

Special Issue

Controlled-Release Drug Delivery Systems for Anti-Inflammatory and Wound Healing Action

Message from the Guest Editors

In recent years, drug delivery systems (DDSs) with controlled release have attracted considerable attention in wound healing and inflammation management due to their significant benefits compared to conventional drugs. The advantages of controlled DDSs for oral administration include enhanced bioavailability, the protection of the drug from metabolic deactivation and the maintenance of the drug concentration over a prolonged period. On the other hand, DDSs with controlled release intended for cutaneous application have led to improvements in drug permeation and modified release at a physiologically relevant rate. The scope of this issue includes the design and assessment of DDSs for the delivery of active compounds in pharmaceutical formulations with the potential to accelerate wound repair and reduce inflammation in various acute and chronic conditions. Articles that address the following topics are welcome: the development of DDSs; physicochemical characterization; stability tests; and in silico, in vitro and in vivo assessments of their anti-inflammatory and wound-healing effects.

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