Kenneth M Yamada

List of Publications by Year
in descending order

295	48,113	1893	1715
papers	citations	102 h-index	213 g-index

388	388	388	35862
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Taking Cell-Matrix Adhesions to the Third Dimension. Science, 2001, 294, 1708-1712.	12.6	2,735
2	Transmembrane crosstalk between the extracellular matrix and the cytoskeleton. Nature Reviews Molecular Cell Biology, 2001, 2, 793-805.	37.0	2,046
3	Fibronectin at a glance. Journal of Cell Science, 2002, 115, 3861-3863.	2.0	1,662
4	Modeling Tissue Morphogenesis and Cancer in 3D. Cell, 2007, 130, 601-610.	28.9	1,557
5	Fibronectinsâ€"adhesive glycoproteins of cell surface and blood. Nature, 1978, 275, 179-184.	27.8	1,427
6	Integrin function: molecular hierarchies of cytoskeletal and signaling molecules.. Journal of Cell Biology, 1995, 131, 791-805.	5.2	1,140
7	Inhibition of Cell Migration, Spreading, and Focal Adhesions by Tumor Suppressor PTEN. Science, 1998, 280, 1614-1617.	12.6	1,113
8	Mutation ofPten/Mmac1in mice causes neoplasia in multiple organ systems. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 1563-1568.	7.1	912
9	Random versus directionally persistent cell migration. Nature Reviews Molecular Cell Biology, 2009, 10, 538-549.	37.0	835
10	The relationship between force and focal complex development. Journal of Cell Biology, 2002, 159, 695-705.	5.2	812
11	Cell interactions with three-dimensional matrices. Current Opinion in Cell Biology, 2002, 14, 633-640.	5.4	806
12	Cellâ€"matrix adhesion. Journal of Cellular Physiology, 2007, 213, 565-573.	4.1	788
13	ULTRASTRUCTURE AND FUNCTION OF GROWTH CONES AND AXONS OF CULTURED NERVE CELLS. Journal of Cell Biology, 1971, 49, 614-635.	5.2	742
14	Integrins can collaborate with growth factors for phosphorylation of receptor tyrosine kinases and MAP kinase activation: roles of integrin aggregation and occupancy of receptors.. Journal of Cell Biology, 1996, 135, 1633-1642.	5.2	740
15	One-dimensional topography underlies three-dimensional fibrillar cell migration. Journal of Cell Biology, 2009, 184, 481-490.	5.2	663
16	Dynamics and segregation of cellâ€"matrix adhesions in cultured fibroblasts. Nature Cell Biology, 2000, 2, 191-196.	10.3	652
17	Integrin transmembrane signaling and cytoskeletal control. Current Opinion in Cell Biology, 1995, 7, 681-689.	5.4	614
18	Molecular interactions in cell adhesion complexes. Current Opinion in Cell Biology, 1997, 9, 76-85.	5.4	548

#	Article	IF	Citations
19	Mechanisms of 3D cell migration. Nature Reviews Molecular Cell Biology, 2019, 20, 738-752.	37.0	539
20	Dynamic Interactions of Cortactin and Membrane Type 1 Matrix Metalloproteinase at Invadopodia: Defining the Stages of Invadopodia Formation and Function. Cancer Research, 2006, 66, 3034-3043.	0.9	528
21	Fibronectin requirement in branching morphogenesis. Nature, 2003, 423, 876-881.	27.8	490
22	The Zinc-Finger Protein Slug Causes Desmosome Dissociation, an Initial and Necessary Step for Growth Factorâ€“induced Epithelialâ€“Mesenchymal Transition. Journal of Cell Biology, 1997, 137, 1403-1419.	5.2	473
23	The matrix reorganized: extracellular matrix remodeling and integrin signaling. Current Opinion in Cell Biology, 2006, 18, 463-471.	5.4	441
24	Molecular Architecture and Function of Matrix Adhesions. Cold Spring Harbor Perspectives in Biology, 2011, 3, a005033-a005033.	5.5	441
