

## Special Issue

# Membrane Carriers for Drug Delivery Purposes

### Message from the Guest Editor

We invite you to contribute to the Special Issue “Membrane Carriers for Drug Delivery Purposes.” Plasma and intracellular membranes differ in lipid composition, allowing proteins to localize to specific subcellular compartments. Many proteins, including transmembrane ones (e.g., ion channels, receptors, transporters), interact with membranes, affecting their conformation, activation, and localization. These interactions regulate key cellular processes such as membrane trafficking, signal transduction, and extracellular vesicle formation. Membrane proteins are implicated in diseases like cancer and Alzheimer’s, making them important drug targets. Challenges remain in achieving effective, controlled targeted delivery and minimizing side effects in drug delivery systems (DDS) like lipid nanoparticles (LNPs). This Special Issue aims to highlight recent advances in membrane carriers for drug delivery from various perspectives. Contributions on cell biology, biochemistry, biophysics, structural biology, and molecular dynamics are welcome. Both original research and reviews are invited.

### Guest Editor

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### Deadline for manuscript submissions

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## Membranes

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## About the Journal

### Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Spas D. Kolev  
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