



Bugs and Drugs—the Gut Microbiome as Hidden Metabolic Organ and Its Role in Personalized Pharmacotherapeutics

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Message from the Guest Editors

Dear Colleagues,

Pharmacomicrobiomics is a new, dynamically developing field of medicine. The microbiome enzyme apparatus contributing to the intestinal ecosystem is partially responsible for the metabolism of xenobiotics, including drugs and dietary supplements. This activity may lead to several enzymatic reactions potentially responsible for a given therapeutic effect or lack of drug efficacy. The metabolites of the intestinal microbiota may compete with drugs for enzymes or receptors involved in therapeutic pathways of common medicines.

With this Special Issue in the *Journal of Clinical Medicine*, we focus on studies exploring the amazing interactions between gut microbes and the variety of medicine and dietary supplements commonly used in everyday clinical practice. We invite authors to share the results of their research. We welcome original and review papers on topics related to pharmacotherapy or any other therapeutic modalities with the potential to influence and interact with gut microbiota. Last but not least, therapies aimed at improving the metabolic status of an individual through microbiota modulation are welcome.

Guest Editors





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