

Special Issue

Genomics, Evolution, Epidemiology and Tools for Microbiome Research

Message from the Guest Editor

We would like to invite you to participate in this Special Issue on “Genomics, Evolution, Epidemiology and Tools for Microbiome Research”.

As we confront global challenges such as emerging pathogens, antimicrobial resistance, and environmental pollution, the integration of genomics and evolutionary principles is essential for developing effective strategies to safeguard human health and sustain ecosystems. This Special Issue aims to showcase high-quality research, reviews, methods and perspectives on key topics, including microbiome genomics and evolution, metagenomics in epidemiology, and phylogenetics. We are particularly interested in studies on pathogen comparative genomics, and antimicrobial resistance using metagenomics methods. Contributions that highlight the development and application of bioinformatics tools and methods, as well as those focused on pathogen surveillance, including viruses, are highly encouraged. Additionally, we welcome submissions exploring the use of marker genes in systematics and taxonomy, and the inference of causal variants in environmental and antimicrobial resistance phenotypes.

Guest Editor

Dr. Ayixon Sánchez-Reyes

Investigador por Mexico-Institute of Biotechnology, National Autonomous University of Mexico, Cuernavaca, Mexico

Deadline for manuscript submissions

closed (20 August 2025)

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

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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?

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Experimental Cancer Therapeutics, The University of Alabama at
Birmingham, 1825 University Blvd., SHEL 814, Birmingham, AL 35294-
2182, USA

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