EMN Live Webinars

Monday 15th December 2025

14:00 UTC, 09:00 EDT, 15:00 CET, 08:00 CST

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METABOLOMICS SOCIETY
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Bridging Research and Industry with Precision Lipidomics

The skills I honed in the lab didn't just fuel discoveries—they opened doors to industries I never imagined collaborating with. Leaving full-time academia was mind-liberating, challenging me to explore new opportunities and build bridges between research and application. For over two decades, I've worked hands-on with mass spectrometry data, analyzing lipids across diverse biological samples. Today, I consult for academic teams and mentor students while fostering partnerships with industry clients in food, cosmetics, and biotech. In this webinar, I'll share personal experiences, lessons learned, and strategies for turning complex lipidomics data into actionable insights that drive both scientific discovery and real-world innovation.

Dr. Marcos Yukio Yoshinaga. Marcos is a scientist passionate about lipid analysis by mass spectrometry and its power to drive discovery research. Mass spectrometry remains the most comprehensive tool for studying lipids, yet—unlike proteins or DNA—lipids have no universal code. This makes lipid biomarker discovery uniquely challenging for computational and software-driven approaches. Over the past two decades, he has performed extensive manual lipid annotation across a wide variety of biological samples—from the

rarest lipids in extremophilic microbes to those found in human blood and hairs. Driven by a commitment to accuracy and scientific rigor, his mission is to democratize precision lipidomics—making advanced lipid analysis accessible and impactful across disciplines, from academic research to industrial applications.