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Cell-Biomaterial Interactions

Guest Editor:

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Message from the Guest Editor

cell-biomaterial interactions. such dimensional orientation and architecture of cells. controlling cell-cell contact and communication with microscale resolution and directing cell behavior to achieve appropriate biological function, are critical to the development of the next-generation tissue engineering scaffolds. This Special Issue recruits original research papers and comprehensive reviews on all innovative developments that provide fundamental insights about cell-matrix. and cell-microenvironment cell-cell. interactions, including but not limited to the following topics:

- Integration of microstructural, mechanical, and compositional cues for engineering complex tissue systems;
- Substrate guided stem cell behavior;
- Interaction of specific cell types with materials;
- Modification of three-dimensional biomaterial scaffolds by grafting and patterning of small molecules, polymers, and/or ligands;
- Characterization methods to ascertain a successfully modified three-dimensional scaffold and cellular interactions with such scaffolds;
- New developments in materials that are responsive to environmental cues













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Message from the Editor-in-Chief

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Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

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