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## **Genetics and Genomics of Microbiome**

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## **Message from the Guest Editors**

Dear Colleagues,

In recent years, tremendous progress has been made in synthetic biology, enabling the production of biochemicals, therapeutics, and food ingredients using a variety of host organisms. Synthetic biologists have enabled us to engineer microbial cells for useful purposes by rewriting and editing their genomes. With the emergence of a variety of powerful genome engineering techniques, such as CRISPR/Cas systems, our ability to engineer microbial genomes has substantially improved in recent years. However, rationally designing and reshaping a genome to produce the desired phenotype remains enormously difficult, and more genome engineering strategies need to be explored. To explore this fast-growing field, this Special Issue will cover the bioinformatics of the microbiome, the latest genome engineering tools, other synthetic biology techniques, and their applications to give rise to improved or novel phenotypes in microorganisms.













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### **Editor-in-Chief**

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# Message from the Editor-in-Chief

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