

Vito Quaranta

List of Publications by Year in descending order

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185
papers

15,688
citations

18436

62
h-index

18606

119
g-index

197
all docs

197
docs citations

197
times ranked

13737
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction of Cell Migration by Matrix Metalloprotease-2 Cleavage of Laminin-5. <i>Science</i> , 1997, 277, 225-228.	6.0	1,120
2	A simplified laminin nomenclature. <i>Matrix Biology</i> , 2005, 24, 326-332.	1.5	760
3	Tumor Morphology and Phenotypic Evolution Driven by Selective Pressure from the Microenvironment. <i>Cell</i> , 2006, 127, 905-915.	13.5	714
4	Molecular subtypes of small cell lung cancer: a synthesis of human and mouse model data. <i>Nature Reviews Cancer</i> , 2019, 19, 289-297.	12.8	692
5	Integrin cytoplasmic domains mediate inside-out signal transduction. <i>Journal of Cell Biology</i> , 1994, 124, 1047-1059.	2.3	628
6	Role of Cell Surface Metalloprotease Mt1-Mmp in Epithelial Cell Migration over Laminin-5. <i>Journal of Cell Biology</i> , 2000, 148, 615-624.	2.3	596
7	Intracellular transport of class II MHC molecules directed by invariant chain. <i>Nature</i> , 1990, 348, 600-605.	13.7	521
8	Patterns of transcription factor programs and immune pathway activation define four major subtypes of SCLC with distinct therapeutic vulnerabilities. <i>Cancer Cell</i> , 2021, 39, 346-360.e7.	7.7	422
9	Integrative mathematical oncology. <i>Nature Reviews Cancer</i> , 2008, 8, 227-234.	12.8	387
10	A novel vitronectin receptor integrin ($\alpha 5 \beta 1$) is responsible for distinct adhesive properties of carcinoma cells. <i>Cell</i> , 1989, 57, 59-69.	13.5	356
11	Epithelial integrin alpha 6 beta 4: complete primary structure of alpha 6 and variant forms of beta 4.. <i>Journal of Cell Biology</i> , 1990, 111, 1593-1604.	2.3	320
12	Kisspeptin-10, a KiSS-1/metastin-derived decapeptide, is a physiological invasion inhibitor of primary human trophoblasts. <i>Journal of Cell Science</i> , 2004, 117, 1319-1328.	1.2	314
13	Binding to EGF receptor of a laminin-5 EGF-like fragment liberated during MMP-dependent mammary gland involution. <i>Journal of Cell Biology</i> , 2003, 161, 197-209.	2.3	277
14	EXPRESSION OF Ia-LIKE ANTIGENS IN NORMAL HUMAN NONLYMPHOID TISSUES. <i>Transplantation</i> , 1981, 31, 75-78.	0.5	223
15	Polarized integrin mediates human keratinocyte adhesion to basal lamina.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 6888-6892.	3.3	212
16	Cell type-specific integrin variants with alternative alpha chain cytoplasmic domains.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 10183-10187.	3.3	190
17	Tumor cell $\alpha 3 \beta 1$ integrin and vascular laminin-5 mediate pulmonary arrest and metastasis. <i>Journal of Cell Biology</i> , 2004, 164, 935-941.	2.3	185
18	Tales from the crypt[ic] sites of the extracellular matrix. <i>Trends in Cell Biology</i> , 2003, 13, 366-375.	3.6	181

