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Humanized Yeast Models

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Message from the Guest Editors

Unicellular eukaryotes (*Saccharomyces cerevisiae* and *Schizosaccharomyces pombe*) are consolidated models in basic research. Their genetic tractability and ease of manipulation pushed these microorganisms to a leading position in the post-genomic era, providing key information on the molecular mechanisms that govern conserved cellular modules, pathways and functions. Thus, heterologous expression in yeast is a powerful strategy to address the structure–function relationship in human gene products.

Multiple humanized yeast models have been developed with various purposes, either by complementing yeast mutants with human genes or by implementing functions or pathways in yeast that are naturally missing in lower eukaryotes. The yeast cell allows us to study the behavior of human proteins in the absence of other input characteristic of higher cells, but within a cellular environment.

This Special Issue will cover research on the design, implementation or exploitation of yeast-based models to study human proteins, based on their heterologous expression coupled to the genetic versatility of yeast models, with emphasis on genes and proteins related to human pathologies.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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