

NEWS REPORT



令和5(2023)年度学術変革領域(A)
植物気候フィードバック
BVOC 気候調節

第24回

若手国際派遣

2026
6/26-7/6

Gordon Research Seminar and Conference on Microbial One-Carbon Metabolism (USA)

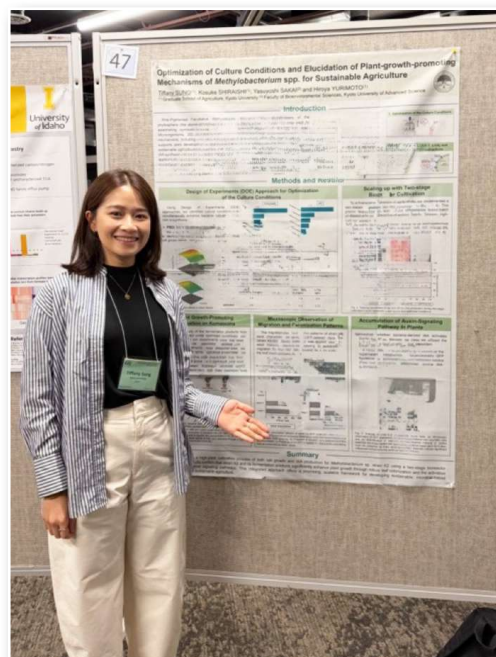


Microbial One-Carbon Metabolism, Gordon Research Seminar and Conference (GRS & GRC)



Gordon Research Conference (GRC) on Microbial One-Carbon Metabolism and its accompanying Gordon Research Seminar (GRS) in the USA have a long-standing history as the premier international gatherings for scientists. These conferences are renowned for fostering open, cutting-edge research regarding C1-utilizing microorganisms. This year, the conference was centered around the thought-provoking theme, "The Evolutionary Past and the Synthetic Future of Microbial C1-Transformations at the Cross of Organic and Inorganic Worlds." The sessions focused on how ancient evolutionary pathways in microbial ecosystems are now inspiring modern synthetic biology, agricultural innovations, and sustainable biotechnologies.

The gathering provided an incredible platform to exchange ideas with the foremost experts in the field. While this was my first time joining this prestigious event, it was also a major professional milestone for me, as it marked my very first time delivering an oral presentation at an international conference. During the event, I presented a poster detailing our latest research exploring the symbiotic relationship between plants and C1-metabolizing microbes. Specifically, I highlighted our work on the dynamics of Pink-Pigmented Facultative Methyloprophs (PPFMs) and how their metabolic interactions play a crucial role in regulating plant-associated ecosystems and carbon fluxes. I was deeply honored to be selected for a short talk at both the GRS and the main GRC to share these recent findings. Presenting our progress on the global stage allowed me to engage in highly meaningful discussions and receive invaluable feedback from leading researchers. These interactions not only provided fresh perspectives on our current methodologies but also laid the groundwork for exciting future collaborations bridging microbial ecology and biotechnology.



The Oral and Poster Presentations at the Conference.



Mountain biking and kayaking with the other conference attendees.



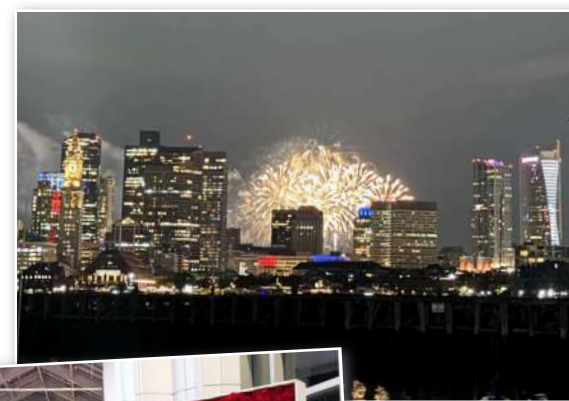
Resort Activities and Free Time

Because the conference was hosted at a resort, the schedule provided dedicated free time to step away from the lecture halls. During these breaks, I took the opportunity to try mountain biking, hiking, playing tennis, and kayaking on the lake. I truly cherished this chance to interact with fellow attendees outside of a formal academic setting. Connecting with peers over outdoor activities, rather than just through our scientific discussions, was incredibly rewarding and allowed me to forge meaningful, lasting relationships within the C1 community.



The Boston Lobster served at the last meal of the conference.

Experiencing American Culture: The Fourth of July



Celebrating Independence Day in Boston.

The timing of the conference provided a wonderful bonus: the chance to be in the United States for the Fourth of July. After an intensive week of scientific presentations and networking, it was incredible to step out and immerse myself in the local Independence Day celebrations. I had the chance to watch a

community parade, see people celebrating in festive attire, and enjoy a spectacular evening fireworks display. Experiencing this lively atmosphere and cultural tradition firsthand was the perfect way to wrap up a highly rewarding academic journey.

REPORTER



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