

# Jennifer L Leight

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,547  
citations

567281

15  
h-index

610901

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

2638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix rigidity regulates a switch between TGF- $\beta$ 1-induced apoptosis and epithelial-mesenchymal transition. <i>Molecular Biology of the Cell</i> , 2012, 23, 781-791.	2.1	389
2	Negative normal stress in semiflexible biopolymer gels. <i>Nature Materials</i> , 2007, 6, 48-51.	27.5	332
3	Development of a Cellularly Degradable PEG Hydrogel to Promote Articular Cartilage Extracellular Matrix Deposition. <i>Advanced Healthcare Materials</i> , 2015, 4, 702-713.	7.6	139
4	Filamin A- $\beta$ 1 Integrin Complex Tunes Epithelial Cell Response to Matrix Tension. <i>Molecular Biology of the Cell</i> , 2009, 20, 3224-3238.	2.1	103
5	Extracellular Matrix Remodeling and Stiffening Modulate Tumor Phenotype and Treatment Response. <i>Annual Review of Cancer Biology</i> , 2017, 1, 313-334.	4.5	101
6	Demystifying the Effects of a Three-Dimensional Microenvironment in Tissue Morphogenesis. <i>Methods in Cell Biology</i> , 2007, 83, 547-583.	1.1	72
7	Direct measurement of matrix metalloproteinase activity in 3D cellular microenvironments using a fluorogenic peptide substrate. <i>Biomaterials</i> , 2013, 34, 7344-7352.	11.4	72
8	Modulation of matrix elasticity with PEG hydrogels to study melanoma drug responsiveness. <i>Biomaterials</i> , 2014, 35, 4310-4318.	11.4	57
9	Multifunctional bioscaffolds for 3D culture of melanoma cells reveal increased MMP activity and migration with BRAF kinase inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5366-5371.	7.1	52
10	Synthesis of Microgel Sensors for Spatial and Temporal Monitoring of Protease Activity. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 378-387.	5.2	36
11	Stromal PTEN Regulates Extracellular Matrix Organization in the Mammary Gland. <i>Neoplasia</i> , 2019, 21, 132-145.	5.3	35
12	Matrix compliance permits NF- $\kappa$ B activation to drive therapy resistance in breast cancer. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	27
13	Matrix-metalloproteinase expression and gelatinase activity in the avian retina and their influence on Müller glia proliferation. <i>Experimental Neurology</i> , 2019, 320, 112984.	4.1	24
14	<i>MDM2</i> Derived from Dedifferentiated Liposarcoma Extracellular Vesicles Induces MMP2 Production from Preadipocytes. <i>Cancer Research</i> , 2019, 79, 4911-4922.	0.9	23
15	Cellular Mechanics of Primary Human Cervical Fibroblasts: Influence of Progesterone and a Pro-inflammatory Cytokine. <i>Annals of Biomedical Engineering</i> , 2018, 46, 197-207.	2.5	20
16	Manipulation of 3D Cluster Size and Geometry by Release from 2D Micropatterns. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 299-306.	2.1	13
17	Myoferlin regulates epithelial cancer cell plasticity and migration through autocrine TGF- $\beta$ 1 signaling. <i>Oncotarget</i> , 2018, 9, 19209-19222.	1.8	13
18	Tumor cell-conditioned media drives collagen remodeling via fibroblast and pericyte activation in an in vitro premetastatic niche model. <i>iScience</i> , 2022, 25, 104645.	4.1	9

#	ARTICLE	IF	CITATIONS
19	Pten regulates collagen fibrillogenesis by fibroblasts through SPARC. PLoS ONE, 2021, 16, e0245653.	2.5	8
20	Detection of proteolytic activity by covalent tethering of fluorogenic substrates in zymogram gels. BioTechniques, 2018, 64, 203-210.	1.8	6
21	High-Throughput Three-Dimensional Hydrogel Cell Encapsulation Assay for Measuring Matrix Metalloproteinase Activity. Assay and Drug Development Technologies, 2019, 17, 100-115.	1.2	6
22	Measuring Global Cellular Matrix Metalloproteinase and Metabolic Activity in 3D Hydrogels. Journal of Visualized Experiments, 2019, , .	0.3	2
23	Detection of Protease Activity by Fluorescent Peptide Zymography. Journal of Visualized Experiments, 2019, , .	0.3	1