

Special Issue

Smart Pharmaceutical Technologies for Drug Delivery and Tissue Engineering

Message from the Guest Editors

The application of smart technologies in the pharmaceutical field has increased notably over the last few years and demonstrates the potential to improve the production efficiency and quality of different pharmaceutical products. In this way, Artificial Intelligence tools such as machine learning have proven useful in the development of thermosensitive hydrogel formulations, microparticles, or nanoparticles enabling the controlled release of drugs. On the other hand, the implementation of smart manufacturing technologies such as 3D or, more recently, 4D bioprinting has allowed the obtention of functional scaffolds that are able to replace damaged tissues; this application is of great interest in regenerative medicine. This Special Issue aims to highlight the current progress in the application of smart pharmaceutical technologies to develop formulations, or biomedical products useful for controlled drug delivery or tissue engineering applications. Original articles and reviews with a focus on this topic are welcome.

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Deadline for manuscript submissions

closed (10 March 2025)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/196457

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