



frontiers
Research Topics

**Plant Role in Human
Gene Expression
and Gut Microbiome
Regulation**

Frontiers in Genetics

The present Research Topic focuses on studies and methodological approaches that can shed light on the molecular mechanisms and biological processes of a possible cross-kingdom genetic interaction between plant RNA and human genes or the microbiome. It will also feature perspectives of the potential impact of these findings on the improvement of nutrition for human health, effects on the gut microbiome, and the therapeutic potential of these RNAs in the medical field.

This Research Topic includes, but is not limited to, the following aspects:

- Nutrigenomics, epigenomics, transcriptomics, and microbiome studies investigating a potential cross-kingdom genetic interaction between bioavailable plant nutrients and human gene expression or gut microbiome regulation
- Bioinformatics, computational biology, and machine learning models and applications that can aid big data analysis and research in this field

Call for papers deadline: 24 July 2020

For more information:

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