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19	Surface relocation of alpha 6 beta 4 integrins and assembly of hemidesmosomes in an in vitro model of wound healing.. Journal of Cell Biology, 1991, 115, 1737-1750.	2.3	172
20	Laminin receptors in the retina: sequence analysis of the chick integrin alpha 6 subunit. Evidence for transcriptional and posttranslational regulation.. Journal of Cell Biology, 1991, 113, 405-416.	2.3	164
21	The major laminin receptor of mouse embryonic stem cells is a novel isoform of the alpha 6 beta 1 integrin.. Journal of Cell Biology, 1991, 115, 843-850.	2.3	162
22	Cadherin-Bound β -Catenin Feeds into the Wnt Pathway upon Adherens Junctions Dissociation: Evidence for an Intersection between β -Catenin Pools. PLoS ONE, 2009, 4, e4580.	1.1	154
23	Expression and Function of α 3 and α 5 Integrins in the Developing Pancreas. Journal of Cell Biology, 2000, 150, 1445-1460.	2.3	147
24	Rapid Disruption of an Astrocyte Interaction With the Extracellular Matrix Mediated by Integrin α 6 β 4 During Focal Cerebral Ischemia/Reperfusion. Stroke, 1997, 28, 858-865.	1.0	147
25	Clinically Relevant Modeling of Tumor Growth and Treatment Response. Science Translational Medicine, 2013, 5, 187ps9.	5.8	145
26	Quantifying Drug Combination Synergy along Potency and Efficacy Axes. Cell Systems, 2019, 8, 97-108.e16.	2.9	142
27	Human Hepatocellular Carcinoma (HCC) Cells Require Both α 3 β 1 Integrin and Matrix Metalloproteinases Activity for Migration and Invasion. Laboratory Investigation, 2001, 81, 613-627.	1.7	134
28	Transforming Growth Factor β 2 Induces Clustering of HER2 and Integrins by Activating Src-Focal Adhesion Kinase and Receptor Association to the Cytoskeleton. Cancer Research, 2009, 69, 475-482.	0.4	126
29	Chloroquine affects biosynthesis of Ia molecules by inhibiting dissociation of invariant (γ) chains from alpha-beta dimers in B cells.. Journal of Experimental Medicine, 1985, 162, 1371-1376.	4.2	119
30	New Approaches to SCLC Therapy: From the Laboratory to the Clinic. Journal of Thoracic Oncology, 2020, 15, 520-540.	0.5	119
31	Membrane-type Matrix Metalloproteinase-1 (MT1-MMP) Is a Processing Enzyme for Human Laminin β 2 Chain. Journal of Biological Chemistry, 2005, 280, 88-93.	1.6	116
32	Alphav integrins mediate adhesion and migration of breast carcinoma cell lines. Clinical and Experimental Metastasis, 1997, 16, 50-61.	1.7	108
33	Inhibitory Role of α 6 β 4-Associated ErbB-2 and Phosphoinositide 3-Kinase in Keratinocyte Haptotactic Migration Dependent on α 3 β 1 Integrin. Journal of Cell Biology, 2001, 153, 465-478.	2.3	105
34	Fractional proliferation: a method to deconvolve cell population dynamics from single-cell data. Nature Methods, 2012, 9, 923-928.	9.0	104
35	Remodeling of the Microenvironment by Aggressive Melanoma Tumor Cells. Annals of the New York Academy of Sciences, 2003, 995, 151-161.	1.8	102
36	Mathematical modeling of cancer: The future of prognosis and treatment. Clinica Chimica Acta, 2005, 357, 173-179.	0.5	96

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37	The LG3 Module of Laminin-5 Harbors a Binding Site for Integrin $\alpha 3 \beta 1$ That Promotes Cell Adhesion, Spreading, and Migration. <i>Journal of Biological Chemistry</i> , 2001, 276, 33045-33053.	1.6	95
38	Microenvironment driven invasion: a multiscale multimodel investigation. <i>Journal of Mathematical Biology</i> , 2009, 58, 579-624.	0.8	92
39	An unbiased metric of antiproliferative drug effect in vitro. <i>Nature Methods</i> , 2016, 13, 497-500.	9.0	92
40	Matrix metalloproteinases process the laminin-5 $\alpha 2$ -chain and regulate epithelial cell migration. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 1012-1017.	1.0	91
41	Epithelial cell motility on laminin-5: regulation by matrix assembly, proteolysis, integrins and erbB receptors. <i>Matrix Biology</i> , 2004, 23, 75-85.	1.5	90
42	Laminin-332 Is a Substrate for Hepsin, a Protease Associated with Prostate Cancer Progression. <i>Journal of Biological Chemistry</i> , 2008, 283, 30576-30584.	1.6	83
43	Co-expression network analysis identifies Spleen Tyrosine Kinase (SYK) as a candidate oncogenic driver in a subset of small-cell lung cancer. <i>BMC Systems Biology</i> , 2013, 7, S1.	3.0	83
44	Defining the role of laminin-332 in carcinoma. <i>Matrix Biology</i> , 2009, 28, 445-455.	1.5	81
45	Novel Hybrid Phenotype Revealed in Small Cell Lung Cancer by a Transcription Factor Network Model That Can Explain Tumor Heterogeneity. <i>Cancer Research</i> , 2017, 77, 1063-1074.	0.4	81
46	A novel circular invasion assay mimics in vivo invasive behavior of cancer cell lines and distinguishes single-cell motility in vitro. <i>BMC Cancer</i> , 2008, 8, 198.	1.1	80
47	Involvement of Laminin Binding Integrins and Laminin-5 in Branching Morphogenesis of the Ureteric Bud during Kidney Development. <i>Developmental Biology</i> , 2001, 238, 289-302.	0.9	79
48	An Off-Lattice Hybrid Discrete-Continuum Model of Tumor Growth and Invasion. <i>Biophysical Journal</i> , 2010, 98, 37-47.	0.2	79
49	A spatial model of tumor-host interaction: Application of chemotherapy. <i>Mathematical Biosciences and Engineering</i> , 2009, 6, 521-546.	1.0	79
50	Four α invariant chain forms derive from a single gene by alternate splicing and alternate initiation of transcription/translation. <i>Journal of Experimental Medicine</i> , 1987, 166, 444-460.	4.2	78
51	Systems-level network modeling of Small Cell Lung Cancer subtypes identifies master regulators and destabilizers. <i>PLoS Computational Biology</i> , 2019, 15, e1007343.	1.5	77
52	Toward a Science of Tumor Forecasting for Clinical Oncology. <i>Cancer Research</i> , 2015, 75, 918-923.	0.4	74
53	The internal affairs of an integrin. <i>Trends in Cell Biology</i> , 1991, 1, 2-4.	3.6	73
54	Activation of the Integrin $\alpha v \beta 3$ Involves a Discrete Cation-binding Site That Regulates Conformation. <i>Journal of Biological Chemistry</i> , 1996, 271, 1364-1370.	1.6	72

