



## Impromptu Seminar #3

Keio University School of Medicine

**JKiC 1F** seminar room  
at the north end of the campus

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**Fri, December 15th, 2017**

**16:30-18:00**

# Jeremiah Faith

Assistant Professor of Genetics and Genomic Sciences,  
Assistant Professor of Medicine, Clinical Immunology  
Icahn School of Medicine at Mount Sinai

**“Reverse engineering the  
interactions between diet, gut  
microbes, and host physiology”**

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**(Host: K. Honda, Professor of Microbiology and Immunology)**

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Deciphering the functional importance of the gut microbiota on host health will foster an understanding of the combined influence of host genetics and host microbiome on disease susceptibility. In this lecture, I will discuss tools for quantifying the absolute microbiota and the application of these tools to identify microbiota-dependent and microbiota-independent influences of diet on intestinal physiology and disease susceptibility. I will discuss the impact of interpersonal microbiome variation on mucosal immune status as well as applications of gut microbes as immunotherapies.