

Martin J Humphries

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230
papers

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308
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18,376
ext. citations

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L-index

#	Paper	IF	Citations
230	Integrin ligands at a glance. <i>Journal of Cell Science</i> , 2006 , 119, 3901-3	5.3	1138
229	Vinculin controls focal adhesion formation by direct interactions with talin and actin. <i>Journal of Cell Biology</i> , 2007 , 179, 1043-57	7.3	640
228	Integrin structure, activation, and interactions. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3,	10.2	636
227	Demonstration of catch bonds between an integrin and its ligand. <i>Journal of Cell Biology</i> , 2009 , 185, 1275-84	7.3	479
226	Synergistic control of cell adhesion by integrins and syndecans. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 957-69	48.7	435
225	Identification of an alternatively spliced site in human plasma fibronectin that mediates cell type-specific adhesion. <i>Journal of Cell Biology</i> , 1986 , 103, 2637-47	7.3	406
224	Rab25 associates with alpha5beta1 integrin to promote invasive migration in 3D microenvironments. <i>Developmental Cell</i> , 2007 , 13, 496-510	10.2	330
223	Definition of a consensus integrin adhesome and its dynamics during adhesion complex assembly and disassembly. <i>Nature Cell Biology</i> , 2015 , 17, 1577-1587	23.4	300
222	PKCalpha regulates beta1 integrin-dependent cell motility through association and control of integrin traffic. <i>EMBO Journal</i> , 1999 , 18, 3909-23	13	294
221	Regulation of integrin alpha 5 beta 1-fibronectin interactions by divalent cations. Evidence for distinct classes of binding sites for Mn ²⁺ , Mg ²⁺ , and Ca ²⁺ . <i>Journal of Biological Chemistry</i> , 1995 , 270, 26270-7	5.4	264
220	Linking integrin conformation to function. <i>Journal of Cell Science</i> , 2009 , 122, 165-70	5.3	255
219	Fibronectin regulates latent transforming growth factor-beta (TGF beta) by controlling matrix assembly of latent TGF beta-binding protein-1. <i>Journal of Biological Chemistry</i> , 2005 , 280, 18871-80	5.4	226
218	Heparin-II domain of fibronectin is a vascular endothelial growth factor-binding domain: enhancement of VEGF biological activity by a singular growth factor/matrix protein synergism. <i>Circulation Research</i> , 2006 , 99, 853-60	15.7	221
217	Neuropilin-1/GIPC1 signaling regulates alpha5beta1 integrin traffic and function in endothelial cells. <i>PLoS Biology</i> , 2009 , 7, e25	9.7	215
216	Syndecan-4-dependent Rac1 regulation determines directional migration in response to the extracellular matrix. <i>Journal of Cell Biology</i> , 2007 , 177, 527-38	7.3	192
215	Integrin activation: the link between ligand binding and signal transduction. <i>Current Opinion in Cell Biology</i> , 1996 , 8, 632-40	9	188
214	Proteomic analysis of integrin-associated complexes identifies RCC2 as a dual regulator of Rac1 and Arf6. <i>Science Signaling</i> , 2009 , 2, ra51	8.8	178

213	Integrin-specific signaling pathways controlling focal adhesion formation and cell migration. <i>Journal of Cell Biology</i> , 2003 , 161, 155-67	7.3	176
212	Function of glycoprotein glycans. <i>Trends in Biochemical Sciences</i> , 1985 , 10, 78-82	10.3	173
211	The cell-binding domain of intimin from enteropathogenic Escherichia coli binds to beta1 integrins. <i>Journal of Biological Chemistry</i> , 1996 , 271, 20359-64	5.4	163
210	SHARPIN is an endogenous inhibitor of β -integrin activation. <i>Nature Cell Biology</i> , 2011 , 13, 1315-24	23.4	159
209	Signal transduction via integrin adhesion complexes. <i>Current Opinion in Cell Biology</i> , 2019 , 56, 14-21	9	149
208	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, 34605-16	5.4	145
207	Defining the topology of integrin alpha5beta1-fibronectin interactions using inhibitory anti-alpha5 and anti-beta1 monoclonal antibodies. Evidence that the synergy sequence of fibronectin is recognized by the amino-terminal repeats of the alpha5 subunit. <i>Journal of Biological Chemistry</i> , 1997 , 272, 17283-92	5.4	140
206	Recent advances in research on fibronectin and other cell attachment proteins. <i>Journal of Cellular Biochemistry</i> , 1985 , 28, 79-97	4.7	140
205	Anti-integrin monoclonal antibodies. <i>Journal of Cell Science</i> , 2009 , 122, 4009-11	5.3	129
204	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, 19372-7	11.5	125
203	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, 118-22	3.8	124
202	The integrin adhesome network at a glance. <i>Journal of Cell Science</i> , 2016 , 129, 4159-4163	5.3	123
201	Cytoplasmic interactions of syndecan-4 orchestrate adhesion receptor and growth factor receptor signalling. <i>Biochemical Journal</i> , 2002 , 368, 1-15	3.8	122
200	Global analysis reveals the complexity of the human glomerular extracellular matrix. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 939-51	12.7	119
199	The integrin alpha1 A-domain is a ligand binding site for collagens and laminin. <i>Journal of Biological Chemistry</i> , 1997 , 272, 12311-7	5.4	118
198	Requirement for Rho in integrin signalling. <i>Cell Adhesion and Communication</i> , 1997 , 4, 387-98		117
197	Regulation of alpha5beta1 integrin conformation and function by urokinase receptor binding. <i>Journal of Cell Biology</i> , 2005 , 168, 501-11	7.3	115
196	Integrin structure: heady advances in ligand binding, but activation still makes the knees wobble. <i>Trends in Biochemical Sciences</i> , 2003 , 28, 313-20	10.3	113

