

Development of demineralized bone matrix based implantable and biomimetic microcarrier for stem cell expansion and single-step tissue-engineered bone graft construction

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Video Legends:

Animation 1: The construction of μ TEBGs using DBM-MC and BMSCs in integrated dynamic fabrication system for injectable bone tissue engineering applications. 1) Dynamic seeding: add DBM Microcarriers ; 2) Dynamic seeding: add seed cells; 3) Dynamic expansion: cell proliferation on microcarriers ; 4) Osteogenic differentiation: change into osteoinduce medium ; 5) Osteogenic differentiated micro-TEBG ; 6) Alginate + micro TEBG: injectable therapy application.