Origins of Life Chemistry Workshop

Earth-Life Science Institute, Tokyo Institute of Technology





Thursday 20 March 2014

	Thursday 20 March 2014
Session 1: 9–12 AM	
9:00–9:25	Aaron Englehart Harvard University "Nucleic Acids with Mixed Backbones: Fatal or Beneficial for an RNA World?"
9:25–9:50	Yutetsu Kuruma ELSI "Creation a Possible Living Organism that Might Exist in Early Earth Condition"
9:50–10:15	Christian Hentrich Harvard University "Dynamic Behavior of Model Protocells Studied by Optofluidics"
10:15–10:40	Daishi Fujita University of Tokyo "Arrayed Lipid Bilayer Chambers Allow Single Molecule Analysis of Membrane Transporter Activity"
10:40–11:05	Tony Jia Harvard University "Cationic Peptides Decrease Reannealing Rates of Separated RNA Strands"
11:05–11:30	Jim Cleaves <i>ELSI</i> "Comparison of Amino Acids Derived from Titan Tholins, Electric Discharge Reactions and Carbonaceous Chondrites"?
11:30–11:55	Noam Prywes Harvard University "Mechanistic studies of Nonenzymatic Template-Directed RNA Polymerization"
C : 2.2.5 DM	Lunch 12–2 PM
Session 2: 2–5 PM	
2:00–2:25	Brian Cafferty Georgia Tech "Efficient Monomer Assembly and the Origin of RNA"
2:25–2:50	Norio Kitadai ELSI "Thermodynamics of Amino Acid Synthesis and Polymerization"
2:50–3:15	Aaron Larsen Harvard University "For Biopolymers: The Spooky Thermodynamic Effects of Nucleobase Modifications"
3:15–3:40	Alexis Gilbert ELSI "Molecular fossils of early life on Earth"
3:40–4:05	Neha Kamat Harvard University "Inducing RNA Localization to Protocell Membranes with Lipophilically-Modified Nucleotides"
4:05–4:30	Nobuto Takeuchi University of Tokyo "On the Roles of Parasites in an RNA World: Evolution of Complexity in Model Replicator Systems"
4:30–4:55	Enver Izgu Harvard University "Exploring the Dynamics of Non-Covalent Nucleotide Binding to SS-Nucleic Acid Templates Using NMR Spectroscopy"

Reception 5-6 PM