

Special Issue

Liposomes: Molecular Marvels in Drug Delivery

Message from the Guest Editors

This Special Issue is focused on reporting unusual physicochemical, material, and bioanalytical properties of newly designed liposomal drugs and their potential therapeutic and clinical applications. Liposomes have a wide range of biomedical applications. They can be designed as drug carriers for targeted delivery and therapy, vaccine adjuvants, diagnosis tools, slow-release vehicles, and prophylaxis agents. Some therapeutic applications just build on empty liposomes, without any entrapped small drug molecules. In many cases, the surfaces and compositions of liposomes are adjustable parameters, enabling us to add versatilities and specificities to optimize their therapeutic efficacy or functionalities. Topics on the use of synthetic chemistry, polymers, antibodies, archaea/bacteria or synthetic lipids, and novel biochemical concepts in liposomal drug design will be a good fit for this Special Issue. Manuscripts on liposome studies involving animal models or computational research as well as novel manufacturing processes are also welcome.

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