

# Martin J Humphries

## List of Publications by Year in descending order

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227  
papers

19,745  
citations

8159

76  
h-index

13338

130  
g-index

308  
all docs

308  
docs citations

308  
times ranked

19470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrin ligands at a glance. <i>Journal of Cell Science</i> , 2006, 119, 3901-3903.	1.2	1,393
2	Integrin Structure, Activation, and Interactions. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a004994-a004994.	2.3	845
3	Vinculin controls focal adhesion formation by direct interactions with talin and actin. <i>Journal of Cell Biology</i> , 2007, 179, 1043-1057.	2.3	778
4	Demonstration of catch bonds between an integrin and its ligand. <i>Journal of Cell Biology</i> , 2009, 185, 1275-1284.	2.3	600
5	Synergistic control of cell adhesion by integrins and syndecans. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 957-969.	16.1	503
6	Definition of a consensus integrin adhesome and its dynamics during adhesion complex assembly and disassembly. <i>Nature Cell Biology</i> , 2015, 17, 1577-1587.	4.6	442
7	Identification of an alternatively spliced site in human plasma fibronectin that mediates cell type-specific adhesion.. <i>Journal of Cell Biology</i> , 1986, 103, 2637-2647.	2.3	435
8	Rab25 Associates with $\alpha 5 \beta 1$ Integrin to Promote Invasive Migration in 3D Microenvironments. <i>Developmental Cell</i> , 2007, 13, 496-510.	3.1	369
9	PKC $\zeta$ regulates $\beta 1$ integrin-dependent cell motility through association and control of integrin traffic. <i>EMBO Journal</i> , 1999, 18, 3909-3923.	3.5	310
10	Regulation of Integrin $\alpha 5 \beta 1$ -Fibronectin Interactions by Divalent Cations. <i>Journal of Biological Chemistry</i> , 1995, 270, 26270-26277.	1.6	301
11	Linking integrin conformation to function. <i>Journal of Cell Science</i> , 2009, 122, 165-170.	1.2	282
12	Fibronectin Regulates Latent Transforming Growth Factor- $\beta 2$ (TGF $\beta 2$ ) by Controlling Matrix Assembly of Latent TGF $\beta 2$ -binding Protein-1. <i>Journal of Biological Chemistry</i> , 2005, 280, 18871-18880.	1.6	269
13	Heparin-II Domain of Fibronectin Is a Vascular Endothelial Growth Factor-Binding Domain. <i>Circulation Research</i> , 2006, 99, 853-860.	2.0	250
14	Neuropilin-1/GIPC1 Signaling Regulates $\alpha 5 \beta 1$ Integrin Traffic and Function in Endothelial Cells. <i>PLoS Biology</i> , 2009, 7, e1000025.	2.6	246
15	Signal transduction via integrin adhesion complexes. <i>Current Opinion in Cell Biology</i> , 2019, 56, 14-21.	2.6	228
16	Syndecan-4-dependent Rac1 regulation determines directional migration in response to the extracellular matrix. <i>Journal of Cell Biology</i> , 2007, 177, 527-538.	2.3	221
17	Proteomic Analysis of Integrin-Associated Complexes Identifies RCC2 as a Dual Regulator of Rac1 and Arf6. <i>Science Signaling</i> , 2009, 2, ra51.	1.6	220
18	Integrin activation: the link between ligand binding and signal transduction. <i>Current Opinion in Cell Biology</i> , 1996, 8, 632-640.	2.6	207

