



## Yeast Models for Gene Regulation

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### Message from the Guest Editors

Gene transcription, an initial step of gene regulation, is thus affected by chromatin configuration through the accessibility of transcription factors. The selection of transcription factor binding sites is further regulated through other layers of chromosome geometry, including 3D genome architecture. In addition, the transcribed mRNA is targeted for the next phases of gene regulation. A variety of RNA-binding proteins are recruited to the newly synthesized mRNA and modulate their expression level via processing, export and decay rate regulation. mRNA–protein complexes (mRNPs) are dynamically remodeled for establishing the cytoplasmic regulations (localization, translation and degradation). The final output of gene expression level is strictly regulated by the interconnection of these regulations. Yeast models with powerful genetics and biotechnologies have contributed to our understanding of these complicated biological processes for decades. This Special Issue is focused on all phases of yeast gene regulation and collects research articles and reviews for recent findings in gene regulation.





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