

## Special Issue

# Lipid-Based Drug Carriers and Nanoparticles

### Message from the Guest Editors

Lipid-based delivery systems play critical roles in the delivery of therapeutic and diagnostic agents. Their popularity arises from their ability to improve drug delivery by improving drug stability and by altering pharmacokinetic parameters. This allows lipid-based carriers to achieve exposure profiles not possible with free drugs. Further, the addition of diagnostic agents has allowed lipid-based carriers to assist in non-invasively tracking drug disposition and disease progression. Advances in molecular biology have identified targeting ligands. Despite these advances, several gaps in knowledge, as well as barriers, exist for lipid-based carriers. This includes knowledge of their biologic disposition, long-term toxicity, targeting specificity and issues with their large-scale production, stability, and their disposition in the environment. Further, while lipid-based carriers have enjoyed enhanced use in the laboratory, their use in the clinic is comparatively somewhat limited. This Special Issue on lipid-based delivery focuses on these issues, as well as on the diversity of platforms for generation of these carriers and their pharmaceutical and diagnostic applications.

### Guest Editors

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### Deadline for manuscript submissions

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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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