

Special Issue

RNA-Seq: Data Analysis Methods and Applications

Message from the Guest Editors

RNA-Seq has become the method of choice in a wide variety of life sciences applications because of the feasibility to combine in a single high-throughput sequencing assay both identification of transcripts and quantification of their expression. Despite the extensive popularity of RNA-seq, several challenges are associated with the followed workflow in data exploration from the initial experimental design, quality control, transcriptome assembly and read alignment/mapping to downstream statistical and bioinformatics data analysis involved in differential transcript/gene expression, and functional analysis or integration of RNA-seq data with data from other multi-omics methodologies. This Special Issue on "RNA-Seq: Data Analysis Methods and Applications" aims to attract original contributions that address these challenges in the context of different application purposes and provide the latest achievements, advancements or improvements in the state-of-the-art-relevant to this active field of systems biology. Literature reviews as well as innovative studies and protocols on these RNA-Seq topics will be considered for publication. We look forward to receiving your article.

Guest Editors

Dr. Heleni Loutrari

First Department of Critical Care Medicine and Pulmonary Services,
Evangelismos Hospital, School of Medicine, National and Kapodistrian
University of Athens, Athens, Greece

Mr. Panagiotis Agioutantis

1. School of Chemical Engineering, National Technical University of
Athens, Biotechnology Laboratory, Athens, Greece
2. Evangelismos Hospital, 1st Department of Critical Care Medicine &
Pulmonary Services, School of Medicine, National and Kapodistrian,
University of Athens, 3 Ploutarchou Street, 10675 Athens, Greece

Deadline for manuscript submissions

closed (25 October 2022)



Methods and Protocols

an Open Access Journal
by MDPI

Impact Factor 2.0
CiteScore 3.9
Indexed in PubMed



mdpi.com/si/55241

Methods and Protocols
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mps@mdpi.com

mdpi.com/journal/

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





Methods and Protocols

an Open Access Journal
by MDPI

Impact Factor 2.0
CiteScore 3.9
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Methods and Protocols (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

Editor-in-Chief

Prof. Dr. Fernando Albericio

1. School of Chemistry and Physics, University of KwaZulu-Natal,
Durban, South Africa

2. Department of Organic Chemistry, University of Barcelona,
Barcelona, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubMed, PMC, CAPus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Biochemistry, Genetics and Molecular Biology (miscellaneous))