

Special Issue

Yeast Models in Genetic and Molecular Research

Message from the Guest Editor

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.

Guest Editor

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Message from the Editor-in-Chief

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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