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Genetics and Genomics of Metabolism in Microorganisms

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Message from the Guest Editors

Dear Colleagues,

Microorganisms are a dominating form of life on Earth. In addition to basic metabolism, microorganisms are able to synthesize and/or degrade sophisticated molecules. The growing availability of next-generation sequencing allows for tracking genetic bases of metabolisms not only in a single microbial cell, but also in whole communities. Genome-wide analysis provides information on evolutionary traits of microorganisms and the possible modes of life of the unculturable ones. This Special Issue intends to address genes as a “cookbook” of microbial metabolism, providing an overview of recent developments in the field and their future implications in basic and environmental microbiology, as well as biotechnology. Particular attention is paid to metagenomic and metatranscriptomic diversity, the regulation of microbial transcriptomes by environmental factors and genetic bases, and the transcriptional regulation of synthesis/degradation of products by microorganisms.

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Dr. Benedykt Wladyka
Guest Editors



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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