

## Special Issue

# Lipid Signaling Pathways in Drug Delivery and Therapeutics

### Message from the Guest Editor

Lipids, one of the basic building blocks of life, play a critical role in organismal physiology. Several classes of lipids and their downstream metabolites act as secondary messengers. These molecules interact with a variety of cellular targets including G-protein-coupled receptors, ion channels, nuclear receptors, kinases, etc. However, these endogenous lipids often have poor drug-like properties, since they are highly lipophilic with scarce water solubility, metabolically unstable, and poorly bioavailable. Therefore, it would be valuable to design novel molecules such as enzyme inhibitors that stabilize endogenous lipid mediators (e.g., ibuprofen) and mimics that act as agonists or antagonists of lipid signalling pathways. In addition, novel drug delivery systems could be developed to directly administer these specific molecules to target organs. In this Special Issue, we aim to present and discuss novel therapies targeting lipid signalling pathways.

### Keywords

Lipid signalling molecules  
Enzyme inhibitors  
Agonist  
Antagonist  
Drug discovery and development  
Drug design

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### Deadline for manuscript submissions

closed (28 February 2022)



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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