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New Technology for Prolonged Drug Release

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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 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. All these advantages promote the achievement of higher therapeutic efficacy. Innovative technologies are applicable for an increased performance of both existing and new pharmaceutical active compounds. A sustained release profile of drug substances is obtained using various technologies. One of them is applying natural and synthetic polymers, which play an important role in preparing of gelling matrixes or coating dosage forms. Another technique used to obtain prolonged delivery system involves microencapsulation, formulating micro- or nanoparticulate systems.

This Special Issue will be a collection of full papers, short communications, and review papers focuses on recent progress in new drug delivery technologies, allowing for a sustained release profile of active substances.

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Message from the Editor-in-Chief

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