



Cell Biology and Functions of the Multifunctional Lysyl Oxidase Family of Proteins

Guest Editor:

Prof. Dr. Philip C. Trackman

1. The Forsyth Institute, 245 First Street, Cambridge, MA 02142, USA

2. Department of Translational Dental Medicine, School of Dental Medicine, Boston University, 700 Albany Street, Boston, MA 02138, USA

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editor

The lysyl oxidase family of genes consists of five related paralogues, each possessing the active lysyl oxidase enzyme activity domain at the C-terminus of the corresponding proteins. All five enzymes participate in extracellular biosynthetic collagen and elastin cross-linking and maturation critical for normal extracellular structure and function. Some examples include modulation of growth factor signaling, tumor suppression, basement membrane assembly, differentiation and functions of cells as diverse as endothelial cells, osteoblasts and megakaryocytes, macrophages, functional interactions with matricellular proteins, and coordination of elastin biosynthesis. Abnormal regulation, and lysyl oxidase mutations, can result in pathologies including cancer and vascular abnormalities. This volume will bring together new data, ideas and methodologies from active experts which will help to integrate understanding of the latest findings in this field, in both health and disease, which is receiving ever increasing interest and attention.





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