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Current Status of Research on Gut Metabolites and Microbiota

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Message from the Collection Editor

Dear Colleagues,

Metabolites are small molecules that derive from cell metabolism. Omics approaches, especially metagenomics combined with metabolomics, have significantly contributed to the study of the function of critical metabolites for health, such as short-chain fatty acids, bile acids, amino acids, and polyamines, and to the identification of their producers. However, our knowledge of the ecological web of metabolic interactions is filled with gaps due to the ecological complexity of the gut microbiome–host interplay. The area of microbiome metabolomics is promising and in expansion, especially regarding its therapeutic applications. We thus invite contributions to this Special Issue in the form of original research articles, case reports, short communications, or review papers that cover any aspect of gut metabolites and the gut microbiome, including new research, new data, novel methodologies, and future perspectives.



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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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