Topical Collection

Advanced Biomaterials for Cells Adhesion, Proliferation and Differentiation

Message from the Collection Editor

Cells adhesion, proliferation and differentiation are involved in various natural phenomena, such as embryogenesis, histogenesis, maintenance of tissue structure, immune response, metastasis, wound healing, as well as tissue integration of biomaterial. Lack of native tissue integration is one of frequent problems associated with the biomaterials surfaces of dental implants. It has prompted a significant body of research regarding the modification of these surfaces. Therefore, there is a constant need to find advanced biomaterials which are very closely related to cell behaviors and particularly to cell adhesion, proliferation and differentiation, that aim to restore a patient's mobility and alleviate pains. This Special Issue will focus on the recent progress of biopolymers, biometals, bioceramics, biomimetic materials, nanobiomaterials, scaffolds, porous materials, composite materials, smart biomaterials for cell responses in terms of adhesion, spreading, viability, proliferation and differentiation.

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Message from the Editorial Board

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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