

## Special Issue

# Modelling Biological Barriers to Study Molecular Trafficking In Vitro: Advances and Applications

### Message from the Guest Editors

Understanding molecular traffic through biological barriers is crucial for basic and applied research in several fields such as pharmaceuticals, nanotechnology, pathology, physiology, toxicology, cosmetics, and food science. In recent years, a variety of in vitro models of biological barriers have been developed. These models have proved to be standardized, reliable, fast, cost effective and ethically preferable, and allowed investigating how molecules may move through several types of barriers, such as the skin, cornea, intestinal mucosa, airway epithelium, renal epithelium, blood–brain and blood–placental barrier, and others. This Special Issue is aimed at illustrating the great contribution of in vitro biological barriers to the knowledge of the trans-barrier molecular trafficking in vivo, as well as at presenting novel biological barrier models designed for permeability studies. All related deep molecular research is welcome and in vivo verification experiments are highly encouraged.

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### Guest Editors

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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### 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.

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