

# ‘Exploring and influencing host biochemistry through the microbiome’

## Dr. Dylan DODD

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**Date: July 29 (Mon) 2024**

**Time: 3 pm - 4 pm**

**Venue: Seminar Room #1, 2<sup>nd</sup> fl. IFRc Building**



Dr Dodd

<https://med.stanford.edu/profiles/dylan-dodd?tab=bio>

Chair: Kiyoshi Takeda (Director of IFRc)

**\*A credit seminar for the Graduate School of Medicine and the Graduate School of Frontier Biosciences**

Dr. Dylan Dodd completed his M.D. and Ph.D. degrees at the University of Illinois in Urbana-Champaign. His thesis research was in Professor Isaac Cann's laboratory in the Department of Microbiology, and focused on the molecular mechanisms for energy capture by gastrointestinal bacteria. Dylan then moved to Stanford where he completed residency training in Clinical Pathology. He continued at Stanford as an Instructor in Justin Sonnenburg's laboratory, where he studied how gastrointestinal bacteria contribute to a large pool of bioactive small molecules that impact host physiology.

### Publications

1. Liu Y, et al. A widely distributed gene cluster compensates for uricase loss in hominids. *Cell* 2023.
2. Pascal Andreu V, et al. gutSMASH predicts specialized primary metabolic pathways from the human gut microbiota. *Nat Biotech.* 2023.
3. Pruss KM, et al. Host-microbe co-metabolism via MCAD generates circulating metabolites including hippuric acid. *Nat Commun.* 2023.
4. Liu Y, et al. Clostridium sporogenes uses reductive Stickland metabolism in the gut to generate ATP and produce circulating metabolites. *Nat Microbiol.* 2022.