

Topical Collection

Bioprinting in Healthcare and Therapeutic Continuity

Message from the Collection Editors

3D bioprinting enables the rapid customization of personalized medical devices, drugs, and applications, achieving the ability to restore human functionalities. This topical collection will collect articles related to the application of 3D printing/bioprinting in the medical sector, following the therapy continuity approach. Big data: biosensors and wearable devices or prototypes capable of collecting data and supporting the big-data chain;

Advance diagnostics: drug delivery devices and lab-on-chip and surgical trainers that support personalized treatment and planning;

Personalized medicine: implantable printed materials/devices that allowing tissue regeneration or drug delivery management (absorbable or not) and medical devices useful for improving standard medical approaches (i.e., bioprinted surgery devices);

Zero failure: prosthesis starting from CT or MRI and smart devices capable of reducing errors, rehospitalization via custom rehabilitation, and enabling personalized food and motor activity.

Finally, close attention will be paid to preclinical and clinical studies scalable on animals and humans.

Collection Editors

Prof. Dr. Ruben Foresti

Prof. Dr. Maddalena Botti

Prof. Dr. Fabio Leonardi

Dr. Pasquale D'Angelo

Dr. Roberto Sala



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

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Message from the Editor-in-Chief

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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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