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19	The Cell-binding Domain of Intimin from Enteropathogenic Escherichia coli Binds to $\alpha 5 \beta 1$ Integrins. <i>Journal of Biological Chemistry</i> , 1996, 271, 20359-20364.	1.6	188
20	SHARPIN is an endogenous inhibitor of $\alpha 5 \beta 1$ -integrin activation. <i>Nature Cell Biology</i> , 2011, 13, 1315-1324.	4.6	184
21	Function of glycoprotein glycans. <i>Trends in Biochemical Sciences</i> , 1985, 10, 78-82.	3.7	183
22	Integrin-specific signaling pathways controlling focal adhesion formation and cell migration. <i>Journal of Cell Biology</i> , 2003, 161, 155-167.	2.3	181
23	Cell Adhesion to Fibrillin-1 Molecules and Microfibrils Is Mediated by $\alpha 5 \beta 1$ and $\alpha v \beta 3$ Integrins. <i>Journal of Biological Chemistry</i> , 2003, 278, 34605-34616.	1.6	168
24	The integrin adhesome network at a glance. <i>Journal of Cell Science</i> , 2016, 129, 4159-4163.	1.2	168
25	Recent advances in research on fibronectin and other cell attachment proteins. <i>Journal of Cellular Biochemistry</i> , 1985, 28, 79-97.	1.2	163
26	Global Analysis Reveals the Complexity of the Human Glomerular Extracellular Matrix. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 939-951.	3.0	158
27	Distinct biophysical mechanisms of focal adhesion kinase mechanoactivation by different extracellular matrix proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19372-19377.	3.3	155
28	Anti-integrin monoclonal antibodies. <i>Journal of Cell Science</i> , 2009, 122, 4009-4011.	1.2	153
29	Defining the Topology of Integrin $\alpha 5 \beta 1$ -Fibronectin Interactions Using Inhibitory Anti- $\alpha 5$ and Anti- $\beta 1$ Monoclonal Antibodies. <i>Journal of Biological Chemistry</i> , 1997, 272, 17283-17292.	1.6	150
30	Defining the phospho-adhesome through the phosphoproteomic analysis of integrin signalling. <i>Nature Communications</i> , 2015, 6, 6265.	5.8	150
31	The Integrin $\alpha 1$ A-domain Is a Ligand Binding Site for Collagens and Laminin. <i>Journal of Biological Chemistry</i> , 1997, 272, 12311-12317.	1.6	147
32	Identification of a novel anti-integrin monoclonal antibody that recognises a ligand-induced binding site epitope on the $\beta 1$ subunit. <i>FEBS Letters</i> , 1995, 363, 118-122.	1.3	140
33	Defining the extracellular matrix using proteomics. <i>International Journal of Experimental Pathology</i> , 2013, 94, 75-92.	0.6	137
34	Cytoplasmic interactions of syndecan-4 orchestrate adhesion receptor and growth factor receptor signalling. <i>Biochemical Journal</i> , 2002, 368, 1-15.	1.7	131
35	Cyclic Mechanical Reinforcement of Integrin-Ligand Interactions. <i>Molecular Cell</i> , 2013, 49, 1060-1068.	4.5	131
36	Regulation of $\alpha 5 \beta 1$ integrin conformation and function by urokinase receptor binding. <i>Journal of Cell Biology</i> , 2005, 168, 501-511.	2.3	125

