

Special Issue

Lipid Membranes as Multifunctional Platforms for Bioactive Delivery

Message from the Guest Editor

Lipid membranes are versatile, biomimetic structures that have attracted significant attention as delivery platforms for a wide range of bioactive compounds. Their unique ability to encapsulate, protect and release molecules with controlled kinetics makes them ideal for applications where stability, biocompatibility and targeted performance are crucial. Recent advances in lipid-based systems, including liposomes, micelles, and nanostructured lipid carriers, are opening up new opportunities to enhance the delivery and efficacy of bioactive substances in various sectors, such as healthcare, nutrition and cosmetics. The aim of this Special Issue is to highlight the latest progress in the design, characterisation and application of lipid membranes as smart carriers. We welcome contributions addressing fundamental aspects of membrane structure and dynamics, novel strategies to improve stability and bioavailability, computational and in silico studies, and innovative methods to tailor release profiles.

Guest Editor

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