

Theme 4
Microbial and Biogeochemical Evolution through Time
Session 4E

Microbial Lipid Biomarkers and Their Isotopes in Environment, Biology, and Evolution

Conveners

Zhirui Zeng, Huan Yang, Yosuke Hoshino

Optics Valley Meeting Room A (3rd floor) 光谷厅 A (三楼)

Time	Title	Speaker	Affiliation
08:30-08:55	Mechanisms for the formation of rearranged hopanes: Insights from the Sydney Basin, Australia (keynote)	Simon George	Macquarie University
08:55-09:20	A novel quinone biosynthetic pathway in Nitrospirata illuminates the evolution of aerobic metabolism (keynote)	Felix Elling	University of Kiel
09:20-09:35	Temporal lag and spatial shift of the GDGT-temperature relationship in a deep alpine lake	Jingjing Li	Nanjing Institute of Geography and Limnology, CAS
09:35-09:50	Arid and cool climate transition during the evolution of the Jehol Biota and its implications	Zhaoxia Ge	Peking University
09:50-10:15	Evolutionary biochemistry of lipid membranes (keynote)	Yosuke Hoshino	Nagoya University
Tea Break			
10:40-10:55	Deciphering the response of 3-hydroxy fatty acids to soil pH variation: Influence of microbial community dynamics and membrane lipid remodeling	Canfa Wang	China University of Geosciences (Wuhan)
10:55-11:10	Steroid acids with extended side chains and fumarate addition in deep reservoirs	Gangtian Zhu	China University of Geosciences (Wuhan)
11:10-11:25	The construction of GDGTs-based archaeal-bacterial hybrid membrane implies for early life evolution	Zhirui Zeng	Southern University of Science and Technology
Lunch			

June 12, morning