



# MMI 291 Seminar Series

Current Theme: Interdisciplinary Research  
Fall Quarter 2019 – CRN 51546



**Friday Seminar – 12:10-1 p.m.**

**“Metabolic Pathways in the Human Gut  
Microbiome”**

## Research

Dylan Dodd completed his M.D. and Ph. D. degrees at the University of Illinois in Urbana-Champaign. His thesis research focused on how gastrointestinal bacteria in the cow rumen and human gut capture energy from dietary polysaccharides. Dylan then completed residency training in Pathology at Stanford and a research fellowship in Justin Sonnenburg's laboratory studying how gastrointestinal bacteria contribute to bioactive small molecules that impact host physiology. He is now an assistant professor at Stanford in the Departments of Pathology and Microbiology & Immunology. His lab seeks to understand how microbial pathways in the gut could be leveraged to promote human health and treat disease.

## Publications

Microbial Contribution to the Human Metabolome: Implications for Health and Disease. Annual review of pathology. Van Treuren, W., Dodd, D. 2019

A gut bacterial pathway metabolizes aromatic amino acids into nine circulating metabolites. Nature. Dodd, D., Spitzer, M. H., Van Treuren, W., Merrill, B. D., Hryckowian, A. J., Higginbottom, S. K., Le, A., Cowan, T. M., Nolan, G. P., Fischbach, M. A., Sonnenburg, J. L. 2017

Modulation of a Circulating Uremic Solute via Rational Genetic Manipulation of the Gut Microbiota CELL HOST & MICROBE. Devlin, A. S., Marcobal, A., Dodd, D., Nayfach, S., Plummer, N., Meyer, T., Pollard, K. S., Sonnenburg, J. L., Fischbach, M. A. 2016

# November 8



**Dylan Dodd, M.D., Ph.D.**  
Assistant Professor  
Pathology, Microbiology and  
Immunology Department

Stanford University School of Medicine

**November 8, 2019  
12:10 – 1 p.m.  
GBSF 1005**

Medical Microbiology &  
Immunology  
School of Medicine

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We hope to see you there!