

Special Issue

Application of Artificial Intelligence for Medical Research

Message from the Guest Editor

In the enlightened times of the postgenomic era, we could get a large quantity of omics data such as genome, epigenome, transcriptome, proteome, medical images with detailed clinical information. However, it was technically difficult to efficiently analyze enormous medical data in an integrated manner until recently. On the contrary, the current progress of the artificial intelligence (AI) technology, which is mainly based on the development of Machine Learning and computer performance, enables the integrated analysis of medical big data. In particular, deep learning, which is part of a broader family of Machine Learning methods based on learning data representations, is responsible for many of the recent breakthroughs in AI, and it has already been reported that deep learning outperformed humans in many tasks. With this Special Issue, we aim to cover topics on application of artificial intelligence for medical research, in particular focusing on integrated analysis of medical omics data using Machine Learning and Deep Learning. The submissions presented in this Special Issue will include review manuscripts, research manuscripts, and short contributions.

Guest Editor

Dr. Ryuji Hamamoto

National Cancer Center Research Institute, Tokyo, Japan

Deadline for manuscript submissions

closed (31 October 2020)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8

CiteScore 9.2

Indexed in PubMed



mdpi.com/si/30134

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

[mdpi.com/journal/
biomolecules](http://mdpi.com/journal/biomolecules)





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
biomolecules](http://mdpi.com/journal/biomolecules)

About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, 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, CAPPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)

