



## Molecular Insight into the Processing and Characterization of Animal Fats and Vegetable Oils

Guest Editor:

**Prof. Dr. Pavel Mokrejš**

Department of Polymer  
Engineering, Faculty of  
Technology, Tomas Bata  
University in Zlín, Vavrečkova  
275, 760 01 Zlín, Czech Republic

Deadline for manuscript  
submissions:

**closed (20 September 2025)**

### Message from the Guest Editor

Animal fats and vegetable oils belong to the portfolio of important raw materials not only for the food industry, but are also used in non-food sectors such as the pharmaceutical, cosmetic and leather industries. A significant share is represented by fats and their wastes originating from untraditional animal fats and vegetable oils, including by-products. Current trends in the processing of raw materials significantly point towards compliance with the principles of the circular economy with respect to the environment.

The purpose of this Special Issue is to provide a representative and up-to-date overview of nutritional and molecular research on fats, processing of fats, oils and their wastes aimed at the preparation of products for common and advanced applications. The research focusing on the impact of fats and fatty acids on heart diseases, cancer or intestinal diseases, as well as the potential of omega-3 fatty acids in medical therapies are welcomed. Authors are encouraged to publish results on the preparation of second-generation biofuels as well.





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