

Degradation-mediated cellular traction directs stem cell three-dimensional hydrogels

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Colloid-matrix assemblies in regenerative medicine. <i>Current Opinion in Colloid and Interface Science</i> , 2013, 18, 393-405.	3.4	9
2	Role of the extracellular matrix in regulating stem cell fate. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 467-473.	16.1	732
3	Mesenchymal Stem Cells Exploit Extracellular Matrix as Mechanotransducer. <i>Scientific Reports</i> , 2013, 3, 2425.	1.6	77
4	Cell-Material Interactions Revealed Via Material Techniques of Surface Patterning. <i>Advanced Materials</i> , 2013, 25, 5257-5286.	11.1	424
5	The independent roles of mechanical, structural and adhesion characteristics of 3D hydrogels on the regulation of cancer invasion and dissemination. <i>Biomaterials</i> , 2013, 34, 9486-9495.	5.7	101
6	A Microgel Construction Kit for Bioorthogonal Encapsulation and pH-Controlled Release of Living Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13538-13543.	7.2	145
7	Nuclear Lamin-A Scales with Tissue Stiffness and Enhances Matrix-Directed Differentiation. <i>Science</i> , 2013, 341, 1240104.	6.0	1,595
8	Monodisperse collagen-gelatin beads as potential platforms for 3D cell culturing. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5128.	2.9	75
9	Heart-Specific Stiffening in Early Embryos Parallels Matrix and Myosin Expression to Optimize Beating. <i>Current Biology</i> , 2013, 23, 2434-2439.	1.8	176
10	How cells sense extracellular matrix stiffness: a material's perspective. <i>Current Opinion in Biotechnology</i> , 2013, 24, 948-953.	3.3	165
11	Modulating polymer chemistry to enhance non-viral gene delivery inside hydrogels with tunable matrix stiffness. <i>Biomaterials</i> , 2013, 34, 9657-9665.	5.7	24
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15	Photodegradable Supramolecular Hydrogels with Fluorescence Turn-On Reporter for Photomodulation of Cellular Microenvironments. <i>Journal of the American Chemical Society</i> , 2013, 135, 18718-18721.	6.6	146
16	Synthesis and orthogonal photopatterning of hyaluronic acid hydrogels with thiol-norbornene chemistry. <i>Biomaterials</i> , 2013, 34, 9803-9811.	5.7	263
17	Rational Design of Network Properties in Guest-Host Assembled and Shear-Thinning Hyaluronic Acid Hydrogels. <i>Biomacromolecules</i> , 2013, 14, 4125-4134.	2.6	349
18	Review on Cell Mechanics: Experimental and Modeling Approaches. <i>Applied Mechanics Reviews</i> , 2013, 65, .	4.5	164

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20	Hydrogels preserve native phenotypes of valvular fibroblasts through an elasticity-regulated PI3K/AKT pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19336-19341.	3.3	140
22	Matrix identity and tractional forces influence indirect cardiac reprogramming. <i>Scientific Reports</i> , 2013, 3, 3474.	1.6	33
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24	Biofunctionalization of Hydrogels for Engineering the Cellular Microenvironment. , 2014, , 315-348.		3
26	Restraint of the Differentiation of Mesenchymal Stem Cells by a Nonfouling Zwitterionic Hydrogel. <i>Angewandte Chemie</i> , 2014, 126, 12943-12948.	1.6	17
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38	3D Traction Stresses Activate Protease-Dependent Invasion of Cancer Cells. <i>Biophysical Journal</i> , 2014, 107, 2528-2537.	0.2	77

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