



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

26th annual meeting December 9th, 2012

09:00 Botnar auditorium, Weizmann Institute of Science

08:40-09:00 *Breakfast & Gathering*

Session 1

09:00-09:10 Doron Lancet (WIS) Opening

09:10-09:20 Daniel Zajfman (WIS) President's opening

09:20-09:45 Avishay Gal-Yam (WIS) Where does calcium come from? the helium supernova connection

09:45-10:10 Amri Wandel (HUJI) How frequent are biotic worlds?

10:10-10:25 Joseph Gale (HUJI) The "Rare Earth" hypothesis revisited

10:25-10:40 Oded Avraham (TAU) Looking for life elsewhere: review of the present and future life-related space missions

10:40-11:00 *Coffee*

Session 2

11:00-11:50 Paulien Hogeweg (Netherlands) Evolutionary dynamics of RNA replicator systems at high mutation rates

11:50-12:15 Liran Carmel (HUJI) Traces of primordial eukaryotic mechanisms: the regulatory roles of the minor spliceosome

12:15-12:40 Raymond Kaempfer (HUJI) From cyanide and water to RNA sensors of stress in human cytokine genes

12:40-13:20 *Lunch*

Session 3

13:20-13:45 Gonen Ashkenasy (BGU) Possible role for proteins in the origin of life

13:45-14:10 Roy Bar-Ziv (WIS) Cell-free protein synthesis and assembly on a biochip

14:10-14:25 Alon Welner (WIS) The origins of protein divergence and the expansion of sequence space

14:25-14:50 Iris Fry (IIT) Is metaphysics a four-letter word and why is this relevant to origin-of-life researchers?

14:50-15:10 *Coffee*

Session 4

15:10-15:40 Miri Krupkin (WIS) A vestige of a prebiotic bonding entity is functioning within the contemporary ribosome

15:40-16:15 Jason Raymond (Arizona) The transition from photosynthesis to chemosynthesis in natural environments: how an energetic supercharge transforms biology

16:15-16:30 Doron Lancet (WIS) Lipid World realities: true lipids, evolutionary ecology and open-endedness

16:30-16:50 Gonen Ashkenasy (BGU) Discussion and closing remarks

16:50 *End*

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