

# 生命理工学フロンティア第三 LST Frontier Seminar 3

-生命の起源と進化の最先端研究-

*Frontier research in origin and evolution of life on Earth*

第1回 7/24(Wed) Suzukakedai campus room B221

13:20-14:50 Yamei Li (Researcher at ELSI, TiTech)

**Mineral catalysis that bridges the gap between chemical evolution and biochemistry**

「生化学と化学進化を橋渡しする鉱物表面における化学反応」

15:00-16:30 Shawn McGlynn (Associate Professor at ELSI, TiTech)

**What is biological energy conservation, and how much energy does it take to build a cell?**

「生物学から見たエネルギー保存則：細胞を構築するために必要なエネルギー量とは？」



第2回 7/31(Wed) Ishikawadai Bldg 7

Earth-Life Science Institute (ELSI-1), Mishima Hall

13:20-14:50 Irena Mamajanov (Specially Appointed Professor at ELSI, TiTech)

**In the Beginning: Chemical Evolution on the Path to Life**

「最初に何が起きたのか？ 生命に至る化学進化の道筋」

15:00-16:30 Tony Jia (Specially Appointed Assistant Professor at ELSI, TiTech)

**Evolution and assembly of primitive biopolymers**

「初期の生体関連高分子のアセンブリと進化」



第3回 8/1(Thu) Ishikawadai Bldg 8

Earth-Life Science Institute (ELSI-2), 1st floor lounge

13:20-14:50 Kosuke Fujishima (Specially Appointed Associate Professor at ELSI, TiTech)

**Using synthetic biology approach to tackle the origin of life question**

「生命の起源はどこまでわかった？ 合成生物学を用いた新アプローチ」

15:00-16:30 Tomohiro Mochizuki (Specially Appointed Assistant Professor at ELSI, TiTech)

**Viruses in the environment - the most abundant biological entities**

「環境中のウイルス - 地球生態系の銀河系集団」



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