Special Issue

3D Bioprinting of Functional Tissues

Message from the Guest Editor

Bioprinting is a new field combining principles of engineering, biology, and material science that holds the promise to change the gear box of many biotechnological disciplines. Initial reports related to bioprinting principles date back to the beginning of the new millennium. Since then, the field of bioprinting has grown exponentially. This not only includes 3D printing, but also a number of other approaches where cells and biomaterials have been used in combination or alone to fabricate new constructs for tissue engineering and regenerative medicine applications. This field has also grown to include new in vitro models for pharmaceutical screening, and more generally new building blocks that serve as inspiration for a number of other life science sectors, including food, cosmetic, detection, and diagnostic industries. Potential topics include, but are not limited to:

- Development and characterization of novel biomaterials for bioprinting application
- Design, realization, and characterization of novel biofabricated structures
- Novel Bioprinting approaches or platforms
- In vitro models of functional tissue
- 4D printing for bioprinting application

Guest Editor

Prof. Dr. Giovanni Vozzi

Department of Information Engineering & Research Center “E. Piaggio”, University of Pisa, Largo Lucio Lazzarino 1, 56122 Pisa, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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