

Collagen density promotes mammary tumor initiation and

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Extracellular matrix control of mammary gland morphogenesis and tumorigenesis: insights from imaging. <i>Histochemistry and Cell Biology</i> , 2008, 130, 1105-18.	0.8	142
2	Interlobular and intralobular mammary stroma: Genotype may not reflect phenotype. <i>BMC Cell Biology</i> , 2008, 9, 46.	3.0	27
3	Contact Guidance Mediated Three-Dimensional Cell Migration is Regulated by Rho/ROCK-Dependent Matrix Reorganization. <i>Biophysical Journal</i> , 2008, 95, 5374-5384.	0.2	426
4	Diffuse optical spectroscopy of breast tissue extended to 1100nm. <i>Journal of Biomedical Optics</i> , 2009, 14, 054030.	1.4	65
5	Regulation of cancer invasiveness by the physical extracellular matrix environment. <i>Cell Adhesion and Migration</i> , 2009, 3, 288-292.	1.1	74
6	Shining new light on 3D cell motility and the metastatic process. <i>Trends in Cell Biology</i> , 2009, 19, 638-648.	3.6	56
7	Staged stromal extracellular 3D matrices differentially regulate breast cancer cell responses through PI3K and beta1-integrins. <i>BMC Cancer</i> , 2009, 9, 94.	1.1	85
8	A Stiff Blow from the Stroma: Collagen Crosslinking Drives Tumor Progression. <i>Cancer Cell</i> , 2009, 16, 455-457.	7.7	121
9	Multi-wavelength fluorescence lifetime spectroscopy: a new approach to the study of endogenous fluorescence in living cells and tissues. <i>Laser Physics Letters</i> , 2009, 6, 175-193.	0.6	173
10	A novel model-gel-tissue assay analysis for comparing tumor elastic properties to collagen content. <i>Biomechanics and Modeling in Mechanobiology</i> , 2009, 8, 337-343.	1.4	5
11	Mechanics, malignancy, and metastasis: The force journey of a tumor cell. <i>Cancer and Metastasis Reviews</i> , 2009, 28, 113-127.	2.7	791
12	Multiphoton microscopy and fluorescence lifetime imaging microscopy (FLIM) to monitor metastasis and the tumor microenvironment. <i>Clinical and Experimental Metastasis</i> , 2009, 26, 357-370.	1.7	185
13	Fluorescence Lifetime Imaging of Endogenous Fluorophores in Histopathology Sections Reveals Differences Between Normal and Tumor Epithelium in Carcinoma In Situ of the Breast. <i>Cell Biochemistry and Biophysics</i> , 2009, 53, 145-157.	0.9	125
14	A tense situation: forcing tumour progression. <i>Nature Reviews Cancer</i> , 2009, 9, 108-122.	12.8	1,636
15	Random versus directionally persistent cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 538-549.	16.1	835
16	Matrix density-induced mechanoregulation of breast cell phenotype, signaling and gene expression through a FAK-ERK linkage. <i>Oncogene</i> , 2009, 28, 4326-4343.	2.6	557
17	Adhesion and migration of ovarian cancer cells on crosslinked laminin fibers nanofabricated by multiphoton excited photochemistry. <i>Integrative Biology (United Kingdom)</i> , 2009, 1, 469.	0.6	25
18	Protease-dependent versus -independent cancer cell invasion programs: three-dimensional amoeboid movement revisited. <i>Journal of Cell Biology</i> , 2009, 185, 11-19.	2.3	576

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19	NON-LINEAR OPTICAL IMAGING OF OBESITY-RELATED HEALTH RISKS: REVIEW. Journal of Innovative Optical Health Sciences, 2009, 02, 9-25.	0.5	4
20	Intravital imaging of anti-tumor immune response and the tumor microenvironment. Seminars in Immunopathology, 2010, 32, 305-317.	2.8	23
21	Mechanical Interactions of Mouse Mammary Gland Cells with Collagen in a Three-Dimensional Construct. Annals of Biomedical Engineering, 2010, 38, 2485-2498.	1.3	12
22	Extracellular Matrix Composition Reveals Complex and Dynamic Stromal-Epithelial Interactions in the Mammary Gland. Journal of Mammary Gland Biology and Neoplasia, 2010, 15, 301-318.	1.0	97
23	Physico-mechanical aspects of extracellular matrix influences on tumorigenic behaviors. Seminars in Cancer Biology, 2010, 20, 139-145.	4.3	108
24	The microenvironment determines the breast cancer cells' phenotype: organization of MCF7 cells in 3D cultures. BMC Cancer, 2010, 10, 263.	1.1	99
25	Cellular mechanisms regulating epithelial morphogenesis and cancer invasion. Current Opinion in Cell Biology, 2010, 22, 640-650.	2.6	60
26	Oxidative stress promotes myofibroblast differentiation and tumour spreading. EMBO Molecular Medicine, 2010, 2, 211-230.	3.3	261
27	The role of collagen reorganization on mammary epithelial morphogenesis in a 3D culture model. Biomaterials, 2010, 31, 3622-3630.	5.7	71
28	The Effects of Aging on the Molecular and Cellular Composition of the Prostate Microenvironment. PLoS ONE, 2010, 5, e12501.	1.1	104
29	Breast Tissue Composition and Susceptibility to Breast Cancer. Journal of the National Cancer Institute, 2010, 102, 1224-1237.	3.0	378
30	Collagen Extracts Derived From Young and Aged Mice Demonstrate Different Structural Properties and Cellular Effects in Three-Dimensional Gels. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010, 65A, 209-218.	1.7	22
31	Cell-Matrix Interactions in Mammary Gland Development and Breast Cancer. Cold Spring Harbor Perspectives in Biology, 2010, 2, a003202-a003202.	2.3	143
32	A model of cell migration within the extracellular matrix based on a phenotypic switching mechanism. Mathematical Medicine and Biology, 2010, 27, 255-281.	0.8	36
33	Distinguishing phyllodes from fibroadenoma by immunohistochemical and swept source-optical coherence tomography studies. , 2010, , .		1
34	Noninvasive assessment of breast cancer risk using time-resolved diffuse optical spectroscopy. Journal of Biomedical Optics, 2010, 15, 060501.	1.4	76
35	Mammographic density as a predictor of breast cancer outcome. Future Oncology, 2010, 6, 351-354.	1.1	10
36	Breast Cancer DNA Methylation Profiles Are Associated with Tumor Size and Alcohol and Folate Intake. PLoS Genetics, 2010, 6, e1001043.	1.5	149

#	ARTICLE	IF	CITATIONS
37	Cancer Cell Stiffness: Integrated Roles of Three-Dimensional Matrix Stiffness and Transforming Potential. <i>Biophysical Journal</i> , 2010, 99, 2048-2057.	0.2	137
38	Alterations of the extracellular matrix in ovarian cancer studied by Second Harmonic Generation imaging microscopy. <i>BMC Cancer</i> , 2010, 10, 94.	1.1	227
39	Wide-field fluorescence lifetime imaging of cancer. <i>Biomedical Optics Express</i> , 2010, 1, 627.	1.5	95
40	Fluorescence Lifetime Measurements and Biological Imaging. <i>Chemical Reviews</i> , 2010, 110, 2641-2684.	23.0	1,860
41	Stroma in breast development and disease. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 11-18.	2.3	113
42	Proteoglycans: Master modulators of paracrine fibroblast-carcinoma cell interactions. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 66-71.	2.3	12
43	Alternatively Activated Macrophages and Collagen Remodeling Characterize the Postpartum Involuting Mammary Gland across Species. <i>American Journal of Pathology</i> , 2010, 176, 1241-1255.	1.9	251
44	Strategies for High Resolution Imaging of Epithelial Ovarian Cancer by Laparoscopic Nonlinear Microscopy. <i>Translational Oncology</i> , 2010, 3, 181-194.	1.7	86
45	Hypoxic Tumor Microenvironments Reduce Collagen I Fiber Density. <i>Neoplasia</i> , 2010, 12, 608-617.	2.3	73
46	A Biomechanical model of spiculated tumours under mammographic compressions. , 2010, 2010, 712-5.		1
47	<i>In situ</i> force mapping of mammary gland transformation. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 910-921.	0.6	242
48	Second Harmonic Generation Imaging Microscopy: Applications to Diseases Diagnostics. <i>Analytical Chemistry</i> , 2011, 83, 3224-3231.	3.2	322
49	Sensing and Modulation of Invadopodia across a Wide Range of Rigidities. <i>Biophysical Journal</i> , 2011, 100, 573-582.	0.2	108
50	Remodeling and homeostasis of the extracellular matrix: implications for fibrotic diseases and cancer. <i>DMM Disease Models and Mechanisms</i> , 2011, 4, 165-178.	1.2	1,248
51	Clinical implications of cancer self-seeding. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 369-377.	12.5	266
52	The Role of Myofibroblasts in Communicating Tumor Ecosystems. , 2011, , 75-89.		0
53	Postpartum mammary gland involution drives progression of ductal carcinoma in situ through collagen and COX-2. <i>Nature Medicine</i> , 2011, 17, 1109-1115.	15.2	318
54	Syndecan-1 in Breast Cancer Stroma Fibroblasts Regulates Extracellular Matrix Fiber Organization and Carcinoma Cell Motility. <i>American Journal of Pathology</i> , 2011, 178, 325-335.	1.9	119

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55	Aligned Collagen Is a Prognostic Signature for Survival in Human Breast Carcinoma. American Journal of Pathology, 2011, 178, 1221-1232.	1.9	1,026
56	Breast Cancer. American Journal of Pathology, 2011, 178, 966-968.	1.9	5
57	Quantitative microscopy and imaging tools for the mechanical analysis of morphogenesis. Current Opinion in Genetics and Development, 2011, 21, 664-670.	1.5	15
58	Structural changes in mixed Col I/Col V collagen gels probed by SHG microscopy: implications for probing stromal alterations in human breast cancer. Biomedical Optics Express, 2011, 2, 2307.	1.5	78
59	Mechanical phenotype is important for stromal aromatase expression. Steroids, 2011, 76, 797-801.	0.8	10
60	Replacement of E-cadherin by N-cadherin in the mammary gland leads to fibrocystic changes and tumor formation. Breast Cancer Research, 2011, 13, R104.	2.2	38
61	Regulation of tumor invasion by interstitial fluid flow. Physical Biology, 2011, 8, 015012.	0.8	96
62	Cancer as development gone awry: the case for bisphenol-A as a carcinogen. Journal of Developmental Origins of Health and Disease, 2011, 2, 9-16.	0.7	9
63	Spheroid Assay to Measure TGF- β 2-induced Invasion. Journal of Visualized Experiments, 2011, , .	0.2	24
64	Forcing form and function: biomechanical regulation of tumor evolution. Trends in Cell Biology, 2011, 21, 47-56.	3.6	270
65	Extracellular matrix determinants of proteolytic and non-proteolytic cell migration. Trends in Cell Biology, 2011, 21, 736-744.	3.6	293
66	Systems biology beyond networks: Generating order from disorder through self-organization. Seminars in Cancer Biology, 2011, 21, 165-174.	4.3	64
67	Mechanisms by Which the Extracellular Matrix and Integrin Signaling Act to Regulate the Switch Between Tumor Suppression and Tumor Promotion. Journal of Mammary Gland Biology and Neoplasia, 2011, 16, 205-219.	1.0	133
68	The TGF- β 2/Smad pathway induces breast cancer cell invasion through the up-regulation of matrix metalloproteinase 2 and 9 in a spheroid invasion model system. Breast Cancer Research and Treatment, 2011, 128, 657-666.	1.1	179
69	Colorectal cancer desmoplastic reaction up-regulates collagen synthesis and restricts cancer cell invasion. Cell and Tissue Research, 2011, 346, 223-236.	1.5	55
70	Biomechanical Forces Shape the Tumor Microenvironment. Annals of Biomedical Engineering, 2011, 39, 1379-1389.	1.3	144
71	Label-free discrimination of normal and fibroadenomal breast tissues using second harmonic generation imaging. Scanning, 2011, 33, 208-210.	0.7	9
72	Second harmonic generation microscopy: principles and applications to disease diagnosis. Laser and Photonics Reviews, 2011, 5, 13-26.	4.4	177

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73	Multimodal nonlinear optical microscopy. <i>Laser and Photonics Reviews</i> , 2011, 5, 496-512.	4.4	139
74	Markers of fibrosis and epithelial to mesenchymal transition demonstrate field cancerization in histologically normal tissue adjacent to breast tumors. <i>International Journal of Cancer</i> , 2011, 129, 1310-1321.	2.3	74
75	Combined information from AFM imaging and SHG signal analysis of collagen thin films. <i>Biomedical Signal Processing and Control</i> , 2011, 6, 307-313.	3.5	20
76	Recognition of serous ovarian tumors in human samples by multimodal nonlinear optical microscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 096017.	1.4	37
77	MRI of metastasis-permissive microenvironments. <i>Future Oncology</i> , 2011, 7, 1269-1284.	1.1	15
78	Altered AIB1 or AIB1 ^{Δ3} Expression Impacts ER α Effects on Mammary Gland Stromal and Epithelial Content. <i>Molecular Endocrinology</i> , 2011, 25, 549-563.	3.7	20
79	Two-photon laser-generated microtracks in 3D collagen lattices: principles of MMP-dependent and -independent collective cancer cell invasion. <i>Physical Biology</i> , 2011, 8, 015010.	0.8	120
80	Mechanical signaling through the cytoskeleton regulates cell proliferation by coordinated focal adhesion and Rho GTPase signaling. <i>Journal of Cell Science</i> , 2011, 124, 1195-1205.	1.2	423
81	Mammary Gland ECM Remodeling, Stiffness, and Mechanosignaling in Normal Development and Tumor Progression. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a003228-a003228.	2.3	373
82	Adipose progenitor cells increase fibronectin matrix strain and unfolding in breast tumors. <i>Physical Biology</i> , 2011, 8, 015008.	0.8	65
83	Engineering strategies to recapitulate epithelial morphogenesis within synthetic three-dimensional extracellular matrix with tunable mechanical properties. <i>Physical Biology</i> , 2011, 8, 026013.	0.8	72
84	Tumor Cell Invasion Is Promoted by Interstitial Flow-Induced Matrix Priming by Stromal Fibroblasts. <i>Cancer Research</i> , 2011, 71, 790-800.	0.4	151
85	An α -catenin ^Δ Cell Adhesion and Migration, 2012, 6, 236-435.	1.1	34
86	Synergistic Modulation of Cellular Contractility by Mixed Extracellular Matrices. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-13.	1.0	8
87	Breast cancer cell-derived matrix supports vascular morphogenesis. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1243-C1256.	2.1	40
88	A Synthetic Matrix with Independently Tunable Biochemistry and Mechanical Properties to Study Epithelial Morphogenesis and EMT in a Lung Adenocarcinoma Model. <i>Cancer Research</i> , 2012, 72, 6013-6023.	0.4	155
89	CD36 Repression Activates a Multicellular Stromal Program Shared by High Mammographic Density and Tumor Tissues. <i>Cancer Discovery</i> , 2012, 2, 826-839.	7.7	157
90	Intravital third harmonic generation microscopy of collective melanoma cell invasion. <i>Intravital</i> , 2012, 1, 32-43.	2.0	277

#	ARTICLE	IF	CITATIONS
91	Quantifying collagen structure in breast biopsies using second-harmonic generation imaging. <i>Biomedical Optics Express</i> , 2012, 3, 2021.	1.5	120
92	Why the stroma matters in breast cancer. <i>Cell Adhesion and Migration</i> , 2012, 6, 249-260.	1.1	196
93	Could NSAIDs become a preventative therapy in pregnancy-associated breast cancer?. <i>Breast Cancer Management</i> , 2012, 1, 39-46.	0.2	3
94	Collagen I fiber density increases in lymph node positive breast cancers: pilot study. <i>Journal of Biomedical Optics</i> , 2012, 17, 116017.	1.4	95
95	Quantitative changes in human epithelial cancers and osteogenesis imperfecta disease detected using nonlinear multicontrast microscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 081407.	1.4	28
96	Controlling matrix stiffness and topography for the study of tumor cell migration. <i>Cell Adhesion and Migration</i> , 2012, 6, 274-279.	1.1	70
97	Interstitial fluid flow increases invasion of ductal carcinoma in situ-like cells through PI3K-dependent mechanisms. , 2012, , .		0
98	Desmoplasia: A Response or a Niche?. <i>Cancer Discovery</i> , 2012, 2, 772-774.	7.7	66
99	Fibrillar Type I Collagen Matrices Enhance Metastasis/Invasion of Ovarian Epithelial Cancer Via β 1 Integrin and PTEN Signals. <i>International Journal of Gynecological Cancer</i> , 2012, 22, 1316-1324.	1.2	36
100	Three-dimensional Cell Culture Model for Measuring the Effects of Interstitial Fluid Flow on Tumor Cell Invasion. <i>Journal of Visualized Experiments</i> , 2012, , .	0.2	10
101	Adhesion rings surround invadopodia and promote maturation. <i>Biology Open</i> , 2012, 1, 711-722.	0.6	117
102	Time-Domain Broadband near Infrared Spectroscopy of the Female Breast: A Focused Review from Basic Principles to Future Perspectives. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 223-235.	0.8	37
103	Rat Mammary Extracellular Matrix Composition and Response to Ibuprofen Treatment During Postpartum Involution by Differential Gel ¹ MS/MS Analysis. <i>Journal of Proteome Research</i> , 2012, 11, 4894-4905.	1.8	31
104	Mechanobiology of tumor invasion: Engineering meets oncology. <i>Critical Reviews in Oncology/Hematology</i> , 2012, 83, 170-183.	2.0	65
105	A tip for diagnosing cancer. <i>Nature Nanotechnology</i> , 2012, 7, 691-692.	15.6	63
106	The Proline Regulatory Axis and Cancer. <i>Frontiers in Oncology</i> , 2012, 2, 60.	1.3	120
107	A new paradigm for mechanobiological mechanisms in tumor metastasis. <i>Seminars in Cancer Biology</i> , 2012, 22, 385-395.	4.3	68
108	Biomechanics of breast tumor: effect of collagen and tissue density. <i>International Journal of Mechanics and Materials in Design</i> , 2012, 8, 257-267.	1.7	8

#	ARTICLE	IF	CITATIONS
109	Interstitial Fluid and Lymph Formation and Transport: Physiological Regulation and Roles in Inflammation and Cancer. <i>Physiological Reviews</i> , 2012, 92, 1005-1060.	13.1	538
110	Matrix compliance regulates Rac1b localization, NADPH oxidase assembly, and epithelialâ€mesenchymal transition. <i>Molecular Biology of the Cell</i> , 2012, 23, 4097-4108.	0.9	97
111	Regulation of ROCK1 via Notch1 during breast cancer cell migration into dense matrices. <i>BMC Cell Biology</i> , 2012, 13, 12.	3.0	25
112	The invasion mode of GH3 cells is conditioned by collagen subtype, and its efficiency depends on cellâ€cell adhesion. <i>Archives of Biochemistry and Biophysics</i> , 2012, 528, 148-155.	1.4	7
113	Targeting the Tumor Stroma as a Novel Treatment Strategy for Breast Cancer. <i>Advances in Pharmacology</i> , 2012, 65, 45-61.	1.2	53
114	Lysyl Oxidase, Extracellular Matrix Remodeling and Cancer Metastasis. <i>Cancer Microenvironment</i> , 2012, 5, 261-273.	3.1	189
116	Stromal biomarkers in breast cancer development and progression. <i>Clinical and Experimental Metastasis</i> , 2012, 29, 663-672.	1.7	32
117	Microfabricated mimics of in vivo structural cues for the study of guided tumor cell migration. <i>Lab on A Chip</i> , 2012, 12, 4424.	3.1	49
118	Decorin Protein Core Affects the Global Gene Expression Profile of the Tumor Microenvironment in a Triple-Negative Orthotopic Breast Carcinoma Xenograft Model. <i>PLoS ONE</i> , 2012, 7, e45559.	1.1	77
119	Optical Biomarkers of Serous and Mucinous Human Ovarian Tumor Assessed with Nonlinear Optics Microscopies. <i>PLoS ONE</i> , 2012, 7, e47007.	1.1	48
120	Breast epithelial tissue morphology is affected in 3D cultures by speciesâ€specific collagenâ€based extracellular matrix. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2905-2912.	2.1	12
121	Caveolin-1 and Cancer Metabolism in the Tumor Microenvironment: Markers, Models, and Mechanisms. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2012, 7, 423-467.	9.6	249
122	Lymphatic and interstitial flow in the tumour microenvironment: linking mechanobiology with immunity. <i>Nature Reviews Cancer</i> , 2012, 12, 210-219.	12.8	461
123	Biophysical control of invasive tumor cell behavior by extracellular matrix microarchitecture. <i>Biomaterials</i> , 2012, 33, 4157-4165.	5.7	159
124	Engineering microscale topographies to control the cellâ€substrate interface. <i>Biomaterials</i> , 2012, 33, 5230-5246.	5.7	568
125	Mammographic density as a predictor of breast cancer survival: the Multiethnic Cohort. <i>Breast Cancer Research</i> , 2013, 15, R7.	2.2	56
126	Endocrine Disruptors and the Breast: Early Life Effects and Later Life Disease. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2013, 18, 43-61.	1.0	129
127	Mechanical forces in lymphatic vascular development and disease. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 4341-4354.	2.4	48