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55	Discrete Proteolysis of Focal Contact and Adherens Junction Components in Porphyromonas gingivalis- Infected Oral Keratinocytes: a Strategy for Cell Adhesion and Migration Disabling. Infection and Immunity, 2002, 70, 5846-5856.	1.0	72
56	Coating of titanium alloy with soluble laminin-5 promotes cell attachment and hemidesmosome assembly in gingival epithelial cells: potential application to dental implants. Journal of Periodontal Research, 1997, 32, 287-294.	1.4	71
57	Expression of Matrix Metalloprotease-2-Cleaved Laminin-5 in Breast Remodeling Stimulated by Sex Steroids. American Journal of Pathology, 1999, 154, 1193-1201.	1.9	71
58	Proteolytic processing of laminin-5 by MT1-MMP in tissues and its effects on epithelial cell morphology. FASEB Journal, 2004, 18, 1-22.	0.2	70
59	Network Analysis of the Focal Adhesion to Invadopodia Transition Identifies a PI3K-PKC δ Invasive Signaling Axis. Science Signaling, 2012, 5, ra66.	1.6	69
60	Rapid Spreading and Mature Hemidesmosome Formation in HaCaT Keratinocytes Induced by Incubation with Soluble Laminin-5r. Journal of Investigative Dermatology, 1995, 105, 557-561.	0.3	66
61	Morphogenetic Effects of Soluble Laminin-5 on Cultured Epithelial Cells and Tissue Explants. Experimental Cell Research, 1996, 228, 262-270.	1.2	66
62	Migration of breast epithelial cells on Laminin-5: differential role of integrins in normal and transformed cell types. Breast Cancer Research and Treatment, 1998, 51, 57-69.	1.1	66
63	Cell Migration through Extracellular Matrix. Journal of Cell Biology, 2000, 149, 1167-1170.	2.3	66
64	Establishment and Validation of Computational Model for MT1-MMP Dependent ECM Degradation and Intervention Strategies. PLoS Computational Biology, 2012, 8, e1002479.	1.5	66
65	A mechanically coupled reaction-diffusion model that incorporates intra-tumoural heterogeneity to predict <i>in vivo</i> glioma growth. Journal of the Royal Society Interface, 2017, 14, 20161010.	1.5	66
66	Normalizing DNA microarray data. Current Issues in Molecular Biology, 2002, 4, 57-64.	1.0	66
67	Transgenic HLA-DR β faithfully reconstitutes IE-controlled immune functions and induces cross-tolerance to E α in E β 0 mutant mice. Cell, 1989, 58, 583-594.	13.5	65
68	Integrin α 6 β 1 Induces CD81-dependent Cell Motility without Engaging the Extracellular Matrix Migration Substrate. Molecular Biology of the Cell, 1997, 8, 2253-2265.	0.9	64
69	Invasion emerges from cancer cell adaptation to competitive microenvironments: Quantitative predictions from multiscale mathematical models. Seminars in Cancer Biology, 2008, 18, 338-348.	4.3	64
70	Localization and possible role of two different α v β 3 integrin conformations in resting and resorbing osteoclasts. Journal of Cell Science, 2002, 115, 2919-2929.	1.2	63
71	Microenvironmental Independence Associated with Tumor Progression. Cancer Research, 2009, 69, 8797-8806.	0.4	60
72	Changes in Ia-like antigen expression on malignant human cells. Immunogenetics, 1981, 12, 409-413.	1.2	59

