

The



Genomic Wave:

New Frontiers in Natural Product Discovery

Scripps Seaside Forum, January 10, 2025

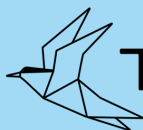
8:30 am	Arrival
9:00-9:10	Brad Moore , UCSD- Opening Remarks
9:10-9:40	Yuzhong Liu , Scripps Research- Biosynthesis of natural and new-to-nature glycosides in engineered yeast
9:40-10:00	Huibin Wang , University of Tokyo- Structure-function analysis of a novel non-heme iron oxygenase Tqam in the biosynthesis of 2-aminoisobutyric acid
10:00-10:20	Steffaney Wood , UCSD/JCVI- Domoic Acid Biosynthesis in Diatoms: Linking Genes, Global Expression, and Environmental Regulation
10:20-10:40	Catarina Loureiro , Wageningen University- BiG-SCAPE 2.0: updates to the large(r)-scale biosynthetic genomics similarity and clustering toolkit
10:40-11:15	Coffee break
11:15-11:45	Yuta Kudo , Tohoku University, Identification of Trace Natural Products Utilizing LCMS: Investigating the Tetrodotoxin Biosynthesis and Actinomycete Signaling Molecules
11:45-12:05	Yorick Chiang , UCLA- Discovery and Characterization of a New Halogenase Family
12:05-12:25	Dante Bencivengo , Thermo Fisher Scientific- Advancing metabolomics with the novel Orbitrap Astral mass spectrometer
12:30-2:00	Lunch and Scripps Pier excursion
2:00-2:30	Lena Barra , University of Konstanz- Enzyme discovery in non-canonical natural product pathways
2:30-2:50	Maarten De Mol , Ghent University- MariClus: your one-stop platform for information on marine natural products, their gene clusters and producing organisms
2:50-3:10	Angie Zhou , UCSD- Evolution of Inter-organismal Strigolactone Biosynthesis in Seed Plants
3:10-3:40	Daniel Petras , UC Riverside- Functional Metabolomics Approaches for Exploring the Chemical Space of Natural Products
3:45-5:45	Poster Session and Refreshments
6:00 pm	Event End

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