

Special Issue

Advanced Research in Cell and Tissue Engineering

Message from the Guest Editor

From the 20th to the 21st century, culture techniques for regenerating tissues and organs using biomaterials such as biologically derived substances and synthetic polymers rapidly developed. Eventually, Langer and Vacanti (1993) proposed “tissue engineering” to develop organ and tissue substitutes that enable the regeneration, maintenance, and repair of life functions. In recent years, interdisciplinary research has been conducted across various fields, including stem cell research, materials engineering, mechanical engineering, electrical and electronic engineering, chemical engineering, and information engineering, to create multiple tissues and organs from cells within the body, advancing medical and drug development. In this Special Issue, we encourage submissions of papers on cutting-edge engineering technologies and previously testified research in cell and tissue engineering, including spheroid and organoid research, microfabrication, and microphysiological systems (MPSs), the use of decellularized tissues, and applications in regenerative medicine and transplantation medicine.

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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