

FRIS/TI-FRIS

Vol.65

Hub Meeting

Vol.49

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“作る”生命科学で挑む生物の起源・運動・進化

Decoding Life through Synthesis: Origins, Motility, and Evolution

*Language: English

Summary

What if we could build life from scratch? Synthetic biology and artificial cell research pursue this bold vision by reconstructing biological systems from the bottom up. Through this constructive approach, we investigate how cells first acquired functional proteins on their surfaces, and how they developed the remarkable dynamic capabilities of motility, deformation, and division. Furthermore, we are beginning to explore how our synthetic methodology might illuminate the evolutionary transition from prokaryotes (relatively simple cells like bacteria) to eukaryotes (more complex cellular forms). I will discuss our latest discoveries and outline future directions for this interdisciplinary endeavor that bridges molecular biology, engineering, and evolutionary science.

第65回 FRISハブミーティング/第49回 TI-FRISハブミーティング

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