

The gut microbiome function and network

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Gold statement

Metaproteomics reveals the function of the gut microbiome

Body

The gut microbiome is a complex system of thousands of microbes important to maintain our health. The gut microbiome has been associated with many diseases including obesity, diabetes, IBD, gut-brain axis, cardiovascular, cancer and others. Our understanding of the functions and regulations of the gut microbiome remains limited. The function of the gut microbiome is primarily performed by proteins expressed by the different microbes. Here we will present our latest research on the metaproteome of the gut microbiome, the roles of protein modifications, and the interactions between microbes.