Special Issue

Biomaterials for Musculoskeletal Tissue Engineering and Regenerative Medicine

Message from the Guest Editors

Regeneration of large craniofacial and orthopedic musculoskeletal defects associated with trauma. infection, neoplasia and congenital conditions remains a clinical challenge for oral, maxillofacial and orthopedic surgeons. In recent years, remarkable scientific advances have been made in the development of novel biomaterials, including polymers, ceramics, metals and composites as scaffolds for musculoskeletal tissue regeneration. This Special Issue on "Biomaterials for Musculoskeletal Tissue Engineering and Regenerative Medicine" seeks to highlight the recent progress on biomaterials formulated for craniofacial and orthopedic applications. The scope will include work related to biomaterial synthesis and processing techniques, as well as characterization of the physicochemical and biological properties. Additionally, topics related to the combination of biomaterials, stem cells and biologics for musculoskeletal regenerative medicine will also be included. Special emphasis will be placed on studies with significant clinical translational relevance.

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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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