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Microbiota and Microecological Health in Humans

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Message from the Guest Editors

The human body is a complex microecology environment consisting of microorganisms that symbiotically dwell in different anatomic districts from the early neonatal state throughout the whole lifespan. Through the production of different metabolites, they perform many indispensable functions that define and contribute to human health. Being critically regulated by a host's genetics, as well as stochastic and environmental factors, the composition and richness of microbiota are highly dynamic and the resulting changes significantly influence physiological and pathological processes in the host. In particular, the nutritional regime exerts short- and long-term effects on microbial communities via molecular mechanisms that are still elusive. This suggests that an extensive comprehension of human–microbiota ecosystems is necessary in order to promote and maintain health, as well as to prevent or attenuate the course of the disease.



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