

Special Issue

Lipid-based Nanoparticle Systems for Drug Delivery

Message from the Guest Editors

Nanocarrier technology in drug delivery research has achieved reasonable success in the development of modern therapies, permitting better bioavailability and pharmacodynamics, as well as reducing side effects and providing the possibility of specific targeting of the drug. In particular, due to their biocompatibility and flexibility, supramolecular lipid-aggregate-based nanocarriers, such as lipid nanoparticles, liposomes, nanoemulsions, and micelles, have been the subjects of extensive studies that resulted in several technologies and commercially available therapeutics, including Ambisome, Doxil or recently registered ONPATTRO (patisiran). These seem to be only a small fraction of the opportunities provided by the system built from naturally occurring lipids and similar non-toxic organic compounds. No commercial lipid-based preparation has explored the possibility of targeting the diseased site in the body with lipid aggregate-packed drugs. Hereby, we invite all researchers to contribute to this Special Issue, which will collect review articles devoted to various aspects of lipid aggregate-based drug nanocarrier studies.

Guest Editors

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