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Bioprinting 2021

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Message from the Guest Editor

Dear Colleagues,

3D bioprinting is defined as the development of complex living and non-living biological constructs from materials including living cells, extracellular matrices, and biomaterials (also known as bioiniks). In the short term, bioprinting technology is essential for developing highly predictive living tissue-based technologies for drug discovery, and complex *in vitro* models of human diseases. In the long term, bioprinting can potentially contribute to the development of novel biotechnologies for organ transplants, gene therapy, smart drug delivery systems and biomimetic devices. Consequently, the wide range of potential applications of bioprinting strongly suggests that this emerging technology will become a new paradigm for 21st century manufacturing and biotechnology.

This special issue covers all aspects of 3D bioprinting technology with emphasis on the recent advances in the development and optimization of printhead technologies and bioinks. Topics covered include but not limited to printhead technogies, bioinks, pre-bioprinting, postbioprinting, biofabrication window, emerging applications of 3D bioprinting technology.









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Message from the Editor-in-Chief

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