

Special Issue

Artificial Intelligence Applications in Genetics and Genomics

Message from the Guest Editor

We welcome reviews, original articles, and short communications covering the development or application of machine learning (ML) and artificial intelligence (AI) for genetic or genomic data analysis. In particular, we are seeking showcases where traditional approaches fell short either in gaining insights or processing the data and subsequently new ML or AI approaches had to be developed. Data analysis domains may include omics data analysis (genomics, transcriptomics, methylomics), ML/AI-based clinical or agricultural association studies for diseases or traits, genome engineering or synthetic biology applications, as well as biological feature prediction or sample classification approaches. This Special Issue showcases trailblazing software and innovative analytics to inspire the increased use of ML and AI in genetics and genomics. We look forward to your contributions and are happy to offer support around topic clarification or enabling reproducible research practices (e.g., through cloud usage).

Guest Editor

Dr. Denis Bauer

1. Australian e-Health Research Centre, Commonwealth Scientific and Industrial Research Organisation, North Ryde 3169, Australia
2. Department of Biomedical Sciences, Faculty of Medicine and Health Science, Macquarie University, Macquarie Park 2109, Australia
3. Applied BioSciences, Faculty of Science and Engineering, Macquarie University, Macquarie Park 2109, Australia

Deadline for manuscript submissions

closed (31 May 2021)

G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/61190

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

[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



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))