



life



an Open Access Journal by MDPI

Identification of Novel Disease Mechanisms and Biomarkers Using High-Throughput Sequencing Techniques

Guest Editors:

Dr. Hua Li

Dr. Lei Shi

Dr. Jun Wu

Dr. Shoudan Liang

Deadline for manuscript submissions:
closed (30 June 2022)

Message from the Guest Editors

With the rapid development of sequencing techniques, high-throughput sequencing (HTS) is now revolutionizing different aspects of life science and clinical study. The millions of sequencing reads produced by HTS could determine various mutations at the genomic level, accurately quantify gene expression at the transcriptomic level, and identify histone or DNA modification at the epigenomic level. With HTS, various disease (e.g., cancer, diabetes, and arthritis) markers have been developed at different omics levels, which have been used for disease diagnosis, disease prevention, and the prediction of treatment effects. The quickly acquired multi-omics data, together with newly developed algorithms, provide an excellent chance to reveal novel disease markers and the underlying mechanisms. The aim of this research topic includes:

- (1) Developing new disease markers at various omics levels using high-throughput sequencing; and
- (2) Using omics data to reveal new mechanisms for disease occurrence or development.

This topic covers a broad spectrum of interests, and studies based on wet lab or dry lab results are all welcomed.



mdpi.com/si/95030

Special issue



life



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us

Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)