Special Issue

Genomics of Cyanobacterial Adaptability and Diversity

Message from the Guest Editors

Cyanobacteria constitute the one and only prokaryotic clade in the biosphere that performs oxygenic photosynthesis. In the long evolutionary process, they thrived on diverse systems for billions of years, changed the early environment of Earth, and thus built a broad way for the emergence of more complex life.

In this Special Issue on cyanobacteria, we aim to compile review articles and original research that address ecological and evolutionary questions and novel species of cyanobacteria from the perspective of genomics. All potential habitats of cyanobacteria, including planktonic, benthic, terrestrial, aericolous, as well as industrial systems, are considered to fall within the scope. We invite submissions that discuss genomic features, the expansion or streamlining of gene families, and evolutionary events (e.g., horizontal gene transfer), and their functional consequences for adaptability under different environments. Furthermore, studies using metagenomic/multi-omics approaches to link the complex phylogeny of cyanobacteria to their roles of ecosystem functionality are also encouraged.

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Deadline for manuscript submissions

closed (20 September 2023)

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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

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