

Special Issue

New Technology for Prolonged Drug Release, 2nd Edition

Message from the Guest Editors

Prolonged drug delivery systems have become the standard in drug formulation development. The most important benefits of such dosage forms include a longer duration of action, decreasing frequency of drug administration to improve patient compliance, and lower plasma concentration, which may reduce the risk of adverse effects and decrease fluctuation in plasma concentration. Innovative technologies are applicable for the increased performance of both existing and new pharmaceutical active compounds. A sustained release profile of drug substances is obtained using various technologies. One of these is the process of applying natural and synthetic polymers, which play an important role in the preparation of gelling matrixes or coating dosage forms. Another technique used to obtain a prolonged delivery system involves microencapsulation, formulating micro- or nanoparticulate systems. This Special Issue will be a collection of full article papers and review papers focusing on recent progress in new drug delivery technologies, allowing for a sustained release profile of active substances.

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