195	Integrin activation involves a conformational change in the alpha 1 helix of the beta subunit A-domain. <i>Journal of Biological Chemistry</i> , 2002 , 277, 19800-5	5.4	109
194	Fibronectin-tissue transglutaminase matrix rescues RGD-impaired cell adhesion through syndecan-4 and beta1 integrin co-signaling. <i>Journal of Biological Chemistry</i> , 2008 , 283, 20937-47	5.4	107
193	Defining the extracellular matrix using proteomics. <i>International Journal of Experimental Pathology</i> , 2013 , 94, 75-92	2.8	105
192	The inhibitory anti-beta1 integrin monoclonal antibody 13 recognizes an epitope that is attenuated by ligand occupancy. Evidence for allosteric inhibition of integrin function. <i>Journal of Biological Chemistry</i> , 1996 , 271, 20365-74	5.4	105
191	Cyclic mechanical reinforcement of integrin-ligand interactions. <i>Molecular Cell</i> , 2013 , 49, 1060-8	17.6	104
190	A syndecan-4 hair trigger initiates wound healing through caveolin- and RhoG-regulated integrin endocytosis. <i>Developmental Cell</i> , 2011 , 21, 681-93	10.2	103
189	RCP-driven $\beta 1$ recycling suppresses Rac and promotes RhoA activity via the RacGAP1-IQGAP1 complex. <i>Journal of Cell Biology</i> , 2013 , 202, 917-35	7.3	101
188	Conformational changes in the integrin beta A domain provide a mechanism for signal transduction via hybrid domain movement. <i>Journal of Biological Chemistry</i> , 2003 , 278, 17028-35	5.4	100
187	Site-directed perturbation of protein kinase C- integrin interaction blocks carcinoma cell chemotaxis. <i>Molecular and Cellular Biology</i> , 2002 , 22, 5897-911	4.8	99
186	A specific alpha5beta1-integrin conformation promotes directional integrin translocation and fibronectin matrix formation. <i>Journal of Cell Science</i> , 2005 , 118, 291-300	5.3	97
185	p190RhoGAP is the convergence point of adhesion signals from alpha 5 beta 1 integrin and syndecan-4. <i>Journal of Cell Biology</i> , 2008 , 181, 1013-26	7.3	96
184	Syndecan-4 phosphorylation is a control point for integrin recycling. <i>Developmental Cell</i> , 2013 , 24, 472-85	10.2	94
183	Role of fibronectin in adhesion, migration, and metastasis. <i>Cancer Investigation</i> , 1989 , 7, 373-93	2.1	93
182	Molecular basis for the dynamic strength of the integrin alpha4beta1/VCAM-1 interaction. <i>Biophysical Journal</i> , 2004 , 87, 3470-8	2.9	92
181	Focal adhesions are sites of integrin extension. <i>Journal of Cell Biology</i> , 2010 , 188, 891-903	7.3	91
180	Integrin antagonists. <i>Cellular and Molecular Life Sciences</i> , 1999 , 56, 427-41	10.3	91
179	A structure prediction for the ligand-binding region of the integrin beta subunit: evidence for the presence of a von Willebrand factor A domain. <i>FEBS Letters</i> , 1997 , 400, 297-303	3.8	89
178	Regulation of integrin function: evidence that bivalent-cation-induced conformational changes lead to the unmasking of ligand-binding sites within integrin alpha5 beta1. <i>Biochemical Journal</i> , 1998 , 331 (Pt 3), 821-8	3.8	89