25	Biologically active synthetic peptides as probes of embryonic development: a competitive peptide inhibitor of fibronectin function inhibits gastrulation in amphibian embryos and neural crest cell migration in avian embryos.. Journal of Cell Biology, 1984, 99, 1822-1830.	5.2	435
26	Identification of an alternatively spliced site in human plasma fibronectin that mediates cell type-specific adhesion.. Journal of Cell Biology, 1986, 103, 2637-2647.	5.2	435
27	Myosin IIA regulates cell motility and actomyosinâ€“microtubule crosstalk. Nature Cell Biology, 2007, 9, 299-309.	10.3	435
28	Integrin Dynamics and Matrix Assembly. Journal of Cell Biology, 2000, 148, 1075-1090.	5.2	432
29	Cell migration in 3D matrix. Current Opinion in Cell Biology, 2005, 17, 524-532.	5.4	426
30	MICROFILAMENTS AND CELL LOCOMOTION. Journal of Cell Biology, 1971, 49, 595-613.	5.2	424
31	Fibronectin, integrins, and growth control. Journal of Cellular Physiology, 2001, 189, 1-13.	4.1	409
32	Role of carbohydrates in protein secretion and turnover: Effects of tunicamycin on the major cell surface glycoprotein of chick embryo fibroblasts. Cell, 1978, 13, 461-473.	28.9	404
33	A Rac switch regulates random versus directionally persistent cell migration. Journal of Cell Biology, 2005, 170, 793-802.	5.2	400
34	Tumor suppressor PTEN: modulator of cell signaling, growth, migration and apoptosis. Journal of Cell Science, 2001, 114, 2375-2382.	2.0	397
35	Shc and Fak Differentially Regulate Cell Motility and Directionality Modulated by Pten. Journal of Cell Biology, 1999, 146, 389-404.	5.2	390
36	Physical State of the Extracellular Matrix Regulates the Structure and Molecular Composition of Cell-Matrix Adhesions. Molecular Biology of the Cell, 2000, 11, 1047-1060.	2.1	390

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37	Site-directed mutagenesis of the cell-binding domain of human fibronectin: Separable, synergistic sites mediate adhesive function. Cell, 1988, 53, 649-657.	28.9	388
38	Local 3D matrix microenvironment regulates cell migration through spatiotemporal dynamics of contractility-dependent adhesions. Nature Communications, 2015, 6, 8720.	12.8	374
39	What's in a picture? The temptation of image manipulation. Journal of Cell Biology, 2004, 166, 11-15.	5.2	350
40	PTEN Interactions with Focal Adhesion Kinase and Suppression of the Extracellular Matrix-dependent Phosphatidylinositol 3-Kinase/Akt Cell Survival Pathway. Journal of Biological Chemistry, 1999, 274, 20693-20703.	3.4	326
41	Nonpolarized signaling reveals two distinct modes of 3D cell migration. Journal of Cell Biology, 2012, 197, 439-455.	5.2	325
42	Development of cell surface linkage complexes in cultured fibroblasts.. Journal of Cell Biology, 1985, 100, 1103-1114.	5.2	314
43	Tumor Suppressor PTEN Inhibits Integrin- and Growth Factorâ€“mediated Mitogen-activated Protein (MAP) Kinase Signaling Pathways. Journal of Cell Biology, 1998, 143, 1375-1383.	5.2	314
44	Cell adhesion and migration in the early vertebrate embryo: location and possible role of the putative fibronectin receptor complex. Journal of Cell Biology, 1986, 102, 160-178.	5.2	302
45	Defects in Cell Adhesion and the Visceral Endoderm following Ablation of Nonmuscle Myosin Heavy Chain II-A in Mice. Journal of Biological Chemistry, 2004, 279, 41263-41266.	3.4	297
46	Generation of compartmentalized pressure by a nuclear piston governs cell motility in a 3D matrix. Science, 2014, 345, 1062-1065.	12.6	296
47	Regulation of fibronectin receptor distribution [published erratum appears in J Cell Biol 1992 Jul;118(2):491]. Journal of Cell Biology, 1992, 117, 437-447.	5.2	288
