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## Microbiome Responses to Perturbations: Understanding, Prediction, and Engineering

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Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editors

This special issue on "Microbiome Responses to Perturbations: Understanding, Prediction, and Engineering" invites experts in the related fields to contribute original research articles, as well as reviews, to address current challenges and issues in further advancing our understanding to better predict the effect of perturbations on the dynamics and function of microbial communities towards system-level engineering. Topics include, but are not limited to:

- Experimental studies on a microbial community's response to perturbations
- Computational, modeling, or data integration methods for predicting microbial interactions and community dynamics
- Theoretical studies for revealing the design principles of microbial communities
- Data-driven modeling for discovering perturbation-specific molecular signatures in microbial communities
- Synthesis of functional consortia for controllable community function
- Rational approaches to microbiome engineering



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# Special Issue



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## Message from the Editor-in-Chief

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