Special Issue

Liposomes for Gene and Drug Delivery

Message from the Guest Editors

Recently, liposomes have received much attention as carriers for gene therapy and chemotherapy in pharmaceutical applications. The application of liposomes in these therapies improves the pharmacokinetics of genes and drugs compared to their free forms. In gene therapy, liposomal encapsulation or lipoplex formation can stabilize therapeutic genes in blood circulation and deliver them efficiently to target tissues with minimal toxicity. Liposomal encapsulation of therapeutic agents can reduce the side effects and enhance the therapeutic efficacy of chemotherapeutic drugs by modifying their pharmacokinetics and tissue distribution. These therapeutic outcomes are influenced by the physicochemical properties of liposomes such as particle size, surface charge, and release rate, and by their surface functionalization with polymers or targeting ligands. This Special Issue will publish articles on all aspects of liposomal gene and drug delivery systems including the design, development, and characterization of liposomal formulations, their pharmacokinetic properties, and their use in the treatment of acquired and inherited diseases.

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