

Special Issue

ncRNA-Mediated Regulatory Networks and Their Role in the Epigenetic Landscape of Development and Disease

Message from the Guest Editors

Gene regulation is a complex biological process involving various regulators across multiple levels, its dysregulation is closely associated with disease and differentiation processes. In gene regulation, transcription factors (TFs) and microRNAs (miRNAs) have been recognized to play important roles at the transcriptional and post-transcriptional levels, respectively.

We now have evidence that the interplay amongst microRNAs and, more generally, ncRNAs and TFs may create network motifs that finetune gene regulation in mammals by controlling the impact of noise on gene expression.

Investigating the interplay between TFs and miRNAs/ncRNAs in regulatory circuits and the ways in which they reduce or amplify noise to produce specific cell states are of interest.

For this Special Issue, we welcome the submission of reviews and original research articles regarding the role of gene regulatory circuits mediated by miRNAs/ncRNAs and TFs in development and disease, with the aim of producing a dedicated article collection focusing on their action and dysregulation in physiological and pathological processes.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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