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New Insights into the Development of In Situ Bioprinting for Tissue Engineering

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Deadline for manuscript submissions:

closed (20 December 2023)

Message from the Guest Editors

This Special Issue on “New Insights into the Development of In Situ Bioprinting for Tissue Engineering” will focus on original research papers and comprehensive reviews, reporting the most innovative works in the in situ bioprinting field that deal with both the technological and biological aspects of this topic. Topics of interest for this Special Issue include, but are not limited to, the following:

- Development of innovative robotic/handheld systems for in situ bioprinting;
- Path planning methods for robotic-based in situ biomaterial deposition;
- Combination of multiple bioprinting technologies to achieve multi-scale and multi-material in situ biofabrication;
- AI-based strategies for the severity assessment, localization and regeneration planning of anatomical defects;
- Development and optimization of biomaterials for in situ deposition and tissue regeneration.



mdpi.com/si/167286

Special Issue



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Message from the Editor-in-Chief

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