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## Interconnectable Dynamic Compression Bioreactors for Combinatorial Screening of Cell Mechanobiology in Three Dimensions

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#	Paper	IF	Citations
29	Bone physiology as inspiration for tissue regenerative therapies. <i>Biomaterials</i> , <b>2018</b> , 185, 240-275	15.6	145
28	A Microfluidic Platform for Stimulating Chondrocytes with Dynamic Compression. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	
27	Smart Biinks as de novo Building Blocks to Bioengineer Living Tissues. <i>Gels</i> , <b>2019</b> , 5,	4.2	3
26	Mechano-Immunomodulation: Mechanoresponsive Changes in Macrophage Activity and Polarization. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 2213-2231	4.7	27
25	Mimicking the Articular Joint with In Vitro Models. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 1063-1077	15.1	20
24	Structural mechanics of 3D-printed poly(lactic acid) scaffolds with tetragonal, hexagonal and wheel-like designs. <i>Biofabrication</i> , <b>2019</b> , 11, 035009	10.5	29
23	Biomimetic characterization reveals enhancement of hydroxyapatite formation by fluid flow in gellan gum and bioactive glass composite scaffolds. <i>Polymer Testing</i> , <b>2019</b> , 76, 464-472	4.5	5
22	Recent Advances in High-throughput Platforms with Engineered Biomaterial Microarrays for Screening of Cell and Tissue Behavior. <i>Current Pharmaceutical Design</i> , <b>2018</b> , 24, 5458-5470	3.3	4
21	A standalone bioreactor system to deliver compressive load under perfusion flow to hBMSC-seeded 3D chitosan-graphene templates. <i>Scientific Reports</i> , <b>2019</b> , 9, 16854	4.9	26
20	Hydrogel-integrated Microfluidic Systems for Advanced Stem Cell Engineering. <i>Biochip Journal</i> , <b>2019</b> , 13, 306-322	4	7
19	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801146	10.1	33
18	Getting the big picture of cell-matrix interactions: High-throughput biomaterial platforms and systems-level measurements. <i>Current Opinion in Solid State and Materials Science</i> , <b>2020</b> , 24, 100871-100871	12	1
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16	Stem Cell Mechanobiology and the Role of Biomaterials in Governing Mechanotransduction and Matrix Production for Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 597661	5.8	16
15	Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAP-Mediated Mechanosensing. <i>Small</i> , <b>2020</b> , 16, e2001837	11	14
14	High Throughput Screening of Cell Mechanical Response Using a Stretchable 3D Cellular Microarray Platform. <i>Small</i> , <b>2020</b> , 16, e2000941	11	11
13	Monolithic microfluidic platform for exerting gradients of compression on cell-laden hydrogels, and application to a model of the articular cartilage. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 315, 127917	8.5	9

12	Time-lapsed imaging of nanocomposite scaffolds reveals increased bone formation in dynamic compression bioreactors. <i>Communications Biology</i> , <b>2021</b> , 4, 110	6.7	3
11	High-throughput three-dimensional cellular platforms for screening biophysical microenvironmental signals. <b>2021</b> , 125-152		
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9	Advancing Regenerative Medicine Through the Development of Scaffold, Cell Biology, Biomaterials and Strategies of Smart Material. <i>Regenerative Engineering and Translational Medicine</i> , 1	2.4	
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