

JOIN US FOR A METABOLOMICS LECTURES

Host by

UCR METABOLOMICS CORE

Institute for Integrative Genome Biology, University of California-Riverside

Please RSVP Here:



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Metabolomics Without Boundaries: AI, Pesticide Science, and Metabolite Identification



Pramod P. Wangikar, Ph. D.

Chair Professor, Green Chemistry and Industrial Biotechnology, India

Dr. Pramod Wangikar is a Professor at IIT Bombay and

Co-founder of Clarity Bio Systems, which has developed MSOne. His research interests include metabolic engineering, ¹³C-isotopic labeling-based metabolic flux analysis, metabolic modeling, and biomarker discovery to predict diabetes-related complications and assess the metabolic risks and benefits of marathon running. He is currently on sabbatical at Rensselaer Polytechnic Institute (RPI), Troy, NY.

Title: *MSOne*: A deep learning-based platform for end-to-end analysis of metabolomics data

8:30-9:30 am



Ji-Ho Lee, Ph.D.

Assistant Professor Kangwon National University, Korea

Dr. Jiho Lee is a researcher in pesticide science whose work focuses on pesticide metabolism,

environmental fate, toxicity risk assessment, and analytical method development using LC-MS/MS and GC-MS/MS. He earned his B.S. and M.S. from Konkuk University and his Doctor of Agriculture from Seoul National University. He currently serves in several professional roles in Korea, including editorial, advisory, and society leadership positions in pesticide, environmental agriculture, and mass analysis fields.

Title: Pesticides vs Plant Medicine

9:30-10:00 am



Lloyd Sumner, Ph.D.

Professor, University of Missouri, Columbia

Dr. Lloyd W. Sumner serves as Professor of Biochemistry and Director of the University of

Missouri Metabolomics Center. His research emphasizes the development and application of advanced metabolomics technologies to elucidate plant specialized metabolism, natural products, and large-scale metabolite identification. He has achieved international recognition for his contributions to metabolomics, mass spectrometry, and plant biochemical analysis.

Title: Addressing the Metabolomics Grand Challenge of Large-Scale Metabolite Identifications

10:00-11:00 am

Friday, June 5, 2026

Genomics Auditorium, IIGB, UCR

Services Offer

Untargeted Metabolomics	Targeted Metabolomics
Untargeted Lipidomics	MS-Imaging
Central Carbon Metabolism Analysis	PFAS Analysis
Plant Specialized Metabolite Profiling	Metabolite Fractionation
Volatile Organic Compound Analysis	Environmental sample Analysis
Neutral Sugar Analysis	Metabolomics Analysis using AI
Workshops and hands-on metabolomics sessions	Consultation and study design

Please share with interested colleagues and trainees From
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