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128	Role of Oxidative Stress and the Microenvironment in Breast Cancer Development and Progression. <i>Advances in Cancer Research</i> , 2013, 119, 107-125.	1.9	153
129	Mammographic Density: Potential as a Risk Factor and Surrogate Marker in the Clinical Setting. <i>Current Breast Cancer Reports</i> , 2013, 5, 183-193.	0.5	6
130	Collagen architecture in pregnancy-induced protection from breast cancer. <i>Journal of Cell Science</i> , 2013, 126, 4108-10.	1.2	87
131	Measurement of bioelectric and acoustic profile of breast tissue using hybrid magnetoacoustic method for cancer detection. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 459-466.	1.6	12
132	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
133	Tumor metastasis: moving new biological insights into the clinic. <i>Nature Medicine</i> , 2013, 19, 1450-1464.	15.2	685
134	Collective Invasion in Breast Cancer Requires a Conserved Basal Epithelial Program. <i>Cell</i> , 2013, 155, 1639-1651.	13.5	652
135	Perspective: Flicking with flow: Can microfluidics revolutionize the cancer research?. <i>Biomicrofluidics</i> , 2013, 7, 011811.	1.2	16
136	Stromal matrix metalloprotease-13 knockout alters Collagen I structure at the tumor-host interface and increases lung metastasis of C57BL/6 syngeneic E0771 mammary tumor cells. <i>BMC Cancer</i> , 2013, 13, 411.	1.1	23
137	Three dimensional multiphoton imaging of fresh and whole mount developing mouse mammary glands. <i>BMC Cancer</i> , 2013, 13, 373.	1.1	11
138	Integrin $\alpha 2\beta 1$ ($\hat{1}\pm 2\hat{1}^21$) promotes prostate cancer skeletal metastasis. <i>Clinical and Experimental Metastasis</i> , 2013, 30, 569-578.	1.7	88
139	Adipocytes: Impact on tumor growth and potential sites for therapeutic intervention. , 2013, 138, 197-210.		98
140	Role of Stromal-Epithelial Interaction in the Formation and Development of Cancer Cells. <i>Cancer Microenvironment</i> , 2013, 6, 193-202.	3.1	7
141	Microfabricated collagen tracks facilitate single cell metastatic invasion in 3D. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 606.	0.6	94
142	Mammary ductal elongation and myoepithelial migration are regulated by the composition of the extracellular matrix. <i>Journal of Microscopy</i> , 2013, 251, 212-223.	0.8	53
143	Enhanced contractility with 2-deoxy-ATP and EMD 57033 is correlated with reduced myofibril structure and twitch power in neonatal cardiomyocytes. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1366.	0.6	7
144	Precise, motion-free polarization control in Second Harmonic Generation microscopy using a liquid crystal modulator in the infinity space. <i>Biomedical Optics Express</i> , 2013, 4, 1991.	1.5	33
145	The Tumor Microenvironment: Characterization, Redox Considerations, and Novel Approaches for Reactive Oxygen Species-Targeted Gene Therapy. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 854-895.	2.5	97

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146	Factors implicated in the assessment of aminolevulinic acid-induced protoporphyrin IX fluorescence. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 2750-2762.	1.1	5
147	Preclinical intravital microscopy of the tumour-stroma interface: invasion, metastasis, and therapy response. <i>Current Opinion in Cell Biology</i> , 2013, 25, 659-671.	2.6	121
148	Finding an optimum immuno-histochemical feature set to distinguish benign phyllodes from fibroadenoma. <i>Micron</i> , 2013, 48, 34-41.	1.1	5
149	Issues to be considered when studying cancer in vitro. <i>Critical Reviews in Oncology/Hematology</i> , 2013, 85, 95-111.	2.0	14
150	Positive and negative influence of the matrix architecture on antitumor immune surveillance. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 4431-4448.	2.4	83
151	The collagen receptor discoidin domain receptor 2 stabilizes SNAIL1 to facilitate breast cancer metastasis. <i>Nature Cell Biology</i> , 2013, 15, 677-687.	4.6	312
152	Spatial and Temporal Analysis of Extracellular Matrix Proteins in the Developing Murine Heart: A Blueprint for Regeneration. <i>Tissue Engineering - Part A</i> , 2013, 19, 1132-1143.	1.6	65
153	Stromally Derived Lysyl Oxidase Promotes Metastasis of Transforming Growth Factor- β -Deficient Mouse Mammary Carcinomas. <i>Cancer Research</i> , 2013, 73, 5336-5346.	0.4	164
154	S100P is a metastasis-associated gene that facilitates transendothelial migration of pancreatic cancer cells. <i>Clinical and Experimental Metastasis</i> , 2013, 30, 251-264.	1.7	41
155	Coevolution of the tumor microenvironment revealed by quantum dot-based multiplexed imaging of hepatocellular carcinoma. <i>Future Oncology</i> , 2013, 9, 1029-1037.	1.1	12
156	Mathematical Modeling of Cancer Invasion: The Role of Membrane-Bound Matrix Metalloproteinases. <i>Frontiers in Oncology</i> , 2013, 3, 70.	1.3	36
157	Simultaneous determination of the second-harmonic generation emission directionality and reduced scattering coefficient from three-dimensional imaging of thick tissues. <i>Journal of Biomedical Optics</i> , 2013, 18, 116008.	1.4	18
158	Procollagen Lysyl Hydroxylase 2 Is Essential for Hypoxia-Induced Breast Cancer Metastasis. <i>Molecular Cancer Research</i> , 2013, 11, 456-466.	1.5	216
159	Crbpl regulates mammary retinoic acid homeostasis and the mammary microenvironment. <i>FASEB Journal</i> , 2013, 27, 1904-1916.	0.2	34
160	A mechanically coupled reaction-diffusion model for predicting the response of breast tumors to neoadjuvant chemotherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 5851-5866.	1.6	59
161	Topographical guidance of 3D tumor cell migration at an interface of collagen densities. <i>Physical Biology</i> , 2013, 10, 065004.	0.8	40
162	Collagen Prolyl Hydroxylases Are Essential for Breast Cancer Metastasis. <i>Cancer Research</i> , 2013, 73, 3285-3296.	0.4	251
163	The Antidepressant Desipramine and β -2-Adrenergic Receptor Activation Promote Breast Tumor Progression in Association with Altered Collagen Structure. <i>Cancer Prevention Research</i> , 2013, 6, 1262-1272.	0.7	73

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164	Stiff Collagen Matrices Increase Tumorigenic Prolactin Signaling in Breast Cancer Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 12722-12732.	1.6	112
165	A physical sciences network characterization of non-tumorigenic and metastatic cells. <i>Scientific Reports</i> , 2013, 3, 1449.	1.6	146
166	The EBV oncogene LMP1 protects lymphoma cells from cell death through the collagen-mediated activation of DDR1. <i>Blood</i> , 2013, 122, 4237-4245.	0.6	76
167	P190B RhoGAP Overexpression in the Developing Mammary Epithelium Induces TGF β -dependent Fibroblast Activation. <i>PLoS ONE</i> , 2013, 8, e65105.	1.1	8
168	Understanding the Impact of 2D and 3D Fibroblast Cultures on In Vitro Breast Cancer Models. <i>PLoS ONE</i> , 2013, 8, e76373.	1.1	112
169	Bi-Directional Signaling: Extracellular Matrix and Integrin Regulation of Breast Tumor Progression. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2013, 23, 139-157.	0.4	54
170	Evidence That Breast Tissue Stiffness Is Associated with Risk of Breast Cancer. <i>PLoS ONE</i> , 2014, 9, e100937.	1.1	127
171	A Three-Dimensional Computational Model of Collagen Network Mechanics. <i>PLoS ONE</i> , 2014, 9, e111896.	1.1	63
172	Regulation of RhoA Activity by Adhesion Molecules and Mechanotransduction. <i>Current Molecular Medicine</i> , 2014, 14, 199-208.	0.6	101
173	JNK1 stress signaling is hyper-activated in high breast density and the tumor stroma: Connecting fibrosis, inflammation, and stemness for cancer prevention. <i>Cell Cycle</i> , 2014, 13, 580-599.	1.3	52
174	Resolving cancerâ€‘stroma interfacial signalling and interventions with micropatterned tumourâ€‘stromal assays. <i>Nature Communications</i> , 2014, 5, 5662.	5.8	45
175	Discoidin domain receptor 2 (<scp>DDR2</scp>) promotes breast cancer cell metastasis and the mechanism implicates epithelialâ€‘mesenchymal transition programme under hypoxia. <i>Journal of Pathology</i> , 2014, 234, 526-537.	2.1	70
176	The RhoGEF Net1 Is Required for Normal Mammary Gland Development. <i>Molecular Endocrinology</i> , 2014, 28, 1948-1960.	3.7	15
177	Differentiation of ex vivo human breast tissue using polarization-sensitive optical coherence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 3417.	1.5	63
178	Estimate of tissue composition in malignant and benign breast lesions by time-domain optical mammography. <i>Biomedical Optics Express</i> , 2014, 5, 3684.	1.5	50
179	Experimental and simulation study of the wavelength dependent second harmonic generation of collagen in scattering tissues. <i>Optics Letters</i> , 2014, 39, 1897.	1.7	29
180	Second harmonic generation microscopy as a powerful diagnostic imaging modality for human ovarian cancer. <i>Journal of Biophotonics</i> , 2014, 7, 37-48.	1.1	62
181	Decreased decorin expression in the tumor microenvironment. <i>Cancer Medicine</i> , 2014, 3, 485-491.	1.3	45

#	ARTICLE	IF	CITATIONS
182	3D Extracellular Matrix from Sectioned Human Tissues. <i>Current Protocols in Cell Biology</i> , 2014, 62, Unit 19.16.1-20.	2.3	11
183	The wound healing, chronic fibrosis, and cancer progression triad. <i>Physiological Genomics</i> , 2014, 46, 223-244.	1.0	189
184	3D Collagen Alignment Limits Protrusions to Enhance Breast Cancer Cell Persistence. <i>Biophysical Journal</i> , 2014, 107, 2546-2558.	0.2	346
185	Effects of Tamoxifen and oestrogen on histology and radiographic density in high and low mammographic density human breast tissues maintained in murine tissue engineering chambers. <i>Breast Cancer Research and Treatment</i> , 2014, 148, 303-314.	1.1	20
186	A Novel Hybrid Magnetoacoustic Measurement Method for Breast Cancer Detection. <i>Lecture Notes in Bioengineering</i> , 2014, , 137-165.	0.3	0
187	Role of Suspended Fiber Structural Stiffness and Curvature on Single-Cell Migration, Nucleus Shape, and Focal-Adhesion-Cluster Length. <i>Biophysical Journal</i> , 2014, 107, 2604-2611.	0.2	57
188	The intracellular juxtamembrane domain of discoidin domain receptor 2 (DDR2) is essential for receptor activation and DDR2-mediated cancer progression. <i>International Journal of Cancer</i> , 2014, 135, 2547-2557.	2.3	27
189	Postpartum breast involution reveals regression of secretory lobules mediated by tissue-remodeling. <i>Breast Cancer Research</i> , 2014, 16, R31.	2.2	71
190	Time- and spectrally resolved characteristics of flavin fluorescence in U87MG cancer cells in culture. <i>Journal of Biomedical Optics</i> , 2014, 20, 051017.	1.4	6
191	Preferential, enhanced breast cancer cell migration on biomimetic electrospun nanofiber "cell highways". <i>BMC Cancer</i> , 2014, 14, 825.	1.1	61
192	Protein Kinase C Beta in the Tumor Microenvironment Promotes Mammary Tumorigenesis. <i>Frontiers in Oncology</i> , 2014, 4, 87.	1.3	23
193	Biomechanics of TGF β -induced epithelial-mesenchymal transition: implications for fibrosis and cancer. <i>Clinical and Translational Medicine</i> , 2014, 3, 23.	1.7	112
194	Prolyl-4-hydroxylase β subunit 2 promotes breast cancer progression and metastasis by regulating collagen deposition. <i>BMC Cancer</i> , 2014, 14, 1.	1.1	504
195	TGF β 2 and matrix-regulated epithelial to mesenchymal transition. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2621-2634.	1.1	116
196	Computational segmentation of collagen fibers from second-harmonic generation images of breast cancer. <i>Journal of Biomedical Optics</i> , 2014, 19, 016007.	1.4	294
197	Effects of Migrating Cell-Induced Matrix Reorganization on 3D Cancer Cell Migration. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 205-217.	1.0	13
198	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.	5.7	62
199	Topical application of Gallic acid suppresses the 7,12-DMBA/Croton oil induced two-step skin carcinogenesis by modulating anti-oxidants and MMP-2/MMP-9 in Swiss albino mice. <i>Food and Chemical Toxicology</i> , 2014, 66, 44-55.	1.8	51

#	ARTICLE	IF	CITATIONS
200	Cell jamming: Collective invasion of mesenchymal tumor cells imposed by tissue confinement. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2386-2395.	1.1	260
201	Hypoxia and the extracellular matrix: drivers of tumour metastasis. <i>Nature Reviews Cancer</i> , 2014, 14, 430-439.	12.8	1,110
202	Hypoxia-inducible factors mediate coordinated RhoA-ROCK1 expression and signaling in breast cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E384-93.	3.3	165
203	A Collagen-Remodeling Gene Signature Regulated by TGF- β 2 Signaling Is Associated with Metastasis and Poor Survival in Serous Ovarian Cancer. <i>Clinical Cancer Research</i> , 2014, 20, 711-723.	3.2	287
204	Stress signaling and the shaping of the mammary tissue in development and cancer. <i>Oncogene</i> , 2014, 33, 5483-5490.	2.6	29
205	In vitro models of tumor vessels and matrix: Engineering approaches to investigate transport limitations and drug delivery in cancer. <i>Advanced Drug Delivery Reviews</i> , 2014, 69-70, 205-216.	6.6	60
206	The extracellular matrix modulates the hallmarks of cancer. <i>EMBO Reports</i> , 2014, 15, 1243-1253.	2.0	1,391
207	Host Response to Human Breast Invasive Ductal Carcinoma (IDC) as Observed by Changes in the Stromal Proteome. <i>Journal of Proteome Research</i> , 2014, 13, 4739-4751.	1.8	14
208	Assessment of breast pathologies using nonlinear microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15304-15309.	3.3	169
209	Advances and challenges in label-free nonlinear optical imaging using two-photon excitation fluorescence and second harmonic generation for cancer research. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 141, 128-138.	1.7	52
210	Illuminating breast cancer invasion: diverse roles for cell-cell interactions. <i>Current Opinion in Cell Biology</i> , 2014, 30, 99-111.	2.6	98
211	Cellular contractility and extracellular matrix stiffness regulate matrix metalloproteinase activity in pancreatic cancer cells. <i>FASEB Journal</i> , 2014, 28, 3589-3599.	0.2	108
212	A 3D Biomimetic Model of Tissue Stiffness Interface for Cancer Drug Testing. <i>Molecular Pharmaceutics</i> , 2014, 11, 2016-2021.	2.3	53
213	High resolution in vivo characterization of apparent diffusion coefficient at the tumor-stromal boundary of breast carcinomas: A pilot study to assess treatment response using proximity-dependent diffusion-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1308-1313.	1.9	32
214	A peptide functionalized poly(ethylene glycol) (PEG) hydrogel for investigating the influence of biochemical and biophysical matrix properties on tumor cell migration. <i>Biomaterials Science</i> , 2014, 2, 1024.	2.6	74
215	A biomaterial model of tumor stromal microenvironment promotes mesenchymal morphology but not epithelial to mesenchymal transition in epithelial cells. <i>Acta Biomaterialia</i> , 2014, 10, 4811-4821.	4.1	10
216	Three-dimensional cancer models mimic cell-matrix interactions in the tumour microenvironment. <i>Carcinogenesis</i> , 2014, 35, 1671-1679.	1.3	123
217	Collagen mimetic peptide engineered M13 bacteriophage for collagen targeting and imaging in cancer. <i>Biomaterials</i> , 2014, 35, 9236-9245.	5.7	41

#	ARTICLE	IF	CITATIONS
218	Microfluidic 3D models of cancer. <i>Advanced Drug Delivery Reviews</i> , 2014, 79-80, 68-78.	6.6	156
219	Bioengineering 3D environments for cancer models. <i>Advanced Drug Delivery Reviews</i> , 2014, 79-80, 40-49.	6.6	108
220	Live-Cell Imaging of Invasion and Intravasation in an Artificial Microvessel Platform. <i>Cancer Research</i> , 2014, 74, 4937-4945.	0.4	109
221	Prognostic value of mammographic breast density in patients with metastatic breast cancer. <i>Medical Oncology</i> , 2014, 31, 96.	1.2	16
222	Three-dimensional organotypic culture: experimental models of mammalian biology and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 647-664.	16.1	626
223	An extracellular-matrix-specific GEF-GAP interaction regulates Rho GTPase crosstalk for 3D collagen migration. <i>Nature Cell Biology</i> , 2014, 16, 909-917.	4.6	79
224	Mammographic density—a review on the current understanding of its association with breast cancer. <i>Breast Cancer Research and Treatment</i> , 2014, 144, 479-502.	1.1	169
225	Second Harmonic Generation Imaging Distinguishes Both High-Grade Dysplasia and Cancer from Normal Colonic Mucosa. <i>Digestive Diseases and Sciences</i> , 2014, 59, 1529-1534.	1.1	68
226	Second-harmonic generation imaging of cancer. <i>Methods in Cell Biology</i> , 2014, 123, 531-546.	0.5	73
227	Pushing tumor cells towards a malignant phenotype: Stimuli from the microenvironment, intercellular communications and alternative roads. <i>International Journal of Cancer</i> , 2014, 135, 1265-1276.	2.3	51
228	Optical mammography: Characterization of malignant and benign breast lesions by a perturbative model. , 2014, , .		0
229	Identification of Type II and III DDR2 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4252-4262.	2.9	34
230	Review of Collagen I Hydrogels for Bioengineered Tissue Microenvironments: Characterization of Mechanics, Structure, and Transport. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 683-696.	2.5	410
231	LIF Mediates Proinvasive Activation of Stromal Fibroblasts in Cancer. <i>Cell Reports</i> , 2014, 7, 1664-1678.	2.9	162
232	Matrix metalloproteinase-14 is a mechanically regulated activator of secreted MMPs and invasion. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 213-218.	1.0	36
233	Role of secreted type I collagen derived from stromal cells in two breast cancer cell lines. <i>Oncology Letters</i> , 2014, 8, 507-512.	0.8	32
234	Nonlinear Optical Microscopy Signal Processing Strategies in Cancer. <i>Cancer Informatics</i> , 2014, 13, CIN.S12419.	0.9	53
235	Circadian disruption and cancer risk: A new concept of stromal niche. <i>International Journal of Oncology</i> , 2014, 44, 364-370.	1.4	9

#	ARTICLE	IF	CITATIONS
236	Muscle Contraction and Sarcomere Length Non-Uniformities. , 2015, , 229-252.		0
237	In vivo Quantification of the Structural Changes of Collagens in a Melanoma Microenvironment with Second and Third Harmonic Generation Microscopy. Scientific Reports, 2015, 5, 8879.	1.6	37
238	Collagen and prostaglandin E2 regulate aromatase expression through the PI3K/AKT/IKK and the MAP kinase pathways in adipose stromal cells. Molecular Medicine Reports, 2015, 12, 4766-4772.	1.1	9
239	Inhibition of Lysyl Oxidases Improves Drug Diffusion and Increases Efficacy of Cytotoxic Treatment in 3D Tumor Models. Scientific Reports, 2015, 5, 17576.	1.6	33
240	Metastatic breast cancer cells in lymph nodes increase nodal collagen density. Scientific Reports, 2015, 5, 10002.	1.6	54
241	Three-dimensional matrix fiber alignment modulates cell migration and MT1-MMP utility by spatially and temporally directing protrusions. Scientific Reports, 2015, 5, 14580.	1.6	183
242	Alterations in collagen fibre patterns in breast cancer. A premise for tumour invasiveness?. Apmis, 2015, 123, 1-8.	0.9	51
243	High mammographic density is associated with an increase in stromal collagen and immune cells within the mammary epithelium. Breast Cancer Research, 2015, 17, 79.	2.2	134
244	Generation of remote adaptive torsional shear waves with an octagonal phased array to enhance displacements and reduce variability of shear wave speeds: comparison with quasi-plane shear wavefronts. Physics in Medicine and Biology, 2015, 60, 8161-8185.	1.6	6
245	Chemotherapy of WAP mouse mammary carcinomas aggravates tumor phenotype and enhances tumor cell dissemination. International Journal of Cancer, 2015, 137, 25-36.	2.3	11
246	Extracellular matrix as target for antitumor therapy. OncoTargets and Therapy, 2015, 8, 1387.	1.0	55
247	Modulation of the Tumor Microenvironment for Cancer Treatment: A Biomaterials Approach. Journal of Functional Biomaterials, 2015, 6, 81-103.	1.8	87
248	Targeting ECM Disrupts Cancer Progression. Frontiers in Oncology, 2015, 5, 224.	1.3	210
249	The Extracellular Matrix in Epithelial Ovarian Cancer – A Piece of a Puzzle. Frontiers in Oncology, 2015, 5, 245.	1.3	101
250	Three-Dimensional Microfluidic Tri-Culture Model of the Bone Marrow Microenvironment for Study of Acute Lymphoblastic Leukemia. PLoS ONE, 2015, 10, e0140506.	1.1	85
251	Chaperone Hsp47 Drives Malignant Growth and Invasion by Modulating an ECM Gene Network. Cancer Research, 2015, 75, 1580-1591.	0.4	96
252	Interstitial hydraulic conductivity and interstitial fluid pressure for avascular or poorly vascularized tumors. Journal of Theoretical Biology, 2015, 380, 1-8.	0.8	15
253	Dynamic Reciprocity Between Cells and Their Microenvironment in Reproduction1. Biology of Reproduction, 2015, 92, 25.	1.2	71