48	Direct Comparisons of the Morphology, Migration, Cell Adhesions, and Actin Cytoskeleton of Fibroblasts in Four Different Three-Dimensional Extracellular Matrices. Tissue Engineering - Part A, 2011, 17, 713-724.	3.1	288
49	High-throughput investigation of osteoblast response to polymer crystallinity: influence of nanometer-scale roughness on proliferation. Biomaterials, 2004, 25, 1215-1224.	11.4	282
50	Full-length Sequence, Localization, and Chromosomal Mapping of Ameloblastin. Journal of Biological Chemistry, 1996, 271, 4431-4435.	3.4	281
51	Fibronectin and integrins in invasion and metastasis. Cancer and Metastasis Reviews, 1995, 14, 173-189.	5.9	279
52	Polymerizing Actin Fibers Position Integrins Primed to Probe for Adhesion Sites. Science, 2007, 315, 992-995.	12.6	270
53	Integrin regulation of growth factor receptors. Nature Cell Biology, 2002, 4, E75-E76.	10.3	269
54	Cell surface receptors for extracellular matrix components. BBA - Biomembranes, 1990, 1031, 91-110.	8.0	266

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55	At the leading edge of three-dimensional cell migration. Journal of Cell Science, 2012, 125, 5917-5926.	2.0	259
56	Matrix Control of Stem Cell Fate. Cell, 2006, 126, 645-647.	28.9	258
57	Single subunit chimeric integrins as mimics and inhibitors of endogenous integrin functions in receptor localization, cell spreading and migration, and matrix assembly.. Journal of Cell Biology, 1994, 126, 1287-1298.	5.2	228
58	Mechanism of the decrease in the major cell surface protein of chick embryo fibroblasts after transformation. Cell, 1977, 11, 957-969.	28.9	221
59	Inhibition of binding of fibronectin to matrix assembly sites by anti-integrin (alpha 5 beta 1) antibodies.. Journal of Cell Biology, 1990, 111, 699-708.	5.2	220
60	Fibronectin and Integrins in Cell Adhesion, Signaling, and Morphogenesis. Annals of the New York Academy of Sciences, 1998, 857, 119-129.	3.8	216
61	New dimensions in cell migration. Nature Reviews Molecular Cell Biology, 2012, 13, 743-747.	37.0	212
62	The extracellular matrix in development. Development (Cambridge), 2020, 147, .	2.5	210
63	Cell and fibronectin dynamics during branching morphogenesis. Journal of Cell Science, 2006, 119, 3376-3384.	2.0	209
64	Mechanosensing via cell-matrix adhesions in 3D microenvironments. Experimental Cell Research, 2016, 343, 60-66.	2.6	208
65	Cell-matrix adhesions in 3D. Matrix Biology, 2011, 30, 363-368.	3.6	200
66	Dickkopf-1 (DKK1) reveals that fibronectin is a major target of Wnt signaling in branching morphogenesis of the mouse embryonic lung. Developmental Biology, 2005, 277, 316-331.	2.0	193
67	Characterization of a major fibroblast cell surface glycoprotein. Biochemistry, 1977, 16, 5552-5559.	2.5	182
68	Oncogenic inhibition by a deleted in liver cancer gene requires cooperation between tensin binding and Rho-specific GTPase-activating protein activities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9012-9017.	7.1	174
69	Vinexin: A Novel Vinculin-binding Protein with Multiple SH3 Domains Enhances Actin Cytoskeletal Organization. Journal of Cell Biology, 1999, 144, 59-69.	5.2	171
70	Dimensions in cell migration. Current Opinion in Cell Biology, 2013, 25, 642-649.	5.4	171
71	Differentiation of human bone marrow-derived cells into buccal epithelial cells in vivo: a molecular analytical study. Lancet, The, 2003, 361, 1084-1088.	13.7	169