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37	Integrin structure: heady advances in ligand binding, but activation still makes the knees wobble. Trends in Biochemical Sciences, 2003, 28, 313-320.	3.7	123
38	The Inhibitory Anti- $\alpha$ 5 $\beta$ 1 Integrin Monoclonal Antibody 13 Recognizes an Epitope That Is Attenuated by Ligand Occupancy. Journal of Biological Chemistry, 1996, 271, 20365-20374.	1.6	121
39	Requirement for Rho in Integrin Signalling. Cell Adhesion and Communication, 1997, 4, 387-398.	1.7	120
40	Conformational Changes in the Integrin $\alpha$ 5 $\beta$ 1 Domain Provide a Mechanism for Signal Transduction via Hybrid Domain Movement. Journal of Biological Chemistry, 2003, 278, 17028-17035.	1.6	119
41	RCP-driven $\alpha$ 5 $\beta$ 1 recycling suppresses Rac and promotes RhoA activity via the RacGAP1/IQGAP1 complex. Journal of Cell Biology, 2013, 202, 917-935.	2.3	119
42	Integrin Activation Involves a Conformational Change in the $\alpha$ 5 Helix of the $\beta$ 1 Subunit A-domain. Journal of Biological Chemistry, 2002, 277, 19800-19805.	1.6	118
43	Fibronectin-Tissue Transglutaminase Matrix Rescues RGD-impaired Cell Adhesion through Syndecan-4 and $\alpha$ 5 $\beta$ 1 Integrin Co-signaling. Journal of Biological Chemistry, 2008, 283, 20937-20947.	1.6	117
44	A specific $\alpha$ 5 $\beta$ 1-integrin conformation promotes directional integrin translocation and fibronectin matrix formation. Journal of Cell Science, 2005, 118, 291-300.	1.2	115
45	A Syndecan-4 Hair Trigger Initiates Wound Healing through Caveolin- and RhoG-Regulated Integrin Endocytosis. Developmental Cell, 2011, 21, 681-693.	3.1	115
46	Cell adhesion is regulated by CDK1 during the cell cycle. Journal of Cell Biology, 2018, 217, 3203-3218.	2.3	114
47	Conformational equilibria and intrinsic affinities define integrin activation. EMBO Journal, 2017, 36, 629-645.	3.5	112
48	Syndecan-4 Phosphorylation Is a Control Point for Integrin Recycling. Developmental Cell, 2013, 24, 472-485.	3.1	111
49	Relating conformation to function in integrin $\alpha$ 5 $\beta$ 1. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3872-81.	3.3	110
50	Proteomic definitions of basement membrane composition in health and disease. Matrix Biology, 2017, 57-58, 12-28.	1.5	110
51	Reticular adhesions are a distinct class of cell-matrix adhesions that mediate attachment during mitosis. Nature Cell Biology, 2018, 20, 1290-1302.	4.6	110
52	A structure prediction for the ligand-binding region of the integrin $\beta$ 1 subunit: evidence for the presence of a von Willebrand factor A domain. FEBS Letters, 1997, 400, 297-303.	1.3	108
53	p190RhoGAP is the convergence point of adhesion signals from $\alpha$ 5 $\beta$ 1 integrin and syndecan-4. Journal of Cell Biology, 2008, 181, 1013-1026.	2.3	105
54	Site-Directed Perturbation of Protein Kinase C- Integrin Interaction Blocks Carcinoma Cell Chemotaxis. Molecular and Cellular Biology, 2002, 22, 5897-5911.	1.1	103

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55	Connections between the cell cycle, cell adhesion and the cytoskeleton. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180227.	1.8	102
56	Emerging properties of adhesion complexes: what are they and what do they do?. <i>Trends in Cell Biology</i> , 2015, 25, 388-397.	3.6	101
57	Molecular Basis for the Dynamic Strength of the Integrin $\alpha 4 \beta 1$ /VCAM-1 Interaction. <i>Biophysical Journal</i> , 2004, 87, 3470-3478.	0.2	100
58	Role of Fibronectin in Adhesion, Migration, and Metastasis. <i>Cancer Investigation</i> , 1989, 7, 373-393.	0.6	99
59	Focal adhesions are sites of integrin extension. <i>Journal of Cell Biology</i> , 2010, 188, 891-903.	2.3	99
60	Regulation of integrin function: evidence that bivalent-cation-induced conformational changes lead to the unmasking of ligand-binding sites within integrin $\alpha 5 \beta 1$ . <i>Biochemical Journal</i> , 1998, 331, 821-828.	1.7	96
61	Giving off mixed signalsâ€”Distinct functions of $\alpha 5 \beta 1$ and $\alpha v \beta 3$ integrins in regulating cell behaviour. <i>IUBMB Life</i> , 2009, 61, 731-738.	1.5	96
62	The Importance of Podocyte Adhesion for a Healthy Glomerulus. <i>Frontiers in Endocrinology</i> , 2014, 5, 160.	1.5	96
63	Integrin antagonists. <i>Cellular and Molecular Life Sciences</i> , 1999, 56, 427-441.	2.4	93
64	Structure of an Integrin-Ligand Complex Deduced from Solution X-ray Scattering and Site-directed Mutagenesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 39993-39999.	1.6	93
65	Regulation of integrin function through conformational complexity: not simply a knee-jerk reaction?. <i>Current Opinion in Cell Biology</i> , 2004, 16, 544-551.	2.6	92
66	Quantification of integrin receptor agonism by fluorescence lifetime imaging. <i>Journal of Cell Science</i> , 2008, 121, 265-271.	1.2	90
67	Molecular Basis of Ligand Recognition by Integrin $\alpha 5 \beta 1$ . <i>Journal of Biological Chemistry</i> , 2000, 275, 20324-20336.	1.6	89
68	Molecular Interplay between Endostatin, Integrins, and Heparan Sulfate. <i>Journal of Biological Chemistry</i> , 2009, 284, 22029-22040.	1.6	89
69	The alpha 4 integrin chain is a ligand for alpha 4 beta 7 and alpha 4 beta 1.. <i>Journal of Experimental Medicine</i> , 1995, 182, 345-355.	4.2	88
70	Integrin adhesion receptors: structure, function and implications for biomedicine. <i>Trends in Molecular Medicine</i> , 1996, 2, 304-313.	2.6	88
71	Glomerular Cell Cross-Talk Influences Composition and Assembly of Extracellular Matrix. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 953-966.	3.0	88
72	Modulation of FAK and Src adhesion signaling occurs independently of adhesion complex composition. <i>Journal of Cell Biology</i> , 2016, 212, 349-364.	2.3	85

