

Special Issue

Novel Approaches for Overcoming Biological Barriers

Message from the Guest Editors

The selective permeability of biological barriers and the growing trend to use large molecules as next generation therapeutics makes it challenging to deliver drugs to specific targets in our body. Use of physical enhancement methods, chemical permeation enhancers, activation/inhibition of transports, biomolecules, nanotechnology, microneedles, biomimetics, and engineered biomaterials, etc., have been demonstrated to allow overcoming biological barriers. This Special Issue serves to provide readers with an overview of the novel approaches and new therapeutic modalities being used to target sites across biological barriers. We are interested in articles related to quantitative and mechanistic studies using in vitro models, in vivo trials, and translational challenges for enhancing drug delivery across biological barriers and for applications in the pharmaceutical industry.

- drug delivery
- transdermal transport
- blood–brain barrier
- permeation enhancers
- transporters
- nanoparticles
- microneedles

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