

Special Issue

3D Bioprinted Scaffolds for Tissue Engineering

Message from the Guest Editors

In recent decades, advances in 3D bioprinting have shown promising innovations in the biofabrication of complex structures. Three-dimensional bioprinting combines the use of a device called a bioprinter with bioinks which can be formulated from living cells, biomaterials, and biologically active molecules. The main objective of this technology is to create functional constructs that can replace, preserve, or improve damaged tissues or organs. Three-dimensional bioprinting of scaffolds and constructs with biological, mechanical, and structural characteristics similar to native tissue or organ is currently one of the major challenges in this area. This Special Issue aims to cover different aspects involved in the 3D bioprinting of artificial tissues and organs for biomedical applications and will include articles focused on the use of novel biomaterials for the bioprinting, design, and formulation of bionks, bioprinting and characterization of scaffolds and constructs, as well as the latest advances in research and clinic.

Guest Editors

Dr. Patricia Gálvez-Martín

1. R&D Project Manager, Department of Animal and Human Health, Bioibérica S.A.U., 08029 Barcelona, Spain
2. Department of Pharmacy and Pharmaceutical Technology, Faculty of Pharmacy, University of Granada, 18071 Granada, Spain

Dr. Beatriz Clares

Department of Pharmacy and Pharmaceutical Technology, Faculty of Pharmacy, University of Granada, University Campus of Cartuja, 18071 Granada, Spain

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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