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73	Cell Adhesion Assays. <i>Methods in Molecular Biology</i> , 2009, 522, 203-210.	0.4	84
74	Quantitative proteomics and single-nucleus transcriptomics of the sinus node elucidates the foundation of cardiac pacemaking. <i>Nature Communications</i> , 2019, 10, 2889.	5.8	84
75	Role of ADMIDAS Cation-binding Site in Ligand Recognition by Integrin $\alpha 5 \beta 1$ . <i>Journal of Biological Chemistry</i> , 2003, 278, 51622-51629.	1.6	83
76	$\alpha 4$ Integrin Binding Interfaces on VCAM-1 and MAdCAM-1. <i>Journal of Biological Chemistry</i> , 1997, 272, 19429-19440.	1.6	82
77	Cell adhesion to fibrillin-1: identification of an Arg-Gly-Asp-dependent synergy region and a heparin-binding site that regulates focal adhesion formation. <i>Journal of Cell Science</i> , 2007, 120, 1383-1392.	1.2	81
78	Stimulation of DNA synthesis by cathepsin D digests of fibronectin. <i>Nature</i> , 1983, 305, 811-813.	13.7	79
79	A microenvironment-inspired synthetic three-dimensional model for pancreatic ductal adenocarcinoma organoids. <i>Nature Materials</i> , 2022, 21, 110-119.	13.3	79
80	Divalent cations regulate the folding and activation status of integrins during their intracellular trafficking. <i>Journal of Cell Science</i> , 2011, 124, 1672-1680.	1.2	78
81	$\alpha v \beta 3$ integrin spatially regulates VASP and RIAM2 to control adhesion dynamics and migration. <i>Journal of Cell Biology</i> , 2010, 189, 369-383.	2.3	77
82	Elucidation of the Structural Features of Heparan Sulfate Important for Interaction with the Hep-2 Domain of Fibronectin. <i>Journal of Biological Chemistry</i> , 2000, 275, 4599-4606.	1.6	76
83	Mechanosensitivity of integrin adhesion complexes: role of the consensus adhesome. <i>Experimental Cell Research</i> , 2016, 343, 7-13.	1.2	76
84	Foot-and-mouth disease virus is a ligand for the high-affinity binding conformation of integrin $\alpha 5 \beta 1$ : influence of the leucine residue within the RGD motif on selectivity of integrin binding. <i>Microbiology (United Kingdom)</i> , 2000, 81, 1383-1391.	0.7	76
85	Integrin $\alpha 5 \beta 1$ and ADAM-17 Interact in Vitro and Co-localize in Migrating HeLa Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 22377-22386.	1.6	74
86	PPFIA1 drives active $\alpha 5 \beta 1$ integrin recycling and controls fibronectin fibrillogenesis and vascular morphogenesis. <i>Nature Communications</i> , 2016, 7, 13546.	5.8	72
87	Mapping functional residues onto integrin crystal structures. <i>Current Opinion in Structural Biology</i> , 2003, 13, 236-243.	2.6	71
88	Activation of beta 1 but not beta 3 integrin increases cell traction forces. <i>FEBS Letters</i> , 2013, 587, 763-769.	1.3	71
89	A proteomic approach reveals integrin activation state-dependent control of microtubule cortical targeting. <i>Nature Communications</i> , 2015, 6, 6135.	5.8	71
90	$\beta 1$ -Integrin Cytoplasmic Subdomains Involved in Dominant Negative Function. <i>Molecular Biology of the Cell</i> , 1998, 9, 715-731.	0.9	70

