

## Special Issue

# The World of Transglutaminases: From Basic Biological and Medical Research to Applied Sciences 2.0

### Message from the Guest Editors

Transglutaminases are important protein-modifying enzymes that are distributed in all kingdoms of life. The post-translational modifications catalyzed by these enzymes produce stable networks in the extracellular matrix, in body fluids, and inside cells, thus contributing to the regulation of many aspects of cell life and death. Besides the cross-linking function, other enzymatic reactions and non-enzymatic functions can be attributed to some members of the transglutaminase family. In this regard, the ubiquitous multi-functional tissue transglutaminase has been nicknamed "the bete noire" of the family or "a molecular swiss army knife." Evidence on the involvement of transglutaminases in human diseases, such as cancer, fibrosis, and neurodegenerative and autoimmune diseases, is rapidly increasing. Moreover, transglutaminases have been successfully employed as biotechnological tools in several industrial fields. The aim of this Special Issue is to collect original and review articles on all aspects of research on the transglutaminases family, from basic research to biomedical and biotechnological applications.

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### Guest Editors

Dr. Ivana Caputo

Dr. Gaetana Paoletta

Dr. Stefania Martucciello

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### Deadline for manuscript submissions

closed (31 March 2022)



## International Journal of Molecular Sciences

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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.

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### Editor-in-Chief

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