Origins 2014 Poster session on July 8 (Tue) and 10 (Thu) (Coretime 13:30-14:30)

Poster

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Organic compounds around and be	tween stars	
Michel Nuevo	The Photochemistry of Pyrimidine in Cold Astrophysical Environments	
Jean-Claude Guillemin	Synthesis and photochemistry of cyanobutadiyne and methylcyanobutadiyne, two interstellar compounds	
Kaori Kidachi	Theoretical investigation of alanine formation on interstellar dusts	
Daiki Ishimoto	Detectability of disk winds by molecular emission lines observed with ALMA	
Hideko Nomura	Complex Organic Molecules in Protoplanetary Disks	
Albert Rimola	Quantum Mechanical Insights into Molecular Hydrogen Formation on Interstellar Dust Grains	
Christopher Kroboth Materese	Radiation Chemistry on Solar System Icy Bodies: Laboratory Simulations for Pluto and Other Transneptunian Objects	
Planetary systems' formation: How many Earths?		
Mihoko Konishi	Deficit of M-dwarfs in the Halo and Thick Disk of the Galaxy: Estimation of the Number of Contaminating Stars for Direct Imaging Surveys	
Ayana Sasaki	Balloon Borne Astronomical Interferometer in Far-Infrared	
Jun Takahashi	Earthshine Polarimetry: Can Polarimetry Help to Find an Exoplanet with an Ocean?	
Ekaterina Melkikh	Evolution of Planetary Systems and Habitable Zones	
Hidenori Genda	Giant Impacts and Terrestrial Planet Formation	
Yui Kawashima	Transmission spectrum models of low-mass exoplanet atmospheres with haze: Application to GJ 3470b	
Yuka Fujii	Geology and Photometric Properties of Solar System Bodies: Implication for Characterization of Small Exoplanets	
Ryan Heller	A Search for Exomoons in the Stellar Habitable Zones	
Comets, Asteroids and meteorites		
Yuichiro Ogata	Hypervelocity Capture of Meteorite Particles in Aerogel: Ground-based experiment for the Cosmic Dusts Capture at the International Space Station	
Kensei Kobayashi	Space Exposure of Amino Acids and Their Precursors in the Scheduled Tanpopo Mission on the International Space Station: Results of Preliminary Experiments on Ground	
Iuliia Myrgorodska	Multidimensional analysis of amino acids in Murchison meteorite	
Sandra Pizzarello	Terrestrially altered carbonaceous meteorites: how good for early molecular evolution?	
Josep M. Trigo-Rodriguez	Processing of Primordial Organic Compounds in Carbonaceous Asteroids by Mild Aqueous Alteration	
Kebukawa Yoko	Prebiotic Organic Molecule Syntheses on Asteroids from Formaldehyde and Ammonia during Aqueous Alteration	
The prebiotic emergence of compl	ex order: Chirality, catalysis and other means	
Jason P Dworkin	Amino acids in carbonaceous chondrites and potential formation mechanisms	
Junichi Takahashi	Terrestrial Bio-chirality and Symmetry Breaking of the Universe	
Jose C. Aponte	Racemic Monocarboxylic Acids in CM2 Carboncaeous Chondrites and Implications for the Origin of Homochirality	
Ikumi Otsuka	Ammonium phosphates-producing flexible tryptophanase stereoselectivity	
Titan, Enceladus and Europa, a hat	vitat for life?	