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91	Rac1 is deactivated at integrin activation sites via an IQGAP1/filamin-A/RacGAP1 pathway. <i>Journal of Cell Science</i> , 2013, 126, 4121-35.	1.2	68
92	Proteomic analysis of extracellular matrix from the hepatic stellate cell line LX-2 identifies CYR61 and Wnt-5a as novel constituents of fibrotic liver. <i>Journal of Proteome Research</i> , 2012, 11, 4052-4064.	1.8	66
93	Fibronectin supports neurite outgrowth and axonal regeneration of adult brain neurons in vitro. <i>Brain Research</i> , 2012, 1453, 8-16.	1.1	65
94	Identification of heparin as a ligand for the A-domain of Plasmodium falciparum thrombospondin-related adhesion protein. <i>Molecular and Biochemical Parasitology</i> , 1999, 100, 111-124.	0.5	61
95	Dynamic aspects of adhesion receptor function ? integrins both twist and shout. <i>BioEssays</i> , 1993, 15, 391-397.	1.2	60
96	Collagen can modulate cell interactions with fibronectin.. <i>Journal of Cell Biology</i> , 1985, 101, 386-394.	2.3	59
97	The A-Domain of Integrin alpha2 Binds Specifically to a Range of Collagens but is not a General Receptor for the Collagenous Motif. <i>FEBS Journal</i> , 1996, 241, 732-739.	0.2	59
98	E-cadherin is a ligand for integrin $\alpha 2 \beta 1$ . <i>Matrix Biology</i> , 2002, 21, 525-532.	1.5	59
99	Molecular Basis of Ligand Recognition by Integrin $\alpha 5 \beta 1$ . <i>Journal of Biological Chemistry</i> , 2000, 275, 20337-20345.	1.6	57
100	An unraveling tale of how integrins are activated from within. <i>Trends in Pharmacological Sciences</i> , 2003, 24, 192-197.	4.0	57
101	Preconditioning injury-induced neurite outgrowth of adult rat sensory neurons on fibronectin is mediated by mobilisation of axonal $\alpha 5$ integrin. <i>Molecular and Cellular Neurosciences</i> , 2007, 35, 249-260.	1.0	57
102	An RGD to LDV Motif Conversion within the Disintegrin Kistrin Generates an Integrin Antagonist That Retains Potency but Exhibits Altered Receptor Specificity. <i>Journal of Biological Chemistry</i> , 1997, 272, 21341-21348.	1.6	56
103	Monoclonal antibodies as probes of integrin priming and activation. <i>Biochemical Society Transactions</i> , 2004, 32, 407-411.	1.6	56
104	Cell Adhesion Assays. <i>Molecular Biotechnology</i> , 2001, 18, 57-62.	1.3	55
105	Syndecans Shed Their Reputation as Inert Molecules. <i>Science Signaling</i> , 2009, 2, pe18.	1.6	54
106	Changes in the fibronectin-specific integrin expression pattern modify the migratory behavior of sarcoma S180 cells in vitro and in the embryonic environment.. <i>Journal of Cell Biology</i> , 1995, 128, 699-713.	2.3	53
107	The integrin $\beta 2$ subunit. <i>International Journal of Biochemistry and Cell Biology</i> , 1998, 30, 179-184.	1.2	52
108	Evidence That Monoclonal Antibodies Directed against the Integrin $\beta 2$ Subunit Plexin/Semaphorin/Integrin Domain Stimulate Function by Inducing Receptor Extension. <i>Journal of Biological Chemistry</i> , 2005, 280, 4238-4246.	1.6	52

