



biology



an Open Access Journal by MDPI

Multi-omics Data Integration in Complex Diseases

Guest Editors:

Dr. Min Zhao

School of Science, Technology
and Engineering, University of the
Sunshine Coast, Maroochydore,
QLD DC 4558, Australia

Dr. Ruifeng Hu

Brigham and Women's Hospital,
Harvard Medical School, Boston,
MA 02115, USA

Dr. Dario Di Silvestre

Institute for Biomedical
Technologies-National Research
Council (ITB-CNR), Via Fratelli
Cervi 93, 20090 Segrate, MI, Italy

Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

Dear Colleagues,

Each year, complex genetic diseases are responsible for the deaths of millions worldwide. Generally, genetic changes may have effects on multiple levels such as gene expression change, post-transcriptional dysregulation, protein expression change and mis-localization. Despite developments in large-scale genomics, transcriptome and proteomics technologies, it is still challenging to interpret molecular intricacies and variations at multiple molecular levels. Therefore, multi-omics-based data integration is the critical step to advance our understanding of molecular mechanisms for human disease.

Therefore, this Special Issue intends to cover manuscripts that provide valuable insight for both basic and clinical researcher communities. **Particularly, we encouraged the submissions about: (1) molecular insights into the common and unique mechanism using multiple omics technologies; (2) novel computational frameworks for genetic variant classification and functional evaluation; (3) practical omics-guided diagnosis and prognosis treatment strategies.**

Guest Editors



mdpi.com/si/97041

Special Issue



biology



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Biology*) / CiteScore - Q1 (*General Agricultural and Biological Sciences*)

Contact Us

Biology Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biology
biology@mdpi.com
[X@Biology_MDPI](https://twitter.com/Biology_MDPI)