177	Structure of an integrin-ligand complex deduced from solution x-ray scattering and site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 39993-9	5.4	87
176	Regulation of integrin function through conformational complexity: not simply a knee-jerk reaction?. <i>Current Opinion in Cell Biology</i> , 2004 , 16, 544-51	9	87
175	Defining the phospho-adesome through the phosphoproteomic analysis of integrin signalling. <i>Nature Communications</i> , 2015 , 6, 6265	17.4	86
174	Proteomic definitions of basement membrane composition in health and disease. <i>Matrix Biology</i> , 2017 , 57-58, 12-28	11.4	83
173	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, 345-55	16.6	82
172	Giving off mixed signals--distinct functions of alpha5beta1 and alphavbeta3 integrins in regulating cell behaviour. <i>IUBMB Life</i> , 2009 , 61, 731-8	4.7	81
171	Integrin adhesion receptors: structure, function and implications for biomedicine. <i>Trends in Molecular Medicine</i> , 1996 , 2, 304-13		81
170	Conformational equilibria and intrinsic affinities define integrin activation. <i>EMBO Journal</i> , 2017 , 36, 629-645	6.5	80
169	Molecular interplay between endostatin, integrins, and heparan sulfate. <i>Journal of Biological Chemistry</i> , 2009 , 284, 22029-22040	5.4	80
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167	Quantification of integrin receptor agonism by fluorescence lifetime imaging. <i>Journal of Cell Science</i> , 2008 , 121, 265-71	5.3	78
166	Role of ADMIDAS cation-binding site in ligand recognition by integrin alpha 5 beta 1. <i>Journal of Biological Chemistry</i> , 2003 , 278, 51622-9	5.4	77
165	Relating conformation to function in integrin $\alpha 5 \beta 1$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3872-81	11.5	75
164	Alpha4 integrin binding interfaces on VCAM-1 and MAdCAM-1. Integrin binding footprints identify accessory binding sites that play a role in integrin specificity. <i>Journal of Biological Chemistry</i> , 1997 , 272, 19429-40	5.4	74
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162	The importance of podocyte adhesion for a healthy glomerulus. <i>Frontiers in Endocrinology</i> , 2014 , 5, 160	5.7	72
161	Glomerular cell cross-talk influences composition and assembly of extracellular matrix. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 953-66	12.7	71
160	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, 4599-606	5.4	71

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- 158 Alpha v beta3 integrin spatially regulates VASP and RIAM to control adhesion dynamics and migration. *Journal of Cell Biology*, **2010**, 189, 369-83 7.3 68
- 157 Integrin alpha5beta1 and ADAM-17 interact in vitro and co-localize in migrating HeLa cells. *Journal of Biological Chemistry*, **2004**, 279, 22377-86 5.4 67
- 156 Emerging properties of adhesion complexes: what are they and what do they do?. *Trends in Cell Biology*, **2015**, 25, 388-97 18.3 66
- 155 Cell adhesion is regulated by CDK1 during the cell cycle. *Journal of Cell Biology*, **2018**, 217, 3203-3218 7.3 66
- 154 Mapping functional residues onto integrin crystal structures. *Current Opinion in Structural Biology*, **2003**, 13, 236-43 8.1 65
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- 151 Reticular adhesions are a distinct class of cell-matrix adhesions that mediate attachment during mitosis. *Nature Cell Biology*, **2018**, 20, 1290-1302 23.4 65
- 150 Divalent cations regulate the folding and activation status of integrins during their intracellular trafficking. *Journal of Cell Science*, **2011**, 124, 1672-80 5.3 62
- 149 Cell adhesion assays. *Methods in Molecular Biology*, **2009**, 522, 203-10 1.4 62
- 148 Modulation of FAK and Src adhesion signaling occurs independently of adhesion complex composition. *Journal of Cell Biology*, **2016**, 212, 349-64 7.3 61
- 147 Mechanosensitivity of integrin adhesion complexes: role of the consensus adhesome. *Experimental Cell Research*, **2016**, 343, 7-13 4.2 60
- 146 Proteomic analysis of extracellular matrix from the hepatic stellate cell line LX-2 identifies CYR61 and Wnt-5a as novel constituents of fibrotic liver. *Journal of Proteome Research*, **2012**, 11, 4052-64 5.6 58
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- 142 Dynamic aspects of adhesion receptor function--integrins both twist and shout. *BioEssays*, **1993**, 15, 391-7 7.1 56

