## **Special Issue**

## Physio-Pathological Role of ERAD and Its Pharmacological Modulation

## Message from the Guest Editors

The endoplasmic reticulum (ER) is the site where about one-third of the eukaryotic proteome undergoes maturation and is monitored for proper folding. Protein homeostasis in the ER is assured by multiple quality control (QC) checkpoints that triage each newly synthetized protein, allowing the native ones to proceed toward the final destination and delivering the defective ones to either ER-associated degradation (ERAD), ERphagy, the Golgi-QC, or the plasma membrane-QC. When ERQC fails, stress response pathways such as the unfolded protein response (UPR) are induced. The present Special Issue of IJMS will mainly focus on the role of ERAD in the physiological and pathological status of cells and tissues. Indeed, ERAD directly or indirectly influences metabolism and immunity, and regulates specific enzyme concentrations as well as the stoichiometry of oligomeric complexes. Thus, studying the ERAD pathways in different tissues could unveil the molecular mechanism(s) of such diseases, envisaging novel and specific pharmacological interventions modulating ERAD to avoid/improve degradation or correct the protein architecture.

## **Guest Editors**

Dr. Dorianna Sandonà

Department of Biomedical Sciences, University of Padova, Italy

Dr. Marcello Carotti

Department of Biomedical Sciences, University of Padova, Padova, Italy

### Deadline for manuscript submissions

closed (30 June 2021)



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/54252

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)

