Need Tools Used to Uncover and Decipher Host Gut Interactions and Communication

MOUSE MODELS
Conventional and Gnotobiotic
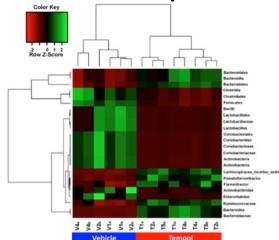
SEQUENCING
16S rRNA Amplicon Sequencing, Metagenomics, Metatranscriptomics

METABOLOMICS
NMR, LC-MS, GC-MS

BIOINFORMATICS

CHEMICAL DIALOG BETWEEN HOST AND MICROBIOTA

Diet

Pharmaceuticals

Toxins

Intestinal Microbiota

Microbial metabolites

hepatic metabolism

Intestinal epithelia

Lamina propria

Nuclear receptor signaling

Immune signaling

NR

NR

epithelial metabolism