

Matthew R Zanotelli

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,215
citations

623734

14
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

1864
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix stiffening promotes a tumor vasculature phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 492-497.	7.1	295
2	Mechanoresponsive metabolism in cancer cell migration and metastasis. <i>Cell Metabolism</i> , 2021, 33, 1307-1321.	16.2	127
3	Regulation of ATP utilization during metastatic cell migration by collagen architecture. <i>Molecular Biology of the Cell</i> , 2018, 29, 1-9.	2.1	118
4	Mechanical Forces in Tumor Angiogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1092, 91-112.	1.6	93
5	Energetic costs regulated by cell mechanics and confinement are predictive of migration path during decision-making. <i>Nature Communications</i> , 2019, 10, 4185.	12.8	92
6	Fiber alignment drives changes in architectural and mechanical features in collagen matrices. <i>PLoS ONE</i> , 2019, 14, e0216537.	2.5	90
7	Stable engineered vascular networks from human induced pluripotent stem cell-derived endothelial cells cultured in synthetic hydrogels. <i>Acta Biomaterialia</i> , 2016, 35, 32-41.	8.3	86
8	Differential effects of cell adhesion, modulus and VEGFR-2 inhibition on capillary network formation in synthetic hydrogel arrays. <i>Biomaterials</i> , 2014, 35, 2149-2161.	11.4	62
9	Matrix stiffness enhances VEGFR-2 internalization, signaling, and proliferation in endothelial cells. <i>Convergent Science Physical Oncology</i> , 2017, 3, 044001.	2.6	55
10	Simvastatin Ameliorates Matrix Stiffness-Mediated Endothelial Monolayer Disruption. <i>PLoS ONE</i> , 2016, 11, e0147033.	2.5	39
11	Clinical doses of radiation reduce collagen matrix stiffness. <i>APL Bioengineering</i> , 2018, 2, 031901.	6.2	36
12	Extent of Cell Confinement in Microtracks Affects Speed and Results in Differential Matrix Strains. <i>Biophysical Journal</i> , 2019, 117, 1692-1701.	0.5	27
13	Matrix-driven changes in metabolism support cytoskeletal activity to promote cell migration. <i>Biophysical Journal</i> , 2021, 120, 1705-1717.	0.5	23
14	Binding of Anticell Adhesive Oximeâ€”Crosslinked PEG Hydrogels to Cardiac Tissues. <i>Advanced Healthcare Materials</i> , 2015, 4, 1327-1331.	7.6	16
15	Highly motile cells are metabolically responsive to collagen density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2114672119.	7.1	15
16	Microstructured hydrogel scaffolds containing differential density interfaces promote rapid cellular invasion and vascularization. <i>Acta Biomaterialia</i> , 2019, 91, 144-158.	8.3	14
17	Subcellular regulation of cancer cell mechanics. <i>Current Opinion in Biomedical Engineering</i> , 2017, 1, 8-14.	3.4	12
18	An ovarian bioreactor for in vitro culture of the whole bovine ovary: a preliminary report. <i>Journal of Ovarian Research</i> , 2016, 9, 47.	3.0	6

#	ARTICLE	IF	CITATIONS
19	The Physical Microenvironment of Tumors: Characterization and Clinical Impact. Biophysical Reviews and Letters, 2020, 15, 51-82.	0.8	3
20	The Physical Microenvironment of Tumors: Characterization and Clinical Impact. , 2020, , 165-195.		2