



## Yeast Models in Genetic and Molecular Research

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

Genetics is a powerful approach that has brought about many revolutionizing insights into cellular physiology at the molecular level. Two conventional yeasts, have been especially useful in genetic research owing to the ease of experimental manipulation. These yeasts host a high frequency of homologous recombination that has enabled the ease of precise gene knock-out and knock-in of point mutations, and alongside the ease of analysis of the meiotic segregation of genetic alleles, it has led to a strong understanding of gene–gene interaction. Genetic interaction is now routinely addressed at the genome scale via the application of whole-genome sequencing and high-throughput platform technologies. This Special Issue aims to publish papers that employ yeast as models to reveal novel eukaryotic molecular regulations including cell cycle regulation, DNA repair, epigenetics, membrane transport, and biochemical flux. It also welcomes reports on the genetic manipulation of various yeast systems to model physiological processes and diseases in humans, as well as the production of useful metabolites for commercial and industrial purposes.





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