#	ARTICLE	IF	CITATIONS
254	Optical discrimination between malignant and benign breast lesions. Proceedings of SPIE, 2015, , .	0.8	1
255	Structural and functional roles of collagen 1 fibers in breast cancer metastasis: collagen 1 fiber density increases in lymph node-positive breast cancers. Breast Cancer Management, 2015, 4, 177-182.	0.2	0
256	Current and future methods for measuring breast density: a brief comparative review. Breast Cancer Management, 2015, 4, 209-221.	0.2	24
257	Experimental recovery of intrinsic fluorescence and fluorophore concentration in the presence of hemoglobin: spectral effect of scattering and absorption on fluorescence. Journal of Biomedical Optics, 2015, 20, 127003.	1.4	9
258	Tumor mechanics and metabolic dysfunction. Free Radical Biology and Medicine, 2015, 79, 269-280.	1.3	95
259	Dense fibrillar collagen is a potent inducer of invadopodia via a specific signaling network. Journal of Cell Biology, 2015, 208, 331-350.	2.3	107
260	EMT Transition Alters Interstitial Fluid Flow-Induced Signaling in ERBB2-Positive Breast Cancer Cells. Molecular Cancer Research, 2015, 13, 755-764.	1.5	15
261	Pathologic Regulation of Collagen I by an Aberrant Protein Phosphatase 2A/Histone Deacetylase C4/MicroRNA-29 Signal Axis in Idiopathic Pulmonary Fibrosis Fibroblasts. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 391-399.	1.4	41
262	Hyaluronan in aged collagen matrix increases prostate epithelial cell proliferation. In Vitro Cellular and Developmental Biology - Animal, 2015, 51, 50-58.	0.7	8
263	Stromal matrix metalloproteinase 2 regulates collagen expression and promotes the outgrowth of experimental metastases. Journal of Pathology, 2015, 235, 773-783.	2.1	50
264	Differential remodeling of extracellular matrices by breast cancer initiating cells. Journal of Biophotonics, 2015, 8, 804-815.	1.1	9
265	Thermal stability of blood plasma proteins of breast cancer patients, DSC study. Journal of Thermal Analysis and Calorimetry, 2015, 120, 501-505.	2.0	23
266	Breast composition: Measurement and clinical use. Radiography, 2015, 21, 324-333.	1.1	32
267	Lymph node biophysical remodeling is associated with melanoma lymphatic drainage. FASEB Journal, 2015, 29, 4512-4522.	0.2	41
268	Hematopoietic Stem Cell-Derived Cancer-Associated Fibroblasts Are Novel Contributors to the Pro-Tumorigenic Microenvironment. Neoplasia, 2015, 17, 434-448.	2.3	35
269	Biophotonics for assessing breast cancer. , 2015, , 175-214.		0
270	Control of cancer formation by intrinsic genetic noise and microenvironmental cues. Nature Reviews Cancer, 2015, 15, 499-509.	12.8	65
271	Polymeric hydrogels as artificial extracellular microenvironments for cancer research. European Polymer Journal, 2015, 72, 507-513.	2.6	18

#	ARTICLE	IF	CITATIONS
272	Stiffening and unfolding of early deposited-fibronectin increase proangiogenic factor secretion by breast cancer-associated stromal cells. <i>Biomaterials</i> , 2015, 54, 63-71.	5.7	67
273	Rho GEFs and GAPs: Emerging integrators of extracellular matrix signaling. <i>Small GTPases</i> , 2015, 6, 16-19.	0.7	16
274	A collagen-binding EGFR single-chain Fv antibody fragment for the targeted cancer therapy. <i>Journal of Controlled Release</i> , 2015, 209, 101-109.	4.8	42
275	Matrix stiffness drives epithelial-mesenchymal transition and tumour metastasis through a TWIST1-G3BP2 mechanotransduction pathway. <i>Nature Cell Biology</i> , 2015, 17, 678-688.	4.6	699
276	Hypoxia and Prostate Cancer Aggressiveness: A Tale With Many Endings. <i>Clinical Genitourinary Cancer</i> , 2015, 13, 295-301.	0.9	76
277	Monitoring morphological alterations during invasive ductal breast carcinoma progression using multiphoton microscopy. <i>Lasers in Medical Science</i> , 2015, 30, 1109-1115.	1.0	13
278	COX-2 dependent regulation of mechanotransduction in human breast cancer cells. <i>Cancer Biology and Therapy</i> , 2015, 16, 430-437.	1.5	20
279	Selective inhibition of prolyl 4-hydroxylases by bipyridinedicarboxylates. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3081-3090.	1.4	14
280	Collagen density and alignment in responsive and resistant trastuzumab-treated breast cancer xenografts. <i>Journal of Biomedical Optics</i> , 2015, 20, 026004.	1.4	32
281	Type III Collagen Directs Stromal Organization and Limits Metastasis in a Murine Model of Breast Cancer. <i>American Journal of Pathology</i> , 2015, 185, 1471-1486.	1.9	74
282	Increased COX-2 expression in epithelial and stromal cells of high mammographic density tissues and in a xenograft model of mammographic density. <i>Breast Cancer Research and Treatment</i> , 2015, 153, 89-99.	1.1	16
283	Proteoglycans: Potential Agents in Mammographic Density and the Associated Breast Cancer Risk. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2015, 20, 121-131.	1.0	21
284	Tumor-extracellular matrix interactions: Identification of tools associated with breast cancer progression. <i>Seminars in Cancer Biology</i> , 2015, 35, 3-10.	4.3	120
285	Differentiating the two main histologic categories of fibroadenoma tissue from normal breast tissue by using multiphoton microscopy. <i>Journal of Microscopy</i> , 2015, 258, 79-85.	0.8	12
286	Cancer cell migration in 3D tissue: Negotiating space by proteolysis and nuclear deformability. <i>Cell Adhesion and Migration</i> , 2015, 9, 357-366.	1.1	69
287	Contrast-Enhanced X-ray Detection of Microcalcifications in Radiographically Dense Mammary Tissue Using Targeted Gold Nanoparticles. <i>ACS Nano</i> , 2015, 9, 8923-8932.	7.3	24
288	Tissue Stiffness Dictates Development, Homeostasis, and Disease Progression. <i>Organogenesis</i> , 2015, 11, 1-15.	0.4	483
289	EDC-2: The Endocrine Society's Second Scientific Statement on Endocrine-Disrupting Chemicals. <i>Endocrine Reviews</i> , 2015, 36, E1-E150.	8.9	1,508

#	ARTICLE	IF	CITATIONS
290	The role of pressure in cancer growth. <i>European Physical Journal Plus</i> , 2015, 130, 1.	1.2	186
291	Snail1-Expressing Fibroblasts in the Tumor Microenvironment Display Mechanical Properties That Support Metastasis. <i>Cancer Research</i> , 2015, 75, 284-295.	0.4	92
292	TGF β 2 loss activates ADAMTS-1-mediated EGF-dependent invasion in a model of esophageal cell invasion. <i>Experimental Cell Research</i> , 2015, 330, 29-42.	1.2	19
293	Collagen density regulates xenobiotic and hypoxic response of mammary epithelial cells. <i>Environmental Toxicology and Pharmacology</i> , 2015, 39, 114-124.	2.0	5
294	Targeting tumour hypoxia to prevent cancer metastasis. From biology, biosensing and technology to drug development: the METOXIA consortium. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 689-721.	2.5	93
295	Paradoxical zinc toxicity and oxidative stress in the mammary gland during marginal dietary zinc deficiency. <i>Reproductive Toxicology</i> , 2015, 54, 84-92.	1.3	28
296	The Role of the Microenvironment in Tumor Initiation, Progression, and Metastasis. , 2015, , 239-256.e5.		4
297	A computational mechanics approach to assess the link between cell morphology and forces during confined migration. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 143-157.	1.4	23
298	Increased extracellular matrix density decreases MCF10A breast cell acinus formation in 3D culture conditions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 71-80.	1.3	17
299	Tailored chemokine receptor modification improves homing of adoptive therapy T cells in a spontaneous tumor model. <i>Oncotarget</i> , 2016, 7, 43010-43026.	0.8	29
300	Increased Expression of Several Collagen Genes is Associated with Drug Resistance in Ovarian Cancer Cell Lines. <i>Journal of Cancer</i> , 2016, 7, 1295-1310.	1.2	134
301	Systematic analysis of tumour cell-extracellular matrix adhesion identifies independent prognostic factors in breast cancer. <i>Oncotarget</i> , 2016, 7, 62939-62953.	0.8	26
302	Assessment of Tumor Heterogeneity, as Evidenced by Gene Expression Profiles, Pathway Activation, and Gene Copy Number, in Patients with Multifocal Invasive Lobular Breast Tumors. <i>PLoS ONE</i> , 2016, 11, e0153411.	1.1	30
303	Tensile Forces Originating from Cancer Spheroids Facilitate Tumor Invasion. <i>PLoS ONE</i> , 2016, 11, e0156442.	1.1	76
304	Changes of collagen ultrastructure in breast cancer tissue determined by second-harmonic generation double Stokes-Mueller polarimetric microscopy. <i>Biomedical Optics Express</i> , 2016, 7, 4054.	1.5	78
305	Discoidin Domain Receptors: Potential Actors and Targets in Cancer. <i>Frontiers in Pharmacology</i> , 2016, 7, 55.	1.6	95
306	Nonlinear Microscopy Techniques: Principles and Biomedical Applications. , 0, , .		13
307	Increasing 3D Matrix Rigidity Strengthens Proliferation and Spheroid Development of Human Liver Cells in a Constant Growth Factor Environment. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 708-720.	1.2	29

#	ARTICLE	IF	CITATIONS
308	Cellular Response to Reagent-Free Electron-Irradiated Gelatin Hydrogels. <i>Macromolecular Bioscience</i> , 2016, 16, 914-924.	2.1	18
309	Marginal zinc intake reduces the protective effect of lactation on mammary gland carcinogenesis in a DMBA-induced tumor model in mice. <i>Oncology Reports</i> , 2016, 35, 1409-1416.	1.2	11
310	Multiscale Cues Drive Collective Cell Migration. <i>Scientific Reports</i> , 2016, 6, 29749.	1.6	40
311	Quantitative extracellular matrix proteomics to study mammary and liver tissue microenvironments. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 81, 223-232.	1.2	89
312	Ultrasound viscoelasticity assessment using an adaptive torsional shear wave propagation method. <i>Medical Physics</i> , 2016, 43, 1603-1614.	1.6	7
313	Capturing tumor complexity in vitro: Comparative analysis of 2D and 3D tumor models for drug discovery. <i>Scientific Reports</i> , 2016, 6, 28951.	1.6	192
314	Proteolytic and non-proteolytic regulation of collective cell invasion: tuning by ECM density and organization. <i>Scientific Reports</i> , 2016, 6, 19905.	1.6	62
315	Excessive collagen turnover products are released during colorectal cancer progression and elevated in serum from metastatic colorectal cancer patients. <i>Scientific Reports</i> , 2016, 6, 30599.	1.6	86
316	3T MRI of the breast with computer aided diagnosis, can it help to avoid unnecessary invasive procedures???. <i>Alexandria Journal of Medicine</i> , 2016, 52, 9-18.	0.4	2
317	Stain-free histopathology by programmable supercontinuum pulses. <i>Nature Photonics</i> , 2016, 10, 534-540.	15.6	177
318	Personalized in vitro cancer models to predict therapeutic response: Challenges and a framework for improvement. , 2016, 165, 79-92.		60
319	Mechanical signals regulate and activate SNAIL1 protein to control the fibrogenic response of CAFs. <i>Journal of Cell Science</i> , 2016, 129, 1989-2002.	1.2	57
320	A novel gene expression signature for bone metastasis in breast carcinomas. <i>Breast Cancer Research and Treatment</i> , 2016, 156, 249-259.	1.1	77
321	Cell motility and ECM proteolysis regulate tumor growth and tumor relapse by altering the fraction of cancer stem cells and their spatial scattering. <i>Physical Biology</i> , 2016, 13, 036001.	0.8	11
322	Engineering approaches to study fibrosis in 3-D in vitro systems. <i>Current Opinion in Biotechnology</i> , 2016, 40, 24-30.	3.3	18
323	Mechano-reciprocity is maintained between physiological boundaries by tuning signal flux through the Rho-associated protein kinase. <i>Small GTPases</i> , 2016, 7, 139-146.	0.7	25
324	Proline Starvation Induces Unresolved ER Stress and Hinders mTORC1-Dependent Tumorigenesis. <i>Cell Metabolism</i> , 2016, 24, 753-761.	7.2	85
325	Collagen Matrix Density Drives the Metabolic Shift in Breast Cancer Cells. <i>EBioMedicine</i> , 2016, 13, 146-156.	2.7	90

#	ARTICLE	IF	CITATIONS
326	Collagen fibers mediate MRI-detected water diffusion and anisotropy in breast cancers. <i>Neoplasia</i> , 2016, 18, 585-593.	2.3	25
327	Culture of Tumorigenic Cells on Protein Fibers Reveals Metastatic Cell Behaviors. <i>Biomacromolecules</i> , 2016, 17, 3790-3799.	2.6	4
328	Remodeling of the Tumor Microenvironment Predicts Increased Risk of Cancer in Postmenopausal Women: The Prospective Epidemiologic Risk Factor (PERF I) Study. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2016, 25, 1348-1355.	1.1	13
329	Plasticity of Cancer Cell Invasion—Mechanisms and Implications for Therapy. <i>Advances in Cancer Research</i> , 2016, 132, 209-264.	1.9	71
330	Tumor macrophages are pivotal constructors of tumor collagenous matrix. <i>Journal of Experimental Medicine</i> , 2016, 213, 2315-2331.	4.2	253
331	Oriented collagen fibers direct tumor cell intravasation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11208-11213.	3.3	279
332	Gelatin Methacrylate Hydrogels as Biomimetic Three-Dimensional Matrixes for Modeling Breast Cancer Invasion and Chemoresponse in Vitro. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22005-22017.	4.0	64
333	Tissue Stiffness and Hypoxia Modulate the Integrin-Linked Kinase ILK to Control Breast Cancer Stem-like Cells. <i>Cancer Research</i> , 2016, 76, 5277-5287.	0.4	116
334	Collagen I hydrogel microstructure and composition conjointly regulate vascular network formation. <i>Acta Biomaterialia</i> , 2016, 44, 200-208.	4.1	45
335	Chemokines and T Cell Trafficking into Tumors: Strategies to Enhance Recruitment of T Cells into Tumors. <i>Resistance To Targeted Anti-cancer Therapeutics</i> , 2016, , 163-177.	0.1	4
336	A COL11A1-correlated pan-cancer gene signature of activated fibroblasts for the prioritization of therapeutic targets. <i>Cancer Letters</i> , 2016, 382, 203-214.	3.2	99
337	Coherent anti-Stokes Raman scattering hyperspectral imaging of cartilage aiming for state discrimination of cell. <i>Journal of Biomedical Optics</i> , 2016, 21, 076004.	1.4	6
338	Cell-ECM Interactions in Tumor Invasion. <i>Advances in Experimental Medicine and Biology</i> , 2016, 936, 73-91.	0.8	64
339	The 2016 John J. Abel Award Lecture: Targeting the Mechanical Microenvironment in Cancer. <i>Molecular Pharmacology</i> , 2016, 90, 744-754.	1.0	14
340	3D texture analysis for classification of second harmonic generation images of human ovarian cancer. <i>Scientific Reports</i> , 2016, 6, 35734.	1.6	51
341	Human pancreatic stellate cells modulate 3D collagen alignment to promote the migration of pancreatic ductal adenocarcinoma cells. <i>Biomedical Microdevices</i> , 2016, 18, 105.	1.4	33
342	Interaction of MSC with tumor cells. <i>Cell Communication and Signaling</i> , 2016, 14, 20.	2.7	154
343	Mammographically dense human breast tissue stimulates MCF10DCIS.com progression to invasive lesions and metastasis. <i>Breast Cancer Research</i> , 2016, 18, 106.	2.2	13

#	ARTICLE	IF	CITATIONS
344	Preparation of 3D Collagen Gels and Microchannels for the Study of 3D Interactions <i>In Vivo</i> . <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	10
345	Preparation of High-Density Fibrillar Collagen Matrices That Mimic Desmoplastic Tumor Stroma. <i>Current Protocols in Cell Biology</i> , 2016, 70, 10.19.1-10.19.11.	2.3	6
346	COX-2 modulates mammary tumor progression in response to collagen density. <i>Breast Cancer Research</i> , 2016, 18, 35.	2.2	94
347	The Action of Discoidin Domain Receptor 2 in Basal Tumor Cells and Stromal Cancer-Associated Fibroblasts Is Critical for Breast Cancer Metastasis. <i>Cell Reports</i> , 2016, 15, 2510-2523.	2.9	85
348	Polymeric Biomaterials for <i>In Vitro</i> Cancer Tissue Engineering and Drug Testing Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 470-484.	2.5	66
349	Clinical significance of immunohistochemically detected extracellular matrix proteins and their spatial distribution in primary cancer. <i>Critical Reviews in Oncology/Hematology</i> , 2016, 105, 127-144.	2.0	9
350	Identification of stromal ColX±1 and tumor-infiltrating lymphocytes as putative predictive markers of neoadjuvant therapy in estrogen receptor-positive/HER2-positive breast cancer. <i>BMC Cancer</i> , 2016, 16, 274.	1.1	42
351	Neutrophils drive accelerated tumor progression in the collagen-dense mammary tumor microenvironment. <i>Breast Cancer Research</i> , 2016, 18, 49.	2.2	60
352	Recreating complex pathophysiologies in vitro with extracellular matrix surrogates for anticancer therapeutics screening. <i>Drug Discovery Today</i> , 2016, 21, 1521-1531.	3.2	28
353	Increased peri-ductal collagen micro-organization may contribute to raised mammographic density. <i>Breast Cancer Research</i> , 2016, 18, 5.	2.2	98
354	Confocal fluorescence microscopy to evaluate changes in adipocytes in the tumor microenvironment associated with invasive ductal carcinoma and ductal carcinoma <i>in situ</i> . <i>International Journal of Cancer</i> , 2016, 139, 1140-1149.	2.3	13
355	Fibroblast-Mediated Collagen Remodeling Within the Tumor Microenvironment Facilitates Progression of Thyroid Cancers Driven by BrafV600E and Pten Loss. <i>Cancer Research</i> , 2016, 76, 1804-1813.	0.4	98
356	Regulation of invadopodia by mechanical signaling. <i>Experimental Cell Research</i> , 2016, 343, 89-95.	1.2	61
357	The extracellular matrix in breast cancer predicts prognosis through composition, splicing, and crosslinking. <i>Experimental Cell Research</i> , 2016, 343, 73-81.	1.2	34
358	CARS hyperspectral imaging of cartilage aiming for state discrimination of cell. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
359	Injury-Driven Stiffening of the Dermis Expedites Skin Carcinoma Progression. <i>Cancer Research</i> , 2016, 76, 940-951.	0.4	96
360	Tailoring nanoparticle designs to target cancer based on tumor pathophysiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1142-51.	3.3	228
361	Matrix rigidity differentially regulates invadopodia activity through ROCK1 and ROCK2. <i>Biomaterials</i> , 2016, 84, 119-129.	5.7	50

#	ARTICLE	IF	CITATIONS
362	The integrinâ€“collagen connection â€“ a glue for tissue repair?. Journal of Cell Science, 2016, 129, 653-64.	1.2	170
363	Discrimination Between Normal and Cancerous Cells Using AFM. BioNanoScience, 2016, 6, 65-80.	1.5	311
364	Influence of Immune Myeloid Cells on the Extracellular Matrix During Cancer Metastasis. Cancer Microenvironment, 2016, 9, 45-61.	3.1	26
365	The extracellular matrix in breast cancer. Advanced Drug Delivery Reviews, 2016, 97, 41-55.	6.6	329
366	Mammary epithelial cell phagocytosis downstream of TGF- β 3 is characterized by adherens junction reorganization. Cell Death and Differentiation, 2016, 23, 185-196.	5.0	30
367	Selective Inhibition of Collagen Prolyl 4-Hydroxylase in Human Cells. ACS Chemical Biology, 2016, 11, 193-199.	1.6	28
368	Forcing through Tumor Metastasis: The Interplay between Tissue Rigidity and Epithelialâ€“Mesenchymal Transition. Trends in Cell Biology, 2016, 26, 111-120.	3.6	175
369	Microvesicles released from tumor cells disrupt epithelial cell morphology and contractility. Journal of Biomechanics, 2016, 49, 1272-1279.	0.9	17
370	In vitro cancer cellâ€“ECM interactions inform in vivo cancer treatment. Advanced Drug Delivery Reviews, 2016, 97, 270-279.	6.6	162
371	Fibroblast activation proteinâ€“1, a stromal cell surface protease, shapes key features of cancer associated fibroblasts through proteome and degradome alterations. Molecular Oncology, 2016, 10, 40-58.	2.1	90
372	Quantitative proteomic profiling of the extracellular matrix of pancreatic islets during the angiogenic switch and insulinoma progression. Scientific Reports, 2017, 7, 40495.	1.6	88
373	TGF- β 2, Bone Morphogenetic Protein, and Activin Signaling and the Tumor Microenvironment. Cold Spring Harbor Perspectives in Biology, 2017, 9, a022285.	2.3	47
374	3D bioprinting: improving <i>in vitro</i> models of metastasis with heterogeneous tumor microenvironments. DMM Disease Models and Mechanisms, 2017, 10, 3-14.	1.2	123
375	Towards a personalized surgical margin for breast conserving surgeryâ€“Implications of field cancerization in local recurrence. Journal of Surgical Oncology, 2017, 115, 109-115.	0.8	14
376	CCL2-driven inflammation increases mammary gland stromal density and cancer susceptibility in a transgenic mouse model. Breast Cancer Research, 2017, 19, 4.	2.2	61
377	Intra-tumor heterogeneity from a cancer stem cell perspective. Molecular Cancer, 2017, 16, 41.	7.9	533
378	Elevated collagen-I augments tumor progressive signals, intravasation and metastasis of prolactin-induced estrogen receptor alpha positive mammary tumor cells. Breast Cancer Research, 2017, 19, 9.	2.2	104
379	Prolyl 4-Hydroxylase: Substrate Isosteres in Which an (<i>E</i>)- or (<i>Z</i>)-Alkene Replaces the Prolyl Peptide Bond. Biochemistry, 2017, 56, 219-227.	1.2	14

