



*genes*



an Open Access Journal by MDPI

## Application of Bioinformatics in Plants and Animals

Guest Editors:

**Prof. Dr. Atmakuri  
Ramakrishna Rao**

Indian Council of Agricultural  
Research, New Delhi 110001,  
India

**Dr. Tanmaya Kumar Sahu**

Division of Crop Improvement,  
ICAR—Indian Grassland and  
Fodder Research Institute, Jhansi  
284003, India

Deadline for manuscript  
submissions:

**closed (20 July 2023)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue on “Application of Bioinformatics in Plants and Animals” aims to (i) provide potential research findings from the application of bioinformatics in plant and animal -omics for trait improvement, (ii) establish a link between computational and biological researchers for sharing their pool of knowledge, and (iii) enlist novel tools and techniques available in public domain for genomic and phenotypic data analyses. This Special Issue will cover a wide range of issues from interdisciplinary domains and provide insights into cutting-edge research topics such as application of artificial intelligence, high-dimensional genome data analysis, computational algorithms, and big data analytics for trait improvement. Solicited in this issue are original research papers on novel methods and algorithms for analysis of sequencing and phenotypic data, novel application of tools and techniques for unraveling complex trait phenomena, and prediction servers and genomic databases of crop, animal, insect, fish, and microbial species. The Special Issue also invites critical reviews on methods and techniques for phenomics data analysis.



[mdpi.com/si/147360](https://mdpi.com/si/147360)

# 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 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](http://www.mdpi.com)

[mdpi.com/journal/genes](http://mdpi.com/journal/genes)  
[genes@mdpi.com](mailto:genes@mdpi.com)  
[X@Genes\\_MDPI](#)