Special Issue

Liposome-Mediated Natural Compounds in Cancer Therapy

Message from the Guest Editors

Cancer remains one of the leading causes of death worldwide. Chemotherapy is associated with poor selectivity, systemic toxicity, and drug resistance. In recent years, there has been growing interest in exploiting the potential of natural compounds derived from plants, fungi, and other sources for cancer therapy. These bioactive compounds often exhibit remarkable anti-cancer properties. However, challenges related to their low bioavailability, instability, and non-specific distribution have hindered their widespread clinical application.

Liposome-based drug delivery systems are a promising solution to these challenges as they offer increased biocompatibility, improved solubility for poorly water-soluble compounds, and the potential for targeted delivery to tumor sites. By encapsulating natural compounds in liposomes, it is possible to enhance their stability, bioavailability, and therapeutic efficacy, while reducing their systemic toxicity and side effects. This Special Issue aims to provide a comprehensive overview of the latest advancements in the liposome-dependent delivery of natural compounds, both alone and in combination with chemotherapeutic agents, for cancer therapy.

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