#	ARTICLE	IF	CITATIONS
380	Mesenchymal Stem Cell-Induced DDR2 Mediates Stromal-Breast Cancer Interactions and Metastasis Growth. <i>Cell Reports</i> , 2017, 18, 1215-1228.	2.9	88
381	The prognostic value and pathobiological significance of Glasgow microenvironment score in gastric cancer. <i>Journal of Cancer Research and Clinical Oncology</i> , 2017, 143, 883-894.	1.2	21
382	Anisotropic forces from spatially constrained focal adhesions mediate contact guidance directed cell migration. <i>Nature Communications</i> , 2017, 8, 14923.	5.8	221
383	Towards in vivo breast skin characterization using multiphoton microscopy. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
384	Mechanical phenotyping of cells and extracellular matrix as grade and stage markers of lung tumor tissues. <i>Acta Biomaterialia</i> , 2017, 57, 334-341.	4.1	30
385	A three-dimensional collagen-fiber network model of the extracellular matrix for the simulation of the mechanical behaviors and micro structures. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 991-1003.	0.9	12
386	Hic-5 remodeling of the stromal matrix promotes breast tumor progression. <i>Oncogene</i> , 2017, 36, 2693-2703.	2.6	42
387	Substrate curvature regulates cell migration. <i>Physical Biology</i> , 2017, 14, 035006.	0.8	24
388	Epithelial-to-mesenchymal transition transcription factors in cancer-associated fibroblasts. <i>Molecular Oncology</i> , 2017, 11, 847-859.	2.1	58
389	Bone marrow fibrosis at diagnosis predicts survival for primary acute myeloid leukemia. <i>Clinical and Translational Oncology</i> , 2017, 19, 1462-1468.	1.2	6
390	Surface modulation of polymeric nanocarriers enhances the stability and delivery of proteins and small molecules. <i>Nanomedicine</i> , 2017, 12, 729-743.	1.7	6
391	In Vivo Effects of Long-Term Cigarette Smoke Exposure on Mammary Tissue in Mice. <i>American Journal of Pathology</i> , 2017, 187, 1238-1244.	1.9	3
392	Laser direct-write based fabrication of a spatially-defined, biomimetic construct as a potential model for breast cancer cell invasion into adipose tissue. <i>Biofabrication</i> , 2017, 9, 025013.	3.7	37
393	Automated quantification of three-dimensional organization of fiber-like structures in biological tissues. <i>Biomaterials</i> , 2017, 116, 34-47.	5.7	55
394	Local alignment vectors reveal cancer cell-induced ECM fiber remodeling dynamics. <i>Scientific Reports</i> , 2017, 7, 39498.	1.6	30
395	miR-1199-5p and Zeb1 function in a double-negative feedback loop potentially coordinating EMT and tumour metastasis. <i>Nature Communications</i> , 2017, 8, 1168.	5.8	50
396	Isolation of Intact, Whole Mouse Mammary Glands for Analysis of Extracellular Matrix Expression and Gland Morphology. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	3
397	Cancer Immunotherapy Getting Brainy: Visualizing the Distinctive CNS Metastatic Niche to Illuminate Therapeutic Resistance. <i>Drug Resistance Updates</i> , 2017, 33-35, 23-35.	6.5	16

#	ARTICLE	IF	CITATIONS
398	Mechano-Signal Transduction in Mesenchymal Stem Cells Induces Prosaposin Secretion to Drive the Proliferation of Breast Cancer Cells. <i>Cancer Research</i> , 2017, 77, 6179-6189.	0.4	68
399	MET Activation and Physical Dynamics of the Metastatic Process: The Paradigm of Cancers of Unknown Primary Origin. <i>EBioMedicine</i> , 2017, 24, 34-42.	2.7	8
400	Engineering and physical sciences in oncology: challenges and opportunities. <i>Nature Reviews Cancer</i> , 2017, 17, 659-675.	12.8	204
401	Correlation of X-ray diffraction signatures of breast tissue and their histopathological classification. <i>Scientific Reports</i> , 2017, 7, 12998.	1.6	14
402	Lumican delays melanoma growth in mice and drives tumor molecular assembly as well as response to matrix-targeted TAX2 therapeutic peptide. <i>Scientific Reports</i> , 2017, 7, 7700.	1.6	31
403	Role of the Extracellular Matrix in Tumor Stroma: Barrier or Support?. , 2017, , 77-112.		0
404	Tumor cells and their crosstalk with endothelial cells in 3D spheroids. <i>Scientific Reports</i> , 2017, 7, 10428.	1.6	81
405	Molecular MR imaging of fibrosis in a mouse model of pancreatic cancer. <i>Scientific Reports</i> , 2017, 7, 8114.	1.6	30
406	Inhibition of Discoidin Domain Receptor 1 Reduces Collagen-mediated Tumorigenicity in Pancreatic Ductal Adenocarcinoma. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 2473-2485.	1.9	86
407	Bi-functional oxidized dextranâ€“based hydrogel inducing microtumors: An in vitro three-dimensional lung tumor model for drug toxicity assays. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141771839.	2.3	13
408	Fluorescence of Picosirius Red Multiplexed With Immunohistochemistry for the Quantitative Assessment of Collagen in Tissue Sections. <i>Journal of Histochemistry and Cytochemistry</i> , 2017, 65, 479-490.	1.3	78
409	Actomyosin contractility and collective migration: may the force be with you. <i>Current Opinion in Cell Biology</i> , 2017, 48, 87-96.	2.6	86
410	Aligned fibers direct collective cell migration to engineer closing and nonclosing wound gaps. <i>Molecular Biology of the Cell</i> , 2017, 28, 2579-2588.	0.9	40
411	The role of shear stress and altered tissue properties on endothelial to mesenchymal transformation and tumor-endothelial cell interaction. <i>Biomicrofluidics</i> , 2017, 11, 044104.	1.2	34
412	Internalization of Collagen: An Important Matrix Turnover Pathway in Cancer. <i>Biology of Extracellular Matrix</i> , 2017, , 17-38.	0.3	4
413	Mimicking Embedded Vasculature Structure for 3D Cancer on a Chip Approaches through Micromilling. <i>Scientific Reports</i> , 2017, 7, 16724.	1.6	26
414	3D collagen architecture induces a conserved migratory and transcriptional response linked to vasculogenic mimicry. <i>Nature Communications</i> , 2017, 8, 1651.	5.8	109
415	Dynamic interplay between tumour, stroma and immune system can drive or prevent tumour progression. <i>Convergent Science Physical Oncology</i> , 2017, 3, 034002.	2.6	114

#	ARTICLE	IF	CITATIONS
416	On-command on/off switching of progenitor cell and cancer cell polarized motility and aligned morphology via a cytocompatible shape memory polymer scaffold. <i>Biomaterials</i> , 2017, 140, 150-161.	5.7	31
417	Improving homing in T cell therapy. <i>Cytokine and Growth Factor Reviews</i> , 2017, 36, 107-116.	3.2	42
418	Decoupling the effects of stiffness and fiber density on cellular behaviors via an interpenetrating network of gelatin-methacrylate and collagen. <i>Biomaterials</i> , 2017, 141, 125-135.	5.7	114
419	Microencapsulation of Live Cells in Synthetic Polymer Capsules. <i>ACS Omega</i> , 2017, 2, 2839-2847.	1.6	24
420	Structure and Function of a Prostate Cancer Dissemination-Permissive Extracellular Matrix. <i>Clinical Cancer Research</i> , 2017, 23, 2245-2254.	3.2	53
421	Development of three-dimensional collagen scaffolds with controlled architecture for cell migration studies using breast cancer cell lines. <i>Biomaterials</i> , 2017, 114, 34-43.	5.7	111
422	Breast cancer cells alter the dynamics of stromal fibronectin-collagen interactions. <i>Matrix Biology</i> , 2017, 60-61, 86-95.	1.5	75
423	Molecular imaging of the tumor microenvironment. <i>Advanced Drug Delivery Reviews</i> , 2017, 113, 24-48.	6.6	175
424	Contextual Control of Adipose-Derived Stem Cell Function: Implications for Engineered Tumor Models. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1483-1493.	2.6	7
425	Physical activity induced protection against breast cancer risk associated with delayed parity. <i>Physiology and Behavior</i> , 2017, 169, 52-58.	1.0	10
426	Macrophage-Secreted TNF α and TGF β 1 Influence Migration Speed and Persistence of Cancer Cells in 3D Tissue Culture via Independent Pathways. <i>Cancer Research</i> , 2017, 77, 279-290.	0.4	86
427	Optical Screening of Female Breast Cancer from Whole Blood Using Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2017, 71, 1004-1013.	1.2	15
428	Measurement of dynamic cell-induced 3D displacement fields in vitro for traction force optical coherence microscopy. <i>Biomedical Optics Express</i> , 2017, 8, 1152.	1.5	37
429	Fitting-free algorithm for efficient quantification of collagen fiber alignment in SHG imaging applications. <i>Biomedical Optics Express</i> , 2017, 8, 4609.	1.5	6
430	Mammary Gland Involution Provides a Unique Model to Study the TGF β 2 Cancer Paradox. <i>Journal of Clinical Medicine</i> , 2017, 6, 10.	1.0	24
431	Stromal Androgen Receptor in Prostate Cancer Development and Progression. <i>Cancers</i> , 2017, 9, 10.	1.7	47
432	Novel Nanomaterials Enable Biomimetic Models of the Tumor Microenvironment. <i>Journal of Nanotechnology</i> , 2017, 2017, 1-8.	1.5	2
433	Impact of Different Analytic Approaches on the Analysis of the Breast Fibroglandular Tissue Using Diffusion Weighted Imaging. <i>BioMed Research International</i> , 2017, 2017, 1-11.	0.9	3

#	ARTICLE	IF	CITATIONS
434	Loss of caveolin-1 alters extracellular matrix protein expression and ductal architecture in murine mammary glands. PLoS ONE, 2017, 12, e0172067.	1.1	10
435	Identification of prognostic collagen signatures and potential therapeutic stromal targets in canine mammary gland carcinoma. PLoS ONE, 2017, 12, e0180448.	1.1	36
436	Comparative proteomic investigation of metastatic and non-metastatic osteosarcoma cells of human and canine origin. PLoS ONE, 2017, 12, e0183930.	1.1	24
437	Association between mammographic breast density and histologic features of benign breast disease. Breast Cancer Research, 2017, 19, 134.	2.2	24
438	Reorganized Collagen in the Tumor Microenvironment of Gastric Cancer and Its Association with Prognosis. Journal of Cancer, 2017, 8, 1466-1476.	1.2	109
439	Breast cancer cell cyclooxygenase-2 expression alters extracellular matrix structure and function and numbers of cancer associated fibroblasts. Oncotarget, 2017, 8, 17981-17994.	0.8	42
440	Diet-induced obesity links to ER positive breast cancer progression via LPA/PKD-1-CD36 signaling-mediated microvascular remodeling. Oncotarget, 2017, 8, 22550-22562.	0.8	29
441	Second-harmonic imaging microscopy for identifying colorectal intraepithelial neoplasia. Journal of Microscopy, 2018, 271, 31-35.	0.8	2
442	Extracellular matrix remodeling in 3D: implications in tissue homeostasis and disease progression. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1503.	3.3	35
443	Correlation between elastic parameters and collagen fibre features in breast lesions. Clinical Radiology, 2018, 73, 595.e1-595.e7.	0.5	21
444	The influence of matrix stiffness on the behavior of brain metastatic breast cancer cells in a biomimetic hyaluronic acid hydrogel platform. Journal of Biomedical Materials Research - Part A, 2018, 106, 1832-1841.	2.1	36
445	Engineering 3D approaches to model the dynamic microenvironments of cancer bone metastasis. Bone Research, 2018, 6, 3.	5.4	71
446	Shear Wave Speed of the Lesion in Preoperative Breast Ultrasonography. Academic Radiology, 2018, 25, 1003-1009.	1.3	5
447	Complex mechanics of the heterogeneous extracellular matrix in cancer. Extreme Mechanics Letters, 2018, 21, 25-34.	2.0	158
448	A High-Throughput Assay for Collagen Secretion Suggests an Unanticipated Role for Hsp90 in Collagen Production. Biochemistry, 2018, 57, 2814-2827.	1.2	17
449	Recapitulating spatiotemporal tumor heterogeneity in vitro through engineered breast cancer microtissues. Acta Biomaterialia, 2018, 73, 236-249.	4.1	39
450	Regulation of the Extracellular Matrix by Heat Shock Proteins and Molecular Chaperones. , 2018, , 97-121.		1
451	The extracellular matrix of ovarian cortical inclusion cysts modulates invasion of fallopian tube epithelial cells. APL Bioengineering, 2018, 2, .	3.3	26

#	ARTICLE	IF	CITATIONS
452	Collagen analysis by second-harmonic generation microscopy predicts outcome of luminal breast cancer. <i>Tumor Biology</i> , 2018, 40, 101042831877095.	0.8	41
453	Biomechanical and biomolecular characterization of extracellular matrix structures in human colon carcinomas. <i>Matrix Biology</i> , 2018, 68-69, 180-193.	1.5	121
454	Reduced substrate stiffness promotes M2-like macrophage activation and enhances peroxisome proliferator-activated receptor β expression. <i>Experimental Cell Research</i> , 2018, 367, 264-273.	1.2	69
455	Time-resolved fluorescence (TRF) and diffuse reflectance spectroscopy (DRS) for margin analysis in breast cancer. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 236-245.	1.1	13
456	Extracellular matrix glycation and receptor for advanced glycation end-products activation: a missing piece in the puzzle of the association between diabetes and cancer. <i>Carcinogenesis</i> , 2018, 39, 515-521.	1.3	53
457	T cell responses to tumor: how dominant assumptions on immune activity led to a neglect of pathological functions, and how evolutionary considerations can help identify testable hypotheses for improving immunotherapy. <i>Cancer Immunology, Immunotherapy</i> , 2018, 67, 989-998.	2.0	5
458	Hypoxia Inducible Factors Modify Collagen I Fibers in MDA-MB-231 Triple Negative Breast Cancer Xenografts. <i>Neoplasia</i> , 2018, 20, 131-139.	2.3	25
459	Mechanoreciprocity in cell migration. <i>Nature Cell Biology</i> , 2018, 20, 8-20.	4.6	435
460	Breast density: why all the fuss?. <i>Clinical Radiology</i> , 2018, 73, 334-357.	0.5	31
461	Dynamics of 3D carcinoma cell invasion into aligned collagen. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 100-112.	0.6	46
462	Phagocyte-extracellular matrix crosstalk empowers tumor development and dissemination. <i>FEBS Journal</i> , 2018, 285, 734-751.	2.2	32
463	Interaction between oral squamous cell carcinoma cells and fibroblasts through TGF- β 1 mediated by podoplanin. <i>Experimental Cell Research</i> , 2018, 369, 43-53.	1.2	32
464	Affinity proteomic profiling of plasma for proteins associated to area-based mammographic breast density. <i>Breast Cancer Research</i> , 2018, 20, 14.	2.2	8
465	Integrated bioinformatics analysis reveals key candidate genes and pathways in breast cancer. <i>Molecular Medicine Reports</i> , 2018, 17, 8091-8100.	1.1	22
466	Hydrogel microenvironments for cancer spheroid growth and drug screening. <i>Science Advances</i> , 2018, 4, eaas8998.	4.7	238
467	Characterization of the mechanical properties of cancer cells in 3D matrices in response to collagen concentration and cytoskeletal inhibitors. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 232-241.	0.6	29
468	The Presence of Cyclooxygenase 2, Tumor-Associated Macrophages, and Collagen Alignment as Prognostic Markers for Invasive Breast Carcinoma Patients. <i>American Journal of Pathology</i> , 2018, 188, 559-573.	1.9	75
469	Matrix Metalloproteinase 8: Could it Benefit the CAR-T Cell Therapy of Solid Tumors?- a Commentary on Therapeutic Potential. <i>Cancer Microenvironment</i> , 2018, 11, 93-96.	3.1	9

#	ARTICLE	IF	CITATIONS
470	The heterogenic tumor microenvironment of hepatocellular carcinoma and prognostic analysis based on tumor neo-vessels, macrophages and α -SMA. <i>Oncology Letters</i> , 2018, 15, 4805-4812.	0.8	16
471	Progesterone receptors (PR) mediate STAT actions: PR and prolactin receptor signaling crosstalk in breast cancer models. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 176, 88-93.	1.2	48
472	Regulation of Breast Cancer Progression by Extracellular Matrix Mechanics: Insights from 3D Culture Models. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 302-313.	2.6	36
473	The biochemical, nanomechanical and chemometric signatures of brain cancer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 8-19.	2.0	70
474	Three Dimensional In Vitro Tumor Platforms for Cancer Discovery. <i>Cancer Drug Discovery and Development</i> , 2018, , 71-94.	0.2	5
475	Emerging roles for LPP in metastatic cancer progression. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 143-156.	1.8	25
476	Organ-on-a-Chip Systems for Women's Health Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700550.	3.9	31
477	The two faces of enhanced stroma: Stroma acts as a tumor promoter and a steric obstacle. <i>NMR in Biomedicine</i> , 2018, 31, e3831.	1.6	32
478	Exploring prognostic genes in ovarian cancer stage-related coexpression network modules. <i>Medicine (United States)</i> , 2018, 97, e11895.	0.4	11
479	AFM assessing of nanomechanical fingerprints for cancer early diagnosis and classification: from single cell to tissue level. <i>Nanoscale</i> , 2018, 10, 20930-20945.	2.8	108
480	Bimodal sensing of guidance cues in mechanically distinct microenvironments. <i>Nature Communications</i> , 2018, 9, 4891.	5.8	52
481	Collagen density modulates triple-negative breast cancer cell metabolism through adhesion-mediated contractility. <i>Scientific Reports</i> , 2018, 8, 17094.	1.6	51
482	Non-invasive biomarkers derived from the extracellular matrix associate with response to immune checkpoint blockade (anti-CTLA-4) in metastatic melanoma patients. , 2018, 6, 152.		53
483	The emergence of solid stress as a potent biomechanical marker of tumour progression. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 739-749.	1.1	4
484	Store-Operated Ca ²⁺ Entry in Breast Cancer Cells: Remodeling and Functional Role. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4053.	1.8	35
485	An Immunohistochemical and Polarizing Microscopic Study of the Tumor Microenvironment in Varying Grades of Oral Squamous Cell Carcinoma. <i>Journal of Pathology and Translational Medicine</i> , 2018, 52, 314-322.	0.4	1
486	Mesenchymal stem cells in preclinical cancer cytotherapy: a systematic review. <i>Stem Cell Research and Therapy</i> , 2018, 9, 336.	2.4	86
487	Use of Photon Scattering Interactions in Diagnosis and Treatment of Disease. , 2018, , 135-158.		0

#	ARTICLE	IF	CITATIONS
488	Role of Extracellular Matrix in Development and Cancer Progression. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3028.	1.8	735
489	Membrane associated collagen XIII promotes cancer metastasis and enhances anoikis resistance. <i>Breast Cancer Research</i> , 2018, 20, 116.	2.2	50
490	Biomaterials in Mechano-oncology: Means to Tune Materials to Study Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1092, 253-287.	0.8	5
491	Restriction of drug transport by the tumor environment. <i>Histochemistry and Cell Biology</i> , 2018, 150, 631-648.	0.8	16
492	Collagen prolyl 4-hydroxylase 1 is essential for HIF-1 α stabilization and TNBC chemoresistance. <i>Nature Communications</i> , 2018, 9, 4456.	5.8	170
493	Second-harmonic patterned polarization-analyzed reflection confocal microscopy of stromal collagen in benign and malignant breast tissues. <i>Scientific Reports</i> , 2018, 8, 16243.	1.6	14
494	Identification of potential prognostic long non-coding RNA signatures based on a competing endogenous RNA network in lung adenocarcinoma. <i>Oncology Reports</i> , 2018, 40, 3199-3212.	1.2	8
495	Biomechanical interplay between anisotropic re-organization of cells and the surrounding matrix underlies transition to invasive cancer spread. <i>Scientific Reports</i> , 2018, 8, 14210.	1.6	19
496	Traction Force Microscopy for Noninvasive Imaging of Cell Forces. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1092, 319-349.	0.8	23
497	Extracellular matrix collagen I promotes the tumor progression of residual hepatocellular carcinoma after heat treatment. <i>BMC Cancer</i> , 2018, 18, 901.	1.1	49
498	Three-Dimensional In Vitro Hydro- and Cryogel-Based Cell-Culture Models for the Study of Breast-Cancer Metastasis to Bone. <i>Cancers</i> , 2018, 10, 292.	1.7	25
499	Targeted matrisome analysis identifies thrombospondin-2 and tenascin-C in aligned collagen stroma from invasive breast carcinoma. <i>Scientific Reports</i> , 2018, 8, 12941.	1.6	51
500	Tumor Elastography and Its Association with Collagen and the Tumor Microenvironment. <i>Clinical Cancer Research</i> , 2018, 24, 4455-4467.	3.2	88
501	Quantitative retardance imaging by means of quadri-wave lateral shearing interferometry for label-free fiber imaging in tissues. <i>Optics Communications</i> , 2018, 422, 17-27.	1.0	12
502	Localized co-delivery of collagenase and trastuzumab by thermosensitive hydrogels for enhanced antitumor efficacy in human breast xenograft. <i>Drug Delivery</i> , 2018, 25, 1495-1503.	2.5	54
503	High collagen density augments mTOR-dependent cancer stem cells in ER α ++ mammary carcinomas, and increases mTOR-independent lung metastases. <i>Cancer Letters</i> , 2018, 433, 1-9.	3.2	29
504	Biomimetic tumor microenvironments based on collagen matrices. <i>Biomaterials Science</i> , 2018, 6, 2009-2024.	2.6	63
505	Early synergistic interactions between the HPV16 E7 oncoprotein and 17 β -oestradiol for repressing the expression of Granzyme γ 2B in a cervical cancer model. <i>International Journal of Oncology</i> , 2018, 53, 579-591.	1.4	10

