



Transglutaminase 2 and Cellular Functions

Guest Editors:

Prof. Dr. Carlo Mischiati

Department of Neurosciences
and Rehabilitation, Clinical
Biochemistry Laboratory, Faculty
of Medicine, Pharmacy and
Prevention, University of Ferrara,
Via Luigi Borsari 46, Ferrara, Italy

Prof. Dr. Simone Beninati

Department of Biology, University
of Tor Vergata, Rome, Italy

Deadline for manuscript
submissions:

30 May 2024

Message from the Guest Editors

Dear Colleagues,

TG2 is a widely studied enzyme, it was implicated in a growing variety of altered health states, not just celiac disease, but also neurodegenerative diseases, multiple sclerosis, and central nervous system injuries, among others.

The knowledge of the mechanisms through which TG2 participates in the various cellular functions, in particular those that trigger apoptosis or pathogenesis, could allow the design of future therapeutic applications. In this regard, the study of the biological effects of modulating molecules of the enzymatic activity of TG2 and/or of the effectors that are part of the cascade of events triggered arouses enormous interest.

Based on these premises, this monograph aims to broaden the knowledge of TG2 in health conditions and pathological states and the cellular functions in which it is involved. Studies that clarify the molecular mechanisms triggered by TG2, and also those focused on the identification of possible natural or synthetic modulators of the TG2 activity, are particularly welcome.





an Open Access Journal by MDPI

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

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.

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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences*
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
@IJMS_MDPI