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Cellular Response to Biomaterials Designed for Tissue Engineering

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Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editors

Tissue engineering (TE) is a multidisciplinary field. The main role of TE is the replacement or regeneration of damaged cells, tissues or organs in order to restore their normal functions. Currently, the main strategy of TE focuses on the application of biologically active molecules, cells, and biomaterials. To date, many types of TE have been developed, many types of cells are used in TE. On the other hand, the application of biomaterials may be associated with bacterial or fungal infections, so the evaluation of interactions between bacteria or fungi and biomaterials are also crucial in the context of tissue regeneration processes.

The aim of this Special Issue is to highlight the influence of various types of cells in TE applications, with particular emphasis on cellular response to biomaterials.

Submitted manuscripts should be primarily (but not only) concerned with: Complex cell culture experiments in vitro allowing the evaluation of cell–biomaterial interactions (e.g., assessments of biocompatibility, antioxidant, anti-inflammatory, antibacterial or antifungal properties); Application of living grafts (biomaterial with cells) for in vivo research.



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Special Issue



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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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