



genes



an Open Access Journal by MDPI

Evolutionary Genetics of *Streptococcus pneumoniae*

Guest Editors:

Dr. Eric Miller

Haverford College, Haverford, PA,
USA

Dr. Lauren Cowley

Milner Centre for Evolution,
University of Bath, Bath BA2 7AY,
UK

Deadline for manuscript
submissions:

closed (31 July 2019)

Message from the Guest Editors

Understanding the biology of *Streptococcus pneumoniae* will allow for improved public health policies for a disease that kills up to 1 million children each year globally. We must also understand how this biology changes through time to help prevent pneumococcal infections and deaths; how does *S. pneumoniae* evolve? Additionally, we can gain insight into general trends of genomic evolution in bacteria using pneumococcus as a genomic model organism due its particular set of characteristics: its natural competence and high rates of recombination; the large number of diverse, sequenced genomes, especially through The Global Pneumococcal Sequencing Project; and the defined selection pressures acting on pneumococcal populations in the form of antimicrobial resistance and vaccine-serotype replacement.

We are interested in examining any aspect of pneumococcus evolution, such as temporal changes and differences between populations, explorations of the evolution of microbial community dynamics, competence, antagonistic interactions, antimicrobial resistance, and serotype replacement and additionally, we welcome explorations into the mechanics of its genome evolution.



mdpi.com/si/18271

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The
University of Alabama at
Birmingham, 1825 University
Blvd, SHEL 814, Birmingham, AL
35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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 & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
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)