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109	Proteomic analysis of $\alpha 5 \beta 1$ integrin adhesion complexes reveals $\alpha$ -subunit-dependent protein recruitment. <i>Proteomics</i> , 2012, 12, 2107-2114.	1.3	52
110	Identification of Amino Acid Residues That Form Part of the Ligand-binding Pocket of Integrin $\alpha 5 \beta 1$ . <i>Journal of Biological Chemistry</i> , 1998, 273, 25664-25672.	1.6	51
111	Regulation of Integrin Activity by MIA. <i>Journal of Biological Chemistry</i> , 2006, 281, 11669-11677.	1.6	51
112	Integrin cell adhesion receptors and the concept of agonism. <i>Trends in Pharmacological Sciences</i> , 2000, 21, 29-32.	4.0	50
113	Adhesion signalling complexes. <i>Current Biology</i> , 2010, 20, R1063-R1067.	1.8	50
114	Comparative Proteomic Analysis of Supportive and Unsupportive Extracellular Matrix Substrates for Human Embryonic Stem Cell Maintenance. <i>Journal of Biological Chemistry</i> , 2013, 288, 18716-18731.	1.6	50
115	Cell-Substrate Adhesion Assays. <i>Current Protocols in Cell Biology</i> , 1998, 00, Unit 9.1.	2.3	48
116	Regulation of macrophage phagocytosis of apoptotic neutrophils by adhesion to fibronectin. <i>Journal of Leukocyte Biology</i> , 1998, 64, 600-607.	1.5	48
117	Isolation of Integrin-Based Adhesion Complexes. <i>Current Protocols in Cell Biology</i> , 2015, 66, 9.8.1-9.8.15.	2.3	48
118	Clathrin-containing adhesion complexes. <i>Journal of Cell Biology</i> , 2019, 218, 2086-2095.	2.3	48
119	Topological features of integrin adhesion complexes revealed by multiplexed proximity biotinylation. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	48
120	Fine mapping of inhibitory anti- $\alpha 5$ monoclonal antibody epitopes that differentially affect integrin-ligand binding. <i>Biochemical Journal</i> , 1999, 344, 527-533.	1.7	47
121	Generation of a Minimal $\alpha 5 \beta 1$ Integrin-Fc Fragment. <i>Journal of Biological Chemistry</i> , 2001, 276, 35854-35866.	1.6	47
122	Interaction of filamin A with the integrin $\beta 7$ cytoplasmic domain: role of alternative splicing and phosphorylation. <i>FEBS Letters</i> , 2004, 569, 185-190.	1.3	47
123	The integrins of the urochordate <i>Ciona intestinalis</i> provide novel insights into the molecular evolution of the vertebrate integrin family. <i>BMC Evolutionary Biology</i> , 2005, 5, 31.	3.2	47
124	Distinct Roles of $\alpha 1$ Metal Ion-dependent Adhesion Site (MIDAS), Adjacent to MIDAS (ADMIDAS), and Ligand-associated Metal-binding Site (LIMBS) Cation-binding Sites in Ligand Recognition by Integrin $\alpha 2 \beta 1$ . <i>Journal of Biological Chemistry</i> , 2008, 283, 32704-32714.	1.6	47
125	An integrin- $\alpha 4 \beta 1$ -14-3-3 $\sigma$ paxillin ternary complex mediates localised Cdc42 activity and accelerates cell migration. <i>Journal of Cell Science</i> , 2009, 122, 1654-1664.	1.2	46
126	Surface Loops Adjacent to the Cation-Binding Site of the Complement Factor B von Willebrand Factor Type A Module Determine C3b Binding Specificity. <i>Biochemistry</i> , 1997, 36, 6605-6613.	1.2	45



