

Talins and kindlins: partners in integrin-mediated adhesion

Nature Reviews Molecular Cell Biology

14, 503-517

DOI: [10.1038/nrm3624](https://doi.org/10.1038/nrm3624)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Integrating actin dynamics, mechanotransduction and integrin activation: The multiple functions of actin binding proteins in focal adhesions. <i>European Journal of Cell Biology</i> , 2013, 92, 339-348.	1.6	114
2	A Skin-depth Analysis of Integrins: Role of the Integrin Network in Health and Disease. <i>Cell Communication and Adhesion</i> , 2013, 20, 155-169.	1.0	36
3	The evolution of protein NMR. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 245-264.	1.2	6
4	Mst1 Directs Myosin IIa Partitioning of Low and Higher Affinity Integrins during T Cell Migration. <i>PLoS ONE</i> , 2014, 9, e105561.	1.1	16
5	The structure of Rap1 in complex with RIAM reveals specificity determinants and recruitment mechanism. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 128-139.	1.5	25
6	Intracellular signaling and perception of neuronal scaffold through integrins and their adapter proteins. <i>Progress in Brain Research</i> , 2014, 214, 443-460.	0.9	10
7	Conformational activation of talin by RIAM triggers integrin-mediated cell adhesion. <i>Nature Communications</i> , 2014, 5, 5880.	5.8	73
8	B-Raf Regulation of Integrin $\beta 1$ -mediated Resistance to Shear Stress through Changes in Cell Spreading and Cytoskeletal Association in T Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 23141-23153.	1.6	11
9	Molecular Basis of Kindlin-2 Binding to Integrin-linked Kinase Pseudokinase for Regulating Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2014, 289, 28363-28375.	1.6	56
10	Regulation of vascular endothelial junction stability and remodeling through Rap1-Rasip1 signaling. <i>Cell Adhesion and Migration</i> , 2014, 8, 76-83.	1.1	38
11	Specific Phosphorylations Transmit Signals from Leukocyte $\beta 2$ to $\beta 1$ Integrins and Regulate Adhesion. <i>Journal of Biological Chemistry</i> , 2014, 289, 32230-32242.	1.6	21
12	The Talin Head Domain Reinforces Integrin-Mediated Adhesion by Promoting Adhesion Complex Stability and Clustering. <i>PLoS Genetics</i> , 2014, 10, e1004756.	1.5	27
13	ECM receptors in neuronal structure, synaptic plasticity, and behavior. <i>Progress in Brain Research</i> , 2014, 214, 101-131.	0.9	72
14	Microtubules Regulate Focal Adhesion Dynamics through MAP4K4. <i>Developmental Cell</i> , 2014, 31, 572-585.	3.1	96
15	Transcriptionally regulated cell adhesion network dictates distal tip cell directionality. <i>Developmental Dynamics</i> , 2014, 243, 999-1010.	0.8	6
16	Structural Aspects of Integrins. <i>Advances in Experimental Medicine and Biology</i> , 2014, 819, 111-126.	0.8	28
17	Dynamic transcriptional signatures and network responses for clinical symptoms in influenza-infected human subjects using systems biology approaches. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2014, 41, 509-521.	0.8	12
18	Aging of Connective Tissues: Experimental Facts and Theoretical Considerations. <i>Interdisciplinary Topics in Gerontology</i> , 2014, 39, 108-141.	3.6	3

