

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

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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