

Special Issue

Medical Applications for 3D Bioprinting

Message from the Guest Editors

Bioprinting technologies have the ability to combine various human cell phenotypes, signaling proteins, extracellular matrix components, and other scaffold-like biomaterials, and are currently being used for the manufacture of tissue constructs in tissue engineering and regenerative medicine. However, many challenging intricacies have to be met before bioprinting technologies achieve their full potential. Novel smart bioinks have to recreate complex tissues and the crosstalk between the different cell phenotypes; in addition, their attributes need to be tailored to the bioprinting modality. The current Special Issue will cover a selection of articles that inform about novel bioink development, especially for bone, cartilage, tendon/ligament, muscle, and skin. Up-to-date reviews and original papers related to any aspect of medical applications (i.e., creating models for disease research, toxicity screening, functional drug evaluation, or translational clinical research) are welcome.

Guest Editors

Dr. Isabel Andia

Bioprinting Laboratory, Regenerative Therapies, Biocruces Bizkaia Health Research Institute, Cruces University Hospital, Plaza Cruces 12, 48903 Barakaldo, Bizkaia, Spain

Prof. Dr. Giovanna Della Porta

Department of Medicine, Surgery & Dentistry "Scuola Medica Salernitana", University of Salerno, Via S. Allende, 84081 Baronissi, Italy

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4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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