72	uPARAP/Endo180 is essential for cellular uptake of collagen and promotes fibroblast collagen adhesion. Journal of Cell Biology, 2003, 160, 1009-1015.	5.2	166

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73	ECM-modulated cellular dynamics as a driving force for tissue morphogenesis. Current Opinion in Genetics and Development, 2013, 23, 408-414.	3.3	166
74	Recent advances in research on fibronectin and other cell attachment proteins. Journal of Cellular Biochemistry, 1985, 28, 79-97.	2.6	163
75	Co-localization of cortactin and phosphotyrosine identifies active invadopodia in human breast cancer cells. Experimental Cell Research, 2006, 312, 1240-1253.	2.6	157
76	Isolation and biological characterization of active fragments of the adhesive glycoprotein fibronectin. Cell, 1979, 18, 1043-1051.	28.9	156
77	Defining the Topology of Integrin Î±5Î²1-Fibronectin Interactions Using Inhibitory Anti-Î±5 and Anti-Î²1 Monoclonal Antibodies. Journal of Biological Chemistry, 1997, 272, 17283-17292.	3.4	150
78	Requirement for the Synergy Site for Cell Adhesion to Fibronectin Depends on the Activation State of Integrin Î±5Î²1. Journal of Biological Chemistry, 1995, 270, 21612-21618.	3.4	148
79	The influence of an adhesive cell surface protein on chondrogenic expression in vitro. Experimental Cell Research, 1979, 121, 411-415.	2.6	146
80	Solution structure and dynamics of linked cell attachment modules of mouse fibronectin containing the RGD and synergy regions: comparison with the human fibronectin crystal structure 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1998, 277, 663-682.	4.2	146
81	In vivo analyses of integrin beta 1 subunit function in fibronectin matrix assembly.. Journal of Cell Biology, 1990, 110, 1813-1823.	5.2	143
82	Integrin-dependent signal transduction. Journal of Cellular Biochemistry, 1996, 61, 543-553.	2.6	139
83	Durotaxis by Human Cancer Cells. Biophysical Journal, 2019, 116, 670-683.	0.5	139
84	Btbd7 Regulates Epithelial Cell Dynamics and Branching Morphogenesis. Science, 2010, 329, 562-565.	12.6	136
85	Cellular fibronectin promotes adrenergic differentiation of quail neural crest cells in vitro. Experimental Cell Research, 1981, 133, 285-295.	2.6	135
86	Chemokine stimulation of human peripheral blood T lymphocytes induces rapid dephosphorylation of ERM proteins, which facilitates loss of microvilli and polarization. Blood, 2003, 102, 3890-3899.	1.4	135
87	TRANSFORMATION-SENSITIVE CELL SURFACE PROTEIN: ISOLATION, CHARACTERIZATION, AND ROLE IN CELLULAR MORPHOLOGY AND ADHESION. Annals of the New York Academy of Sciences, 1978, 312, 256-277.	3.8	133
88	Self-Organization and Branching Morphogenesis of Primary Salivary Epithelial Cells. Tissue Engineering, 2007, 13, 721-735.	4.6	131
89	Basement Membranes in Development and Disease. Current Topics in Developmental Biology, 2018, 130, 143-191.	2.2	131
90	Local and global dynamics of the basement membrane during branching morphogenesis require protease activity and actomyosin contractility. Developmental Biology, 2014, 394, 197-205.	2.0	126

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91	Phosphatases in cellâ€“matrix adhesion and migration. Nature Reviews Molecular Cell Biology, 2003, 4, 700-711.	37.0	121
92	A specific Î±5Î²1-integrin conformation promotes directional integrin translocation and fibronectin matrix formation. Journal of Cell Science, 2005, 118, 291-300.	2.0	115
93	Multiple mechanisms of 3D migration: the origins of plasticity. Current Opinion in Cell Biology, 2016, 42, 7-12.	5.4	114
