



## Vitamin K and Vitamin K-Dependent Proteins in Homeostasis and Pathology

Guest Editors:

**Dr. Dina Costa Simes**

Centre of Marine Sciences  
(CCMAR), University of Algarve,  
Campus de Gambelas, 8005-139  
Faro, Portugal

**Dr. Carla Viegas**

Centre of Marine Sciences  
(CCMAR), Campus de Gambelas,  
Universidade do Algarve, 8005-  
139 Faro, Portugal

Deadline for manuscript  
submissions:

**closed (17 December 2021)**

### Message from the Guest Editors

Vitamin K (VK) is a multifunctional micronutrient with protective roles in many chronic inflammatory and age-related diseases such as cardiovascular diseases, diabetes, and more recently linked to COVID-19. This wide range of biological effects has been attributed mainly to its function as a co-factor for the  $\gamma$ -carboxylation of extra-hepatic vitamin-K-dependent proteins (VKDPs), but novel  $\gamma$ -carboxylation-independent roles have been suggested. Molecularly, extra-hepatic VKDPs are involved in many biological functions such as bone homeostasis, ectopic calcification, cell differentiation and proliferation, inflammation, and signal transduction. This Special Issue is dedicated to highlighting recent advances in the field of VKDPs and vitamin K biology, providing novel molecular insights into their functional role in health and disease, and therapeutic and nutraceutical application. We invite authors to submit reviews or original research articles on any of the above topics.





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 and Molecular Biology) / CiteScore - Q1 (Inorganic 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