

Special Issue

Genome Mining for Biosynthetic and Biodegradation Applications

Message from the Guest Editor

Microorganisms play essential and irreplaceable roles in the ecosystem as decomposers, which includes the removal of xenobiotic substances and pollutants from the environment. Microbes have also been a major source of various secondary metabolites such as antibacterial, antifungal, antiviral, antiparasitic, antitumor, herbicidal, and immunomodulating compounds. Traditional approaches to excavate such activities or compounds are primarily cultivation-based, while identification of the corresponding genes and gene clusters for biosynthesis or biodegradation is an independent subject of study, both of which have taken much time and effort. For this Special Issue, original research or review articles on the following topics are invited: genome mining for discovery of novel natural products, genome-based in silico analysis of biodegradation, methodology for in silico analysis of genomes in relation to biosynthesis or biodegradation potential, etc.

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2021)

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Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



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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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