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127	A novel gain-of-function mutation of the integrin $\alpha 2$ VWFA domain. FEBS Journal, 2002, 269, 1136-1144.	0.2	45
128	Proteomic Analysis of Integrin Adhesion ComplexesA presentation from the 6th British Society for Proteome Research (BSPR)â€œEuropean Bioinformatics Institute (EBI) Meeting â€œMultiscale Proteomics: From Cells to Organismsâ€œat the Wellcome Trust Conference Centre, Cambridge, UK, 14 to 16 July 2009. The Presentation also complements the <i>Science Signaling</i> Research Article by Humphries <i>et al.</i> published 8 September 2009.. Science Signaling, 2011, 4, pt2.	1.6	45
129	Identification of an Altered Matrix Signature in Kidney Aging and Disease. Journal of the American Society of Nephrology: JASN, 2021, 32, 1713-1732.	3.0	45
130	Association between receptor density, cellular activation, and transformation of adhesive behavior of flowing lymphocytes binding to VCAM-1. European Journal of Immunology, 1997, 27, 1422-1426.	1.6	43
131	Role of adhesion receptor trafficking in 3D cell migration. Current Opinion in Cell Biology, 2013, 25, 627-632.	2.6	43
132	Stimulation of DNA synthesis in murine lymphocytes by the drug swainsonine: Immunomodulatory properties. Biochemical and Biophysical Research Communications, 1988, 150, 615-625.	1.0	42
133	Use of synthetic peptides to probe lymphocyte- high endothelial cell interactions. Lymphocytes recognize a ligand on the endothelial surface which contains the CS1 adhesion motif. International Immunology, 1990, 2, 921-928.	1.8	41
134	$\beta 1$ integrin is a sensor of blood flow direction. Journal of Cell Science, 2019, 132, .	1.2	41
135	Allosteric Regulation of Fibronectin/ $\beta 5$ $\beta 1$ Interaction by Fibronectin-Binding MSCRAMMs. PLoS ONE, 2016, 11, e0159118.	1.1	41
136	LDV: a novel cell adhesion motif recognized by the integrin $\alpha 4\beta 1$ . Biochemical Society Transactions, 1991, 19, 380S-380S.	1.6	40
137	Genetic Background is a Key Determinant of Glomerular Extracellular Matrix Composition and Organization. Journal of the American Society of Nephrology: JASN, 2015, 26, 3021-3034.	3.0	39
138	Integrin Crosstalk Contributes to the Complexity of Signalling and Unpredictable Cancer Cell Fates. Cancers, 2020, 12, 1910.	1.7	38
139	Basement membrane ligands initiate distinct signalling networks to direct cell shape. Matrix Biology, 2020, 90, 61-78.	1.5	38
140	Swainsonine Inhibition of Spontaneous Metastasis. Journal of the National Cancer Institute, 1989, 81, 1024-1028.	3.0	36
141	Opticin Exerts Its Anti-angiogenic Activity by Regulating Extracellular Matrix Adhesiveness. Journal of Biological Chemistry, 2012, 287, 28027-28036.	1.6	36
142	Integrinâ€œcollagen binding. Seminars in Cell and Developmental Biology, 1996, 7, 649-657.	2.3	35
143	Functional role of $\beta 1$ integrin-mediated signalling in the human hair follicle. Experimental Cell Research, 2008, 314, 498-508.	1.2	35
144	Integrin-binding RGD peptides induce rapid intracellular calcium increases and MAPK signaling in cortical neurons. Molecular and Cellular Neurosciences, 2007, 34, 147-154.	1.0	34

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145	Microtubule-Dependent Modulation of Adhesion Complex Composition. PLoS ONE, 2014, 9, e115213.	1.1	34
146	Integrins and syndecan-4 make distinct, but critical, contributions to adhesion contact formation. Soft Matter, 2007, 3, 372.	1.2	33
147	Therapeutic Ultrasound Bypasses Canonical Syndecan-4 Signaling to Activate Rac1. Journal of Biological Chemistry, 2009, 284, 8898-8909.	1.6	33
148	IQGAP1 is a key node within the small GTPase network. Small GTPases, 2013, 4, 199-207.	0.7	33
149	Molecular and cellular biology of integrins. Critical Reviews in Oncology/Hematology, 1993, 15, 149-171.	2.0	32
150	Regulation of the extracellular ligand binding activity of integrins. Frontiers in Bioscience - Landmark, 1998, 3, d684-700.	3.0	32
151	Dual Functionality of the Anti- $\alpha$ 2 $\beta$ 1 Integrin Antibody, 12G10, Exemplifies Agonistic Signalling from the Ligand Binding Pocket of Integrin Adhesion Receptors. Journal of Biological Chemistry, 2005, 280, 10234-10243.	1.6	32
152	Insights into integrin-ligand binding and activation from the first crystal structure. Arthritis Research, 2002, 4, S69.	2.0	31
153	Proteomic analysis of integrin-associated complexes from mesenchymal stem cells. Proteomics - Clinical Applications, 2016, 10, 51-57.	0.8	31
154	Interaction of the $\alpha$ 2A domain of integrin with small collagen fragments. Protein and Cell, 2010, 1, 393-405.	4.8	30
155	Talin mechanosensitivity is modulated by a direct interaction with cyclin-dependent kinase-1. Journal of Biological Chemistry, 2021, 297, 100837.	1.6	30
156	Fine mapping of inhibitory anti- $\alpha$ 5 monoclonal antibody epitopes that differentially affect integrin-ligand binding. Biochemical Journal, 1999, 344, 527.	1.7	29
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