



## **Permeation Enhancers and Other Strategies to Overcome Skin and Mucosal Barriers**

Guest Editor:

**Dr. Mireia Mallandrich Miret**

Department of Pharmacy,  
Pharmaceutical Technology and  
Physical Chemistry, Faculty of  
Pharmacy and Food Sciences,  
University of Barcelona, 08028  
Barcelona, Spain

Deadline for manuscript  
submissions:

**25 May 2024**

### **Message from the Guest Editor**

Dear Colleagues,

The skin and mucosa are suitable targets for drug delivery, but these routes are challenging because they constitute excellent protective barriers, and drugs are required to reach the mucosa or different skin layers to efficiently manage skin and mucosal diseases. Many approaches have been used to enhance the penetration of drugs through these tissues: chemical permeation enhancers, physical permeation enhancer methods (ultrasound, iontophoresis, electroporation, microneedles), and other strategies, such as nanocarriers including liposomes, polymeric nanoparticles, or lipid-based nanostructured systems. These strategies or their combination provide alternatives to existing products and open up the opportunity to fulfil unmet medical needs.

This Special Issue focuses on recent studies that aim to overcome skin or mucosal barriers. Both research and review articles are welcome.

Dr. Mireia Mallandrich Miret

*Guest Editor*





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