



Advances in Genome Editing

Guest Editors:

Prof. Dr. John Parrington

Department of Pharmacology,
University of Oxford, Mansfield
Road, Oxford OX1 3QT, UK

Prof. Dr. Joaquín Gadea

Department of Physiology,
International Excellence Campus
for Higher Education and
Research “Campus Mare
Nostrum” and Institute for
Biomedical Research of Murcia
(IMIB-Arrixaca), University of
Murcia, 30100 Murcia, Spain

Deadline for manuscript
submissions:

closed (31 August 2021)

Message from the Guest Editors

Since the birth of civilization, human beings have manipulated other life forms. The ability to directly engineer the genomes of organisms first became possible in the 1970s, when the gene for human insulin was introduced into bacteria to produce this protein for diabetics. In the past few years, the pace of progress has accelerated enormously. We can now cut and paste genes using ‘molecular scissors’ with astonishing ease, and the new technology of genome editing can be applied to practically any species of plants or animals.

Genome editing is transforming medical research and is already being tested as a direct treatment for human disease. However, these powerful new techniques also raise important ethical dilemmas and potential dangers, pressing issues that we need to face, given the speed of scientific developments.

This Special Issue will consider papers on new scientific developments in genome editing and their latest implications in various areas of biotechnology.





an Open Access Journal by MDPI

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

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.

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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI