DukeNUS Medical School

Signature Seminar Series

# Nutrient Limitation and the Human Gut Microbiome

## ABOUT THE LECTURE

Diet shapes the structure and function of the human gut microbiome. Here, I will share our group's work examing the microbial ecological forces influencing diet-microbiome relationships. I will also share our work exploring the need to personalize prebiotic therapies that target enteric bacteria. Finally, I will share a new genomic technique inspired by microbiome research that we have developed to assess food intake in an objective manner.

**Speaker:** **Associate Professor David Lawrence**
**Department of Molecular Genetics & Microbiology**
**Co-Director, Duke Microbiome Center**
**Duke University School of Medicine**



**Host:** **Prof Patrick Casey**
**Senior Vice Dean, Research**
**Duke-NUS Medical School**

**Date:** **Wednesday, 29 March 2023**

**Time:** **12.00 PM - 1.00 PM**
*(Light refreshments will be served at 11.30AM)*

**Venue:** **Duke-NUS Medical School**
**Meeting Room 7C, Level 7**

**Contact Person:** **Ms Kathleen Chan (kathleen.chan@duke-nus.edu.sg)**
**Duke-NUS Research Affairs Department**

## ABOUT THE SPEAKER

Dr. Lawrence David is an Associate Professor in Duke University's Department of Molecular Genetics and Microbiology and Co-Director of the Duke Microbiome Center. The David Lab studies relationships between diet, the gut microbiome and human health. The lab is also interested in engineering new tools at the interface of nutrition and microbiology, including building genomic approaches for tracking food intake and microfluidic techniques for high-throughput assay of microbial metabolism. Lawrence was a Junior Fellow at the Harvard Society of Fellows, and he received a Ph.D. in Computational & Systems Biology from the Massachusetts Institute of Technology and a B.S. in Biomedical Engineering from Columbia University. Lawrence has been named one of the 10 Scientists under 40 years old to watch by ScienceNews and his work has been recognized with innovator and investigator awards from the Burroughs Wellcome Fund, the Searle Scholars Program, and the Arnold & Mabel Beckman, Hartwell, Alfred P. Sloan, and Damon Runyon Foundations.

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