



The Melanocortin System: From Ligands to Receptors and Accessory Systems

Guest Editors:

Prof. Dr. Victor J. Hruby

Department of Chemistry &
Biochemistry, College of Science
and College of Medicine,
University of Arizona, Tucson, AZ
85721, USA

Prof. Dr. Minying Cai

Department of Chemistry &
Biochemistry, College of Science;
Arizona Cancer Center, College of
Medicine, University of Arizona,
Tucson, AZ 85721, USA

Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

The melanocortin system is a critical, complex biological system of peptide hormones produced from the precursor protein proopiomelanocortin (POMC), 5 G-protein coupled receptors MC1R, MC2R, MC3R, MC4R and MC5R, plus complex downstream signaling pathways that modulate and control many important biological processes in all animal species, including humans. These include pigmentation, feeding behavior, sexual function, temperature control, and many others that are still being discovered as well as many diseases associated with these functions. Original manuscripts and reviews dealing with all aspects of this system including ligand design, biological activities, and mechanisms from a chemical, biological, physical, pharmacological, physiological, or medical perspective are welcome.

Prof. Dr. Victor J. Hruby

Prof. Dr. Minying Cai

Guest Editors





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and
Molecular Medicine, Faculty of
Health and Medical Sciences,
University of Copenhagen,
Blegdamsvej 3C, DK-2200
Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer
Science, Virginia Commonwealth
University, Richmond, VA 23284,
USA

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Biochemistry*)

Contact Us

Biomolecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
[X@Biomol_MDPI](https://twitter.com/Biomol_MDPI)