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.

Guest Editors

Dr. Helena Rouco

Departamento de Farmacología, Farmacia y Tecnología Farmacéutica, Facultad de Farmacia, Universidade de Santiago de Compostela, 15782 Santiago de Compostela, Spain

Prof. Dr. Mariana Landin

Departamento de Farmacología, Farmacia y Tecnología Farmacéutica, Facultad de Farmacia, Universidade de Santiago de Compostela, 15782 Santiago de Compostela, Spain

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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