

Special Issue

Drug Delivery Systems for Local Anesthetics

Message from the Guest Editors

Local anesthetics (LAs) are among the most useful drugs in anesthesiology practice and pain management, as they cause a temporary loss of pain by inhibiting the transmission of nerve impulses. Thus, they have been widely used in clinical practice. However, the applications of anesthetics are greatly limited due to their neurotoxicity and short half-lives. To overcome these barriers, numerous drug delivery systems (DDSs) have been designed to encapsulate local anesthetic agents so that large doses can be released slowly and provide analgesia over a prolonged period. Formulation approaches to systemically deliver LA include the encapsulation of liposomes, the complexation of cyclodextrins, and associations with biopolymers and other carrier systems. This Special Issue, entitled “Drug Delivery Systems for Local Anesthetics”, considers drug delivery formulations of local anesthetics designed to prolong the anesthetic effect and decrease toxicity. We invite authors to submit original research articles or review articles outlining innovations pertaining to formulations and techniques for drug delivery of topical and injectable local anesthetics.

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Editor-in-Chief

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