Special Issue

Humanized Yeast Models

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.

Guest Editors

Prof. Dr. Victor J. Cid

Dpto. de Microbiología y Parasitología, Universidad Complutense de Madrid, Madrid, Spain

Prof. Dr. Faustino Mollinedo

Laboratory of Cell Death and Cancer Therapy, Department of Molecular Biomedicine, Centro de Investigaciones Biológicas (CIB), Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain

Deadline for manuscript submissions

closed (1 December 2020)

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

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Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

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