Special Issue

Novel Biomimetic Materials for Musculoskeletal Tissue Engineering

Message from the Guest Editor

Dear Colleagues: The regeneration of musculoskeletal tissues are at the forefront of orthopaedic tissue engineering research. Finding ways to stimulate the regeneration of the aforementioned tissues in vivo, using innovative tissue engineering approaches and materials, is of utmost importance if we are to improve the lives of patients. Presently, the approach includes a biofunctionalized scaffold capable of providing the appropriate material/biomechanical properties while at the same time be biocompatible, porous, non-toxic and capable of stimulating cells to begin the tissue regeneration process. To this end, this special issue explores the latest research designed for constructing and testing unique biomimetic materials in order to stimulate regeneration of the various tissues of the musculoskeletal system. As the field is moving very rapidly, especially in the last decade or so, it is imperative that we monitor its progress by providing a forum for publishing the latest research. As such, I encourage you to submit your latest results in this research area for this Special Issue on “Novel Biomimetic Materials for Musculoskeletal Tissue Engineering”.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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