#	ARTICLE	IF	CITATIONS
506	Contact guidance is cell cycle-dependent. <i>APL Bioengineering</i> , 2018, 2, .	3.3	15
507	Biophysics of Tumor Microenvironment and Cancer Metastasis - A Mini Review. <i>Computational and Structural Biotechnology Journal</i> , 2018, 16, 279-287.	1.9	190
508	Compressed collagen and decellularized tissue "novel components in a pipeline approach for the study of cancer metastasis. <i>BMC Cancer</i> , 2018, 18, 622.	1.1	9
509	Double-exclusive liquid repellency (double-ELR): an enabling technology for rare phenotype analysis. <i>Lab on A Chip</i> , 2018, 18, 2710-2719.	3.1	20
510	Hypoxic Signalling in Tumour Stroma. <i>Frontiers in Oncology</i> , 2018, 8, 189.	1.3	48
511	Single and Multiphoton Responsive Nanomaterials for the Investigation of Cancer Microenvironment. , 2018, , 63-95.		0
512	Teaming Up for Trouble: Cancer Cells, Transforming Growth Factor- β 1 Signaling and the Epigenetic Corruption of Stromal Naïve Fibroblasts. <i>Cancers</i> , 2018, 10, 61.	1.7	30
513	Three-Dimensional Hepatocellular Carcinoma/Fibroblast Model on a Nanofibrous Membrane Mimics Tumor Cell Phenotypic Changes and Anticancer Drug Resistance. <i>Nanomaterials</i> , 2018, 8, 64.	1.9	4
514	Manipulating the tumor microenvironment by adoptive cell transfer of CAR T-cells. <i>Mammalian Genome</i> , 2018, 29, 739-756.	1.0	33
515	Mechanical and Systems Biology of Cancer. <i>Computational and Structural Biotechnology Journal</i> , 2018, 16, 237-245.	1.9	31
516	Engineering Breast Cancer Microenvironments and 3D Bioprinting. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 66.	2.0	77
517	Roles of PLODs in Collagen Synthesis and Cancer Progression. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 66.	1.8	139
518	Prostatic collagen architecture in neutered and intact canines. <i>Prostate</i> , 2018, 78, 839-848.	1.2	11
519	The origins of breast cancer associated with mammographic density: a testable biological hypothesis. <i>Breast Cancer Research</i> , 2018, 20, 17.	2.2	32
520	The mechanical microenvironment regulates ovarian cancer cell morphology, migration, and spheroid disaggregation. <i>Scientific Reports</i> , 2018, 8, 7228.	1.6	126
521	Postnatal exposure to a glyphosate-based herbicide modifies mammary gland growth and development in Wistar male rats. <i>Food and Chemical Toxicology</i> , 2018, 118, 111-118.	1.8	34
522	Phenotypic Basis for Matrix Stiffness-Dependent Chemoresistance of Breast Cancer Cells to Doxorubicin. <i>Frontiers in Oncology</i> , 2018, 8, 337.	1.3	89
523	Collagen type 1 promotes survival of human breast cancer cells by overexpressing Kv10.1 potassium and Orai1 calcium channels through DDR1-dependent pathway. <i>Oncotarget</i> , 2018, 9, 24653-24671.	0.8	67

#	ARTICLE	IF	CITATIONS
524	MiRâ€122 inhibits epithelial mesenchymal transition by regulating P4HA1 in ovarian cancer cells. <i>Cell Biology International</i> , 2018, 42, 1564-1574.	1.4	40
525	Increased extracellular matrix density disrupts E-cadherin/ β 2-catenin complex in gastric cancer cells. <i>Biomaterials Science</i> , 2018, 6, 2704-2713.	2.6	47
526	TGF- β 1-SOX9 axis-inducible COL10A1 promotes invasion and metastasis in gastric cancer via epithelial-to-mesenchymal transition. <i>Cell Death and Disease</i> , 2018, 9, 849.	2.7	128
527	Cancer cellsâ€™ ability to mechanically adjust to extracellular matrix stiffness correlates with their invasive potential. <i>Molecular Biology of the Cell</i> , 2018, 29, 2378-2385.	0.9	182
528	Cell cycleâ€dependent force transmission in cancer cells. <i>Molecular Biology of the Cell</i> , 2018, 29, 2528-2539.	0.9	27
529	Mesoscale substrate curvature overrules nanoscale contact guidance to direct bone marrow stromal cell migration. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180162.	1.5	53
530	Collagen type I induces $\langle \text{EGFR} \rangle$ â€ $\langle \text{TKI} \rangle$ resistance in $\langle \text{EGFR} \rangle$ â€mutated cancer cells by $\langle \text{mTOR} \rangle$ activation through Aktâ€independent pathway. <i>Cancer Science</i> , 2018, 109, 2063-2073.	1.7	39
531	Engineered collagen-binding serum albumin as a drug conjugate carrier for cancer therapy. <i>Science Advances</i> , 2019, 5, eaaw6081.	4.7	58
532	<p>Mechano-signalling, induced by fullerene C₆₀ nanofilms, arrests the cell cycle in the G2/M phase and decreases proliferation of liver cancer cells</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6197-6215.	3.3	24
533	Dynamic interactions between the extracellular matrix and estrogen activity in progression of ER+ breast cancer. <i>Oncogene</i> , 2019, 38, 6913-6925.	2.6	31
534	Mechanically and chemically defined hydrogel matrices for patient-derived colorectal tumor organoid culture. <i>Biomaterials</i> , 2019, 219, 119400.	5.7	60
535	Pregnancy and Breast Cancer: Pathways to Understand Risk and Prevention. <i>Trends in Molecular Medicine</i> , 2019, 25, 866-881.	3.5	54
536	Mammographic Density: Intersection of Advocacy, Science, and Clinical Practice. <i>Current Breast Cancer Reports</i> , 2019, 11, 100-110.	0.5	1
537	Abrupt involution induces inflammation, estrogenic signaling, and hyperplasia linking lack of breastfeeding with increased risk of breast cancer. <i>Breast Cancer Research</i> , 2019, 21, 80.	2.2	32
538	The Role of Sodium Hydrogen Exchanger 1 in Dysregulation of Proton Dynamics and Reprogramming of Cancer Metabolism as a Sequela. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3694.	1.8	27
539	A whole slide image-based machine learning approach to predict ductal carcinoma in situ (DCIS) recurrence risk. <i>Breast Cancer Research</i> , 2019, 21, 83.	2.2	39
540	Immunotherapy: breaching the barriers for cancer treatment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180214.	1.8	9
541	Influence of matrigel on the shape and dynamics of cancer cells. <i>Chinese Physics B</i> , 2019, 28, 108704.	0.7	2

#	ARTICLE	IF	CITATIONS
542	P-cadherin-induced decorin secretion is required for collagen fiber alignment and directional collective cell migration. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	14
543	Harmonic Generation Microscopy 2.0: New Tricks Empowering Intravital Imaging for Neuroscience. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 99.	1.6	11
544	NAD(P)H fluorescence lifetime measurements in fixed biological tissues. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 044005.	1.1	22
545	Cell-Perceived Substrate Curvature Dynamically Coordinates the Direction, Speed, and Persistence of Stromal Cell Migration. <i>Advanced Biology</i> , 2019, 3, e1900080.	3.0	63
546	Pancreatic stellate cells activated by mutant KRAS-mediated PAI-1 upregulation foster pancreatic cancer progression via IL-8. <i>Theranostics</i> , 2019, 9, 7168-7183.	4.6	34
547	Investigating the Contribution of Collagen to the Tumor Biomechanical Phenotype with Noninvasive Magnetic Resonance Elastography. <i>Cancer Research</i> , 2019, 79, 5874-5883.	0.4	35
548	Are the Effects of Independent Biophysical Factors Linearly Additive? A 3D Tumor Migration Model. <i>Biophysical Journal</i> , 2019, 117, 1702-1713.	0.2	6
549	Matrix feedback enables diverse higher-order patterning of the extracellular matrix. <i>PLoS Computational Biology</i> , 2019, 15, e1007251.	1.5	20
550	Keratin-14 (KRT14) Positive Leader Cells Mediate Mesothelial Clearance and Invasion by Ovarian Cancer Cells. <i>Cancers</i> , 2019, 11, 1228.	1.7	39
551	Advancing cancer diagnostics with artificial intelligence and spectroscopy: identifying chemical changes associated with breast cancer. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 929-940.	1.5	24
552	Environmental exposures during windows of susceptibility for breast cancer: a framework for prevention research. <i>Breast Cancer Research</i> , 2019, 21, 96.	2.2	143
553	Bottom up proteomics reveals novel differentiation proteins in neuroblastoma cells treated with 13-cis retinoic acid. <i>Journal of Proteomics</i> , 2019, 209, 103491.	1.2	5
554	Roadmap to Local Tumour Growth: Insights from Cervical Cancer. <i>Scientific Reports</i> , 2019, 9, 12768.	1.6	8
555	Complex Susceptibilities and Chiroptical Effects of Collagen Measured with Polarimetric Second-Harmonic Generation Microscopy. <i>Scientific Reports</i> , 2019, 9, 12488.	1.6	33
556	Integrating nanofibers with biochemical gradients to investigate physiologically-relevant fibroblast chemotaxis. <i>Lab on A Chip</i> , 2019, 19, 3641-3651.	3.1	6
557	Migration dynamics of ovarian epithelial cells on micro-fabricated image-based models of normal and malignant stroma. <i>Acta Biomaterialia</i> , 2019, 100, 92-104.	4.1	9
558	Macromolecular crowding tunes 3D collagen architecture and cell morphogenesis. <i>Biomaterials Science</i> , 2019, 7, 618-633.	2.6	37
559	Interpenetrating Polymer Network Hydrogels of Gelatin and Poly(ethylene glycol) as an Engineered 3D Tumor Microenvironment. <i>Macromolecular Research</i> , 2019, 27, 205-211.	1.0	12

#	ARTICLE	IF	CITATIONS
560	Current progress in the inflammatory background of angiogenesis in gynecological cancers. <i>Inflammation Research</i> , 2019, 68, 247-260.	1.6	14
561	Transglutaminase-2 Mediates the Biomechanical Properties of the Colorectal Cancer Tissue Microenvironment that Contribute to Disease Progression. <i>Cancers</i> , 2019, 11, 701.	1.7	12
562	Fiber Density Modulates Cell Spreading in 3D Interstitial Matrix Mimetics. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2965-2975.	2.6	64
563	Exploring Collagen Parameters in Pure Special Types of Invasive Breast Cancer. <i>Scientific Reports</i> , 2019, 9, 7715.	1.6	22
564	Geometric characteristics of collagen have independent prognostic significance in breast ductal carcinoma in situ: an image analysis study. <i>Modern Pathology</i> , 2019, 32, 1473-1485.	2.9	11
565	Interplay Between LOX Enzymes and Integrins in the Tumor Microenvironment. <i>Cancers</i> , 2019, 11, 729.	1.7	50
566	Collagen organization of renal cell carcinoma differs between low and high grade tumors. <i>BMC Cancer</i> , 2019, 19, 490.	1.1	41
567	Label-free molecular profiling for identification of biomarkers in carcinogenesis using multimodal multiphoton imaging. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 742-742.	1.1	12
568	The roles of collagens in cancer. , 2019, , 341-352.		1
569	Extracellular matrix dynamics in cell migration, invasion and tissue morphogenesis. <i>International Journal of Experimental Pathology</i> , 2019, 100, 144-152.	0.6	72
570	Integrins: Moonlighting Proteins in Invadosome Formation. <i>Cancers</i> , 2019, 11, 615.	1.7	28
571	Use of IR Spectroscopy in Cancer Diagnosis. A Review. <i>Journal of Applied Spectroscopy</i> , 2019, 86, 187-205.	0.3	25
572	Examination of Collagen Structure and State by the Second Harmonic Generation Microscopy. <i>Biochemistry (Moscow)</i> , 2019, 84, 89-107.	0.7	14
573	Profiling of differentially expressed genes in cadmium-induced prostate carcinogenesis. <i>Toxicology and Applied Pharmacology</i> , 2019, 375, 57-63.	1.3	9
574	YAP-independent mechanotransduction drives breast cancer progression. <i>Nature Communications</i> , 2019, 10, 1848.	5.8	127
575	The Crosstalk Between Cell Adhesion and Cancer Metabolism. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1933.	1.8	67
576	Parity predisposes breasts to the oncogenic action of PAPP-A and activation of the collagen receptor DDR2. <i>Breast Cancer Research</i> , 2019, 21, 56.	2.2	19
577	Novel approaches to promote CAR T-cell function in solid tumors. <i>Expert Opinion on Biological Therapy</i> , 2019, 19, 789-799.	1.4	5

#	ARTICLE	IF	CITATIONS
578	Hyaline fibrous involution of breast lobules: a histologic finding associated with germline BRCA mutation. <i>Modern Pathology</i> , 2019, 32, 1263-1270.	2.9	1
579	Pan-cancer genomic amplifications underlie a WNT hyperactivation phenotype associated with stem cell-like features leading to poor prognosis. <i>Translational Research</i> , 2019, 208, 47-62.	2.2	9
580	Stromal integrin $\alpha 11$ -deficiency reduces interstitial fluid pressure and perturbs collagen structure in triple-negative breast xenograft tumors. <i>BMC Cancer</i> , 2019, 19, 234.	1.1	9
581	Integrin Signaling in Cancer: Mechanotransduction, Stemness, Epithelial Plasticity, and Therapeutic Resistance. <i>Cancer Cell</i> , 2019, 35, 347-367.	7.7	533
582	Collagen Prolyl Hydroxylases Are Bifunctional Growth Regulators in Melanoma. <i>Journal of Investigative Dermatology</i> , 2019, 139, 1118-1126.	0.3	29
583	Characterization of Collagen Fibers (I, III, IV) and Elastin of Normal and Neoplastic Canine Prostatic Tissues. <i>Veterinary Sciences</i> , 2019, 6, 22.	0.6	7
584	Collagen density regulates the activity of tumor-infiltrating T cells. , 2019, 7, 68.		239
585	Tumorigenic Interplay Between Macrophages and Collagenous Matrix in the Tumor Microenvironment. <i>Methods in Molecular Biology</i> , 2019, 1944, 203-220.	0.4	14
586	The influence of hydration on the architectural rearrangement of normal and neoplastic human breast tissues. <i>Heliyon</i> , 2019, 5, e01219.	1.4	5
587	Nano-Strategies to Target Breast Cancer-Associated Fibroblasts: Rearranging the Tumor Microenvironment to Achieve Antitumor Efficacy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1263.	1.8	71
588	Targeted antibody and cytokine cancer immunotherapies through collagen affinity. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	134
589	A complex of novel protease inhibitor, ovostatin homolog, with its cognate proteases in immature mice uterine luminal fluid. <i>Scientific Reports</i> , 2019, 9, 4973.	1.6	1
590	Engineered materials to model human intestinal development and cancer using organoids. <i>Experimental Cell Research</i> , 2019, 377, 109-114.	1.2	19
591	Microphysiological Systems as Enabling Tools for Modeling Complexity in the Tumor Microenvironment and Accelerating Cancer Drug Development. <i>Advanced Functional Materials</i> , 2019, 29, 1807553.	7.8	32
592	Original association of ion transporters mediates the ECM-induced breast cancer cell survival: Kv10.1-Orai1-SPCA2 partnership. <i>Scientific Reports</i> , 2019, 9, 1175.	1.6	33
593	Cancer cells in the tumor core exhibit spatially coordinated migration patterns. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	35
594	ROCK isoforms differentially modulate cancer cell motility by mechanosensing the substrate stiffness. <i>Acta Biomaterialia</i> , 2019, 88, 86-101.	4.1	86
595	Collagen Fiber Array of Peritumoral Stroma Influences Epithelial-to-Mesenchymal Transition and Invasive Potential of Mammary Cancer Cells. <i>Journal of Clinical Medicine</i> , 2019, 8, 213.	1.0	31

#	ARTICLE	IF	CITATIONS
596	Response of collagen matrices under pressure and hydraulic resistance in hydrogels. <i>Soft Matter</i> , 2019, 15, 2617-2626.	1.2	14
597	Broadband Time Domain Diffuse Optical Reflectance Spectroscopy: A Review of Systems, Methods, and Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5465.	1.3	15
598	Matrisome analysis of intrahepatic cholangiocarcinoma unveils a peculiar cancer-associated extracellular matrix structure. <i>Clinical Proteomics</i> , 2019, 16, 37.	1.1	31
599	Imaging Collagen Alterations in STICs and High Grade Ovarian Cancers in the Fallopian Tubes by Second Harmonic Generation Microscopy. <i>Cancers</i> , 2019, 11, 1805.	1.7	21
600	Cross-talk between SIM2s and NF κ B regulates cyclooxygenase 2 expression in breast cancer. <i>Breast Cancer Research</i> , 2019, 21, 131.	2.2	11
601	Compressive Remodeling Alters Fluid Transport Properties of Collagen Networks – Implications for Tumor Growth. <i>Scientific Reports</i> , 2019, 9, 17151.	1.6	23
602	Development of a Microfluidic Array to Study Drug Response in Breast Cancer. <i>Molecules</i> , 2019, 24, 4385.	1.7	9
603	Quantitative Multiparametric Breast Ultrasound. <i>Investigative Radiology</i> , 2019, 54, 257-264.	3.5	46
604	The Aged Microenvironment Influences the Tumorigenic Potential of Malignant Prostate Epithelial Cells. <i>Molecular Cancer Research</i> , 2019, 17, 321-331.	1.5	32
605	Cell-seeded 3D scaffolds as in vitro models for electroporation. <i>Bioelectrochemistry</i> , 2019, 125, 15-24.	2.4	15
606	Stromal PTEN Regulates Extracellular Matrix Organization in the Mammary Gland. <i>Neoplasia</i> , 2019, 21, 132-145.	2.3	35
607	Fibril bending stiffness of 3D collagen matrices instructs spreading and clustering of invasive and non-invasive breast cancer cells. <i>Biomaterials</i> , 2019, 193, 47-57.	5.7	71
608	Large-scale profiling of serum metabolites in African American and European American patients with bladder cancer reveals metabolic pathways associated with patient survival. <i>Cancer</i> , 2019, 125, 921-932.	2.0	42
609	Up-regulation of collagen proteins in colorectal liver metastasis compared with normal liver tissue. <i>Journal of Biological Chemistry</i> , 2019, 294, 281-289.	1.6	65
610	Mammary fibroblasts remodel fibrillar collagen microstructure in a biomimetic nanocomposite hydrogel. <i>Acta Biomaterialia</i> , 2019, 83, 221-232.	4.1	23
611	Turning foes to friends: targeting cancer-associated fibroblasts. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 99-115.	21.5	1,040
612	A High-Throughput Workflow to Study Remodeling of Extracellular Matrix-Based Microtissues. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 25-36.	1.1	21
613	Impact of tissue preservation on collagen fiber architecture. <i>Biotechnic and Histochemistry</i> , 2019, 94, 134-144.	0.7	8

#	ARTICLE	IF	CITATIONS
614	Mueller polarimetric imaging for characterizing the collagen microstructures of breast cancer tissues in different genotypes. <i>Optics Communications</i> , 2019, 433, 60-67.	1.0	16
615	Cellâ€Cell Mechanical Communication in Cancer. <i>Cellular and Molecular Bioengineering</i> , 2019, 12, 1-14.	1.0	54
616	Metformin Abrogates Age-Associated Ovarian Fibrosis. <i>Clinical Cancer Research</i> , 2020, 26, 632-642.	3.2	51
617	Multiscale dynamics of a heterotypic cancer cell population within a fibrous extracellular matrix. <i>Journal of Theoretical Biology</i> , 2020, 486, 110040.	0.8	13
618	Scaffold stiffness influences breast cancer cell invasion via EGFR-linked Mena upregulation and matrix remodeling. <i>Matrix Biology</i> , 2020, 85-86, 80-93.	1.5	56
619	Roles of Interactions Between Cells and Extracellular Matrices for Cell Migration and Matrix Remodeling. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2020, , 247-282.	0.7	1
620	Frontiers in intravital multiphoton microscopy of cancer. <i>Cancer Reports</i> , 2020, 3, e1192.	0.6	30
621	Prostate epithelialâ€specific expression of activated PI3K drives stromal collagen production and accumulation. <i>Journal of Pathology</i> , 2020, 250, 231-242.	2.1	14
622	Evaluation of breast carcinoma regression after preoperative chemotherapy by labelâ€free multiphoton imaging and image analysis. <i>Journal of Biophotonics</i> , 2020, 13, e201900216.	1.1	8
623	Extracellular matrix anisotropy is determined by TFAP2C-dependent regulation of cell collisions. <i>Nature Materials</i> , 2020, 19, 227-238.	13.3	82
624	Overexpressing PLOD family genes predict poor prognosis in gastric cancer. <i>Journal of Cancer</i> , 2020, 11, 121-131.	1.2	32
625	Impact of breast cancer cellsâ€™ secretome on the brain metastatic niche remodeling. <i>Seminars in Cancer Biology</i> , 2020, 60, 294-301.	4.3	20
626	The role of extracellular matrix in biomechanics and its impact on bioengineering of cells and 3D tissues. <i>Matrix Biology</i> , 2020, 85-86, 1-14.	1.5	115
627	Stromal Collagen Content in Breast Tumors Correlates With In Vivo Diffusionâ€Weighted Imaging: A Comparison of Multi <i>b</i>â€Value DWI With Histologic Specimen From Benign and Malignant Breast Lesions. <i>Journal of Magnetic Resonance Imaging</i>, 2020, 51, 1868-1878.</i>	1.9	16
628	Tissue engineering and regenerative medicine strategies for the female breast. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 369-387.	1.3	21
629	Emerging Concepts and Tools in Cell Mechanomemory. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2103-2112.	1.3	9
630	Spatial mapping of the collagen distribution in human and mouse tissues by force volume atomic force microscopy. <i>Scientific Reports</i> , 2020, 10, 15664.	1.6	23
631	A Complex and Evolutive Character: Two Face Aspects of ECM in Tumor Progression. <i>Frontiers in Oncology</i> , 2020, 10, 1620.	1.3	26

