

Special Issue

Recent Advances of Stem Cell and Scaffold Interactions in Tissue Engineering

Message from the Guest Editor

This Special Issue, entitled “Recent Advances of Stem Cell and Scaffold Interactions in Tissue Engineering,” is dedicated to introducing recent advances in physical, chemical, and biological surface coatings/modulations to stimulate the desired cell reactions thus lead to successful soft-tissue or hard-tissue regeneration. It is with great pleasure that I invite you to submit your excellent work for this Special Issue. Full papers, reviews, and communications are all welcome. In particular, the topics of interest include but are not limited to:

- physical surface modifications (e.g., nano-structure, mechanotransduction) to enhance the desired cell reactions
- coatings with chemical stimuli (e.g., drugs, ions) to promote the cell proliferation/differentiation
- coatings with biological stimuli (e.g., growth factors) to increase the cell bioactivities
- the combination of any of the above biological/chemical/physical features on the surface of scaffolds for cell-based tissue regeneration
- 3D printing and additive technologies to create the desired surface characteristics

Guest Editor

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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