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Dietary Plant Origin Bio-Active Compounds, Intestinal Functionality and Microbiome

Guest Editor:

Dr. Elad Tako
USDA-ARS, Robert W. Holley Center for Agriculture and Health, Cornell University, Ithaca, NY 14853, USA

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Message from the Guest Editor

Dear Colleagues,

Plant-based diets contain metabolites that may impact on health and disease prevention. Most are focused on the potential bioactivity and nutritional relevance of several classes of phytochemicals. Intestinal bacterial activity may transform complex compounds into simple metabolites. Prebiotics selectively promote proliferation and/or activity of health-promoting bacterial populations in the colon. Various pulse seed soluble extracts are responsible for improving gastrointestinal motility, intestinal functionality and morphology, and mineral absorption. Several phenolic acids and other phytochemicals affect the expression and activity of enzymes involved in the production of inflammatory mediators of pathways thought to be important in the development of gut disorders. However, it is still unclear as to which of these compounds are beneficial to gut health. Hence, the aim of the Special Issue is to explore the interactions between dietary plant origin bioactive compounds, their potential effects on the intestinal bacterial populations, and overall intestinal functionality and gut health.

Dr. Elad Tako
Guest Editor

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Contact Us

Nutrients Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nutrients
nutrients@mdpi.com
𝕏@Nutrients_MDPI