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Development of Nanogels/Microgels for Regenerative Medicine

Guest Editors:

Dr. Kenta Yamamoto

Department of Immunology,
Kyoto Prefectural University of
Medicine, Kyōto 602-8566, Japan

Dr. Yuanhui Song

Department of Biomedical and
Chemical Engineering, Syracuse
University, Syracuse, NY 13244,
USA

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Message from the Guest Editors

In recent years, enormous growth in nano-material technology and science has been attained in the biomedical field. For example, nanosized hydrogels, so-called nanogels, have been reported to provide a feasible drug-delivery system that enables the efficient transfer of chemotherapeutics and short interfering RNA, and slow-release anti-bacterial peptide, growth factors and cytokines on-site. Through the functions, nanogels can inhibit tumor growth, and enhance wound-healing and blood vessel regeneration. Moreover, nanogels are also used as a scaffold for tissue engineering, including bone, cardiac and urethra tissue regeneration. In general, nanogels are highly biocompatible and biodegradable. Nanogels are also considered to be excellent scaffolds for preparing composites as a novel class of advanced materials, which comprise both nanogels and other constituents, such as polymers or inorganic nanoparticles. Thus, the development of nanogels and their effective application will play an important role in the regenerative medicine field.



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Special Issue



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Editors-in-Chief

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue Engineering Laboratory,
Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

Prof. Dr. Chuanliang Feng

State Key Lab of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

Message from the Editorial Board

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Gels Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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