Special Issue Genome Editing 2018

Message from the Guest Editor

A recent breakthrough is the development of sitespecific endonucleases for selective genome cleavage. Because of this method's high efficiency, these endonucleases make it possible to direct gene targeting using fertilized eggs. These enzymes include zinc-finger nucleases (ZFN), transcription activator-like effector nucleases (TALEN), and Cas9 nucleases. The technology using these nucleases is called "genome editing." By using these technologies, we can make knockout organisms, including for most animals and plants, which cannot be created via conventional methods. Through combination with other technologies. genome editing can generate many new technologies. such as epigenome editing, live imaging, and genomewide screening. The field of genome editing is growing at a surprisingly rapid rate and has had a great impact on basic science, clinical applications, and breeding technologies. The main purpose of this Special Issue is to provide an open-source sharing of significant works in the field of genome editing, so as to archive new technological developments and applications.

Guest Editor

Prof. Dr. Izuho Hatada

Laboratory of Genome Science, Biosignal Genome Resource Center, Institute for Molecular and Cellular Regulation, Gunma University, Maebashi 371-8512, Japan

Deadline for manuscript submissions

closed (31 August 2018)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/9041

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





About the Journal

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)