#	ARTICLE	IF	CITATIONS
632	Focused Ultrasound for Immunomodulation of the Tumor Microenvironment. <i>Journal of Immunology</i> , 2020, 205, 2327-2341.	0.4	37
633	LTBP1 plays a potential bridge between depressive disorder and glioblastoma. <i>Journal of Translational Medicine</i> , 2020, 18, 391.	1.8	11
634	Concepts of extracellular matrix remodelling in tumour progression and metastasis. <i>Nature Communications</i> , 2020, 11, 5120.	5.8	1,004
635	Mechanoactivation of NOX2-generated ROS elicits persistent TRPM8 Ca ²⁺ signals that are inhibited by oncogenic KRas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26008-26019.	3.3	19
636	Comparison of Mortality Among Participants of Women's Health Initiative Trials With Screening-Detected Breast Cancers vs Interval Breast Cancers. <i>JAMA Network Open</i> , 2020, 3, e207227.	2.8	22
637	Direct comparison of five different 3D extracellular matrix model systems for characterization of cancer cell migration. <i>Cancer Reports</i> , 2020, 3, e1257.	0.6	24
638	Photocleavable Surfactant-Enabled Extracellular Matrix Proteomics. <i>Analytical Chemistry</i> , 2020, 92, 15693-15698.	3.2	24
639	A phenotypic switch in the dispersal strategy of breast cancer cells selected for metastatic colonization. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202523.	1.2	6
640	Effects of the Tumor Environment on Ion Channels: Implication for Breast Cancer Progression. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2020, , 1-38.	0.9	1
641	The Roles of Tissue Rigidity and Its Underlying Mechanisms in Promoting Tumor Growth. <i>Cancer Investigation</i> , 2020, 38, 445-462.	0.6	6
642	Heparanase Promotes Syndecan-1 Expression to Mediate Fibrillar Collagen and Mammographic Density in Human Breast Tissue Cultured ex vivo. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 599.	1.8	14
643	Collagen Density Modulates the Immunosuppressive Functions of Macrophages. <i>Journal of Immunology</i> , 2020, 205, 1461-1472.	0.4	64
644	Microenvironmental modulation of the developing tumour: an immune-stromal dialogue. <i>Molecular Oncology</i> , 2021, 15, 2600-2633.	2.1	8
645	Prognostic value of tumor stromal collagen features in patients with hepatocellular carcinoma revealed by second-harmonic generation microscopy. <i>Experimental and Molecular Pathology</i> , 2020, 116, 104513.	0.9	3
646	Creatine supplementation does not promote tumor growth or enhance tumor aggressiveness in Walker-256 tumor-bearing rats. <i>Nutrition</i> , 2020, 79-80, 110958.	1.1	1
647	Corneal Stiffness and Collagen Cross-Linking Proteins in Glaucoma: Potential for Novel Therapeutic Strategy. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2020, 36, 582-594.	0.6	14
648	Stromal regulation of tumor-associated lymphatics. <i>Advanced Drug Delivery Reviews</i> , 2020, 161-162, 75-89.	6.6	6
649	Infarct Collagen Topography Regulates Fibroblast Fate via p38-Yes-Associated Protein Transcriptional Enhanced Associate Domain Signals. <i>Circulation Research</i> , 2020, 127, 1306-1322.	2.0	40

#	ARTICLE	IF	CITATIONS
650	Cell-cell adhesion and 3D matrix confinement determine jamming transitions in breast cancer invasion. <i>Nature Cell Biology</i> , 2020, 22, 1103-1115.	4.6	209
651	The Multi-Faced Role of PAPP-A in Post-Partum Breast Cancer: IGF-Signaling is Only the Beginning. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2020, 25, 181-189.	1.0	8
652	Application of atomic force microscope in diagnosis of single cancer cells. <i>Biomicrofluidics</i> , 2020, 14, 051501.	1.2	6
653	Extracellular Matrix-Mediated Breast Cancer Cells Morphological Alterations, Invasiveness, and Microvesicles/Exosomes Release. <i>Cells</i> , 2020, 9, 2031.	1.8	40
654	Intratumoral collagen signatures predict clinical outcomes in feline mammary carcinoma. <i>PLoS ONE</i> , 2020, 15, e0236516.	1.1	12
655	A novel culture method that sustains ER α signaling in human breast cancer tissue microstructures. <i>Journal of Experimental and Clinical Cancer Research</i> , 2020, 39, 161.	3.5	16
656	Collagen Remodeling Plays a Pivotal Role in Endothelial Corneal Dystrophies. , 2020, 61, 1.		5
657	Intratumoral heterogeneity of second-harmonic generation scattering from tumor collagen and its effects on metastatic risk prediction. <i>BMC Cancer</i> , 2020, 20, 1217.	1.1	10
658	Impact of crosslink heterogeneity on extracellular matrix mechanics and remodeling. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3969-3976.	1.9	15
659	Paxillin family of focal adhesion adaptor proteins and regulation of cancer cell invasion. <i>International Review of Cell and Molecular Biology</i> , 2020, 355, 1-52.	1.6	28
660	Anti-cancer Effects of Fucoxanthin on Human Glioblastoma Cell Line. <i>Anticancer Research</i> , 2020, 40, 6799-6815.	0.5	16
661	EGFR/ER α -Mediated Cell Morphology and Invasion Capacity Are Associated with Matrix Culture Substrates in Breast Cancer. <i>Cells</i> , 2020, 9, 2256.	1.8	7
662	Guided-Mode-Resonant Dielectric Metasurfaces for Colorimetric Imaging of Material Anisotropy in Fibrous Biological Tissue. <i>ACS Photonics</i> , 2020, 7, 3216-3227.	3.2	13
663	In Vitro Modeling of the Tumor Microenvironment in Tumor Organoids. <i>Tissue Engineering and Regenerative Medicine</i> , 2020, 17, 759-771.	1.6	28
664	Cell shape, and not 2D migration, predicts extracellular matrix-driven 3D cell invasion in breast cancer. <i>APL Bioengineering</i> , 2020, 4, 026105.	3.3	50
665	Cell-Scale Degradation of Peritumoural Extracellular Matrix Fibre Network and Its Role Within Tissue-Scale Cancer Invasion. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 65.	0.9	10
666	Harmonic optical tomography of nonlinear structures. <i>Nature Photonics</i> , 2020, 14, 564-569.	15.6	39
667	Biomechanical Contributions to Macrophage Activation in the Tumor Microenvironment. <i>Frontiers in Oncology</i> , 2020, 10, 787.	1.3	40

#	ARTICLE	IF	CITATIONS
668	In utero estrogenic endocrine disruption alters the stroma to increase extracellular matrix density and mammary gland stiffness. <i>Breast Cancer Research</i> , 2020, 22, 41.	2.2	16
669	Mechano-therapeutics: Targeting Mechanical Signaling in Fibrosis and Tumor Stroma. , 2020, 212, 107575.		69
670	The significance of stromal collagen organization in cancer tissue: An in-depth discussion of literature. <i>Critical Reviews in Oncology/Hematology</i> , 2020, 151, 102907.	2.0	30
671	Generation of 3D Tumor Spheroids with Encapsulating Basement Membranes for Invasion Studies. <i>Current Protocols in Cell Biology</i> , 2020, 87, e105.	2.3	17
672	Key steps for effective breast cancer prevention. <i>Nature Reviews Cancer</i> , 2020, 20, 417-436.	12.8	386
673	Quantitative assessment of distant recurrence risk in early stage breast cancer using a nonlinear combination of pathological, clinical and imaging variables. <i>Journal of Biophotonics</i> , 2020, 13, e201960235.	1.1	0
674	Role of Collagen Fiber Morphology on Ovarian Cancer Cell Migration Using Image-Based Models of the Extracellular Matrix. <i>Cancers</i> , 2020, 12, 1390.	1.7	29
675	Architecture of Cancer-Associated Fibroblasts in Tumor Microenvironment: Mapping Their Origins, Heterogeneity, and Role in Cancer Therapy Resistance. <i>OMICS A Journal of Integrative Biology</i> , 2020, 24, 314-339.	1.0	35
676	The Physical Microenvironment of Tumors: Characterization and Clinical Impact. <i>Biophysical Reviews and Letters</i> , 2020, 15, 51-82.	0.9	3
677	The Mechanical Microenvironment in Breast Cancer. <i>Cancers</i> , 2020, 12, 1452.	1.7	32
678	Breast Mammographic Density: Stromal Implications on Breast Cancer Detection and Therapy. <i>Journal of Clinical Medicine</i> , 2020, 9, 776.	1.0	4
679	Molecular imaging of extracellular matrix proteins with targeted probes using magnetic resonance imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1622.	3.3	15
680	Fibrosis and cancer: A strained relationship. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2020, 1873, 188356.	3.3	327
681	Ovarian Cells Have Increased Proliferation in Response to Heparin-Binding Epidermal Growth Factor as Collagen Density Increases. <i>Tissue Engineering - Part A</i> , 2020, 26, 747-758.	1.6	18
682	Influence of Fibroblasts on Mammary Gland Development, Breast Cancer Microenvironment Remodeling, and Cancer Cell Dissemination. <i>Cancers</i> , 2020, 12, 1697.	1.7	27
683	Postpartum breast cancer progression is driven by semaphorin 7a-mediated invasion and survival. <i>Oncogene</i> , 2020, 39, 2772-2785.	2.6	23
684	Breast cancer models: Engineering the tumor microenvironment. <i>Acta Biomaterialia</i> , 2020, 106, 1-21.	4.1	112
685	Feeling Things Out: Bidirectional Signaling of the Cell-ECM Interface, Implications in the Mechanobiology of Cell Spreading, Migration, Proliferation, and Differentiation. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901445.	3.9	70

#	ARTICLE	IF	CITATIONS
686	Cellular uptake of collagens and implications for immune cell regulation in disease. Cellular and Molecular Life Sciences, 2020, 77, 3161-3176.	2.4	28
687	Modeling chemical effects on breast cancer: the importance of the microenvironment in vitro. Integrative Biology (United Kingdom), 2020, 12, 21-33.	0.6	9
688	Extracellular Matrix in the Tumor Microenvironment and Its Impact on Cancer Therapy. Frontiers in Molecular Biosciences, 2019, 6, 160.	1.6	596
689	Bundling of Collagen Fibrils Using Sodium Sulfate for Biomimetic Cell Culturing. ACS Omega, 2020, 5, 3444-3452.	1.6	10
690	Fibrillar Collagen Quantification With Curvelet Transform Based Computational Methods. Frontiers in Bioengineering and Biotechnology, 2020, 8, 198.	2.0	32
691	Thermostability of rat sarcoma M1 procollagen solutions, procollagen fibers and whole tissues. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1561-1565.	2.0	0
692	SAXS-CT: a nanostructure resolving microscopy for macroscopic biologic specimens. Biomedical Physics and Engineering Express, 2020, 6, 035012.	0.6	8
693	Matrix density drives 3D organotypic lymphatic vessel activation in a microfluidic model of the breast tumor microenvironment. Lab on A Chip, 2020, 20, 1586-1600.	3.1	40
694	Label-Free Identification of Early Stages of Breast Ductal Carcinoma via Multiphoton Microscopy. Scanning, 2020, 2020, 1-8.	0.7	7
695	Uptake of collagen type I via macropinocytosis cause mTOR activation and anti-cancer drug resistance. Biochemical and Biophysical Research Communications, 2020, 526, 191-198.	1.0	19
696	Altered presence of extra cellular matrix components in murine skin cancer: Modulation by Azadirachta indica leaf extract. Journal of Traditional and Complementary Medicine, 2021, 11, 197-208.	1.5	3
697	Visualization of lymphatic vascular invasion in breast cancer by multiphoton microscopy. Lasers in Medical Science, 2021, 36, 303-309.	1.0	3
698	MR Elastography of the Breast: Evolution of Technique, Case Examples, and Future Directions. Clinical Breast Cancer, 2021, 21, e102-e111.	1.1	20
699	Tumor organoid models in precision medicine and investigating cancer-stromal interactions. , 2021, 218, 107668.		59
700	Disentangling the fibrous microenvironment: designer culture models for improved drug discovery. Expert Opinion on Drug Discovery, 2021, 16, 159-171.	2.5	17
701	Collagen Organization in Relation to Ductal Carcinoma <i>In Situ</i> Pathology and Outcomes. Cancer Epidemiology Biomarkers and Prevention, 2021, 30, 80-88.	1.1	21
702	Tumour-associated macrophages drive stromal cell-dependent collagen crosslinking and stiffening to promote breast cancer aggression. Nature Materials, 2021, 20, 548-559.	13.3	125
703	Insights from transgenic mouse models of PyMT-induced breast cancer: recapitulating human breast cancer progression in vivo. Oncogene, 2021, 40, 475-491.	2.6	91

#	ARTICLE	IF	CITATIONS
704	Trisulfide linked cholesteryl PEG conjugate attenuates intracellular ROS and collagen-1 production in a breast cancer co-culture model. <i>Biomaterials Science</i> , 2021, 9, 835-846.	2.6	11
705	Pubertal mammary gland development is a key determinant of adult mammographic density. <i>Seminars in Cell and Developmental Biology</i> , 2021, 114, 143-158.	2.3	17
706	Interstitial Hypertension Suppresses Escape of Human Breast Tumor Cells Via Convection of Interstitial Fluid. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 147-159.	1.0	13
707	Tissue Imaging and Quantification Relying on Endogenous Contrast. <i>Advances in Experimental Medicine and Biology</i> , 2021, 3233, 257-288.	0.8	1
708	PLODs are overexpressed in ovarian cancer and are associated with gap junctions via connexin 43. <i>Laboratory Investigation</i> , 2021, 101, 564-569.	1.7	12
709	Bioinformatic analysis of PLOD family member expression and prognostic value in non-small cell lung cancer. <i>Translational Cancer Research</i> , 2021, 10, 2707-2724.	0.4	7
710	Convolutional Neural Networks in Advanced Biomedical Imaging Applications. , 2021, , 197-236.		1
711	Navigating the Collagen Jungle: The Biomedical Potential of Fiber Organization in Cancer. <i>Bioengineering</i> , 2021, 8, 17.	1.6	42
712	Associated anisotropy of intrinsic NAD(P)H for monitoring changes in the metabolic activities of breast cancer cells (4T1) in three-dimensional collagen matrix. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12692-12705.	1.3	2
714	Molecular and Functional Imaging and Theranostics of the Tumor Microenvironment. , 2021, , 1007-1029.		1
715	A Fiji macro for quantifying pattern in extracellular matrix. <i>Life Science Alliance</i> , 2021, 4, e202000880.	1.3	75
716	Pten regulates collagen fibrillogenesis by fibroblasts through SPARC. <i>PLoS ONE</i> , 2021, 16, e0245653.	1.1	8
717	Multicellular 3D Models to Study Tumour-Stroma Interactions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1633.	1.8	34
718	Association of the imaging characteristics of desmoplasia on digital breast tomosynthesis and the Ki-67 proliferation index in invasive breast cancer. <i>Croatian Medical Journal</i> , 2021, 62, 59-67.	0.2	2
719	Fibrotic Phenotype of Peritumour Mesenteric Adipose Tissue in Human Colon Cancer: A Potential Hallmark of Metastatic Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2430.	1.8	7
722	The migration of metastatic breast cancer cells is regulated by matrix stiffness via YAP signalling. <i>Heliyon</i> , 2021, 7, e06252.	1.4	13
723	Recent Advancements in Optical Harmonic Generation Microscopy: Applications and Perspectives. <i>BME Frontiers</i> , 2021, 2021, .	2.2	33
724	Raman and Fluorescence Profiles Modifications of Muscular and Adipose Tissues Exposed to Low Energy X-ray Beams. <i>Applied Spectroscopy</i> , 2021, 75, 1124-1135.	1.2	1

#	ARTICLE	IF	CITATIONS
725	Reprogramming of mitochondrial proline metabolism promotes liver tumorigenesis. <i>Amino Acids</i> , 2021, 53, 1807-1815.	1.2	12
726	Poly(Ethylene Glycol)-Poly(L-Alanine)/Hyaluronic Acid Complex as a 3D Platform for Understanding Cancer Cell Migration in the Tumor Microenvironment. <i>Polymers</i> , 2021, 13, 1042.	2.0	2
727	Monitoring the extracellular matrix remodeling of high-grade serous ovarian cancer with nonlinear optical microscopy. <i>Journal of Biophotonics</i> , 2021, 14, e202000498.	1.1	3
728	Molecular Mechanisms of Canine Osteosarcoma Metastasis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3639.	1.8	12
729	Canine mammary cancer tumour behaviour and patient survival time are associated with collagen fibre characteristics. <i>Scientific Reports</i> , 2021, 11, 5668.	1.6	4
730	Tumor extracellular matrix: lessons from the second-harmonic generation microscopy. <i>Surgical and Experimental Pathology</i> , 2021, 4, .	0.2	7
731	Toward improved <i>in vitro</i> models of human cancer. <i>APL Bioengineering</i> , 2021, 5, 010902.	3.3	30
732	In-Depth Characterization of Stromal Cells within the Tumor Microenvironment Yields Novel Therapeutic Targets. <i>Cancers</i> , 2021, 13, 1466.	1.7	9
733	Collagen I Fibrous Substrates Modulate the Proliferation and Secretome of Estrogen Receptor-Positive Breast Tumor Cells in a Hormone-Restricted Microenvironment. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2430-2443.	2.6	4
734	Advances in biofabrication techniques for collagen-based 3D <i>in vitro</i> culture models for breast cancer research. <i>Materials Science and Engineering C</i> , 2021, 122, 111944.	3.8	29
735	Collagen molecular phenotypic switch between non-neoplastic and neoplastic canine mammary tissues. <i>Scientific Reports</i> , 2021, 11, 8659.	1.6	7
736	Fibronectin fibril alignment is established upon initiation of extracellular matrix assembly. <i>Molecular Biology of the Cell</i> , 2021, 32, 739-752.	0.9	9
737	Dual-LC PSHG microscopy for imaging collagen type I and type II gels with pixel-resolution analysis. <i>Biomedical Optics Express</i> , 2021, 12, 3050.	1.5	10
738	Peptides-based therapy and diagnosis. Strategies for non-invasive therapies in cancer. <i>Journal of Drug Targeting</i> , 2021, 29, 1063-1079.	2.1	10
739	The mammographic breast density distribution of Finnish women with breast cancer and comparison of breast density reporting using the 4th and 5th editions of the Breast Imaging-Reporting and Data System. <i>European Journal of Radiology</i> , 2021, 137, 109585.	1.2	3
741	Evaluation of immunohistopathological profile of tubular and solid canine mammary carcinomas. <i>Research in Veterinary Science</i> , 2021, 136, 119-126.	0.9	6
742	Mechanical plasticity of collagen directs branch elongation in human mammary gland organoids. <i>Nature Communications</i> , 2021, 12, 2759.	5.8	47
743	Contractility, focal adhesion orientation, and stress fiber orientation drive cancer cell polarity and migration along wavy ECM substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	39

