

Special Issue

Advances in Liposome-Based Drug Delivery Systems

Message from the Guest Editor

Liposomes are small artificial vesicular structures composed of one or more phospholipid bilayers enclosing distinct aqueous spaces. They are biocompatible, biodegradable, and essentially non-toxic preparations used as carrier systems to deliver hydrophilic and hydrophobic molecules to target cells or organs. The rationale for developing liposome-based drug formulations is to improve the therapeutic efficacy of drugs by reducing drug toxicity, improving drug solubility and stability, and/or enhancing drug delivery to specific target sites of interest. The diverse application of liposomes as carriers for the delivery of drugs and other molecules has been attributed to the physicochemical and biophysical characteristics of the liposomal membrane. Clinical applications of liposomal drugs include formulations for the treatment of cancer, fungal infections, viral infections, and pain management.

Guest Editor

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