

Nutrition Platform Updates 2024

Indika Edirisinghe, Ph.D.



Center for Nutrition Research

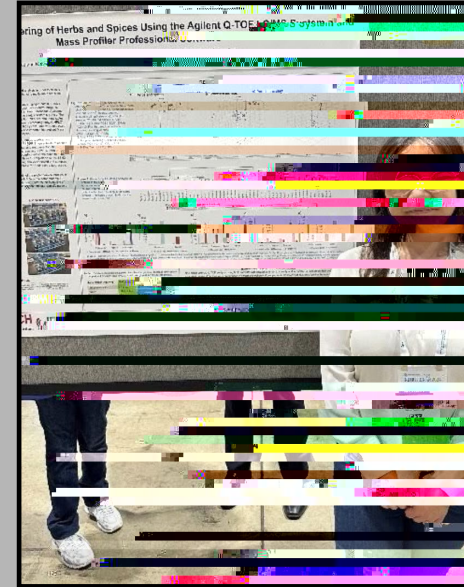
What We Do

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1: Smith M et al, Investigation of the tolerability and potential health benefits of a novel butyrate generating supplement in a pilot human study, Nutrition and Healthy Aging

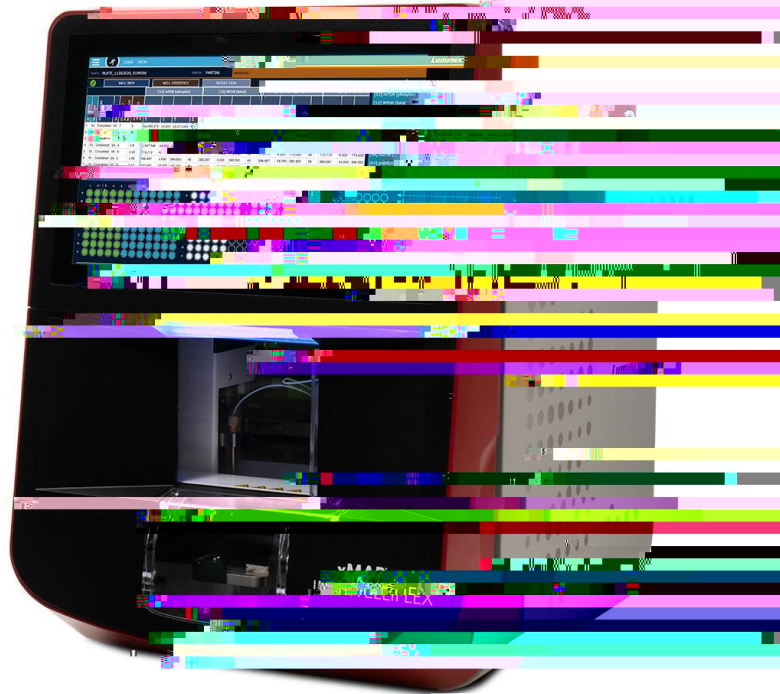
Grants/Awards

Research Grants: ~ 5.5 millions
Two USDA awards
NIH – Nutrition for Precision Health
Hass Avocado
California Strawberry Commission
National Mango Board
National Watermelon Board
California Figs.
National Beef and Cattle Association
Sorridi Therapeutics Inc
E. & J. Gallo Winery



Yudai Huang received 3rd place in Emerging Leaders in Nutrition Science at the American Society of Nutrition 2024 Conference, Chicago, IL

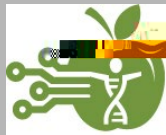
The Luminex xMAP INTELLIFLEX –An advanced multiplexing platform



An advanced multiplexing platform that delivers accurate and reliable protein measurement results.

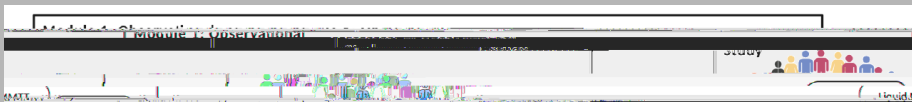
Designed for a 96- or 384-well high throughput format, the xMAP INTELLIFLEX system can save substantial time and sample volume.