#	ARTICLE	IF	CITATIONS
745	Targeting the extracellular matrix for immunomodulation: applications in drug delivery and cell therapies. <i>Drug Delivery and Translational Research</i> , 2021, 11, 2394-2413.	3.0	9
746	Loss of Nitric Oxide Induces Fibrogenic Response in Organotypic 3D Co-Culture of Mammary Epithelia and Fibroblasts—An Indicator for Breast Carcinogenesis. <i>Cancers</i> , 2021, 13, 2815.	1.7	2
747	SUN-MKL1 Crosstalk Regulates Nuclear Deformation and Fast Motility of Breast Carcinoma Cells in Fibrillar ECM Microenvironment. <i>Cells</i> , 2021, 10, 1549.	1.8	9
748	Cytokine engineering for targeted cancer immunotherapy. <i>Current Opinion in Chemical Biology</i> , 2021, 62, 43-52.	2.8	36
749	The Hidden Danger of Environmental Chemicals during the “Windows of Susceptibility” in a Woman’s Life – How can we use Intermediate Biomarkers to Improve Breast Cancer Prevention?. <i>Open Biomarkers Journal</i> , 2021, 11, 54-62.	0.1	0
750	Integrated analysis of single-cell RNA-seq and bulk RNA-seq reveals distinct cancer-associated fibroblasts in head and neck squamous cell carcinoma. <i>Annals of Translational Medicine</i> , 2021, 9, 1017-1017.	0.7	14
751	RASSF1A Suppression as a Potential Regulator of Mechano-Pathobiology Associated with Mammographic Density in BRCA Mutation Carriers. <i>Cancers</i> , 2021, 13, 3251.	1.7	1
752	Magnetic Alignment of Electrospun Fiber Segments Within a Hydrogel Composite Guides Cell Spreading and Migration Phenotype Switching. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 679165.	2.0	16
753	Multiscale anisotropy analysis of second-harmonic generation collagen imaging of mouse skin. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	2
754	3D Modeling of Epithelial Tumors—The Synergy between Materials Engineering, 3D Bioprinting, High-Content Imaging, and Nanotechnology. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6225.	1.8	13
755	Matrix Stiffness Modulates Metabolic Interaction between Human Stromal and Breast Cancer Cells to Stimulate Epithelial Motility. <i>Metabolites</i> , 2021, 11, 432.	1.3	8
756	3D Tumor Models for Breast Cancer: Whither We Are and What We Need. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3470-3486.	2.6	10
757	The effect of normal, metaplastic, and neoplastic esophageal extracellular matrix upon macrophage activation. <i>Journal of Immunology and Regenerative Medicine</i> , 2021, 13, 100037.	0.2	6
758	Mechanical Pressure Driving Proteoglycan Expression in Mammographic Density: a Self-perpetuating Cycle?. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2021, 26, 277-296.	1.0	2
759	The Fibrillar Matrix: Novel Avenues for Breast Cancer Detection and Treatment. <i>Engineering</i> , 2021, 7, 1375-1380.	3.2	1
760	Matrix Composition Modulates Vitamin D3's Effects on 3D Collagen Fiber Organization by MCF10A Cells. <i>Tissue Engineering - Part A</i> , 2021, 27, 1399-1410.	1.6	1
761	Regulation of Extracellular Matrix Production in Activated Fibroblasts: Roles of Amino Acid Metabolism in Collagen Synthesis. <i>Frontiers in Oncology</i> , 2021, 11, 719922.	1.3	27
762	Collagen fiber orientation disorder from H&E images is prognostic for early stage breast cancer: clinical trial validation. <i>Npj Breast Cancer</i> , 2021, 7, 104.	2.3	26

#	ARTICLE	IF	CITATIONS
763	Therapeutic and diagnostic targeting of fibrosis in metabolic, proliferative and viral disorders. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113831.	6.6	17
764	Engineering stromal heterogeneity in cancer. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113817.	6.6	7
765	The mechanics of fibrillar collagen extracellular matrix. <i>Cell Reports Physical Science</i> , 2021, 2, 100515.	2.8	54
766	Emerging nanomedicine-based therapeutics for hematogenous metastatic cascade inhibition: Interfering with the crosstalk between "seed and soil". <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 2286-2305.	5.7	8
767	Cell Trapping via Migratory Inhibition within Density-Tuned Electrospun Nanofibers. <i>ACS Applied Bio Materials</i> , 2021, 4, 7456-7466.	2.3	7
768	Comprehensive Proteomic Analysis of Colon Cancer Tissue Revealed the Reason for the Worse Prognosis of Right-Sided Colon Cancer and Mucinous Colon Cancer at the Protein Level. <i>Current Oncology</i> , 2021, 28, 3554-3572.	0.9	6
769	Collagen Bioinks for Bioprinting: A Systematic Review of Hydrogel Properties, Bioprinting Parameters, Protocols, and Bioprinted Structure Characteristics. <i>Biomedicines</i> , 2021, 9, 1137.	1.4	30
770	Real-time polarization microscopy of fibrillar collagen in histopathology. <i>Scientific Reports</i> , 2021, 11, 19063.	1.6	12
771	Three-dimensional decellularized tumor extracellular matrices with different stiffness as bioengineered tumor scaffolds. <i>Bioactive Materials</i> , 2021, 6, 2767-2782.	8.6	35
772	Recapitulating the Cancer Microenvironment Using Bioprinting Technology for Precision Medicine. <i>Micromachines</i> , 2021, 12, 1122.	1.4	7
773	3D Cancer Models: Depicting Cellular Crosstalk within the Tumour Microenvironment. <i>Cancers</i> , 2021, 13, 4610.	1.7	27
774	Identification of potential genes related to breast cancer brain metastasis in breast cancer patients. <i>Bioscience Reports</i> , 2021, 41, .	1.1	21
776	Aligned forces: Origins and mechanisms of cancer dissemination guided by extracellular matrix architecture. <i>Current Opinion in Cell Biology</i> , 2021, 72, 63-71.	2.6	37
777	Microstructural breast tissue characterization: A head-to-head comparison of Diffusion Weighted Imaging and Acoustic Radiation Force Impulse elastography with clinical implications. <i>European Journal of Radiology</i> , 2021, 143, 109926.	1.2	4
778	The functional cross talk between cancer cells and cancer associated fibroblasts from a cancer mechanics perspective. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 119103.	1.9	17
779	Collagen- and hyaluronic acid-based hydrogels and their biomedical applications. <i>Materials Science and Engineering Reports</i> , 2021, 146, 100641.	14.8	93
780	Why Stress Matters: An Introduction. <i>Methods in Molecular Biology</i> , 2021, 2299, 159-169.	0.4	3
781	Predicting postoperative peritoneal metastasis in gastric cancer with serosal invasion using a collagen nomogram. <i>Nature Communications</i> , 2021, 12, 179.	5.8	88

#	ARTICLE	IF	CITATIONS
782	3D Culture Assays of Murine Mammary Branching Morphogenesis and Epithelial Invasion. <i>Methods in Molecular Biology</i> , 2015, 1189, 135-162.	0.4	113
783	Synthetic and Tissue-Derived Models for Studying Rigidity Effects on Invadopodia Activity. <i>Methods in Molecular Biology</i> , 2013, 1046, 171-189.	0.4	10
784	Remodelling of the Extracellular Matrix: Implications for Cancer. , 2013, , 65-90.		2
785	Chimeric Antigen Receptors for the Tumour Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1263, 117-143.	0.8	8
786	Modeling Prolactin Actions in Breast Cancer In Vivo: Insights from the NRL-PRL Mouse. <i>Advances in Experimental Medicine and Biology</i> , 2015, 846, 201-220.	0.8	21
787	Mechanotransduction, Metastasis and Genomic Instability. <i>Cancer Metastasis - Biology and Treatment</i> , 2015, , 139-158.	0.1	8
789	Towards More Realistic Biomechanical Modelling of Tumours under Mammographic Compressions. <i>Lecture Notes in Computer Science</i> , 2010, , 481-489.	1.0	2
790	Self-Seeding in Cancer. <i>Recent Results in Cancer Research</i> , 2012, 195, 13-23.	1.8	39
791	Analysis of Integrin Alpha2Beta1 ($\alpha_2\beta_1$) Expression as a Biomarker of Skeletal Metastasis. <i>Biomarkers in Disease</i> , 2017, , 487-506.	0.0	3
793	Optical Imaging with Signal Processing for Non-invasive Diagnosis in Gastric Cancer: Nonlinear Optical Microscopy Modalities. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 609-619.	0.5	1
795	Breast Cancer Cell Invasion into a Three Dimensional Tumor-Stroma Microenvironment. <i>Scientific Reports</i> , 2016, 6, 34094.	1.6	109
796	Textures of the tumour microenvironment. <i>Essays in Biochemistry</i> , 2019, 63, 619-629.	2.1	14
797	Cells exploit a phase transition to mechanically remodel the fibrous extracellular matrix. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200823.	1.5	21
809	Multiphoton fluorescence lifetime imaging of chemotherapy distribution in solid tumors. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	16
810	Automated classification of multiphoton microscopy images of ovarian tissue using deep learning. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	41
811	Fibroblast subtypes define a metastatic matrisome in breast cancer. <i>JCI Insight</i> , 2020, 5, .	2.3	23
812	Physiologically activated mammary fibroblasts promote postpartum mammary cancer. <i>JCI Insight</i> , 2017, 2, e89206.	2.3	39
813	Stiff stroma increases breast cancer risk by inducing the oncogene ZNF217. <i>Journal of Clinical Investigation</i> , 2020, 130, 5721-5737.	3.9	73

#	ARTICLE	IF	CITATIONS
814	The $\alpha 2 \beta 1$ integrin is a metastasis suppressor in mouse models and human cancer. <i>Journal of Clinical Investigation</i> , 2011, 121, 226-237.	3.9	186
815	Breast cancer "one term, many entities?". <i>Journal of Clinical Investigation</i> , 2011, 121, 3789-3796.	3.9	183
816	Pattern of Collagen Fibers and Localization of Matrix Metalloproteinase 2 and 9 during Breast Cancer Invasion. <i>Tumori</i> , 2014, 100, e204-e211.	0.6	4
817	Capturing relevant extracellular matrices for investigating cell migration. <i>F1000Research</i> , 2015, 4, 1408.	0.8	29
818	Polarimetric second-harmonic generation microscopy of the hierarchical structure of collagen in stage I-III non-small cell lung carcinoma. <i>Biomedical Optics Express</i> , 2020, 11, 1851.	1.5	30
819	Novel quantitative signature of tumor stromal architecture: polarized light imaging differentiates between myxoid and sclerotic human breast cancer stroma. <i>Biomedical Optics Express</i> , 2020, 11, 3246.	1.5	13
820	Mapping metabolism of liver tissue using two-photon FLIM. <i>Biomedical Optics Express</i> , 2020, 11, 4458.	1.5	15
821	Canine mammary cancer diagnosis from quantitative properties of nonlinear optical images. <i>Biomedical Optics Express</i> , 2020, 11, 6413.	1.5	6
822	FH535 Inhibited Migration and Growth of Breast Cancer Cells. <i>PLoS ONE</i> , 2012, 7, e44418.	1.1	27
823	Modulation of Invasive Phenotype by Interstitial Pressure-Driven Convection in Aggregates of Human Breast Cancer Cells. <i>PLoS ONE</i> , 2012, 7, e45191.	1.1	40
824	Hypoxic Tumor Environments Exhibit Disrupted Collagen I Fibers and Low Macromolecular Transport. <i>PLoS ONE</i> , 2013, 8, e81869.	1.1	16
825	Dense Collagen-I Matrices Enhance Pro-Tumorigenic Estrogen-Prolactin Crosstalk in MCF-7 and T47D Breast Cancer Cells. <i>PLoS ONE</i> , 2015, 10, e0116891.	1.1	48
826	Syndecan-1-Induced ECM Fiber Alignment Requires Integrin $\alpha 3 \beta 1$ and Syndecan-1 Ectodomain and Heparan Sulfate Chains. <i>PLoS ONE</i> , 2016, 11, e0150132.	1.1	39
827	MAGE-A3 is a prognostic biomarker for poor clinical outcome in cutaneous squamous cell carcinoma with perineural invasion via modulation of cell proliferation. <i>PLoS ONE</i> , 2020, 15, e0241551.	1.1	6
828	Integrated extracellular matrix signaling in mammary gland development and breast cancer progression. <i>Histology and Histopathology</i> , 2014, 29, 1083-92.	0.5	41
829	p62-DNA-encoding plasmid reverts tumor grade, changes tumor stroma, and enhances anticancer immunity. <i>Aging</i> , 2019, 11, 10711-10722.	1.4	5
830	Panobinostat suppresses the mesenchymal phenotype in a novel claudin-low triple negative patient-derived breast cancer model. <i>Oncoscience</i> , 2018, 5, 99-108.	0.9	15
831	Positive association of collagen type I with non-muscle invasive bladder cancer progression. <i>Oncotarget</i> , 2016, 7, 82609-82619.	0.8	58

#	ARTICLE	IF	CITATIONS
832	Integrated landscape of copy number variation and RNA expression associated with nodal metastasis in invasive ductal breast carcinoma. <i>Oncotarget</i> , 2018, 9, 36836-36848.	0.8	8
833	Stromal characteristics may hold the key to mammographic density: the evidence to date. <i>Oncotarget</i> , 2016, 7, 31550-31562.	0.8	20
834	Studies of postpartum mammary gland involution reveal novel pro-metastatic mechanisms. <i>Journal of Cancer Metastasis and Treatment</i> , 2019, 2019, .	0.5	21
835	Cancer Stem Cells and Combination Therapies to Eradicate Them. <i>Current Pharmaceutical Design</i> , 2020, 26, 1994-2008.	0.9	6
836	Engineering Targeting Materials for Therapeutic Cancer Vaccines. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 19.	2.0	23
837	Develop a High-Throughput Screening Method to Identify C-P4H1 (Collagen Prolyl 4-Hydroxylase 1) Inhibitors from FDA-Approved Chemicals. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6613.	1.8	3
838	High plasma levels of COL10A1 are associated with advanced tumor stage in gastric cancer patients. <i>World Journal of Gastroenterology</i> , 2020, 26, 3024-3033.	1.4	22
839	Automated quantification of aligned collagen for human breast carcinoma prognosis. <i>Journal of Pathology Informatics</i> , 2014, 5, 28.	0.8	172
840	Extracellular Matrix Density Regulates Extracellular Proteolysis via Modulation of Cellular Contractility. <i>Journal of Carcinogenesis & Mutagenesis</i> , 2013, S13, .	0.3	11
841	Hypoxia Affects the Structure of Breast Cancer Cell-Derived Matrix to Support Angiogenic Responses of Endothelial Cells. <i>Journal of Carcinogenesis & Mutagenesis</i> , 2013, S13, 005.	0.3	15
842	Tumor-associated Collagen Signatures: An Insight. <i>World Journal of Dentistry</i> , 2017, 8, 224-230.	0.1	8
843	Distinctive Features of Advancing Breast Cancer Cells and Interactions with Surrounding Stroma Observed Under the Scanning Electron Microscope. <i>Asian Pacific Journal of Cancer Prevention</i> , 2012, 13, 1305-1310.	0.5	8
844	CCL5 promotes breast cancer recurrence through macrophage recruitment in residual tumors. <i>ELife</i> , 2019, 8, .	2.8	131
845	DDR2 controls breast tumor stiffness and metastasis by regulating integrin mediated mechanotransduction in CAFs. <i>ELife</i> , 2019, 8, .	2.8	71
846	Development and Validation of a Collagen Nomogram for Pretreatment Prediction of Pathological Complete Response in Rectal Cancer Patients. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
847	Extracellular Matrix Signals as Drivers of Mitochondrial Bioenergetics and Metabolic Plasticity of Cancer Cells During Metastasis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 751301.	1.8	22
849	Primary head and neck tumour-derived fibroblasts promote lymphangiogenesis in a lymphatic organotypic co-culture model. <i>EBioMedicine</i> , 2021, 73, 103634.	2.7	19
851	Rho GTPases in Regulation of Cancer Cell Motility, Invasion, and Microenvironment. , 2010, , 67-91.		0

#	ARTICLE	IF	CITATIONS
852	Optical Assessment of Breast Density and its Dependence on Tissue Heterogeneity. , 2012, , .		2
853	Cell Mechanobiology in Regenerative Medicine. , 2012, , 1-16.		0
854	Role of Stroma in Disease Progression. , 2013, , 129-147.		0
855	Nonlinear Endomicroscopy Imaging Technology for Translational Applications. , 2014, , 281-303.		0
856	Intravital Microscopy for Molecular Imaging in Cancer Research. , 2014, , 233-262.		0
857	Measurement of Ultrasound Attenuation and Protein Denaturation Behavior During Hyperthermia Monitoring. Lecture Notes in Bioengineering, 2015, , 205-222.	0.3	1
858	Optical discrimination between malignant and benign breast lesions?. , 2015, , .		0
859	Abstract B13: Hematopoietic stem cell-derived cancer-associated fibroblasts are novel contributors to the pro-tumorigenic microenvironment. , 2015, , .		0
860	Efficient and unbiased fit-free algorithm for quantification of collagen fiber alignment for SHG imaging applications. , 2016, , .		0
861	Analysis of Integrin Alpha2Beta1 ($\alpha_2\beta_1$) Expression as a Biomarker of Skeletal Metastasis. Exposure and Health, 2016, , 1-20.	2.8	0
862	Collagen Stiffness Modulates MDA-MB231 Cell Metabolism Through Adhesion-Mediated Contractility. SSRN Electronic Journal, 0, , .	0.4	1
863	Multimodal autofluorescence detection of cancer: from single cells to living organism. , 2018, , .		0
867	Current Challenges and Applications of Oncolytic Viruses in Overcoming the Development of Resistance to Therapies in Cancer. Resistance To Targeted Anti-cancer Therapeutics, 2019, , 63-96.	0.1	0
868	Biophotonics in Disease Diagnosis and Therapy. , 2019, , 65-86.		0
869	Histochemical Patterns of Collagenic Fibers in the Benign and Malignant Breast Lesions. Advances in Breast Cancer Research, 2019, 08, 1-10.	0.1	1
874	Influence of matrix-metalloproteinase inhibitor on the interaction between cancer cells and matrigel*. Chinese Physics B, 2020, 29, 068701.	0.7	0
877	Biological Mechanisms and Therapeutic Opportunities in Mammographic Density and Breast Cancer Risk. Cancers, 2021, 13, 5391.	1.7	7
878	Cancer-associated fibroblasts-derived HAPLN1 promotes tumour invasion through extracellular matrix remodeling in gastric cancer. Gastric Cancer, 2022, 25, 346-359.	2.7	34

#	ARTICLE	IF	CITATIONS
879	Non-muscle myosin II isoforms orchestrate substrate stiffness sensing to promote cancer cell contractility and migration. <i>Cancer Letters</i> , 2022, 524, 245-258.	3.2	16
881	Automated Assessment of the Curliness of Collagen Fiber in Breast Cancer. <i>Lecture Notes in Computer Science</i> , 2020, , 267-279.	1.0	0
882	The Mammary Tumor Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1296, 163-181.	0.8	1
883	Metabolic Pathways of Eukaryotes and Connection to Cell Mechanics. <i>Biological and Medical Physics Series</i> , 2020, , 825-891.	0.3	1
884	STAT5 is activated in macrophages by breast cancer cell-derived factors and regulates macrophage function in the tumor microenvironment. <i>Breast Cancer Research</i> , 2021, 23, 104.	2.2	16
885	Î±-Actinin-4 drives invasiveness by regulating myosin IIB expression and myosin IIA localization. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	7
889	Quantitative measurement of breast carcinoma fibrosis for the prediction in the risk of bone metastasis. <i>American Journal of Translational Research (discontinued)</i> , 2018, 10, 1852-1859.	0.0	1
890	Modifications of disulfide bonds in breast cancer cell migration and invasiveness. <i>American Journal of Cancer Research</i> , 2019, 9, 1554-1582.	1.4	6
891	Elucidating the chemical and structural composition of breast cancer using Raman micro-spectroscopy. <i>EXCLI Journal</i> , 2021, 20, 1118-1132.	0.5	5
892	Collagen I dysregulation is pivotal for ovarian cancer progression. <i>Tissue and Cell</i> , 2022, 74, 101704.	1.0	4
893	Mammary collagen architecture and its association with mammographic density and lesion severity among women undergoing image-guided breast biopsy. <i>Breast Cancer Research</i> , 2021, 23, 105.	2.2	17
894	Association of Tumor-Associated Collagen Signature With Prognosis and Adjuvant Chemotherapy Benefits in Patients With Gastric Cancer. <i>JAMA Network Open</i> , 2021, 4, e2136388.	2.8	10
895	Mammary collagen is under reproductive control with implications for breast cancer. <i>Matrix Biology</i> , 2022, 105, 104-126.	1.5	9
897	Homeoprotein SIX1 compromises antitumor immunity through TGF-Î²-mediated regulation of collagens. <i>Cellular and Molecular Immunology</i> , 2021, 18, 2660-2672.	4.8	5
898	Fibroblast pyruvate carboxylase is required for collagen production in the tumour microenvironment. <i>Nature Metabolism</i> , 2021, 3, 1484-1499.	5.1	28
899	The transcriptome of early GGT/KRT19-positive hepatocellular carcinoma reveals a downregulated gene expression profile associated with fatty acid metabolism. <i>Genomics</i> , 2022, 114, 72-83.	1.3	4
900	The Functional Role of Extracellular Matrix Proteins in Cancer. <i>Cancers</i> , 2022, 14, 238.	1.7	65
901	Collagen signature as a novel biomarker to predict axillary lymph node metastasis in breast cancer using multiphoton microscopy. <i>Journal of Biophotonics</i> , 2022, , e202100365.	1.1	0

