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Pharmacomicrobiomics in Non-communicable Disease

Guest Editor:

Prof. Dr. Amedeo Amedei
Department of Experimental and Clinical Medicine, University of Florence, Florence, Italy

Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

Pharmacomicrobiomics is a new branch that deals with investigating the interactions between the microbiome and the response to xenobiotics, defined as the effect of changes in the microbiome on drug action and toxicity. Noncommunicable diseases (NCDs) are the result of a combination of genetic, physiological, environmental and behavioral factors.

Recent data have shown that one in four drugs that we routinely take to treat nonintestinal diseases alter the gut microbiome, causing adverse events, with an increase in bacterial resistance. This complexity means that pharmacological studies require a molecular biology approach studying cell signaling and the complex host–microbe–drug interactions. Consequently, investigating the concept of pharmacomicrobiotics is important for understanding how the microbiota is involved in drug responses.

Hence, the purpose of this Special Issue is to provide an overview of the relationship between pharmacomicrobiomics and NCDs in order to better understand the molecular mechanisms and how this new branch could lead to a new therapeutic approach.

Prof. Dr. Amedeo Amedei
Guest Editor

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Special Issue

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Prof. Dr. Felipe Fregni
1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

Message from the Editor-in-Chief

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Biomedicines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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