Special Issue

Yeast Applications in Gene Mutation

Message from the Guest Editor

Yeast is an excellent model to investigate the molecular mechanisms and genetic control of mutations and, in general, chromosomal instability. Over the years, yeast has given a valuable contribution to our understanding biological relations between mutagenesis and cancer. Moreover, yeast-based functional assays have been developed to characterize cancer-associated mutations in several tumor-suppressor genes; “humanized” yeast strains have been constructed and validated in order to investigate the genetic control of fundamental biological processes and their association to human diseases. Therefore, yeast represents a very helpful tool to investigate DNA repair and mutagenesis pathways that are involved in gene mutation. Recently, as cutting-edge research, several high-throughput yeast screenings have been reported where up to several thousands of mutations have been generated and analyzed simultaneously. This Special Issue will present recent advances on genetic approaches in yeast to study and characterize gene mutations involved in biological processes and diseases. Research articles and reviews will be considered for publication in this Issue.

Guest Editor

Dr. Alvaro Galli

Yeast Genetics and Genomics Group, Laboratory of Functional Genetics and Genomics, Institute of Clinical Physiology CNR, Via Moruzzi 1, 56125 Pisa, Italy

Deadline for manuscript submissions

closed (1 July 2021)

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/si/49702

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

mdpi.com/journal/genes

MDPI

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/journal/genes

MDPI

About the Journal

Message from the Editor-in-Chief

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank:

JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))