ACCSCIENCE PUBLISHING

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RESEARCH ARTICLE

High- precision depth-controlled laser bioprinting of cells in extracellular matrix for three-dimensional structures

Supplementary File

Video S1. Jet propagation of Bio-ink 1 (10,000 cells/μL) for 400 mJ/cm^2 laser fluence in observation Area A.

Video S2. Jet propagation of Bio-ink 2 (75.000 cells/μL) for 400 mJ/cm^2 laser fluence in observation Area A.

Video S3. Jet propagation of Bio-ink 1 (10,000 cells/μL) for 600 mJ/cm^2 laser fluence in observation Area A.

Video S4. Jet propagation of Bio-ink 2 (75,000 cells/μL) for 600 mJ/cm^2 laser fluence in observation Area A.

Video S5. Jet propagation of Bio-ink 1 (10,000 cells/μL) for 800 mJ/cm^2 laser fluence in observation Area A.

Video S6. Jet propagation of Bio-ink 2 (75,000 cells/μL) for 800 mJ/cm^2 laser fluence in observation Area A.

Video S7. Jet propagation of Bio-ink 1 (10,000 cells/μL) for 1000 mJ/cm^2 laser fluence in observation Area A.

Video S8. Jet propagation of Bio-ink 2 (75.000 cells/μL) for 1000 mJ/cm^2 laser fluence in observation Area A.

Video S9. Precise immobilization of Bio-ink 1 (10,000 cells/μL) in BME diluted with DMEM for 400 mJ/cm^2 laser fluence in observation Area B.

Video S10. Precise immobilization of Bio-ink 2 (75,000 cells/μL) in BME diluted with DMEM for 400 mJ/cm^2 laser fluence in observation Area B.

Video S11. Precise immobilization of Bio-ink 1 (10,000 cells/μL) in BME diluted with DMEM for 600 mJ/cm^2 laser fluence in observation Area B.

Video S12. Precise immobilization of Bio-ink 2 (75,000 cells/μL) in BME diluted with DMEM for 600 mJ/cm^2 laser fluence in observation Area B.

Video S13. Precise immobilization of Bio-ink 1 (10,000 cells/μL) in BME diluted with DMEM for 800 mJ/cm^2 laser fluence in observation Area B.

Video S14. Precise immobilization of Bio-ink 2 (75,000 cells/μL) in BME diluted with DMEM for 800 mJ/cm^2 laser fluence in observation Area B.

Video S15. Precise immobilization of Bio-ink 1 (10,000 cells/μL) in BME diluted with DMEM for 1,000 mJ/cm^2 laser fluence in observation Area B.

Video S16. Precise immobilization of Bio-ink 2 (75,000 cells/μL) in BME diluted with DMEM for 1,000 mJ/cm^2 laser fluence in observation Area B.

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