# **Special Issue**

# Molecular Biology of Histamine Systems 2024

# Message from the Guest Editor

Histamine is arguably the most pleiotropic transmitter in the human body, and is synthesized from the amino acid histidine via the enzyme, histadine decarboxylase (HDC). The histamine receptors are classic G-protein coupled receptors. The pharmacological heterogeneity displayed by the histamine receptors are thought in part to be a result of alternative splicing which generates a number of possible splice variants, some of which have been shown to be functional and others which appear to be non-functional in terms of ligand binding and signal transduction, mRNA encoding the different isoforms has been shown to be distributed throughout the central nervous system in a region specific manner, but their relevance is yet to be established. Despite the importance of histamine, transcriptional regulation of histamine receptor and HDC gene expression in mammals is still poorly understood. Furthermore, there are significant deficits in our knowledge regarding native histamine signalling pathways. This themed volume will endeavour to extend our understanding of these important issues.

#### **Guest Editor**

Prof. Dr. Paul L. Chazot

Department of Biosciences, Wolfson Research Institute for Health and Wellbeing, Durham University, Durham DH1 3LE, UK

## Deadline for manuscript submissions

closed (20 June 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/189375

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)

