesis.

Session 3: Biological Networks

11:30-12:00 **Yitzhak Pilpel (WIS)** Differential translation efficiency of orthologous genes is involved in phenotypic diversion of yeast species.

12:00-12:30 **Roy Bar-Ziv (WIS)** An autonomous system for identifying and governing a cell's state

12:30-13:00 **Nobuhiko Tokuriki (WIS)** Stability and Robustness of viral proteins.

Session 4: Astrobiology

14:00-14:30 **Akiva Bar-Nun (TAU)** Surface Structures on the icy satellites of the giant planets; Europa, Enceladus and Miranda.

14:30-15:00 **Amri Wandel (HUJI)** Life in other worlds.

15:00-15:30 Debate: Same chemistry or different? Thoughts on extraterrestrial life. Chair: Avshalom Elitzur; Debaters: Akiva Bar-nun, Doron Lancet.

Session 5: Early Genes

15:50-16:20 **Edward Trifonov (Haifa)** Two very first genes – reconstruction.

16:20-16:50 **Gad Yagil (WIS)** Binary DNA tracts as ancient DNA motifs.

16:50-17:20 **Zakharia Frenkel (Haifa)** Evolutionary reconstruction by networks in formatted protein sequence space.

Wolfson Auditorium, Weizmann Institute of science

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