



genes



an Open Access Journal by MDPI

Coevolution of Hosts and their Microbiome

Guest Editors:

Dr. Philipp Heeb

Dr. Alexandre Jousset

Dr. Ville-Petri Friman

Dr. Morten Tønnsberg Limborg

Deadline for manuscript
submissions:

closed (31 May 2018)

Message from the Guest Editors

The evolution of life-history traits in plants and animals has taken place in the midst of complex microbial communities. Biology is undergoing a fundamental reshaping where the phenotypic expression of individuals needs to be considered as the combined expression of the host and its associated microbial genomes, defined as the "holobiont" (i.e., the host and its microbiota). These concepts have wide ranging implications and have led to the realization that multicellular organisms coevolve with their microbial symbionts. Although host-microbe interactions can be understood by ecological processes, much less is known about the significance of evolutionary and eco-evolutionary processes. Given its complex structure, understanding the specific roles, adaptability, and functions provided by the microbiome is a new scientific frontier. This Special Issue will reflect recent developments in molecular and statistical techniques to discuss theoretical concepts and empirical evidences on the role of the microbiota in holobiont evolution.



mdpi.com/si/12508

Special Issue



genes



an Open Access Journal by MDPI

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

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?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))

Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](https://twitter.com/Genes_MDPI)