International Journal of
Molecular Sciences

IMPACT FACTOR 4.9
Indexed in: PubMed
CITESCORE 9.0

an Open Access Journal by MDPI

Genetic Modifiers of Hemoglobinopathies: Recent Advances and Future Directions

Guest Editors:

Prof. Dr. Alex Felice
Department of Surgery, Faculty of Medicine and Surgery, University of Malta, Msida, Malta

Dr. Petros Kountouris
Molecular Genetics Thalassaemia Department, The Cyprus Institute of Neurology & Genetics, Nicosia 2371, Cyprus

Dr. Carsten W. Lederer
Molecular Genetics Thalassaemia Department, The Cyprus Institute of Neurology & Genetics, Nicosia 2371, Cyprus

Deadline for manuscript submissions:
closed (30 June 2024)

Message from the Guest Editors

Hemoglobinopathies, including sickle cell disease and thalassemia syndromes, are the most common monogenic diseases worldwide. Although their primary cause is well established through known pathogenic variants in the two globin gene clusters, the diverse clinical manifestations and the varying severity of hemoglobinopathies are largely attributed to the influence of genetic modifiers. Hundreds of genetic modifiers of different hemoglobinopathy phenotypes have already been identified by association studies, and genome-wide association studies (GWAS) in particular have proven to be powerful tools for the evaluation of the effect of genetic loci on specific disease phenotypes. Established modifiers serve as therapeutic targets, and have already greatly contributed to existing insights in the molecular mechanisms of disease pathogenicity.

For this Special Issue, we aim to compile current knowledge and identify gaps related to the role of genetic modifiers for hemoglobinopathies and to highlight key priority areas for future collaborative research through INHERENT.

International Journal of
Molecular Sciences

IMPACT FACTOR 4.9 | Indexed in: PubMed | CITESCORE 9.0

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology "Jose Mataix", Biomedical Research Center, University of Granada, Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences* (*IJMS*) 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, and molecular biophysics. *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 and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

International Journal of Molecular Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

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