#	ARTICLE	IF	CITATIONS
902	Inflammation and Myeloid Cells in Cancer Progression and Metastasis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 759691.	1.8	12
903	Genetic Modifications That Expand Oncolytic Virus Potency. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 831091.	1.6	11
904	Orthogonally-polarized excitation for improved two-photon and second-harmonic-generation microscopy, applied to neurotransmitter imaging with GPCR-based sensors. <i>Biomedical Optics Express</i> , 2022, 13, 777.	1.5	3
905	Polarization enhanced laparoscope for improved visualization of tissue structural changes associated with peritoneal cancer metastasis. <i>Biomedical Optics Express</i> , 2022, 13, 571.	1.5	7
906	Loss of SDHB Induces a Metabolic Switch in the hPheo1 Cell Line toward Enhanced OXPHOS. <i>International Journal of Molecular Sciences</i> , 2022, 23, 560.	1.8	8
907	Stimuli-responsive materials: A smart way to study dynamic cell responses. <i>Smart Materials in Medicine</i> , 2022, 3, 257-273.	3.7	32
908	Stromal architecture directs early dissemination in pancreatic ductal adenocarcinoma. <i>JCI Insight</i> , 2022, 7, .	2.3	22
909	Immune Regulation of Mammary Fibroblasts and the Impact of Mammographic Density. <i>Journal of Clinical Medicine</i> , 2022, 11, 799.	1.0	4
910	Revealing Layer-specific Ultrastructure and Nanomechanics of Fibrillar Collagen in Human Aorta via Atomic Force Microscopy Testing: Implications on Tissue Mechanics at Macroscopic Scale. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	1.7	15
911	Transcriptomic Response to Acidosis Reveals Its Contribution to Bone Metastasis in Breast Cancer Cells. <i>Cells</i> , 2022, 11, 544.	1.8	3
912	Divide and Conquer: Isolating Cell Populations to Investigate How Breast Cancer Risk Factors Alter the Breast Microenvironment. <i>Methods in Molecular Biology</i> , 2022, 2471, 271-282.	0.4	0
913	Molecular sensors for detection of tumor-stroma crosstalk. <i>Advances in Cancer Research</i> , 2022, 154, 47-91.	1.9	1
914	Role of Galectins in Metastatic Breast Cancer. , 0, , 115-130.		1
915	Mechanomimetic 3D Scaffolds as a Humanized In Vitro Model for Ovarian Cancer. <i>Cells</i> , 2022, 11, 824.	1.8	4
916	The Role of Extracellular Matrix Proteins in Breast Cancer. <i>Journal of Clinical Medicine</i> , 2022, 11, 1250.	1.0	27
917	Altered RBP1 Gene Expression Impacts Epithelial Cell Retinoic Acid, Proliferation, and Microenvironment. <i>Cells</i> , 2022, 11, 792.	1.8	7
918	Matrix Stiffness Contributes to Cancer Progression by Regulating Transcription Factors. <i>Cancers</i> , 2022, 14, 1049.	1.7	57
919	Stromal Characteristics and Impact on New Therapies for Metastatic Triple-Negative Breast Cancer. <i>Cancers</i> , 2022, 14, 1238.	1.7	7

#	ARTICLE	IF	CITATIONS
920	The case for cancer-associated fibroblasts: essential elements in cancer drug discovery?. <i>Future Drug Discovery</i> , 0, , .	0.8	3
921	Chemotherapy-Induced Collagen IV Drives Cancer Cell Motility through Activation of Src and Focal Adhesion Kinase. <i>Cancer Research</i> , 2022, 82, 2031-2044.	0.4	26
922	Overexpressing PLOD Family Genes Predict Poor Prognosis in Pancreatic Cancer. <i>International Journal of General Medicine</i> , 2022, Volume 15, 3077-3096.	0.8	9
923	Polymeric Hydrogels for In Vitro 3D Ovarian Cancer Modeling. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3265.	1.8	11
925	Fibrous stroma: Driver and passenger in cancer development. <i>Science Signaling</i> , 2022, 15, eabg3449.	1.6	15
926	Tumor-Derived Exosomes Modulate Primary Site Tumor Metastasis. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 752818.	1.8	15
927	Fibrotic activity quantified in serum by measurements of type III collagen pro-peptides can be used for prognosis across different solid tumor types. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 204.	2.4	12
928	Label-free metabolic and structural profiling of dynamic biological samples using multimodal optical microscopy with sensorless adaptive optics. <i>Scientific Reports</i> , 2022, 12, 3438.	1.6	12
929	Effects of Wound Fluid on Breast Cancer-derived Spheroids in a 3D Culture System: A Case Series Study. <i>Iranian Journal of Pharmaceutical Research</i> , 2021, 21, .	0.3	1
930	Immune Modulatory Properties of Collagen in Cancer. <i>Frontiers in Immunology</i> , 2021, 12, 791453.	2.2	64
931	Templated Three-Dimensional Engineered Bone Matrix as a Model for Breast Cancer Osteolytic Bone Metastasis Process. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 8391-8403.	3.3	0
932	EGFR-Dependent Extracellular Matrix Protein Interactions Might Light a Candle in Cell Behavior of Non-Small Cell Lung Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 766659.	1.3	10
933	Collagen and Discoidin Domain Receptor 1 Partnership: A Multifaceted Role in the Regulation of Breast Carcinoma Cell Phenotype. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 808625.	1.8	3
934	Cancer-associated fibroblasts promote oral squamous cell carcinoma progression through LOX-mediated matrix stiffness. <i>Journal of Translational Medicine</i> , 2021, 19, 513.	1.8	26
935	Super-resolution Multiplex Nonlinear Optical Imaging Unscrambles the Statistical Complexity of Cancer Subtypes and Tumor Microenvironment. <i>Advanced Science</i> , 2022, 9, e2104379.	5.6	13
936	Viscoelasticity Acts as a Marker for Tumor Extracellular Matrix Characteristics. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 785138.	1.8	24
938	Tunneling Nanotubes between Cells Migrating in ECM Mimicking Fibrous Environments. <i>Cancers</i> , 2022, 14, 1989.	1.7	9
948	Pattern of collagen fibers and localization of matrix metalloproteinase 2 and 9 during breast cancer invasion. <i>Tumori</i> , 2014, 100, e204-11.	0.6	3

#	ARTICLE	IF	CITATIONS
950	Positive Association of Matrix Proteins Alteration with TAZ and The Progression of High-Grade Bladder Cancer.. Cell Journal, 2021, 23, 742-749.	0.2	1
951	Invasive Breast Carcinoma with Abundant Collagenous Stroma Shows Lower Level of CD68-Positive Tumor Associated Macrophages than Those of Invasive Carcinoma without Abundant Collagenous Stroma. Acta Biomedica, 2021, 92, e2021254.	0.2	0
952	Decellularization of tumours: A new frontier in tissue engineering. Journal of Tissue Engineering, 2022, 13, 204173142210916.	2.3	13
953	Highly motile cells are metabolically responsive to collagen density. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114672119.	3.3	15
954	Association of breast cancer risk, density, and stiffness: global tissue stiffness on breast MR elastography (MRE). Breast Cancer Research and Treatment, 2022, 194, 79-89.	1.1	9
955	Extracellular matrix in cancer progression and therapy. Medical Review, 2022, 2, 125-139.	0.3	10
956	Mapping Organizational Changes of Fiber-Like Structures in Disease Progression by Multiparametric, Quantitative Imaging. Laser and Photonics Reviews, 2022, 16, .	4.4	4
957	Association of the collagen signature with pathological complete response in rectal cancer patients. Cancer Science, 2022, 113, 2409-2424.	1.7	4
958	Cancer-Induced Metabolic Rewiring of Tumor Endothelial Cells. Cancers, 2022, 14, 2735.	1.7	3
959	The mitochondrial pyruvate carrier at the crossroads of intermediary metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2022, 323, E33-E52.	1.8	13
962	Androgens, aging, and prostate health. Reviews in Endocrine and Metabolic Disorders, 2022, 23, 1221-1231.	2.6	7
963	Mechanosensitive steroid hormone signaling and cell fate. Endocrinology, 0, , .	1.4	2
964	Comprehensive Integrated Single-Cell Whole Transcriptome Analysis Revealed the p-EMT Tumor Cells' CAFs Communication in Oral Squamous Cell Carcinoma. International Journal of Molecular Sciences, 2022, 23, 6470.	1.8	7
965	Identification of human ovarian cancer relying on collagen fiber coverage features by quantitative second harmonic generation imaging. Optics Express, 2022, 30, 25718.	1.7	8
968	The Extracellular Matrix Stiffening: A Trigger of Prostate Cancer Progression and Castration Resistance?. Cancers, 2022, 14, 2887.	1.7	13
969	Characterization of Integrin Molecular Tension of Human Breast Cancer Cells on Anisotropic Nanopatterns. Frontiers in Molecular Biosciences, 0, 9, .	1.6	4
970	Cancer-associated fibroblasts require proline synthesis by PYCR1 for the deposition of pro-tumorigenic extracellular matrix. Nature Metabolism, 2022, 4, 693-710.	5.1	49
971	Investigating the effectiveness of supplemental breast cancer screening tests considering radiologists' bias. IJSE Transactions on Healthcare Systems Engineering, 2023, 13, 1-20.	1.2	1

#	ARTICLE	IF	CITATIONS
972	Sculpting Ruptureâ€Free Nuclear Shapes in Fibrous Environments. <i>Advanced Science</i> , 2022, 9, .	5.6	14
973	Materials and extracellular matrix rigidity highlighted in tissue damages and diseases: Implication for biomaterials design and therapeutic targets. <i>Bioactive Materials</i> , 2023, 20, 381-403.	8.6	11
974	Cancer-Associated Fibroblasts in a 3D Engineered Tissue Model Induce Tumor-like Matrix Stiffening and EMT Transition. <i>Cancers</i> , 2022, 14, 3810.	1.7	6
975	Molecular determinants of peritoneal dissemination in gastric adenocarcinoma. <i>Digestive Diseases</i> , 0, , .	0.8	0
976	A comparison of various methods for measuring breast density and breast tissue composition in adolescent girls and women. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
977	Chemical Effects on Breast Development, Function, and Cancer Risk: Existing Knowledge and New Opportunities. <i>Current Environmental Health Reports</i> , 2022, 9, 535-562.	3.2	10
978	Upregulated integrin $\alpha 11$ in the stroma of cutaneous squamous cell carcinoma promotes skin carcinogenesis. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	4
980	Temporal profiling of the breast tumour microenvironment reveals collagen XII as a driver of metastasis. <i>Nature Communications</i> , 2022, 13, .	5.8	63
981	Noncanonical Wnt/Ror2 signaling regulates cellâ€matrix adhesion to prompt directional tumor cell invasion in breast cancer. <i>Molecular Biology of the Cell</i> , 2022, 33, .	0.9	2
982	The interplay between physical cues and mechanosensitive ion channels in cancer metastasis. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	6
983	Emerging techniques in breast MRI. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2022, , 503-531.	0.0	1
984	3D Bioprinting for Tumor Metastasis Research. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
985	Pirfenidone-loaded exosomes derived from pancreatic ductal adenocarcinoma cells alleviate fibrosis of premetastatic niches to inhibit liver metastasis. <i>Biomaterials Science</i> , 2022, 10, 6614-6626.	2.6	8
986	Evaluation of breast stiffness pathology based on breast compression during mammography: Proposal for novel breast stiffness scale classification. <i>Clinics</i> , 2022, 77, 100100.	0.6	2
987	Recombinant Viral Vectors for Therapeutic Programming of Tumour Microenvironment: Advantages and Limitations. <i>Biomedicines</i> , 2022, 10, 2142.	1.4	6
988	Microengineering 3D Collagen Hydrogels with Long-Range Fiber Alignment. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	0
989	â€Fingerprintingâ€Benign and Cancerous Skin Lesions Using Vibrational Optical Coherence Tomography: Differentiation among Cancerous Lesion Types Based on the Presence of New Cells, Blood Vessels, and Fibrosis. <i>Biomolecules</i> , 2022, 12, 1332.	1.8	4
990	Identification of the collagen family as prognostic biomarkers in papillary thyroid carcinoma. <i>Endocrine</i> , 2022, 78, 491-506.	1.1	2

#	ARTICLE	IF	CITATIONS
991	Fiber density and matrix stiffness modulate distinct cell migration modes in a 3D stroma mimetic composite hydrogel. <i>Acta Biomaterialia</i> , 2023, 163, 378-391.	4.1	7
992	Collagen fiber features and COL1A1: are they associated with elastic parameters in breast lesions, and can COL1A1 predict axillary lymph node metastasis?. <i>BMC Cancer</i> , 2022, 22, .	1.1	3
993	Assessing the roles of collagen fiber morphology and matrix stiffness on ovarian cancer cell migration dynamics using multiphoton fabricated orthogonal image-based models. <i>Acta Biomaterialia</i> , 2022, 153, 342-354.	4.1	2
994	Genetic predisposition to lung adenocarcinoma outcome is a feature already present in patients' noninvolved lung tissue. <i>Cancer Science</i> , 2023, 114, 281-294.	1.7	1
995	Capturing the spatial and temporal dynamics of tumor stroma for on-chip optimization of microenvironmental targeting nanomedicine. <i>Lab on A Chip</i> , 2022, 23, 25-43.	3.1	6
996	Interplay of the transcription factor MRTF-A and matrix stiffness controls mammary acinar structure and protrusion formation. <i>Cell Communication and Signaling</i> , 2022, 20, .	2.7	1
997	Sensitivity of a two-dimensional biomorphoelastic model for post-burn contraction. <i>Biomechanics and Modeling in Mechanobiology</i> , 0, , .	1.4	1
998	N1-methyladenosine formation, gene regulation, biological functions, and clinical relevance. <i>Molecular Therapy</i> , 2023, 31, 308-330.	3.7	2
999	Quantification methodologies on organization and morphology features of fiber-like structures: A review. <i>Journal of Innovative Optical Health Sciences</i> , 0, , .	0.5	2
1000	Collagen Family as Promising Biomarkers and Therapeutic Targets in Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12415.	1.8	15
1003	Nanomechanical properties of solid tumors as treatment monitoring biomarkers. <i>Acta Biomaterialia</i> , 2022, 154, 324-334.	4.1	8
1004	Functional and clinical characteristics of focal adhesion kinases in cancer progression. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	13
1005	Development and characterisation of 3D collagen-gelatin based scaffolds for breast cancer research. , 2022, 142, 213157.		3
1006	Application of Multiphoton Microscopic Imaging in Study of Gastric Cancer. <i>Technology in Cancer Research and Treatment</i> , 2022, 21, 153303382211332.	0.8	1
1007	Role of the Extracellular Matrix in Tumor Stroma: Barrier or Support?. , 2022, , 63-89.		0
1008	Anisotropic 3D confinement of MCF-7 cells induces directed cell-migration and viscoelastic anisotropy of cell-membrane. <i>Physical Biology</i> , 2023, 20, 016003.	0.8	0
1009	Automated Ovarian Cancer Identification Using End-to-End Deep Learning and Second Harmonic Generation Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2023, 29, 1-9.	1.9	0
1010	The role of transient receptor potential channels in metastasis. <i>Biomedicine and Pharmacotherapy</i> , 2023, 158, 114074.	2.5	4

#	ARTICLE	IF	CITATIONS
1011	Chapter 10. Microfluidic Models of the Tumor Microenvironment. Biomaterials Science Series, 2022, , 252-278.	0.1	0
1012	Chapter 14. Tissue Engineered Models of Metastasis: Focus on Bone Metastasis. Biomaterials Science Series, 2022, , 384-414.	0.1	0
1013	Chapter 4. Mimicking Mechanical Features of the Tumor Microenvironment. Biomaterials Science Series, 2022, , 60-96.	0.1	0
1014	Photoacoustics spectral analysis for in vivo detection of collagen contents in cancers. , 2022, , .		2
1015	Cancer-associated fibroblast-dependent and -independent invasion of gastric cancer cells. Journal of Cancer Research and Clinical Oncology, 2023, 149, 5309-5319.	1.2	3
1016	Changes of Mutations and Copy Number and Enhanced Cell Migration during Breast Tumorigenesis. Advanced Biology, 0, , 2200072.	1.4	0
1017	Biological role of matrix stiffness in tumor growth and treatment. Journal of Translational Medicine, 2022, 20, .	1.8	39
1018	ECM Substrates Impact RNAi Localization at Adherens Junctions of Colon Epithelial Cells. Cells, 2022, 11, 3740.	1.8	3
1019	Detection of pathological response of axillary lymph node metastasis after neoadjuvant chemotherapy in breast cancer using multiphoton microscopy. Journal of Biophotonics, 2023, 16, .	1.1	0
1020	Weakly migratory metastatic breast cancer cells activate fibroblasts via microvesicle-Tg2 to facilitate dissemination and metastasis. ELife, 0, 11, .	2.8	5
1021	EGFR-targeted bacteriophage lambda penetrates model stromal and colorectal carcinoma tissues, is taken up into carcinoma cells, and interferes with 3-dimensional tumor formation. Frontiers in Immunology, 0, 13, .	2.2	2
1022	Rapid and label-free detection of gastrointestinal stromal tumor via a combination of two-photon microscopy and imaging analysis. BMC Cancer, 2023, 23, .	1.1	3
1023	Challenges and Opportunities Modeling the Dynamic Tumor Matrisome. BME Frontiers, 2023, 4, .	2.2	4
1024	Mutation-associated transcripts reconstruct the prognostic features of oral tongue squamous cell carcinoma. International Journal of Oral Science, 2023, 15, .	3.6	3
1025	A prognostic model based on tumor microenvironment-related lncRNAs predicts therapy response in pancreatic cancer. Functional and Integrative Genomics, 2023, 23, .	1.4	5
1026	<sc>Wide-field</sc> Stokes polarimetric microscopy for second harmonic generation imaging. Journal of Biophotonics, 2023, 16, .	1.1	1
1027	Targeting the secreted RGDKGE collagen fragment reduces PD-L1 by a proteasome-dependent mechanism and inhibits tumor growth. Oncology Reports, 2023, 49, .	1.2	0
1028	High SERPINH1 expression predicts poor prognosis in lung adenocarcinoma. Journal of Thoracic Disease, 2022, 14, 4785-4802.	0.6	5

#	ARTICLE	IF	CITATIONS
1029	Multimodal Techniques to Study Tumor Growth, Basement Membrane Breaching, and Invasion in 3D Matrices. <i>Methods in Molecular Biology</i> , 2023, , 281-303.	0.4	0
1030	An adaptive and versatile method to quantitate and characterize collective cell migration behaviors on complex surfaces. <i>Frontiers in Cell and Developmental Biology</i> , 0, 11, .	1.8	1
1031	Tumour-on-a-chip. , 2023, , 429-459.		0
1032	Mechanobiology of Collective Cell Migration in 3D Microenvironments. <i>Current Cancer Research</i> , 2023, , 1-32.	0.2	0
1033	Role of Immune Cells in the Tumor Microenvironment. , 2023, , .		0
1035	Tumor decellularization reveals proteomic and mechanical characteristics of the extracellular matrix of primary liver cancer. , 2023, 146, 213289.		9
1036	Remodelling of the fibre-aggregate structure of collagen gels by cancer-associated fibroblasts: A time-resolved grey-tone image analysis based on stochastic modelling. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	1
1037	Extracellular matrix-based gene signature for predicting prognosis in colon cancer and immune microenvironment. <i>Translational Cancer Research</i> , 2023, 12, 321-339.	0.4	1
1038	Value of multiphoton microscopy in uro-oncology: a narrative review. <i>Translational Andrology and Urology</i> , 2023, 12, 508-518.	0.6	0
1039	Prostate cancer tissue classification by multiphoton imaging, automated image analysis and machine learning. <i>Journal of Biophotonics</i> , 0, , .	1.1	0
1040	Pancreatic Cancer Presents Distinct Nanomechanical Properties During Progression. <i>Annals of Biomedical Engineering</i> , 2023, 51, 1602-1615.	1.3	7
1041	Alternative methods to measure breast density in younger women. <i>British Journal of Cancer</i> , 2023, 128, 1701-1709.	2.9	2
1042	Comprehensive Analysis of the Expression, Prognosis, and Biological Significance of PLOD Family in Bladder Cancer. <i>International Journal of General Medicine</i> , 0, Volume 16, 707-722.	0.8	2
1043	Micro-mechanical fingerprints of the rat bladder change in actinic cystitis and tumor presence. <i>Communications Biology</i> , 2023, 6, .	2.0	6
1044	Cellâ€™s extracellular matrix mechanotransduction in 3D. <i>Nature Reviews Molecular Cell Biology</i> , 2023, 24, 495-516.	16.1	72
1045	Correlation-based full-waveform shear wave elastography. <i>Physics in Medicine and Biology</i> , 0, , .	1.6	0
1046	Quantitative Image Analysis of Fibrillar Collagens Reveals Novel Diagnostic and Prognostic Biomarkers and Histotype-Dependent Aberrant Mechanobiology in Lung Cancer. <i>Modern Pathology</i> , 2023, 36, 100155.	2.9	2
1047	Colorectal Cancer Bioengineered Microtissues as a Model to Replicate Tumor-ECM Crosstalk and Assess Drug Delivery Systems In Vitro. <i>International Journal of Molecular Sciences</i> , 2023, 24, 5678.	1.8	1

#	ARTICLE	IF	CITATIONS
1049	Extracellular Matrix Dynamics as an Emerging yet Understudied Hallmark of Aging and Longevity. , 2023, 14, 670.		8
1050	TNF-Alpha Promotes an Inflammatory Mammary Microenvironment That Favors Macrophage and Epithelial Migration in a CCL2- and Mitochondrial-ROS-Dependent Manner. Antioxidants, 2023, 12, 813.	2.2	0
1051	Nonlinear microscopy and deep learning classification for mammary gland microenvironment studies. Biomedical Optics Express, 2023, 14, 2181.	1.5	0
1054	Bioengineering and Bioinformatic Approaches to Study Extracellular Matrix Remodeling and Cancerâ€™Macrophage Crosstalk in the Breast Tumor Microenvironment. Current Cancer Research, 2023, , 201-229.	0.2	0
1056	Anaplastic transformation in thyroid cancer revealed by single-cell transcriptomics. Journal of Clinical Investigation, 2023, 133, .	3.9	15
1057	Cancer-Associated Fibroblasts and Extracellular Matrix: Therapeutical Strategies for Modulating the Cholangiocarcinoma Microenvironment. Current Oncology, 2023, 30, 4185-4196.	0.9	2
1058	Association between Expression of Connective Tissue Genes and Prostate Cancer Growth and Progression. International Journal of Molecular Sciences, 2023, 24, 7520.	1.8	2
1059	Lung Micrometastases Display ECM Depletion and Softening While Macrometastases Are 30-Fold Stiffer and Enriched in Fibronectin. Cancers, 2023, 15, 2404.	1.7	1
1108	Monitoring changes of collagen fibers surrounding breast ductal carcinoma in situ using multiphoton microscopy. , 2023, , .		0
1118	The roles of collagens and fibroblasts in cancer. , 2024, , 419-434.		0