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73	The Activation State of the Integrin $\alpha 5 \beta 1$ Affects Outside-in Signals Leading to Cell Spreading and Focal Adhesion Kinase Phosphorylation. <i>Journal of Biological Chemistry</i> , 1995, 270, 18133-18140.	1.6	58
74	Stimulation of human T lymphocytes by PHA-activated autologous T lymphocytes: Analysis of the role of Ia-like antigens with monoclonal antibodies. <i>Immunogenetics</i> , 1981, 12, 267-274.	1.2	57
75	Immunolocalization of Integrin $\alpha 6 \beta 4$ in Mouse Junctional Epithelium Suggests an Anchoring Function to both the Internal and the External Basal Lamina. <i>Journal of Dental Research</i> , 1992, 71, 1503-1508.	2.5	57
76	Activation of $\alpha 5 \beta 1$ Integrin on Human Osteoclast-like Cells Stimulates Adhesion and Migration in Response to Osteopontin. <i>Biochemical and Biophysical Research Communications</i> , 1998, 249, 522-525.	1.0	57
77	The free and the $\beta 2$ -microglobulin-associated heavy chains of HLA-A, B alloantigens share the antigenic determinant recognized by the monoclonal antibody Q1/28. <i>Immunogenetics</i> , 1981, 13, 285-295.	1.2	56
78	Charting the Fragmented Landscape of Drug Synergy. <i>Trends in Pharmacological Sciences</i> , 2020, 41, 266-280.	4.0	56
79	Localization and possible role of two different $\alpha v \beta 3$ integrin conformations in resting and resorbing osteoclasts. <i>Journal of Cell Science</i> , 2002, 115, 2919-29.	1.2	52
80	Structure of the human Ia-associated invariant (γ)-chain gene: identification of 5' sequences shared with major histocompatibility complex class II genes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986, 83, 4484-4488.	3.3	50
81	MuSyC is a consensus framework that unifies multi-drug synergy metrics for combinatorial drug discovery. <i>Nature Communications</i> , 2021, 12, 4607.	5.8	50
82	MHC class II molecules and immunoglobulins on peripheral blood lymphocytes of the bottlenosed dolphin, <i>Tursiops truncatus</i> . <i>The Journal of Experimental Zoology</i> , 1992, 263, 96-104.	1.4	48
83	Thrombospondin-1 acts as a ligand for CD148 tyrosine phosphatase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1985-1990.	3.3	48
84	The contribution of age structure to cell population responses to targeted therapeutics. <i>Journal of Theoretical Biology</i> , 2012, 311, 19-27.	0.8	48
85	Predicting <i>in vivo</i> glioma growth with the reaction diffusion equation constrained by quantitative magnetic resonance imaging data. <i>Physical Biology</i> , 2015, 12, 046006.	0.8	42
86	Molecular cloning and characterization of CD4 in an aquatic mammal, the white whale <i>Delphinapterus leucas</i> . <i>Immunogenetics</i> , 1999, 49, 376-383.	1.2	41
87	DNA copy number aberrations in small-cell lung cancer reveal activation of the focal adhesion pathway. <i>Oncogene</i> , 2010, 29, 6331-6342.	2.6	41
88	Dependence On Glycolysis Sensitizes BRAF-mutated Melanomas For Increased Response To Targeted BRAF Inhibition. <i>Scientific Reports</i> , 2017, 7, 42604.	1.6	41
89	Distribution of antigenic determinants recognized by three monoclonal antibodies (Q2/70, Q5/6 and) Tj ETQq1 1 0,784314 rgBT /Ov	1.2	40
90	The human invariant chain is the core protein of the human class II-associated proteoglycan.. <i>Journal of Experimental Medicine</i> , 1986, 164, 1422-1439.	4.2	40