Tetsuya Tokano	Rainfall climatology on Titan and Earth and its implication for the water distribution on dry exoplanets in the habitable zone	
Jun Kawai	Self-assembly of Titan tholins in environments simulating liquidospheres on Titan	
Delphine Nna Mvondo	Laboratory Investigation of Titan's Surface Compositions: Infrared Spectroscopy of Amino Acids Derived from Titan's Tholins and Tholins in Organic Solvents	
Jun Kimura	Polymerization of amino acids in the icy moons	
Robert Pappalardo (S.Vance?)	The Europa Clipper Mission Concept	
Murray Darrach	Mass Analyzer for Real-time Investigation of Neutrals at Europa (MARINE)	
Delphine Nna M∨ondo	Experimental study of CH4-N2 clathrate hydrates in application to Titan's surface	
Mars, past and present		
Frederic Foucher	Techniques used in astrobiology to search for past or present extraterrestrial life, in particular on Mars	
Frances Westall	Microbial Microbial Microbial -scale habitability on Mars, the concept of punctuated habitability, and scale habitability on Mars, the concept of punctuated habitability, and scale hab	
Rebecca L Mickol	Methanogen Survival at Martian Pressures	
Sinha Navita	Stable Carbon Isotope Fractionation by Methanogens Growing on Martian Regolith Analogs	
Jamie Wallis	Martian meteortie 'Tissint', indigenous carbon in an aggregate rock fragment from Mars' near-surface	
Louis M Lerman	Prebiotic Chemical Evolution on an Early Mars: Consequences and Artifacts of 'Organic' Weather Cycles in the Noachian	
Early Earth		
Marie-Paule P. BASSEZ	Water, air, earth and cosmic radiation	
Louis M Lerman	Global Organic Weather Cycles and the Origin of Life: Planetary-Scale Infrastructures for Prebiotic Chemical Evolution on Terrestrial-like Planets	
Olga Taran	Metal oxides and sulfides form galvanic cells capable of providing energy for prebiotic reactions	
Aditya Chopra	Can Elemental Abundances be Used to Identify the Most Likely Site for the Origin of Life?	
Hideharu Kuwahara	The molecular composition of terrestrial planetary atmospheres of impact origin during post-accretion stage	
Hikaru Yabuta	High power laser-shock experiment of chondritic meteorites: Contributions of impacts to a reducing atmosphere of the early Earth	
Tomohiro Nakamura	Origin of organic matter in 3.2 Ga black shales revealed by infrared and laser Raman microspectroscopy	

Ayaka Shiina	Constraints for oceanic redox conditions from Fe speciation analysis of 3.2 Ga DXCL-DP black shales, Cleaverville Group, Western Australia	
Ko Hashizume	A possible origin of laminations in BIF deciphered from N and Fe isotopes	
Tatsuya Tomiuka	Geochemistry of carbon and sulfur in the 2.7 Ga stromatolite (ABDP#10 core) from Meenthena, Western Australia	
Hiroaki Minami	Sulfur speciation and isotope analysis of the 2.7 Ga shallow- and deep-facies black shales from Pilbara, Western Australia.	
Makoto Kotani	Denitrification in the Mesoarchean deep ocean: Evidence from nitrogen isotope compositions of kerogen in black shales from Pilbara, Western Australia	
Nao Tsukahara	Carbon isotopic geochemistry of Makganyen diamictite in South Africa: Quest of the paleoproterozoic Snowball Earth Event	
Andrew D Czaja	Filamentous Microfossils from the Neoarchean Gamohaan Formation of South Africa: Implications for the History of Photoautotrophy	
Origin of Life Experiments: Computational		
Bruce Frederick Damer	A nomenclature for describing sufficiently complex simulations of evolving molecular systems	
Takeshi Ishida	Simulation model of living cells origin with cellular automata model	
Vladimir Nikolayevich Kompanichenko	Arising of Key Biological Properties in Prebiotic Microsystems in the Course of Thermodynamic Inversion: Theory and Proposed Experiments	
Jerzy Maselko	The spontaneous emergence of chemical organizations. The first step in the transition from nonliving to living matter.	
