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

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Message from the Guest Editors

Understanding molecular traffic thought biological barriers is crucial for basic and applied research in several fields such as pharmaceutics, 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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Message from the Editor-in-Chief

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