# **Special Issue**

# **Cell-Biomaterial Interactions**

### Message from the Guest Editor

The cell-biomaterial interactions, such as threedimensional 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 cellmicroenvironment 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

### Guest Editor

Prof. Dr. Amol V. Janorkar Biomedical Materials Science, School of Dentistry, University of Mississippi Medical Center, Jackson, MS 39216, USA

### Deadline for manuscript submissions

closed (31 October 2020)



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### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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