Akifumi Oda	Investigations for Conformations of [GADV]-peptides Using Molecular Dynamics Simulations	
Norio Kitadai	Why life uses only a-amino acids as building block of proteins?: A thermodynamic evaluation	
Prebiotic chemistry		
Hayato Tokimura	Formation of Nucleic Acid Bases from SImulated Interstellar Media and Their Stability in Space Environments	
Kazumichi Nakagawa	Experimental evaluation of dissociation stability, asymmetric reaction efficiency, and chiral stability of amino acid films upon vacuum ultraviolet irradiation	
Kimihiro Ishiyama	Time dependent absorption spectra of alanine film after stopping irradiation of 172 nm vacuum ultraviolet light	
Yoshitaka Bessho	Recapitulation of the primitive earth environment in space, and bioimaging primary biomaterials by coherent X-ray beams	
Yoshihiro Furukawa	Effects of Borate and Silicate on the Stabilization of Pentoses	
Helen Greenwood Hansma	Proton-Coupled Electron Transfer, Muscovite Mica, and the Origins of Life	
Alexandra Whicher	Energy metabolism at the origin of life	
Ellen Yvette Aguilar-Ovando	Influence of Mineral Surfaces in the Chemical Transformations Undergone by Amino Acids in Prebiotic Conditions	
Kunio Kawamura	Behavior of amino acid and peptide under the pulsed discharge plasma	
Maguy Jaber	Polymerization and Selectivity polymerization of amino acids (arginin, glutamic acid and alanin) to the zeolite (silicate)	
Damien Beaufils	C-Terminus Activation of Peptides as a Prebiotically Plausible Pathway	
Hajime Mita	Chemical and physical properties of proteinoid microspheres	
Ziwei Liu	Formation and Reactivity Amino Acid-Phosphate and Peptide-Phosphate Mixed Anhydrides under Prebiotically Plausible Conditions	
Gonen Ashkenasy	Multiple Roles of Peptides and Proteins in The Origin of Life	
Toratane Munegumi	Aldolase as a Chirality-Intersection of Amino Acid and Sugar	
Nicholas V Hud	Ester Formation and Hydrolysis During Wet-Dry Cycles: Generation of Far-From-Equilibrium Polymers in a Model Prebiotic Reaction	
Ayako Takahashi	Diversity in size and shape distributions of organic microspherules	
Taisiya A. Telegina	Photophosphorylation of ADP to ATP Involving Chromoproteiniod-Silicate Matrices	
Hyo-Joong Kim	Prebiotic Pyrimidine Nucleoside Synthesis of Functional Group Substituted Pyrimidine Base	
Yile Wu	Model for Genetic Code Origin	
Hannes L. Pleyer	Possible Iron Sources for a Prebiotic Formation of Iron Porphyrins	
Elizaveta Guseva	Origins of biopolymers: mechanisms of sequence selection	
Nicholas V Hud	Molecular Origins Database: A Wiki Library of Prebiotic Compounds	
Andrew James Surman	Analytical platforms for exploring complex chemical systems	
Leroy (Lee) Cronin	Engineering the Transition to Evolvable Chemistry: Inorganic Biology	
Towards the RNA world & The RN	A World	
Kunio Kawamura	Difficulty of oligonucleotide replication using the monomeric activated nucleotides	
Romeu C Guimaraes	The Self-Referential Genetic Code is Fully Biologic and Includes the Error Minimization Property	
Naoto Nemoto	tRNA-binding Peptide Consisting of Four Kinds of Amino Acids by cDNA Display Method	
Marco V. Jose	Symmetry groups in the structure of the genetic tRNA anticode	
Aleksei V. Melkikh	The Problem of Stability of Spatial Configurations of Replicators and Mechanisms of Their Evolution	
Shinji Karasawa	Mechanism of organization of molecules formed by intermolecular binding force	
Balazs Konnyu	Iemplate directed replication supports the maintenance of the Metabolically Coupled Replicator System	
Kokoro Hamachi	Evolutionary process of tRNA and riboswitches	
Jessica Yeates	Game theory in a prebiotic KNA system	
Laura da Silva	Salt-promoted synthesis of NNA-like molecules in simulated hydrothermal conditions	
Alexander V. Yakhnin	Selection for Resistance to Degradation and the Urigin of Life	
narold S Bernhardt	Prunne posynthetic mermeaauer containing polymers as evolutionary precursors to KNA	
