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Biography

You are not alone - humans are each home to trillions of microbes that have a widespread impact on our physiology and predisposition to disease.

Our lab studies the role of these microbes in two major areas, pharmacology and nutrition, with a current focus on the role of gut microbial metabolism in influencing the predisposition to and treatment of heart disease, cancer, and autoimmune disease.

Our main two experimental approaches are gnotobiotics (germ-free and colonized mice) and metagenomics (culture-independent methods for studying microbial communities). We collaborate closely with other members of the rich UCSF microbiome community, including Michael Fischbach, Susan Lynch, and Katie Pollard.

Primary Thematic Area:

Virology & Microbial Pathogenesis

Secondary Thematic Area:

Immunology

Research Summary:

Impact of the human gut microbiome on pharmacology and nutrition