94	Fibronectins: structure, functions and receptors. Current Opinion in Cell Biology, 1989, 1, 956-963.	5.4	112
95	Three-dimensional microenvironments modulate fibroblast signaling responsesâ˜†. Advanced Drug Delivery Reviews, 2007, 59, 1293-1298.	13.7	112
96	The 140-kDa fibronectin receptor complex is required for mesodermal cell adhesion during gastrulation in the amphibian Pleurodeles waltlii. Developmental Biology, 1988, 126, 182-194.	2.0	110
97	Peptide inhibitors of fibronectin, laminin, and other adhesion molecules: Unique and shared features. Journal of Cellular Physiology, 1987, 130, 21-28.	4.1	109
98	p190-B, a New Member of the Rho GAP Family, and Rho Are Induced to Cluster after Integrin Cross-linking. Journal of Biological Chemistry, 1995, 270, 30919-30926.	3.4	108
99	Dual Stimulation of Ras/Mitogen-Activated Protein Kinase and Rhoa by Cell Adhesion to Fibronectin Supports Growth Factorâ€“Stimulated Cell Cycle Progression. Journal of Cell Biology, 2000, 151, 1413-1422.	5.2	107
100	Dense fibrillar collagen is a potent inducer of invadopodia via a specific signaling network. Journal of Cell Biology, 2015, 208, 331-350.	5.2	107
101	Laminin-10/11 and Fibronectin Differentially Prevent Apoptosis Induced by Serum Removal via Phosphatidylinositol 3-Kinase/Akt- and MEK1/ERK-dependent Pathways. Journal of Biological Chemistry, 2002, 277, 19922-19928.	3.4	106
102	ECM Degradation Assays for Analyzing Local Cell Invasion. Methods in Molecular Biology, 2009, 522, 211-219.	0.9	105
103	Microenvironmental control of cell migration: Myosin IIA is required for efficient migration in fibrillar environments through control of cell adhesion dynamics. Journal of Cell Science, 2012, 125, 2244-56.	2.0	105
104	Glycolipids: Receptors for fibronectin?. Journal of Cellular Physiology, 1981, 109, 343-351.	4.1	104
105	Integrin Î±vÎ²5-dependent Serine Phosphorylation of Paxillin in Cultured Human Macrophages Adherent to Vitronectin. Journal of Biological Chemistry, 1996, 271, 11016-11022.	3.4	104
106	The Growth and Morphological Behavior of Salivary Epithelial Cells on Matrix Protein-Coated Biodegradable Substrata. Tissue Engineering, 2000, 6, 209-216.	4.6	103
107	Direct detection of antigens in sodium dodecyl sulfate-polyacrylamide gels. Analytical Biochemistry, 1977, 78, 483-490.	2.4	102
108	Enhanced cellular fibronectin accumulation in chondrocytes treated with vitamin A. Cell, 1979, 17, 821-826.	28.9	102

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109	Amino acid sequence specificities of an adhesive recognition signal. Journal of Cellular Biochemistry, 1985, 28, 99-104.	2.6	102
110	Role of Fibronectin in Adhesion, Migration, and Metastasis. Cancer Investigation, 1989, 7, 373-393.	1.3	99
111	Patterned cell and matrix dynamics in branching morphogenesis. Journal of Cell Biology, 2017, 216, 559-570.	5.2	98
112	Exogenous gangliosides enhance the interaction of fibronectin with ganglioside-deficient cells. Experimental Cell Research, 1983, 143, 295-302.	2.6	95
113	Characterization of a membrane-associated glycoprotein complex implicated in cell adhesion to fibronectin. Journal of Cellular Biochemistry, 1985, 28, 307-318.	2.6	93
114	Peptides containing the cell-attachment recognition signal Arg-Gly-Asp prevent gastrulation in Drosophila embryos. Nature, 1987, 325, 348-350.	27.8	93
115	Src-Dependent Phosphorylation of ASAP1 Regulates Podosomes. Molecular and Cellular Biology, 2007, 27, 8271-8283.	2.3	93