141	PPFIA1 drives active $\beta 1$ integrin recycling and controls fibronectin fibrillogenesis and vascular morphogenesis. <i>Nature Communications</i> , 2016 , 7, 13546	17.4	54
140	Monoclonal antibodies as probes of integrin priming and activation. <i>Biochemical Society Transactions</i> , 2004 , 32, 407-11	5.1	54
139	Preconditioning injury-induced neurite outgrowth of adult rat sensory neurons on fibronectin is mediated by mobilisation of axonal alpha5 integrin. <i>Molecular and Cellular Neurosciences</i> , 2007 , 35, 249-60	4.8	53
138	E-cadherin is a ligand for integrin alpha2beta1. <i>Matrix Biology</i> , 2002 , 21, 525-32	11.4	53
137	Quantitative proteomics and single-nucleus transcriptomics of the sinus node elucidates the foundation of cardiac pacemaking. <i>Nature Communications</i> , 2019 , 10, 2889	17.4	51
136	Fibronectin supports neurite outgrowth and axonal regeneration of adult brain neurons in vitro. <i>Brain Research</i> , 2012 , 1453, 8-16	3.7	51
135	Rac1 is deactivated at integrin activation sites through an IQGAP1-filamin-A-RacGAP1 pathway. <i>Journal of Cell Science</i> , 2013 , 126, 4121-35	5.3	51
134	A proteomic approach reveals integrin activation state-dependent control of microtubule cortical targeting. <i>Nature Communications</i> , 2015 , 6, 6135	17.4	50
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132	Collagen can modulate cell interactions with fibronectin. <i>Journal of Cell Biology</i> , 1985 , 101, 386-94	7.3	50
131	Cell adhesion assays. <i>Molecular Biotechnology</i> , 2001 , 18, 57-61	3	49
130	Syndecans shed their reputation as inert molecules. <i>Science Signaling</i> , 2009 , 2, pe18	8.8	48
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127	The integrin beta subunit. <i>International Journal of Biochemistry and Cell Biology</i> , 1998 , 30, 179-84	5.6	47
126	Proteomic analysis of $\beta 1$ integrin adhesion complexes reveals β subunit-dependent protein recruitment. <i>Proteomics</i> , 2012 , 12, 2107-14	4.8	46
125	Evidence that monoclonal antibodies directed against the integrin beta subunit plexin/semaphorin/integrin domain stimulate function by inducing receptor extension. <i>Journal of Biological Chemistry</i> , 2005 , 280, 4238-46	5.4	46
124	Regulation of macrophage phagocytosis of apoptotic neutrophils by adhesion to fibronectin. <i>Journal of Leukocyte Biology</i> , 1998 , 64, 600-7	6.5	45

123	The A-domain of integrin alpha 2 binds specifically to a range of collagens but is not a general receptor for the collagenous motif. <i>FEBS Journal</i> , 1996 , 241, 732-9		45
122	Regulation of integrin activity by MIA. <i>Journal of Biological Chemistry</i> , 2006 , 281, 11669-77	5.4	44
121	Integrin cell adhesion receptors and the concept of agonism. <i>Trends in Pharmacological Sciences</i> , 2000 , 21, 29-32	13.2	44
120	Fine mapping of inhibitory anti- β monoclonal antibody epitopes that differentially affect integrin ligand binding. <i>Biochemical Journal</i> , 1999 , 344, 527-533	3.8	44
119	Comparative proteomic analysis of supportive and unresponsive extracellular matrix substrates for human embryonic stem cell maintenance. <i>Journal of Biological Chemistry</i> , 2013 , 288, 18716-31	5.4	43
118	Generation of a minimal alpha5beta1 integrin-Fc fragment. <i>Journal of Biological Chemistry</i> , 2001 , 276, 35854-66	5.4	43
117	Identification of amino acid residues that form part of the ligand-binding pocket of integrin alpha5 beta1. <i>Journal of Biological Chemistry</i> , 1998 , 273, 25664-72	5.4	43
116	An integrin-alpha4-14-3-3zeta-paxillin ternary complex mediates localised Cdc42 activity and accelerates cell migration. <i>Journal of Cell Science</i> , 2009 , 122, 1654-64	5.3	42
115	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, 6605-13	3.2	42
114	Role of adhesion receptor trafficking in 3D cell migration. <i>Current Opinion in Cell Biology</i> , 2013 , 25, 627-32		41
113	Adhesion signalling complexes. <i>Current Biology</i> , 2010 , 20, R1063-R1067	6.3	41
112	Association between receptor density, cellular activation, and transformation of adhesive behavior of flowing lymphocytes binding to VCAM-1. <i>European Journal of Immunology</i> , 1997 , 27, 1422-6	6.1	41
111	Distinct roles of beta1 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 alpha2beta1. <i>Journal of Biological Chemistry</i> , 2008 , 283, 32704-14	5.4	39
110	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. <i>International Immunology</i> , 1990 , 2, 921-8	4.9	39
109	Stimulation of DNA synthesis in murine lymphocytes by the drug swainsonine: immunomodulatory properties. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 150, 615-25	3.4	39
108	Cell-substrate adhesion assays. <i>Current Protocols in Cell Biology</i> , 2001 , Chapter 9, Unit 9.1	2.3	38
107	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	37
106	Connections between the cell cycle, cell adhesion and the cytoskeleton. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20180227	5.8	36

