Special Issue

Biopolymers for Drug Release

Message from the Guest Editor

The use of biopolymers for various biomedical applications has experienced a surge in recent decades due to the biocompatibility and biodegradability of these materials. Research on this topic has shifted from the use of more traditional biopolymers (such as alginate or chitosan) to the utilization of polymers that were previously relatively unknown but exhibit interesting properties with promising applications in various fields of medicine, including cancer treatment, drug delivery systems for antibiotics, bone regeneration, ocular treatment, and more. This Special Issue welcomes papers (communications, articles, and reviews) related to the latest research on biopolymers for drug delivery. Topics may include but are not limited to, the following: the relation between biopolymers' properties and delivery properties, the modification of biopolymers for targeted therapies, biopolymers used for hydrogel formation with release applications, computational studies for drug release kinetics from biopolymers, and biocompatibility and biodegradability studies on them. The application of drug delivery covers cancer treatment, antibiotic administration, and immunotherapy.

Guest Editor

Dr. Álvaro Garcinuño
Department of Chemical Engineering, University of Salamanca, 37008 Salamanca, Spain

Deadline for manuscript submissions

30 November 2024

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.0
CiteScore 4.6
Indexed in PubMed

mdpi.com/si/195624

Journal of Functional Biomaterials
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jfb@mdpi.com

mdpi.com/journal/jfb

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.0
CiteScore 4.6
Indexed in PubMed

mdpi.com/journal/jfb

MDPI

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
School of Engineering and Materials Science, Queen Mary University of London, London, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, Inspec, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Biomedical) / CiteScore - Q2 (Biomedical Engineering)