116	Integrin signaling. Matrix Biology, 1997, 16, 137-141.	3.6	91
117	Dynamic cellâ€“matrix interactions modulate microbial biofilm and tissue 3D microenvironments. Current Opinion in Cell Biology, 2016, 42, 102-112.	5.4	90
118	Mobility and distribution of a cell surface glycoprotein and its interaction with other membrane components. Proceedings of the National Academy of Sciences of the United States of America, 1977, 74, 2909-2913.	7.1	89
119	Role of PI 3-kinase and PIP3 in submandibular gland branching morphogenesis. Developmental Biology, 2003, 255, 178-191.	2.0	89
120	Activating the nuclear piston mechanism of 3D migration in tumor cells. Journal of Cell Biology, 2017, 216, 93-100.	5.2	86
121	The structure of fibronectin and its role in cellular adhesion. Journal of Supramolecular Structure and Cellular Biochemistry, 1981, 16, 345-358.	1.4	85
122	Cell surface protein decreases microvilli and ruffles on transformed mouse and chick cells. Cell, 1976, 9, 241-245.	28.9	84
123	Vitronectin exists in two structurally and functionally distinct forms in human plasma. Biochimica Et Biophysica Acta - General Subjects, 1989, 990, 101-108.	2.4	83
124	The KrÃ¼ppel-like Factor Epiprofin Is Expressed by Epithelium of Developing Teeth, Hair Follicles, and Limb Buds and Promotes Cell Proliferation. Journal of Biological Chemistry, 2004, 279, 626-634.	3.4	82
125	Direct visualization of protease activity on cells migrating in three-dimensions. Matrix Biology, 2009, 28, 3-10.	3.6	82
126	Specific Î²1 Integrin Site Selectively Regulates Akt/Protein Kinase B Signaling via Local Activation of Protein Phosphatase 2A. Journal of Biological Chemistry, 2003, 278, 18671-18681.	3.4	81

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127	An extracellular-matrix-specific GEFâ€“GAP interaction regulates Rho GTPase crosstalk for 3D collagen migration. Nature Cell Biology, 2014, 16, 909-917.	10.3	79
128	Fibroblasts Lead the Way: A Unified View of 3D Cell Motility. Trends in Cell Biology, 2015, 25, 666-674.	7.9	79
129	Divergent Signaling Pathways Link Focal Adhesion Kinase to Mitogen-activated Protein Kinase Cascades. Journal of Biological Chemistry, 1999, 274, 30738-30746.	3.4	77
130	Targeting Membrane-localized Focal Adhesion Kinase to Focal Adhesions. Journal of Biological Chemistry, 2003, 278, 29115-29120.	3.4	77
131	Fibronectin and Other Cell Interactive Glycoproteins. , 1991, , 111-146.		77
132	Anti-integrin antibodies induce type IV collagenase expression in keratinocytes. Journal of Cellular Physiology, 1993, 157, 190-200.	4.1	76
133	Dynamics of Salivary Gland Morphogenesis. Journal of Dental Research, 2011, 90, 1070-1077.	5.2	76
134	Isolation and immunological characterization of a glucose-regulated fibroblast cell surface glycoprotein and its nonglycosylated precursor. Cell, 1978, 13, 139-150.	28.9	73
135	Extracellular matrix dynamics in cell migration, invasion and tissue morphogenesis. International Journal of Experimental Pathology, 2019, 100, 144-152.	1.3	72
136	Induction of T cell adhesion to extracellular matrix or endothelial cell ligands by soluble or matrix-bound interleukin-7. European Journal of Immunology, 1997, 27, 2562-2570.	2.9	68
137	The synthesis, turnover, and artificial restoration of a major cell surface glycoprotein. Cell, 1975, 5, 75-81.	28.9	67
138	Budding epithelial morphogenesis driven by cell-matrix versus cell-cell adhesion. Cell, 2021, 184, 3702-3716.e30.	28.9	67
