

Paolo P Provenzano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

6,976
citations

26
h-index

49
g-index

49
ext. papers

8,148
ext. citations

7
avg, IF

5.88
L-index

#	Paper	IF	Citations
44	Elucidating the signal for contact guidance contained in aligned fibrils with a microstructural-mechanical model.. <i>Journal of the Royal Society Interface</i> , 2022 , 19, 20210951	4.1	
43	Characterizing Tissue Remodeling and Mechanical Heterogeneity in Cerebral Aneurysms. <i>Journal of Vascular Research</i> , 2021 , 1-9	1.9	0
42	Engineering T cells to enhance 3D migration through structurally and mechanically complex tumor microenvironments. <i>Nature Communications</i> , 2021 , 12, 2815	17.4	13
41	Aligned forces: Origins and mechanisms of cancer dissemination guided by extracellular matrix architecture. <i>Current Opinion in Cell Biology</i> , 2021 , 72, 63-71	9	7
40	Engineering Elastic Nano- and Micro-Patterns and Textures for Directed Cell Motility. <i>STAR Protocols</i> , 2020 , 1, 100013-100013	1.4	3
39	Bringing order to the matrix. <i>Nature Materials</i> , 2020 , 19, 130-131	27	2
38	Fibrillar Collagen Quantification With Curvelet Transform Based Computational Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 198	5.8	11
37	Loss of HIF1A From Pancreatic Cancer Cells Increases Expression of PPP1R1B and Degradation of p53 to Promote Invasion and Metastasis. <i>Gastroenterology</i> , 2020 , 159, 1882-1897.e5	13.3	25
36	Non-Invasive Monitoring of Stromal Biophysics with Targeted Depletion of Hyaluronan in Pancreatic Ductal Adenocarcinoma. <i>Cancers</i> , 2019 , 11,	6.6	8
35	The role of nonmuscle myosin 2A and 2B in the regulation of mesenchymal cell contact guidance. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1961-1973	3.5	2
34	Modeling distributed forces within cell adhesions of varying size on continuous substrates. <i>Cytoskeleton</i> , 2019 , 76, 571-585	2.4	1
33	Antifibrotic Therapy Disrupts Stromal Barriers and Modulates the Immune Landscape in Pancreatic Ductal Adenocarcinoma. <i>Cancer Research</i> , 2019 , 79, 372-386	10.1	75
32	Dynamics of 3D carcinoma cell invasion into aligned collagen. <i>Integrative Biology (United Kingdom)</i> , 2018 , 10, 100-112	3.7	26
31	Physical and Chemical Enhancement of and Adaptive Resistance to Irreversible Electroporation of Pancreatic Cancer. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 25-36	4.7	12
30	Bimodal sensing of guidance cues in mechanically distinct microenvironments. <i>Nature Communications</i> , 2018 , 9, 4891	17.4	31
29	Microtubule-Actomyosin Mechanical Cooperation during Contact Guidance Sensing. <i>Cell Reports</i> , 2018 , 25, 328-338.e5	10.6	28
28	Cancer Stem Cell Migration in Three-Dimensional Aligned Collagen Matrices. <i>Current Protocols in Stem Cell Biology</i> , 2018 , 46, e57	2.8	2

