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Bioinspired Design in Drug Delivery

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Message from the Guest Editors

Dear Colleagues,

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.

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Guest Editors

Keywords

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



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