

Special Issue

Bioinspired Design in Drug Delivery

Message from the Guest Editors

The increasing demand of smart carriers with superior functionalities and release profiles is leading to the development of bioinspired drug delivery systems (DDS). Different functional biopolymers can be successfully used to encapsulate cells and/or to administer drugs or biomolecules through highly programmable time and space delivery routes. Moreover, the addition of biological recognition sites further allows more efficiently guide cellular activities and synchronizing responses to environmental stimulation, in order to design bioinspired DDS for in vivo targeting.

We would encourage scientists from multidisciplinary areas to contribute original and review articles regarding the recent advances in materials science and nanotechnology to design bioinspired drug delivery systems.

Keywords

- Gels
- Polyelectrolytes
- Micro/nanofibers
- Smart capsules
- Micro/nanotechnologies

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Deadline for manuscript submissions

closed (31 May 2019)



Pharmaceutics

an Open Access Journal
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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/21196

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