Special Issue

Genomics of Bacterial Metal Resistance

Message from the Guest Editors

Bacteria develop metal resistance in a variety of environments, both natural and anthropogenic. Metal resistant bacteria are routinely isolated from natural metal ion rich environments as well as metal polluted sites from mining/refining/manufacturing operations. Additionally, we now recognize an increased metal load from our dense city populations leading to high metal accumulation in water treatment plants. Further there is now an increased use of metal-based antimicrobials to help with solutions to the antimicrobial resistance era threats. All these metal load situations lead to bacteria evolving metal resistance. Metal ion resistance may be through specific gene(s) or operon(s) evolved for resistance towards a specific metal. Or the resistance may be due to a combination of genes expressed uniquely that leads to a physiology of either specific or multimetal resistance. Finally, evolving metal resistance may also lead to develop antibiotic resistance. We kindly invite researchers working on any of these areas to submit their original research or review articles to this Special Issue.

Guest Editors

Dr. Alessio Mengoni

Prof. Dr. Carlo Viti

Prof. Dr. Raymond J. Turner

Prof. Dr. Li-Nan Huang

Deadline for manuscript submissions

closed (30 September 2018)

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 5.9
Indexed in PubMed

mdpi.com/si/12998

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

mdpi.com/journal/genes

MDPI

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 5.9
Indexed in PubMed

mdpi.com/journal/genes

MDPI

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

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))