Special Issue

Biomedical Applications of Chitin and Chitosan-II

Message from the Guest Editor

Chitin is widely distributed in nature and is the second most abundant polysaccharide after cellulose. It is the major structural component in the exoskeleton of crab and shrimp shells and the cell wall of fungi and yeast. Chitin and chitosan are linear polysaccharides, comprising two monomeric units, namely, N-acetyl-2-amino-2-deoxy-d-glucose (N-acetylated groups) and 2-amino-2-deoxy-D-glucose residues (N-deacetylated groups, amino groups). The advantages of chitin and chitosan include easy processability into scaffolds, membranes, bandages, sponges, films, hydrogels, microgels, nanogels, beads, micro-/nanoparticles, and nanofiber forms. These processed chitin and chitosan materials are utilized for biomedical applications such as tissue engineering, wound dressing, cosmetics, stem cell technology, anticancer treatments, and drug delivery and functional foods. The aim of this Special Issue is to discuss biomedical applications of chitin, chitosan, and their derivatives. Research, review, and future articles focusing on the abovementioned fields are welcome.

Guest Editor

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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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