Special Issue

Latest Advances in Comparative Genomics

Message from the Guest Editor

Comparative genomic studies reveal similarities and fundamental differences between species, thus providing important insights into the evolution and distinguishing aspects of different species. Over half a century ago. Susumo Ohno postulated that genomic duplication contributed to genomic evolution, and subsequent technological advancements in gene mapping and sequencing have enabled ever higherresolution perspectives of genomic evolution. In the last 20 years, sequence alignment and phylogenetic reconstruction have become well-established tools of comparative genomics. Today, comparative genomics has been applied to many fields ranging from agriculture to zoology, using advanced and/or discipline-specific software tools and resources. The prime goal for this Special Issue of *International Journal of Molecular* Sciences is to spotlight novel research relevant to the field of comparative genomics. Basic, translational, and computational research studies, as well as studies using new, paradigm-shifting methods, are encouraged.

Guest Editor

Dr. Candice Brinkmeyer-Langford

Department of Veterinary Integrative Biosciences, School of Veterinary Medicine and Biomedical Sciences, Texas A&M University, College Station, TX 77843, USA

Deadline for manuscript submissions

closed (20 October 2025)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/200442

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, 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), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

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

