

What do we study?

❖ Mycobacterial Infectious Diseases

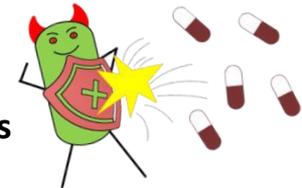
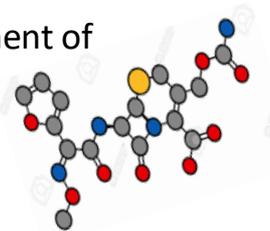


We use state-of-the-art genome-scale transcriptomic/proteomic/metabolomic approaches to understand how noncoding RNAs targeted by bacterial toxins influence **tuberculosis** and other **emerging mycobacterial infections**

❖ Antibiotic resistance and antibiotic development

We are studying **HOW mycobacterial pathogens become resistant to antibiotics**

We are using bacterial toxins as the basis for development of a **novel class of antibiotics** for tuberculosis treatment that are **less likely to develop resistance**



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Where is our lab?



School of Public Health Building - Busch Campus, Piscataway

Who funds our research?

- ❖ 2 active NIH RO1 grants – PI Woychik



Woychik Lab

Who are we?

August 2025



Nikita Amin



Mikhail Bass



Kylie Bond



Naisargi Patel



Safreen Sain



Tim Sherrier

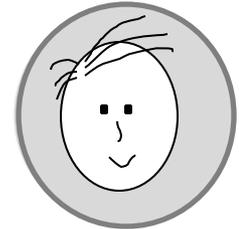


Eduardo Troian

7 PhD students



You?



What marketable skills for biotech will your MS or PhD degree provide?

You will learn how to prepare Next Generation Sequencing libraries from several RNA-seq protocols, learn how to evaluate the quality of libraries, troubleshoot when there are issues, prep and load samples on the Illumina sequencer, and learn bioinformatics to interpret the data. Recent lab members were specifically hired because of these skills!

Want to know more?

Website: woychiklab.com



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