



Cell–Biomaterial Interactions

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Message from the Guest Editor

The cell–biomaterial interactions, such as three-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–cell, cell–matrix, and cell–microenvironment 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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