

## Special Issue

# New Applications of Computational Biology and Bioinformatics

### Message from the Guest Editors

The unstoppable advancement of biomedical technologies, and, in particular, those related to the production of omics data, has led to a rapid advancement in all areas of biology and medicine and for all kingdoms of life. At the same time, the need for new tools to support the management and analysis of the data produced also continues to grow and open up new research horizons. In this context, bioinformatics provides tools and pipelines to facilitate the elaboration of biomedical data, and computational biology helps to improve our understanding and characterization of biological systems. In this Special Issue, we invite submissions exploring highly innovative applications in the fields of bioinformatics and computational biology. Potential topics include, but are not limited to, the following:

- New algorithms and pipelines for biomedical data analyses;
- Approaches for integrated biomedical data analyses (omics, bioimages, clinical and lifestyle data);
- New databases and collections of biomedical resources;
- Innovative applications of artificial intelligence to biomedical issues;
- High-throughput omics data analyses;
- Health-care applications.

### Guest Editors

Dr. Arianna Consiglio

Institute for Biomedical Technologies, National Research Council,  
70126 Bari, Italy

Dr. Flavio Licciulli

Institute for Biomedical Technologies, National Research Council,  
70126 Bari, Italy

### Deadline for manuscript submissions

closed (31 July 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/109553](https://mdpi.com/si/109553)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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

[appls](https://appls.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )