JAMS10 report

The Joint Academic Microbiology Seminars 10th Annual Symposium (JAMS10) was held on August 23rd and 24th, 2021 with ISME as a Silver sponsor. The virtual event was co-organised by JAMS nodes from Sydney, Kuala Lumpur and Singapore, and attended by over 400 participants from around the world mostly focused on the Asia Pacific region. Highlights included talks by a cohort of international microbiologists who shared their latest insights and discoveries on a wide range of topics, including antibiotics, biofilms, extremophiles, nitrification, SARS-CoV-2, and philosophies in microbial ecology research. Panel sessions covered two interesting topics: the origin and purpose of JAMS by its co-founders and exploring industry as an alternative career option to academia. Participants gathered at a highly interactive virtual space called ‘JAMS Town’, where talks, poster presentations and trade displays giving an in-person experience. JAMS10 ended with a prize-giving ceremony, awarding students and early career researchers with the best poster presentation. Despite the challenging year, JAMS10 was a resounding success all thanks to the involvement and participation by a diverse group of microbiologists.
Holomycin is produced by enzymes from a BGC – similar to BGCs in other bacteria

Gram-positive, filamentous soil bacteria

Gram-negative, single-cell, marine bacteria

Zhang et al. 2021 AEM
Linking function (AMO labeling) and identity (FISH)

AOB
comammox Nitrospira
canonical Nitrospira

AMO Nitrospira
all bacteria

Characterization of Methyloversatilis bacteria

Novel NO dismutase?

\[ \text{2NO} \rightarrow \text{N}_2 + \text{O}_2 \]

Membrane proteome M. oxyfera

nirS \( NO_2^- \rightarrow NO \)

\( K_m (\text{NO}_2^-) \) 7 \( \mu \)M

pmoCAB \( \text{CH}_4 + \text{O}_2 \rightarrow \text{CH}_3\text{OH} \)

\( K_m (\text{CH}_4) \) 2 \( \mu \)M

Positive NO2 signals distinctly at a resolution of \(-59 \text{ kDa}\) and \(-57\% \text{ at inner side} \(-185 \text{ kDa}\)