105	Proteomic analysis of integrin adhesion complexes. <i>Science Signaling</i> , 2011 , 4, pt2	8.8	36
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103	A novel gain-of-function mutation of the integrin alpha2 VWFA domain. <i>FEBS Journal</i> , 2002 , 269, 1136-44		35
102	LDV: a novel cell adhesion motif recognized by the integrin alpha 4 beta 1. <i>Biochemical Society Transactions</i> , 1991 , 19, 380S	5.1	33
101	Isolation of integrin-based adhesion complexes. <i>Current Protocols in Cell Biology</i> , 2015 , 66, 9.8.1-9.8.15	2.3	32
100	Functional role of beta 1 integrin-mediated signalling in the human hair follicle. <i>Experimental Cell Research</i> , 2008 , 314, 498-508	4.2	32
99	Integrin β collagen binding. <i>Seminars in Cell and Developmental Biology</i> , 1996 , 7, 649-657	7.5	32
98	Swainsonine inhibition of spontaneous metastasis. <i>Journal of the National Cancer Institute</i> , 1989 , 81, 1024-8	9.7	32
97	Genetic Background is a Key Determinant of Glomerular Extracellular Matrix Composition and Organization. <i>Journal of the American Society of Nephrology: JASN</i> , 2015 , 26, 3021-34	12.7	31
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95	Opticin exerts its anti-angiogenic activity by regulating extracellular matrix adhesiveness. <i>Journal of Biological Chemistry</i> , 2012 , 287, 28027-36	5.4	30
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93	Therapeutic ultrasound bypasses canonical syndecan-4 signaling to activate rac1. <i>Journal of Biological Chemistry</i> , 2009 , 284, 8898-909	5.4	29
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91	Activation of integrin alpha5beta1 delays apoptosis of Ntera2 neuronal cells. <i>Molecular and Cellular Neurosciences</i> , 2005 , 28, 588-98	4.8	29
90	Fine mapping of inhibitory anti- β monoclonal antibody epitopes that differentially affect integrin-ligand binding. <i>Biochemical Journal</i> , 1999 , 344, 527	3.8	29
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81	Molecular and cellular biology of integrins. <i>Critical Reviews in Oncology/Hematology</i> , 1993 , 15, 149-71	7	24
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75	Interaction of the β A domain of integrin with small collagen fragments. <i>Protein and Cell</i> , 2010 , 1, 393-405	5.2	23
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73	Modulation of cartilage differentiation by melanoma inhibiting activity/cartilage-derived retinoic acid-sensitive protein (MIA/CD-RAP). <i>Experimental and Molecular Medicine</i> , 2010 , 42, 166-74	12.8	22
72	Mapping the ligand-binding pocket of integrin alpha5beta1 using a gain-of-function approach. <i>Biochemical Journal</i> , 2009 , 424, 179-89	3.8	22
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70	Molecular characterisation of integrin-procollagen C-propeptide interactions. <i>FEBS Journal</i> , 1997 , 246, 274-82		21

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68	Alternative splicing of the IIICS domain in fibronectin governs the role of the heparin II domain in fibrillogenesis and cell spreading. <i>Journal of Biological Chemistry</i> , 2002 , 277, 13650-8	5.4	21
67	Integrin Crosstalk Contributes to the Complexity of Signalling and Unpredictable Cancer Cell Fates. <i>Cancers</i> , 2020 , 12,	6.6	20
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