



MMI 291 Seminar Series

Current Theme: Interdisciplinary Research

Fall Quarter 2021 – CRN 41611

Friday Seminar – 12:10-1 PM



“This GRAS isn’t greener: Biopesticides as Unintentional Reservoirs and Vectors of Antibiotic Resistance Genes and Mobilizable Elements ”

Research / Bio

Dr. Mo Kaze is a microbial ecologist interested in genetic movement in various environments. She specializes in metagenomics, bioinformatics, and environmental microbiology. Her masters work for NASA involved looking for new lineages of life in Yellowstone National Park. Her doctoral research investigated genetic movement across environmental gradients with a focus the mobile genetic elements of biopesticides. As a fellow at the Joint Genome Institute, she maps the biogeographical distribution of organisms and defining their functional potential of engineered transitional systems, such as aqueducts and networks of irrigation canals. She is currently a postdoc in Jonathan Eisen's and Heather Bischel's labs and is working on computational analysis of SARSCov2 in environmental systems. She often gives talks on her non-traditional and windy road to becoming a scientist.

Publications

Kaze M, Brooks L, Siström M. Antimicrobial resistance in *Bacillus*-based biopesticide products. *Microbiology (Reading)*. 2021 Aug;167(8). doi: 10.1099/mic.0.001074. PMID: 34351257.

Brooks L, **Kaze M**, Siström M. A Curated, Comprehensive Database of Plasmid Sequences. *Microbiol Resour Announc*. 2019 Jan 3;8(1):e01325-18. doi: 10.1128/MRA.01325-18. PMID: 30637385; PMCID: PMC6318356.

Brooks LE, **Kaze M**, Siström M. Where the plasmids roam: large-scale sequence analysis reveals plasmids with large host ranges. *Microb Genom*. 2019 Jan;5(1):e000244. doi: 10.1099/mgen.0.000244. PMID: 30625112; PMCID: PMC6412061.

Nov
12



Mo Kaze, PhD
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Genome Center &
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University of California, Davis

Nov 12, 2021
12:10 – 1 PM
ZOOM Meeting

Medical Microbiology
& Immunology
School of Medicine

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We hope to see you there!