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Research Focus

The intestinal microbiome consists of trillions of beneficial bacteria, which live in synergy with their human hosts. Such microorganisms enormously impact our health in ways that had been completely unanticipated. One aspect that is poorly understood is how bacteria can successfully colonize this very specialized intestinal environment in the first place, a process that starts shortly after birth.

For a detailed overview click: www.cisneros-lab.org

Improving patient outcomes:

Our team is interested in studying how bacteria from the intestinal microbiota, which under normal circumstances live in harmony with their human hosts, occasionally express phenotypes that cause disease. We use state of the art molecular biology, sequencing and genetic engineering to answer these questions.

Ultimately, our goal is to achieve an integrated understanding of health by studying the nature of the symbiotic coexistence of humans and microbes. Using experimental medicine approaches, we aim at harnessing the influence that the microbiome has on human physiology to design novel patient treatments for chronic inflammatory diseases and colorectal cancer.

Cisneros lab | microbiome | CRISPR-Cas | bacterial secretion |

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