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91	De novo identification of tumor-specific internalizing human antibody–receptor pairs by phage-display methods. <i>Journal of Immunological Methods</i> , 2003, 274, 185-197.	0.6	39
92	Linking Changes in Epithelial Morphogenesis to Cancer Mutations Using Computational Modeling. <i>PLoS Computational Biology</i> , 2010, 6, e1000900.	1.5	38
93	The monoclonal xenoantibody Q6/64 recognizes a determinant expressed by certain gene products of the A and B loci of the HLA region. <i>Immunogenetics</i> , 1981, 14, 403-413.	1.2	37
94	Psoriatic lesions in patients with chronic liver disease are distinct from psoriasis vulgaris lesions, as judged on basis of integrin adhesion receptors. <i>Hepatology</i> , 1994, 20, 56-65.	3.6	37
95	Laminin 5 in the Human Thymus: Control of T Cell Proliferation via $\alpha 6 \beta 4$ Integrins. <i>Journal of Cell Biology</i> , 1999, 144, 563-574.	2.3	37
96	A Predictive Mathematical Modeling Approach for the Study of Doxorubicin Treatment in Triple Negative Breast Cancer. <i>Scientific Reports</i> , 2017, 7, 5725.	1.6	37
97	Human Mammary Epithelial Cells Exhibit a Bimodal Correlated Random Walk Pattern. <i>PLoS ONE</i> , 2010, 5, e9636.	1.1	37
98	Integrin $\alpha 6 \beta 4$ -erbB2 Complex Inhibits Haptotaxis by Up-regulating E-cadherin Cell-Cell Junctions in Keratinocytes. <i>Journal of Biological Chemistry</i> , 2005, 280, 8004-8015.	1.6	36
99	Binding of Monoclonal Antibody (4F2) to its Cell Surface Antigen on Dispersed Adenomatous Parathyroid Cells Raises Cytosolic Calcium and Inhibits Parathyroid Hormone Secretion*. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1987, 64, 43-50.	1.8	35
100	Expression of Ia-like antigens on the vasculature of human kidney. <i>Clinical Immunology and Immunopathology</i> , 1981, 20, 11-20.	2.1	34
101	A Nonquiescent $\alpha 6 \beta 4$ -Population State in Drug-Treated, BRAF-Mutated Melanoma. <i>Biophysical Journal</i> , 2018, 114, 1499-1511.	0.2	34
102	Immunolocalization of integrins in the normal and neoplastic colonic epithelium. <i>Vigiliae Christianae</i> , 1993, 63, 373-383.	0.1	33
103	A Radioimmunoassay for Evaluation of Xenoantiserum to Melanoma-Associated Antigen 23. <i>Journal of the National Cancer Institute</i> , 1979, 62, 455-463.	3.0	32
104	Motility cues in the tumor microenvironment. <i>Differentiation</i> , 2002, 70, 590-598.	1.0	32
105	Influence of cell cycle phase on apparent diffusion coefficient in synchronized cells detected using temporal diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 920-926.	1.9	32
106	Precision Medicine with Imprecise Therapy: Computational Modeling for Chemotherapy in Breast Cancer. <i>Translational Oncology</i> , 2018, 11, 732-742.	1.7	32
107	ASCL1 represses a SOX9 ⁺ neural crest stem-like state in small cell lung cancer. <i>Genes and Development</i> , 2021, 35, 847-869.	2.7	32
108	Gradient of Integrin $\alpha 6 \beta 4$ Distribution in the Myocardium During Early Heart Development. <i>Cell Adhesion and Communication</i> , 1995, 3, 101-113.	1.7	30

