

Special Issue

Ferroportin and Ceruloplasmin: Structure and Function in Health and Disease

Message from the Guest Editors

In the last years, our understanding of the role of proteins involved in the handling of iron in health and disease had tremendously advanced. Two proteins playing a key role in the cellular management of iron are ferroportin, the only known cellular iron exporter in mammals, and ceruloplasmin, a multifunctional enzyme with ferroxidase activity. A strong connection between ferroportin and ceruloplasmin was uncovered and they can be viewed as a system of functionally interacting partners. The importance of both proteins is underscored by the finding that mutations in each cause iron imbalance leading to pathological states, particularly severe in the case of aceruloplasminemia which belongs to the neurodegeneration with brain iron accumulation (NBIA) group. This Special Issue of IJMS will focus on recent advances regarding different aspects of ferroportin and ceruloplasmin biology in health and disease: molecular structure and mechanism of action, regulation of expression, interactions with other proteins, exploitation as drug targets, and roles in other pathological states where iron status is altered (e.g., infection and inflammation, cancer, etc.).

Guest Editors

Prof. Giovanni Musci

Department of Biosciences and Territory, University of Molise, 86090 Pesche, Italy

Dr. Maria Carmela Bonaccorsi Di Patti

Dipartimento di Scienze biochimiche 'A. Rossi Fanelli', Università degli Studi di Roma La Sapienza, Rome, Italy

Deadline for manuscript submissions

closed (30 June 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



mdpi.com/si/45750

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

mdpi.com/journal/

[ijms](https://ijms.mdpi.com)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



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

ijms



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 (Inorganic Chemistry)