139	Integrin Signaling: Cytoskeletal Complexes, MAP Kinase Activation, and Regulation of Gene Expression. Cell Adhesion and Communication, 1998, 6, 217-224.	1.7	66
140	Extracellular Matrix Protein Anosmin Promotes Neural Crest Formation and Regulates FGF, BMP, and WNT Activities. Developmental Cell, 2012, 23, 305-316.	7.0	66
141	Fibronectin peptides in cell migration and wound repair. Journal of Clinical Investigation, 2000, 105, 1507-1509.	8.2	66
142	Modulation of MMP-2 (gelatinase A) and MMP-9 (gelatinase B) by interferon-Î³ in a human salivary gland cell line. Journal of Cellular Physiology, 1997, 171, 117-124.	4.1	65
143	Fibronectin and Other Structural Proteins. , 1981, , 95-114.		64
144	Occurrence of Fibronectin on the Primary Mesenchyme Cell Surface During Migration in the Sea Urchin Embryo. Differentiation, 1982, 22, 120-124.	1.9	63

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145	CrkI adapter protein modulates cell migration and invasion in glioblastoma. Cancer Research, 2003, 63, 2335-7.	0.9	62
146	Altered processing of integrin receptors during keratinocyte activation*1. Experimental Cell Research, 1991, 195, 315-322.	2.6	61
147	Synthetic peptides that mimic the adhesive recognition signal of fibronectin: Differential effects on cell-cell and cell-substratum adhesion in embryonic chick cells. Developmental Biology, 1987, 123, 411-420.	2.0	60
148	MYPT1 regulates contractility and microtubule acetylation to modulate integrin adhesions and matrix assembly. Nature Communications, 2014, 5, 3510.	12.8	60
149	Characterization of a novel transformation-sensitive heat-shock protein (HSP47) that binds to collagen. Biochemical and Biophysical Research Communications, 1988, 153, 428-434.	2.1	59
150	JSAP1/JIP3 Cooperates with Focal Adhesion Kinase to Regulate c-Jun N-terminal Kinase and Cell Migration. Journal of Biological Chemistry, 2005, 280, 37772-37781.	3.4	59
151	3D mesenchymal cell migration is driven by anterior cellular contraction that generates an extracellular matrix prestrain. Developmental Cell, 2021, 56, 826-841.e4.	7.0	59
152	Tunicamycin-induced alterations in the synthesis of sulfated proteoglycans and cell surface morphology in the chick embryo fibroblast. Experimental Cell Research, 1979, 118, 245-252.	2.6	58
153	Fluorescent gangliosides as probes for the retention and organization of fibronectin by ganglioside-deficient mouse cells.. Journal of Cell Biology, 1985, 100, 721-726.	5.2	58
154	Function and Receptor Specificity of a Minimal 20 Kilodalton Cell Adhesive Fragment of Fibronectin. Cell Adhesion and Communication, 1995, 3, 13-25.	1.7	57
155	Alternatively Spliced Juxtamembrane Domain of a Tyrosine Kinase Receptor Is a Multifunctional Regulatory Site. Journal of Biological Chemistry, 1995, 270, 507-510.	3.4	57
156	Effector domain mutants of Rho dissociate cytoskeletal changes from nuclear signaling and cellular transformation. Oncogene, 1998, 17, 991-998.	5.9	57
157	Tyrosine phosphorylation of the CrkII adaptor protein modulates cell migration. Journal of Cell Science, 2003, 116, 3145-3155.	2.0	57
158	Dynamic membrane remodeling at invadopodia differentiates invadopodia from podosomes. European Journal of Cell Biology, 2011, 90, 172-180.	3.6	55
159	Fibronectin Domains and Receptors. , 1989, , 47-121.		55
160	Ubiquitin ligases: guardians of mammalian development. Nature Reviews Molecular Cell Biology, 2022, 23, 350-367.	37.0	55