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109	Ia-like antigens on freshly explanted human melanoma. <i>Clinical Immunology and Immunopathology</i> , 1981, 19, 250-259.	2.1	29
110	Biophysical Modeling of In Vivo Glioma Response After Whole-Brain Radiation Therapy in a Murine Model of Brain Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 1270-1279.	0.4	29
111	A splice variant of alpha 6 integrin is associated with malignant conversion in mouse skin tumorigenesis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 7041-7045.	3.3	28
112	Characterization of a Tight Molecular Complex between Integrin $\alpha 6 \beta 4$ and Laminin-5 Extracellular Matrix. <i>Biochemical and Biophysical Research Communications</i> , 1998, 251, 49-55.	1.0	28
113	Cancer Invasion: Watch Your Neighbourhood!. <i>Tumori</i> , 2003, 89, 343-348.	0.6	28
114	Laminin $\alpha 3 \beta 2$ cleavage by matriptase alters motility parameters of prostate cancer cells. <i>Prostate</i> , 2011, 71, 184-196.	1.2	28
115	Evidence that laminin-5 is a component of the tooth surface internal basal lamina, supporting epithelial cell adhesion. <i>Journal of Periodontal Research</i> , 1999, 34, 16-24.	1.4	27
116	Dissection of the osteogenic effects of laminin-332 utilizing specific LG domains: LG3 induces osteogenic differentiation, but not mineralization. <i>Experimental Cell Research</i> , 2008, 314, 763-773.	1.2	27
117	Nest expansion assay: a cancer systems biology approach to in vitro invasion measurements. <i>BMC Research Notes</i> , 2009, 2, 130.	0.6	27
118	Development of High-Throughput Quantitative Assays for Glucose Uptake in Cancer Cell Lines. <i>Molecular Imaging and Biology</i> , 2011, 13, 840-852.	1.3	27
119	Integrin $\alpha 3 \beta 1$ regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. <i>Molecular Biology of the Cell</i> , 2015, 26, 1857-1874.	0.9	27
120	Laminin $\alpha 3 \beta 2 \alpha 1$ integrin interactions negatively regulate invadopodia. <i>Journal of Cellular Physiology</i> , 2010, 223, 134-142.	2.0	26
121	Model-controlled hydrodynamic focusing to generate multiple overlapping gradients of surface-immobilized proteins in microfluidic devices. <i>Lab on A Chip</i> , 2008, 8, 238-244.	3.1	25
122	Ventricular-Subventricular Zone Contact by Glioblastoma is Not Associated with Molecular Signatures in Bulk Tumor Data. <i>Scientific Reports</i> , 2019, 9, 1842.	1.6	25
123	Trait Variability of Cancer Cells Quantified by High-Content Automated Microscopy of Single Cells. <i>Methods in Enzymology</i> , 2009, 467, 23-57.	0.4	24
124	MT1-MMP-mediated basement membrane remodeling modulates renal development. <i>Experimental Cell Research</i> , 2010, 316, 2993-3005.	1.2	24
125	Integrin alpha6 maintains the structural integrity of the kidney collecting system. <i>Matrix Biology</i> , 2017, 57-58, 244-257.	1.5	24
126	Drug-Tolerant Idling Melanoma Cells Exhibit Theory-Predicted Metabolic Low-Low Phenotype. <i>Frontiers in Oncology</i> , 2020, 10, 1426.	1.3	24

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127	Quantifying heterogeneity and dynamics of clonal fitness in response to perturbation. <i>Journal of Cellular Physiology</i> , 2015, 230, 1403-1412.	2.0	23
128	Metabolic plasticity meets gene regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3370-3372.	3.3	22
129	Epithelial integrins. <i>Cell Differentiation and Development</i> , 1990, 32, 361-365.	0.4	21
130	Dispersal of epithelial cancer cell colonies by lysophosphatidic acid (LPA). <i>Journal of Cellular Physiology</i> , 2006, 206, 337-346.	2.0	21
131	Mathematical models of cell phenotype regulation and reprogramming: Make cancer cells sensitive again!. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2017, 1867, 167-175.	3.3	21
132	An in vitro model of tumor heterogeneity resolves genetic, epigenetic, and stochastic sources of cell state variability. <i>PLoS Biology</i> , 2021, 19, e3000797.	2.6	21
133	CellAnimation: an open source MATLAB framework for microscopy assays. <i>Bioinformatics</i> , 2012, 28, 138-139.	1.8	18
134	Beyond Programmed Death-Ligand 1: B7-H6 Emerges as a Potential Immunotherapy Target in SCLC. <i>Journal of Thoracic Oncology</i> , 2021, 16, 1211-1223.	0.5	17
135	Serological, functional, and immunochemical characterization of a monoclonal antibody (MoAb) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	16
136	A Decreased Ratio of Laminin-332 β 3 to β 2 Subunit mRNA is Associated with Poor Prognosis in Colon Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2009, 18, 1584-1590.	1.1	16
137	Antibody-Induced Activation of β 1 Integrin Receptors Stimulates cAMP-Dependent Migration of Breast Cells on Laminin-5. <i>Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications</i> , 2000, 4, 129-135.	1.7	15
138	Computational investigation of intrinsic and extrinsic mechanisms underlying the formation of carcinoma. <i>Mathematical Medicine and Biology</i> , 2012, 29, 67-84.	0.8	15
139	Automated Analysis of Cell-Matrix Adhesions in 2D and 3D Environments. <i>Scientific Reports</i> , 2015, 5, 8124.	1.6	14
140	Effect of polyclonal and monoclonal HLA-DR xenoantibodies on xenogeneic mixed lymphocyte reactions. <i>Immunogenetics</i> , 1980, 11-11, 413-416.	1.2	13
141	Isolation of Ia-like antigen-bearing cells from human peripheral lymphocytes through the use of a monoclonal antibody to framework determinants of Ia-like antigens. <i>Journal of Immunological Methods</i> , 1980, 39, 343-354.	0.6	13
142	Effect of Tunicamycin on the Assembly and Antigenicity of HLA Antigens: Analysis with Monoclonal Antibodies. <i>Scandinavian Journal of Immunology</i> , 1981, 14, 201-205.	1.3	12
143	Characterization of Morphological and Cytoskeletal Changes in MCF10A Breast Epithelial Cells Plated on Laminin-5: Comparison with Breast Cancer Cell Line MCF7. <i>Cell Communication and Adhesion</i> , 2001, 8, 29-44.	1.0	12
144	Cancer invasion: watch your neighbourhood!. <i>Tumori</i> , 2003, 89, 343-8.	0.6	12

