**Genetic determinants of antibiotic efficacy in *Mycobacterium tuberculosis***

**Abstract:** Tuberculosis, caused by the bacterium *Mycobacterium tuberculosis* (Mtb), is the leading cause of death due to infectious disease. In this talk, I will describe: 1) our recent development of genome-scale CRISPR interference (CRISPRi) in this pathogen; and 2) how we are applying this tool to better understand how Mtb resists killing, both by the host immune system and antibiotics.

**Biography:** Jeremy M. Rock is an Assistant Professor and Head of the Laboratory of Host-Pathogen Biology at Rockefeller University. He received a BA in Molecular & Cellular Biology and Economics in 2004 from University of California, Berkeley, PhD in Genetics from the Department of Biology in 2012, from Massachusetts Institute of Technology, and Postdoctoral Fellow in the Department of Immunology and infectious Diseases (2017), at Harvard School of Public Health. He has held the Assistant Professor position at Rockefeller University since 2018. He is the recipient of the Irma T. Hirschi Career Scientist Award (2019), NIH Director’s New Innovator Award (2018).