## **Special Issue**

## Genetics and Genomics of Silkworm

## Message from the Guest Editor

The silkworm (*Bombyx mori*) has long served as a pivotal model organism in genetics, developmental biology, evolutionary biology, physiology, agricultural biotechnology, etc. Recent advancements in high-throughput sequencing, CRISPR-based genome editing, and functional genomics have revolutionized our understanding of silkworm biology. This Special Issue aims to consolidate cutting-edge research and interdisciplinary insights into the genetics and genome of the silkworm, fostering innovation in both fundamental science and applied sericulture. **Suitable topics include, but are not limited to, the following:** 

- The silkworm genome encompasses the genomes of various wild silkworms and different domesticated silkworm strains (Bombyx mort).
- The comparative genomics mining of interesting genes and functional elements.
- The identification and functional characterization of genes related to silkworm domestication, silk production, development, and adaptation.
- Epigenetic regulation and non-coding RNAs.
- Gene editing and transgenic applications.
- Genetic diversity, conservation, and breeding strategies.
- Host-microbe interactions and immunity-related genomic studies.

### **Guest Editor**

Dr. Min-Jin Han

State Key Laboratory of Silkworm Genome Biology, Institute of Sericulture and Systems Biology, Southwest University, Chongqing 400715, China

## Deadline for manuscript submissions

31 August 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/234336

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)

