

Paolo P Provenzano

List of Publications by Year in descending order

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44
papers

8,984
citations

159585

30
h-index

243625

44
g-index

49
all docs

49
docs citations

49
times ranked

11978
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing Tissue Remodeling and Mechanical Heterogeneity in Cerebral Aneurysms. <i>Journal of Vascular Research</i> , 2022, 59, 34-42.	1.4	4
2	Stromal architecture directs early dissemination in pancreatic ductal adenocarcinoma. <i>JCI Insight</i> , 2022, 7, .	5.0	22
3	Elucidating the signal for contact guidance contained in aligned fibrils with a microstructuralâ€”mechanical model. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210951.	3.4	1
4	Engineering T cells to enhance 3D migration through structurally and mechanically complex tumor microenvironments. <i>Nature Communications</i> , 2021, 12, 2815.	12.8	73
5	Aligned forces: Origins and mechanisms of cancer dissemination guided by extracellular matrix architecture. <i>Current Opinion in Cell Biology</i> , 2021, 72, 63-71.	5.4	37
6	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.	1.3	79
7	Engineering Elastic Nano- and Micro-Patterns and Textures for Directed Cell Motility. <i>STAR Protocols</i> , 2020, 1, 100013.	1.2	10
8	Bringing order to the matrix. <i>Nature Materials</i> , 2020, 19, 130-131.	27.5	6
9	Fibrillar Collagen Quantification With Curvelet Transform Based Computational Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 198.	4.1	32
10	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.	2.1	5
11	Modeling distributed forces within cell adhesions of varying size on continuous substrates. <i>Cytoskeleton</i> , 2019, 76, 571-585.	2.0	7
12	Non-Invasive Monitoring of Stromal Biophysics with Targeted Depletion of Hyaluronan in Pancreatic Ductal Adenocarcinoma. <i>Cancers</i> , 2019, 11, 772.	3.7	18
13	Antifibrotic Therapy Disrupts Stromal Barriers and Modulates the Immune Landscape in Pancreatic Ductal Adenocarcinoma. <i>Cancer Research</i> , 2019, 79, 372-386.	0.9	110
14	Dynamics of 3D carcinoma cell invasion into aligned collagen. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 100-112.	1.3	46
15	Physical and Chemical Enhancement of and Adaptive Resistance to Irreversible Electroporation of Pancreatic Cancer. <i>Annals of Biomedical Engineering</i> , 2018, 46, 25-36.	2.5	16
16	Bimodal sensing of guidance cues in mechanically distinct microenvironments. <i>Nature Communications</i> , 2018, 9, 4891.	12.8	52
17	Microtubule-Actomyosin Mechanical Cooperation during Contact Guidance Sensing. <i>Cell Reports</i> , 2018, 25, 328-338.e5.	6.4	51
18	Cancer Stem Cell Migration in Threeâ€”Dimensional Aligned Collagen Matrices. <i>Current Protocols in Stem Cell Biology</i> , 2018, 46, e57.	3.0	8

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19	Anisotropic forces from spatially constrained focal adhesions mediate contact guidance directed cell migration. <i>Nature Communications</i> , 2017, 8, 14923.	12.8	221
20	Tug of War at the Cell-Matrix Interface. <i>Biophysical Journal</i> , 2017, 112, 1739-1741.	0.5	2
21	Enhanced Directional Migration of Cancer Stem Cells in 3D Aligned Collagen Matrices. <i>Biophysical Journal</i> , 2017, 112, 1023-1036.	0.5	132
22	Multiphoton fluorescence lifetime imaging of chemotherapy distribution in solid tumors. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	16
23	Multiscale Cues Drive Collective Cell Migration. <i>Scientific Reports</i> , 2016, 6, 29749.	3.3	40
24	Interstitial Pressure in Pancreatic Ductal Adenocarcinoma Is Dominated by a Gel-Fluid Phase. <i>Biophysical Journal</i> , 2016, 110, 2106-2119.	0.5	131
25	Heterogeneous Differentiation of Human Mesenchymal Stem Cells in 3D Extracellular Matrix Composites. <i>BioResearch Open Access</i> , 2016, 5, 37-48.	2.6	27
26	Matrix nanotopography as a regulator of cell function. <i>Journal of Cell Biology</i> , 2012, 197, 351-360.	5.2	522
27	Enzymatic Targeting of the Stroma Ablates Physical Barriers to Treatment of Pancreatic Ductal Adenocarcinoma. <i>Cancer Cell</i> , 2012, 21, 418-429.	16.8	1,664
28	Aligned Collagen Is a Prognostic Signature for Survival in Human Breast Carcinoma. <i>American Journal of Pathology</i> , 2011, 178, 1221-1232.	3.8	1,026
29	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.	2.0	423
30	The role of focal adhesion kinase in tumor initiation and progression. <i>Cell Adhesion and Migration</i> , 2009, 3, 347-350.	2.7	81
31	Shining new light on 3D cell motility and the metastatic process. <i>Trends in Cell Biology</i> , 2009, 19, 638-648.	7.9	56
32	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.	3.3	185
33	Collagen density promotes mammary tumor initiation and progression. <i>BMC Medicine</i> , 2008, 6, 11.	5.5	1,129
34	Contact Guidance Mediated Three-Dimensional Cell Migration is Regulated by Rho/ROCK-Dependent Matrix Reorganization. <i>Biophysical Journal</i> , 2008, 95, 5374-5384.	0.5	426
35	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, 1551-1565.	3.8	126
36	Nonlinear Optical Imaging of Cellular Processes in Breast Cancer. <i>Microscopy and Microanalysis</i> , 2008, 14, 532-548.	0.4	56

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37	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.	2.6	52
38	Systemic administration of IGF-I enhances healing in collagenous extracellular matrices: evaluation of loaded and unloaded ligaments. <i>BMC Physiology</i> , 2007, 7, 2.	3.6	55
39	Collagen fibril morphology and organization: Implications for force transmission in ligament and tendon. <i>Matrix Biology</i> , 2006, 25, 71-84.	3.6	285
40	Collagen reorganization at the tumor-stromal interface facilitates local invasion. <i>BMC Medicine</i> , 2006, 4, 38.	5.5	1,417
41	Intrinsic fibroblast-mediated remodeling of damaged collagenous matrices in vivo. <i>Matrix Biology</i> , 2005, 23, 543-555.	3.6	50
42	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, 415-422.	1.3	32
43	Hindlimb unloading alters ligament healing. <i>Journal of Applied Physiology</i> , 2003, 94, 314-324.	2.5	58
44	Subfailure damage in ligament: a structural and cellular evaluation. <i>Journal of Applied Physiology</i> , 2002, 92, 362-371.	2.5	191