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Yeast Applications in Gene Mutation

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submissions:

closed (1 July 2021)

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.



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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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