

Special Issue

Genetics and Genomics of Psychrophilic and Psychrotolerant Microorganisms

Message from the Guest Editors

This Special Issue of Genes aims to present the results of genetic and genomic analyses of cold-active bacteria and archaea as well as works utilizing transcriptomic, proteomic, or metabolomic analyses. We are especially interested in investigations of various mechanisms enabling the adaptation of cold-active microorganisms to extreme temperature conditions, i.e., permanent cold, as well as other stressors like nutrient deficiency, presence of toxicants, and high salinity. Comparative genomics works providing considerable new knowledge about the diversity of specific taxa of cold-active microorganisms will also be included. Finally, as cold-active microorganisms are highly desired from a biotechnological point of view, papers describing applications of psychrotolerants or psychrophiles as microbial cell factories, their usage in environmental biotechnologies and industry, as well as the development of novel tools for genetic manipulations in this group of microorganisms are also of interest.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2021)

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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?

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