27	Anisotropic forces from spatially constrained focal adhesions mediate contact guidance directed cell migration. <i>Nature Communications</i> , 2017 , 8, 14923	17.4	145
26	Tug of War at the Cell-Matrix Interface. <i>Biophysical Journal</i> , 2017 , 112, 1739-1741	2.9	0
25	Enhanced Directional Migration of Cancer Stem Cells in 3D Aligned Collagen Matrices. <i>Biophysical Journal</i> , 2017 , 112, 1023-1036	2.9	95
24	Multiphoton fluorescence lifetime imaging of chemotherapy distribution in solid tumors. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-9	3.5	10
23	Heterogeneous Differentiation of Human Mesenchymal Stem Cells in 3D Extracellular Matrix Composites. <i>BioResearch Open Access</i> , 2016 , 5, 37-48	2.4	22
22	Multiscale Cues Drive Collective Cell Migration. <i>Scientific Reports</i> , 2016 , 6, 29749	4.9	26
21	Interstitial Pressure in Pancreatic Ductal Adenocarcinoma Is Dominated by a Gel-Fluid Phase. <i>Biophysical Journal</i> , 2016 , 110, 2106-19	2.9	86
20	Matrix nanotopography as a regulator of cell function. <i>Journal of Cell Biology</i> , 2012 , 197, 351-60	7.3	463
19	Enzymatic targeting of the stroma ablates physical barriers to treatment of pancreatic ductal adenocarcinoma. <i>Cancer Cell</i> , 2012 , 21, 418-29	24.3	1309
18	Aligned collagen is a prognostic signature for survival in human breast carcinoma. <i>American Journal of Pathology</i> , 2011 , 178, 1221-32	5.8	763
17	Mechanical signaling through the cytoskeleton regulates cell proliferation by coordinated focal adhesion and Rho GTPase signaling. <i>Journal of Cell Science</i> , 2011 , 124, 1195-205	5.3	354
16	The role of focal adhesion kinase in tumor initiation and progression. <i>Cell Adhesion and Migration</i> , 2009 , 3, 347-50	3.2	62
15	Shining new light on 3D cell motility and the metastatic process. <i>Trends in Cell Biology</i> , 2009 , 19, 638-48	18.3	48
14	Multiphoton microscopy and fluorescence lifetime imaging microscopy (FLIM) to monitor metastasis and the tumor microenvironment. <i>Clinical and Experimental Metastasis</i> , 2009 , 26, 357-70	4.7	151
13	Collagen density promotes mammary tumor initiation and progression. <i>BMC Medicine</i> , 2008 , 6, 11	11.4	904
12	Contact guidance mediated three-dimensional cell migration is regulated by Rho/ROCK-dependent matrix reorganization. <i>Biophysical Journal</i> , 2008 , 95, 5374-84	2.9	374
11	Mammary epithelial-specific disruption of focal adhesion kinase retards tumor formation and metastasis in a transgenic mouse model of human breast cancer. <i>American Journal of Pathology</i> , 2008 , 173, 1551-65	5.8	115
10	Nonlinear optical imaging of cellular processes in breast cancer. <i>Microscopy and Microanalysis</i> , 2008 , 14, 532-48	0.5	50

9	Nonlinear optical imaging and spectral-lifetime computational analysis of endogenous and exogenous fluorophores in breast cancer. <i>Journal of Biomedical Optics</i> , 2008 , 13, 031220	3.5	48
8	Systemic administration of IGF-I enhances healing in collagenous extracellular matrices: evaluation of loaded and unloaded ligaments. <i>BMC Physiology</i> , 2007 , 7, 2	0	43
7	Collagen reorganization at the tumor-stromal interface facilitates local invasion. <i>BMC Medicine</i> , 2006 , 4, 38	11.4	1127
6	Collagen fibril morphology and organization: implications for force transmission in ligament and tendon. <i>Matrix Biology</i> , 2006 , 25, 71-84	11.4	257
5	Intrinsic fibroblast-mediated remodeling of damaged collagenous matrices in vivo. <i>Matrix Biology</i> , 2005 , 23, 543-55	11.4	48
4	Application of a probabilistic microstructural model to determine reference length and toe-to-linear region transition in fibrous connective tissue. <i>Journal of Biomechanical Engineering</i> , 2003 , 125, 415-22	2.1	24
3	Hindlimb unloading alters ligament healing. <i>Journal of Applied Physiology</i> , 2003 , 94, 314-24	3.7	48
2	Subfailure damage in ligament: a structural and cellular evaluation. <i>Journal of Applied Physiology</i> , 2002 , 92, 362-71	3.7	154
1	Engineering T cells to enhance 3D migration through structurally and mechanically complex tumor microenvironments		