Nobuto Takeuchi	Un the Koles of Parasites in an KNA word: Evolution of Complexity in Model Replicator Systems	
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Suana Rajamani	Lipit data yzen nonenzymati syntresis or ruva and us implications for the KNA World Data and the syntresis or ruva and us implications for the KNA World Data and the synthesis of a solution of a sol	
iviraja Bapat	Plausible prediotic role of molecular crowding in template directed nonenzymatic replication of nucleic acids	

Chaitanya Mungi	Characterization of lipid assisted nonenzymatic polymerization reaction of 5' -nucleoside monophosphates	
Hossein Shenasa	Generation of oligonucleotides under hydrothermal conditions by non-enzymatic polymerization	
Duncan Coleman	Evolution of RNA editing in a laboratory experiment	
Fabrizio Maria Anella	Reconciling ribozyme activity with fatty acid vesicle stability	
Protocells & amp; Early Cellular Systems		
Lin Jin	Nonenzymatic RNA Replication Inside Giant Multilamellar Protocells	
Kanta Tsumoto	Self-Emergent Cell-Sized Sphere Entrapping DNA through Micro Phase-Segregation	
Pauline van Nies	Stochastic gene expression in liposomes for the assembly of a minimal cell	
Chenyu Wei	M2 Proton Channel : Structure and Activation	
Charles Lineweaver	The Origin of Multicellularity and Cancer	
Victor Sojo	From protocells to cells in natural proton gradients: the divergence of archaea and bacteria	
Pre LUCA molecular evolution		
Shin-ichi Yokobori	Origin of Archaea-type cellular membrane inferred from molecular phylogenetic analyses of G1P and G3P dehydrogenases	
Satoshi Akanuma	Protein simplification to address the amino acid usage of primordial proteins	
Sohan Jheeta	A Paradigm Shift Hypothesis: A case for RNA's influence on Life on Earth	
Marco V. Jose	A proposal of the proteome before LUCA	
Yasuyuki Semba	The improvement of the lignin degrading enzyme by reconstructing of the ancestral enzyme	
Ryutaro Furukawa	Investigation for early evolution of life based on phylogenetic analysis using aminoacyl-tRNA synthetase	
Alejandro Nabor Lozada-Chavez	Evolution of genome structure in RNA viruses: distribution of positive and negative selection, and interplay between RNA structure and protein sequence	
Kendrick Michael Wang	Production of amino acids by polypeptides present in a prebiotic protein world	
Johann Peter Gogarten	Intein Distributions Illuminate the Threads of the Web of Life	
Peter R. Wills	Emergence of coding specificity	
Evolutionary aspets		
Ion Jeanne Soteropoulos	The Origin Paradox of Life	
James Lyons	Isotopic cross sections for SO2 and relevance to sulfur MIF	
Nori Miyake	Identification and chracterisation of the Sri Lankan red rain cells using molecular approaches	
Eric D Becraft	Identifying the Metabolic Potential of Microbial Dark Matter Populations in Extreme Environments	
Zann Gill	Life's Improbable Origin: The A-PR Hypothesis	
Makoto Tabata	Silica Aerogel for Capturing Intact Interplanetary Dust Particles for the Tanpopo Experiment	
Yuko Kawaguchi	The possible interplanetary transfer of microbes: Assessing the viability of Deinococcus spp. under the ISS environmental conditions for performing exposure experiments of microbes in the Tanpopo mission	
Kazuki Yoshida	Self-propagating microparticles associated with the Kasumi cell culture: a methodological approach	
HItomi Nishiwaki	Microorganisms that prefer D-amino acids: toward a search for anti-chiral organisms	
Hiroshi Hattori	The Universal Code and Non-Universal Codes	
Erik Persson	Signatures of Life on Earth and in Cosmos	
Erik Persson	The attitude towards astrobiology among students and the interested public in Sweden	
Sandra Ramos	The concept of life from the perspective of philosophy of mind: a proposal to investigate the subjective nature of reality.	
Ninel Valderrama	The avant-grade underwater mural: the Oparin theory from an artistic viewpoint	
Yuuka Ishizawa	Fitness change of mutators in different medium in accordance with apparent mutation rate	