Special Issue

Algorithms and Workflows in RNA Bioinformatics

Message from the Guest Editors

RNA is central to the majority of cellular processes in all domains of life, and the number of noncoding RNAs is on par with those coding for proteins. Common to most RNAs is that their function is determined by structure. Computational methods to study RNA structure are therefore important tools for elucidating the function of RNAs. Furthermore, RNAs interact with other RNAs and also with proteins, forming complex regulatory networks. Assessing these computationally enables a holistic view on cellular regulation. This Special Issue in Genes on "Algorithms and Workflows in RNA Bioinformatics" addresses the methodological and algorithmic developments that help to efficiently analyze the huge amount of available data, to study the structure of RNA in great detail, and to elucidate RNA function and its integration into large cellular networks. Case studies are also welcome but should specifically address limitations/shortcomings of current computational approaches.

Guest Editors

Prof. Dr. Björn Voß

Computational Biology, Institute of Biochemical Engineering, University of Stuttgart, Allmandring 31, 70569 Stuttgart, Germany

Prof. Dr. Peter F. Stadler

Bioinformatics, Institute of Computer Science, University of Leipzig, 04109 Leipzig, Germany

Deadline for manuscript submissions

closed (15 January 2021)

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/si/45153

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 2.8
CiteScore 5.5
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
Department of Pathology, 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))