

Manipulating Cell Nanomechanics Using Micropatterns

Advanced Functional Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synergetic stimulation of nanostructure and chemistry cues on behaviors of fibroblasts and endothelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 500-509.	2.5	8
2	Fabrication of gelatin-micropatterned surface and its effect on osteogenic differentiation of hMSCs. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1018-1025.	2.9	9
3	Valence State Manipulation of Cerium Oxide Nanoparticles on a Titanium Surface for Modulating Cell Fate and Bone Formation. <i>Advanced Science</i> , 2018, 5, 1700678.	5.6	114
4	Fabrication of Multiple-Layered Hydrogel Scaffolds with Elaborate Structure and Good Mechanical Properties via 3D Printing and Ionic Reinforcement. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18338-18350.	4.0	51
5	The influence of carbon-encapsulated iron nanoparticles on elastic modulus of living human mesenchymal stem cells examined by atomic force microscopy. <i>Micron</i> , 2018, 108, 41-48.	1.1	21
6	The Role of Nanomechanics in Healthcare. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700793.	3.9	13
7	Zero-dimensional, one-dimensional, two-dimensional and three-dimensional biomaterials for cell fate regulation. <i>Advanced Drug Delivery Reviews</i> , 2018, 132, 33-56.	6.6	55
8	Regulation of mesenchymal stem cell functions by micro/nano hybrid patterned surfaces. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5424-5434.	2.9	31
9	Bidirectional Transport of Nanoparticles and Cells with a Bio-Conveyor Belt. <i>Small</i> , 2019, 15, e1905209.	5.2	14
10	Influence of Cell Spreading Area on the Osteogenic Commitment and Phenotype Maintenance of Mesenchymal Stem Cells. <i>Scientific Reports</i> , 2019, 9, 6891.	1.6	43
11	Synergetic effect of chemical and topological signals of gingival regeneration scaffold on the behavior of human gingival fibroblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1875-1885.	2.1	8
12	Graphene Oxide-Based Biosensors for Liquid Biopsies in Cancer Diagnosis. <i>Nanomaterials</i> , 2019, 9, 1725.	1.9	18
13	Influence of Cell Morphology on Mesenchymal Stem Cell Transfection. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1932-1941.	4.0	26
14	Dynamic Contact Guidance of Myoblasts by Feature Size and Reversible Switching of Substrate Topography: Orchestration of Cell Shape, Orientation, and Nematic Ordering of Actin Cytoskeletons. <i>Langmuir</i> , 2019, 35, 7538-7551.	1.6	24
15	A stage-specific cell-manipulation platform for inducing endothelialization on demand. <i>National Science Review</i> , 2020, 7, 629-643.	4.6	38
16	Graphene Oxide-Based Nanomaterials: An Insight into Retinal Prosthesis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2957.	1.8	19
17	The varied influences of cell adhesion and spreading on gene transfection of mesenchymal stem cells on a micropatterned substrate. <i>Acta Biomaterialia</i> , 2021, 125, 100-111.	4.1	26
18	Micropattern-controlled chirality of focal adhesions regulates the cytoskeletal arrangement and gene transfection of mesenchymal stem cells. <i>Biomaterials</i> , 2021, 271, 120751.	5.7	27

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19	Hypervalent Iodine Compounds as Versatile Reagents for Extremely Efficient and Reversible Patterning of Graphene with Nanoscale Precision. <i>Advanced Materials</i> , 2021, 33, e2101653.	11.1	9
20	Regulation of Stem Cell Functions by Micro-Patterned Structures. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1250, 141-155.	0.8	4
21	Micropatternâ€Controlled Cell Density and Its Effect on Gene Transfection of Mesenchymal Stem Cells. <i>Advanced Materials Interfaces</i> , 0, , 2101978.	1.9	6
22	Micro-patterned cell populations as advanced pharmaceutical drugs with precise functional control. <i>Advanced Drug Delivery Reviews</i> , 2022, 184, 114169.	6.6	10
23	Influences of viscosity on the osteogenic and adipogenic differentiation of mesenchymal stem cells with controlled morphology. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3989-4001.	2.9	9
24	Morphological Dependence of Breast Cancer Cell Responses to Doxorubicin on Micropatterned Surfaces. <i>Polymers</i> , 2022, 14, 2761.	2.0	1
25	Regulation of micropatterned curvature-dependent FA heterogeneity on cytoskeleton tension and nuclear DNA synthesis of malignant breast cancer cells. <i>Journal of Materials Chemistry B</i> , 2022, 11, 99-108.	2.9	1
26	Cellular nanomechanics derived from pattern-dependent focal adhesion and cytoskeleton to balance gene transfection of malignant osteosarcoma. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	3
28	Fabrication of micro-nano patterned materials mimicking the topological structure of extracellular matrix for biomedical applications. <i>Nano Research</i> , 0, , .	5.8	0