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145	Rosetting of human T lymphocytes with goat red blood cells: Effect of treatment with 2-aminoethylisothiuronium bromide (AET) and comparison with AET treated sheep red blood cells. <i>Journal of Immunological Methods</i> , 1979, 30, 317-328.	0.6	11
146	The role of a recombinant fragment of laminin-332 in integrin $\alpha 3 \beta 1$ -dependent cell binding, spreading and migration. <i>Biomaterials</i> , 2010, 31, 5110-5121.	5.7	11
147	Derivation and experimental comparison of cell-division probability densities. <i>Journal of Theoretical Biology</i> , 2014, 359, 129-135.	0.8	11
148	Altered TGF α signaling drives cooperation between breast cancer cell populations. <i>FASEB Journal</i> , 2016, 30, 3441-3452.	0.2	11
149	Psoriatic lesions in patients with chronic liver disease are distinct from psoriasis vulgaris lesions, as judged on basis of integrin adhesion receptors. <i>Hepatology</i> , 1994, 20, 56-65.	3.6	11
150	Integrins and laminins in tissue remodeling. <i>Kidney International</i> , 1997, 51, 1441-1446.	2.6	10
151	Mode of Adsorption and Orientation of an Extracellular Matrix Protein Affect Its Cell-Adhesion-Promoting Activity. <i>Analytical Biochemistry</i> , 1998, 265, 1-7.	1.1	9
152	Migration of isogenic cell lines quantified by dynamic multivariate analysis of single-cell motility. <i>Cell Adhesion and Migration</i> , 2008, 2, 127-136.	1.1	9
153	Not all noise is waste. <i>Nature Methods</i> , 2010, 7, 269-272.	9.0	9
154	Bimodal Analysis Reveals a General Scaling Law Governing Nondirected and Chemotactic Cell Motility. <i>Biophysical Journal</i> , 2010, 99, 367-376.	0.2	9
155	ACDC: Automated Cell Detection and Counting for Time-Lapse Fluorescence Microscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6187.	1.3	9
156	An ELISA for detection of DNA-bound carcinogen using a monoclonal antibody to N-acetoxy-2-acetylaminofluorene-modified DNA. <i>Journal of Immunological Methods</i> , 1987, 98, 195-200.	0.6	8
157	Lysophosphatidic Acid Upregulates Laminin-332 Expression during A431 Cell Colony Dispersal. <i>Journal of Oncology</i> , 2010, 2010, 1-8.	0.6	8
158	What Lies Beneath: Looking Beyond Tumor Genetics Shows the Complexity of Signaling Networks Underlying Drug Sensitivity. <i>Science Signaling</i> , 2013, 6, pe32.	1.6	8
159	Leveraging Mathematical Modeling to Quantify Pharmacokinetic and Pharmacodynamic Pathways: Equivalent Dose Metric. <i>Frontiers in Physiology</i> , 2019, 10, 616.	1.3	7
160	A recurrent idotype on monoclonal anti-human Ia antibodies.. <i>Journal of Experimental Medicine</i> , 1982, 156, 1551-1556.	4.2	6
161	Modeling of Effects of Nutrient Gradients on Cell Proliferation in Microfluidic Bioreactor. <i>Biotechnology Progress</i> , 2007, 23, 1347-1354.	1.3	6
162	Epitope mapping of functional blocking monoclonal antibody CM6 suggests a "weak" integrin binding site on the laminin-332 LG2 domain. <i>Journal of Cellular Physiology</i> , 2010, 223, 541-548.	2.0	6

