

Special Issue

Functional Biomaterials for Regenerative Engineering

Message from the Guest Editor

In this Special Issue, we will include example papers for hydrogel-based biomaterials. We will also cover a wider range of biomaterial variants, e.g.,

- porous scaffolds,
- nano- and micro-particles,
- synthetic or naturally derived polymers, proteins, carbohydrates, lipids

that highlight research results from basic science to clinical applications. This issue will also highlight the applications of these biomaterial technologies to create instructive microenvironments to control cell fate such as self-renewal, quiescence and differentiation. In addition, microfabrication techniques for regenerative engineering, such as implementation of microfluidic tools and bioprinting approaches will also be covered in this Special Issue. **Published Paper** Gasparro, R. et al. Non-Transfusional Hemocomponents: From Biology to the Clinic—A Literature Review. *Bioengineering* **2018**, *5*, 27; doi:10.3390/bioengineering5020027.

Potential Contributors 1. Dr. Anthony Guiseppi-Elie group

"Microfabricated and 3-D Printed Bioelectronic Constructs from Electroconductive Hydrogels"

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Editor-in-Chief

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