## **Special Issue**

## Gene Expression Regulation in Microorganisms: Molecular Mechanisms, Systems and Synthetic Approaches

## Message from the Guest Editor

In last few decades a substantial progress has been made in the understanding of mechanisms of gene expression regulation at the molecular level. Gene expression regulation is now considered a multidimensional process involving signaling pathways and epigenetics along with transcriptional, posttranscriptional and translational regulation. Systems biology enables to represent large sets of components and their interactions as a network. This information then can be utilized to design and engineer biological systems for synthetic biology applications. However, whereas genomics, transcriptomics, proteomics, and metabolomics data allows to build and explore metabolic and some signaling networks, the knowledge of gene expression regulatory components and their functions is still far from complete. This limits the development and availability of comprehensive gene regulatory networks and overall understanding of gene expression regulation.

We invite authors to submit both original research, and review articles that focusses on molecular mechanisms controlling gene expression, as well as use and applications of systems and synthetic approaches for exploring gene regulation.

## **Guest Editor**

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#### Deadline for manuscript submissions

closed (31 March 2022)



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## Message from the Editor-in-Chief

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

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