#	ARTICLE	IF	CITATIONS
163	An Integrative Gene Expression and Mathematical Flux Balance Analysis Identifies Targetable Redox Vulnerabilities in Melanoma Cells. <i>Cancer Research</i> , 2020, 80, 4565-4577.	0.4	6
164	The HLA-Class II-associated chondroitin sulfate proteoglycan expressed by class II positive T and monocyte-like cell lines is larger than that expressed by EBV-transformed B-lymphoblastoid cell lines. <i>Human Immunology</i> , 1987, 18, 315-330.	1.2	5
165	Beyond genetics in personalized cancer treatment: assessing dynamics and heterogeneity of tumor responses. <i>Personalized Medicine</i> , 2013, 10, 221-225.	0.8	5
166	Variable Cell Line Pharmacokinetics Contribute to Non-Linear Treatment Response in Heterogeneous Cell Populations. <i>Annals of Biomedical Engineering</i> , 2018, 46, 899-911.	1.3	5
167	A drift-diffusion checkpoint model predicts a highly variable and growth-factor-sensitive portion of the cell cycle G1 phase. <i>PLoS ONE</i> , 2018, 13, e0192087.	1.1	5
168	Organoids as a Systems Platform for SCLC Brain Metastasis. <i>Frontiers in Oncology</i> , 2022, 12, 881989.	1.3	5
169	Activation of STAT3 through combined SRC and EGFR signaling drives resistance to a mitotic kinesin inhibitor in glioblastoma. <i>Cell Reports</i> , 2022, 39, 110991.	2.9	5
170	Characterization of Human Null Cells Isolated from Peripheral Lymphocytes by a Simultaneous Double-Rosetting Procedure. <i>Scandinavian Journal of Immunology</i> , 1981, 14, 225-231.	1.3	4
171	Dynamics of drug response informs rational combination regimens. <i>Science Signaling</i> , 2019, 12, .	1.6	4
172	Thunor: visualization and analysis of high-throughput dose-response datasets. <i>Nucleic Acids Research</i> , 2021, 49, W633-W640.	6.5	4
173	HLA-DR antigens and mitogenic factors released by PWM-stimulated T lymphocytes share the framework determinant recognized by the monoclonal antibody Q5/13. <i>Cellular Immunology</i> , 1981, 62, 406-411.	1.4	3
174	Evidence for a K ⁺ Channel Requirement in Spreading of Rat Basophilic Leukemia Cells on Fibronectin-Coated Surfaces. <i>Biochemical and Biophysical Research Communications</i> , 1996, 221, 51-58.	1.0	3
175	Laminins and Cancer Progression. , 2010, , 87-109.		2
176	Integrin Expression and Epithelial Cell Differentiation. , 1993, , 13-27.		2
177	HLA Polyclonal and Monoclonal Xenoantibodies. , 1981, , 307-345.		2
178	Distinctive Functions of $\alpha 6 \beta 4$ and Other Integrins in Epithelial Cells. , 1994, , 141-161.		2
179	Monoclonal and Polyclonal Xenoantibodies to the HLA-A, B, C Antigenic Molecular Complex Do Not Affect the Functional Activity of C3 Receptors. <i>Immunobiology</i> , 1980, 158, 17-21.	0.8	1
180	Cross-reactivity between human and murine lymphocyte antigens. <i>Immunogenetics</i> , 1981, 13, 311-317.	1.2	1

#	ARTICLE	IF	CITATIONS
181	Quantitative Approaches to Heterogeneity and Growth Variability in Cell Populations. Springer Proceedings in Mathematics and Statistics, 2014, , 15-27.	0.1	0
182	Ralph A. Reisfeld, PhD: In Memoriam (1926â€“2020). Cancer Research, 2021, 81, 1429-1430.	0.4	0
183	Biological Scales. FASEB Journal, 2007, 21, A97.	0.2	0
184	Binding of Integrins to Laminins. FASEB Journal, 2007, 21, A152.	0.2	0
185	Real-time luminescence enables continuous drugâ€™response analysis in adherent and suspension cell lines. Cancer Biology and Therapy, 2022, 23, 358-368.	1.5	0