

Special Issue

Nanoparticles and Biomaterials for Drug Delivery

Message from the Guest Editors

The applications of nanotechnology in substance delivery systems development have opened up new areas of research in the sustained release of various drugs. Using diverse materials at the nanometer scale, nanotechnology will allow for specific and more personalized diagnosis and treatment of different pathologic areas such as cardiovascular diseases, cancer, inflammatory diseases, neurodegenerative syndromes such as Alzheimer's or Parkinson's disease, and psychiatric disturbances. Nanoparticle drug carriers consist of solid biodegradable particles ranging in size from 0.1 to 100 nm in which the active principle is dissolved, entrapped or encapsulated, and/or to which the active principle is absorbed or attached. The important technological advantages of nanoparticles used as drug carriers are high stability, high carrier capacity, a feasibility of incorporation of both hydrophilic and hydrophobic substances, and a feasibility of variable routes of administration.

We invite researchers to submit original research articles and review articles, such as the obtention, characterization, structure, and original aspects about biomaterials for drug delivery.

Guest Editors

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closed (20 February 2024)



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About the Journal

Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials (JFB)* is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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