161	Reâ€engineering the Functions of a Terminally Differentiated Epithelial Cell in Vivo. Annals of the New York Academy of Sciences, 1999, 875, 294-300.	3.8	54
162	Fibronectin. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 59, 1-57.	1.3	54

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163	Regulation of cell adhesion and migration by cell-derived matrices. Experimental Cell Research, 2013, 319, 2434-2439.	2.6	53
164	Integrin clustering induces kinectin accumulation. Journal of Cell Science, 2002, 115, 2031-2040.	2.0	53
165	Cellâ€“3D matrix interactions: recent advances and opportunities. Trends in Cell Biology, 2022, 32, 883-895.	7.9	51
166	Mechanisms for Macrophage-Mediated HIV-1 Induction. Journal of Immunology, 2004, 173, 6735-6744.	0.8	50
167	Tensin 2 modulates cell contractility in 3D collagen gels through the RhoGAP DLC1. Journal of Cellular Biochemistry, 2010, 109, 808-817.	2.6	50
168	Absence of Tight Junction Formation in an Allogeneic Graft Cell Line Used for Developing an Engineered Artificial Salivary Gland. Tissue Engineering, 2002, 8, 871-878.	4.6	49
169	Cellâ€“Matrix Adhesions on Poly(vinyl alcohol) Hydrogels. Tissue Engineering, 2003, 9, 525-533.	4.6	49
170	Basement Membrane Regulates Fibronectin Organization Using Sliding Focal Adhesions Driven by a Contractile Winch. Developmental Cell, 2020, 52, 631-646.e4.	7.0	49
171	Cytochalasin B: Effects on membrane ruffling, growth cone and microspike activity, and microfilament structure not due to altered glucose transport. Developmental Biology, 1973, 31, 413-420.	2.0	48
172	Immunological Characterization of Human Vitronectin and Its Binding to Glycosaminoglycans1. Journal of Biochemistry, 1986, 100, 1343-1351.	1.7	48
173	Survival in three dimensions. Nature, 2002, 419, 790-791.	27.8	47
174	Dual function of focal adhesion kinase in regulating integrinâ€induced MMPâ€2 and MMPâ€9 release by human T lymphoid cells. FASEB Journal, 2005, 19, 1875-1877.	0.5	46
175	Integrins in morphogenesis and signaling. Biochimie, 1997, 79, 467-476.	2.6	45
176	Integrins and Matrix Molecules in Salivary Gland Cell Adhesion, Signaling, and Gene Expression. Annals of the New York Academy of Sciences, 1998, 842, 42-48.	3.8	45
177	Integrin clustering induces kinectin accumulation. Journal of Cell Science, 2002, 115, 2031-40.	2.0	45
178	The distribution of fibronectin in attachment sites of chick fibroblasts. Experimental Cell Research, 1980, 130, 477-481.	2.6	44
179	Regionâ€specific epithelial cell dynamics during branching morphogenesis. Developmental Dynamics, 2013, 242, 1066-1077.	1.8	44
180	Vinexin Forms a Signaling Complex with Sos and Modulates Epidermal Growth Factor-induced c-Jun N-terminal Kinase/Stress-activated Protein Kinase Activities. Journal of Biological Chemistry, 1999, 274, 35933-35937.	3.4	43

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181	Integrin Î±Î²1, Î±vÎ², Î±6Î² effectors p130Cas, Src and talin regulate carcinoma invasion and chemoresistance. Biochemical and Biophysical Research Communications, 2011, 406, 171-176.	2.1	43
182	The adhesive glycoprotein laminin is an agglutinin. Journal of Cellular Physiology, 1983, 114, 257-262.	4.1	42
183	Salivary Gland Branching Morphogenesis â€" Recent Progress and Future Opportunities. International Journal of Oral Science, 2010, 2, 117-126.	8.6	42
184	Increased Expression of Î±4Î²1 and Î±5Î²1 Integrins on HTLV-I-Infected Lymphocytes. Virology, 1993, 197, 778-781.	2.4	41
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