INTELLIFLEX allows the user to view multiple analyte statistics concurrently. Combined with added heat map visualizations, this provides rapid insights into run performance in real-time.



Precision Health

Presented by the Office of Precision Health
part of the National Institutes of Health



Collaborative Projects with FDA

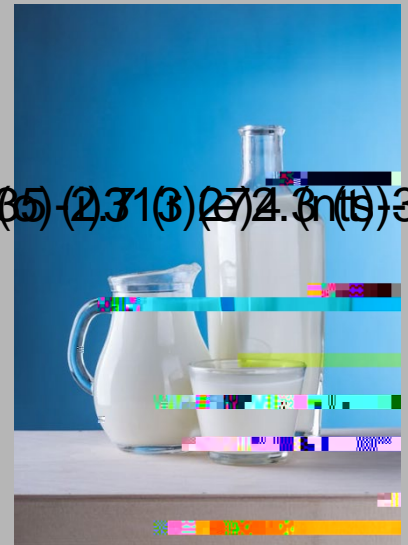
Relative absorption of fat-soluble vitamins (A and D) and minerals from select plant-based milks in human subjects

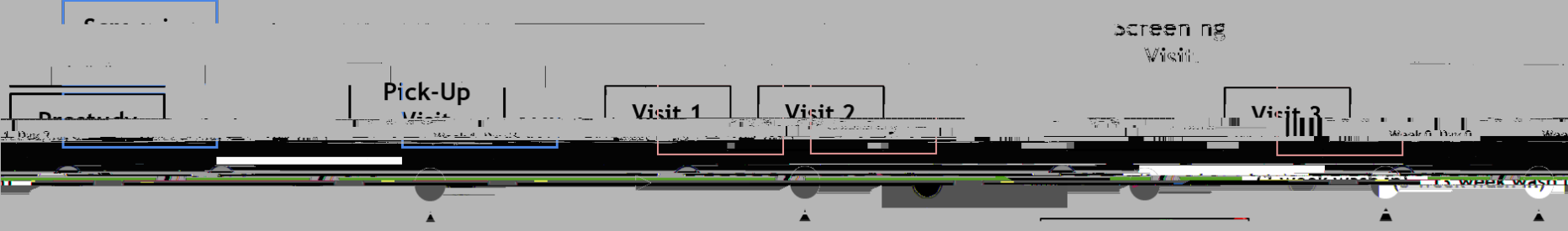
Plant based milk alternatives (PBMA) are becoming more popular with consumers.

Based on a study by the National Institutes of Health (NIH) in 2015, plant-based milks are becoming more popular with consumers.

body as they are consumed - milk

This study will test how well certain nutrients are taken up by the body after drinking milk or after drinking almond, soy, and oat milks.





Research Milestones and Updates

	Milestone	Timeline
1	Develop the Institutional Review Board (IRB) documents and other study-related documents.	March 31, 2023; completed
2	Subject recruitment to conduct research collecting samples for analyses	Feb 28, 2024; completed with a modification
3	Develop and validate LC-MS/MS method to determine concentrations of vitamin A and D in plasma/serum and urine.	September 30, 2023, ongoing
4	Develop and validate ICP-MS methods to determine concentrations of target minerals in human serum and urine	January 31, 2024, ongoing
5	Analyze collected plasma/serum and urine samples for select micro-nutrients using validated methods.	September 30, 2024
6	Data and statistical analysis to calculate relative bioavailability of select micro-nutrients after intake of PBMA	March 31, 2025
7	Complete draft report/manuscript for internal review at FDA and draft manuscript to a journal for publication	September 30, 2025

Thank You

Indika Edirisinghe, PhD



Our Team

Britt Burton-Freeman PhD, (Director)

Indika Edirisinghe, PhD

Amandeep Sandhu, PhD

Chelsea Pries, MS, LDN

Morganne Smith, MS

Yudai Huang, MS

Elizabeth Guzman, MS

Sameer Tunio, MD

Casey Weisfuss, BSs