#	ARTICLE	IF	CITATIONS
19	Mechanical control of the endothelial barrier. <i>Cell and Tissue Research</i> , 2014, 355, 545-555.	1.5	64
20	SnapShot: Talin and the Modular Nature of the Integrin Adhesome. <i>Cell</i> , 2014, 156, 1340-1340.e1.	13.5	21
21	Differential binding to the ILK complex determines kindlin isoform adhesion localization and integrin activation. <i>Journal of Cell Science</i> , 2014, 127, 4308-21.	1.2	60
22	Integrin-Associated Complexes Form Hierarchically with Variable Stoichiometry in Nascent Adhesions. <i>Current Biology</i> , 2014, 24, 1845-1853.	1.8	128
23	A microwell pattern for C17.2 cell aggregate formation with concave cylindrical surface induced cell peeling. <i>Biomaterials</i> , 2014, 35, 9423-9437.	5.7	10
24	Signalling complexes at the cell-matrix interface. <i>Current Opinion in Structural Biology</i> , 2014, 29, 10-16.	2.6	17
25	The fundamental role of mechanical properties in the progression of cancer disease and inflammation. <i>Reports on Progress in Physics</i> , 2014, 77, 076602.	8.1	113
26	The talin-integrin interface under mechanical stress. <i>Molecular BioSystems</i> , 2014, 10, 3217-3228.	2.9	12
27	Nascent Adhesions: From Fluctuations to a Hierarchical Organization. <i>Current Biology</i> , 2014, 24, R801-R803.	1.8	29
28	Integrin Cytoplasmic Tail Interactions. <i>Biochemistry</i> , 2014, 53, 810-820.	1.2	119
29	Talin regulates moesin-NHE-1 recruitment to invadopodia and promotes mammary tumor metastasis. <i>Journal of Cell Biology</i> , 2014, 205, 737-751.	2.3	96
30	A talin mutant that impairs talin-integrin binding in platelets decelerates α IIb β 3 activation without pathological bleeding. <i>Blood</i> , 2014, 123, 2722-2731.	0.6	40
31	Eliminate dark side from antiplatelet therapy. <i>Blood</i> , 2014, 123, 2599-2601.	0.6	2
32	Adaptor regulation of LFA-1 signaling in T lymphocyte migration: Potential druggable targets for immunotherapies?. <i>European Journal of Immunology</i> , 2014, 44, 3484-3499.	1.6	26
33	Loss of the Rap1 effector RIAM results in leukocyte adhesion deficiency due to impaired β 2 integrin function in mice. <i>Blood</i> , 2015, 126, 2704-2712.	0.6	85
34	Minimal amounts of kindlin-3 suffice for basal platelet and leukocyte functions in mice. <i>Blood</i> , 2015, 126, 2592-2600.	0.6	45
35	Rap1-GTP-interacting adaptor molecule (RIAM) is dispensable for platelet integrin activation and function in mice. <i>Blood</i> , 2015, 125, 219-222.	0.6	73
36	The Rap1-RIAM pathway prefers β 2 integrins. <i>Blood</i> , 2015, 126, 2658-2659.	0.6	8

#	ARTICLE	IF	CITATIONS
37	Structural basis of blocking integrin activation and deactivation for anti-inflammation. <i>Journal of Biomedical Science</i> , 2015, 22, 51.	2.6	36
38	Elucidating the Role of Injury-Induced Electric Fields (EFs) in Regulating the Astrocytic Response to Injury in the Mammalian Central Nervous System. <i>PLoS ONE</i> , 2015, 10, e0142740.	1.1	19
39	Molecular Mechanoneurobiology: An Emerging Angle to Explore Neural Synaptic Functions. <i>BioMed Research International</i> , 2015, 2015, 1-13.	0.9	10
40	Platelet actin nodules are podosome-like structures dependent on Wiskottâ€Aldrich syndrome protein and ARP2/3 complex. <i>Nature Communications</i> , 2015, 6, 7254.	5.8	86
41	Platelets and physics: How platelets â€œfeelâ€ and respond to their mechanical microenvironment. <i>Blood Reviews</i> , 2015, 29, 377-386.	2.8	52
42	The dual structural roles of the membrane distal region of Î± integrin cytoplasmic tail in integrin inside-out activation. <i>Journal of Cell Science</i> , 2015, 128, 1718-31.	1.2	23
43	Talin1 is required for cardiac Zâ€disk stabilization and endothelial integrity in zebrafish. <i>FASEB Journal</i> , 2015, 29, 4989-5005.	0.2	25
44	Nascent Integrin Adhesions Form on All Matrix Rigidities after Integrin Activation. <i>Developmental Cell</i> , 2015, 35, 614-621.	3.1	142
45	Vinculin controls talin engagement with the actomyosin machinery. <i>Nature Communications</i> , 2015, 6, 10038.	5.8	175
46	Integrin-mediated adhesion and mechano-sensing in cutaneous wound healing. <i>Cell and Tissue Research</i> , 2015, 360, 571-582.	1.5	45
47	Bacterial determinants of importance in the virulence of <i>Gallibacterium anatis</i> in poultry. <i>Veterinary Research</i> , 2015, 46, 57.	1.1	41
48	Kindlin 3 (FERMT3) is associated with unstable atherosclerotic plaques, anti-inflammatory type II macrophages and upregulation of beta-2 integrins in all major arterial beds. <i>Atherosclerosis</i> , 2015, 242, 145-154.	0.4	29
49	Proteins involved in focal adhesion signaling pathways are differentially regulated in experimental branch retinal vein occlusion. <i>Experimental Eye Research</i> , 2015, 138, 87-95.	1.2	24
50	Alternative Mechanisms for Talin to Mediate Integrin Function. <i>Current Biology</i> , 2015, 25, 847-857.	1.8	91
51	Regulation of integrin-mediated adhesions. <i>Current Opinion in Cell Biology</i> , 2015, 36, 41-47.	2.6	168
52	Mechanisms of integrin and filamin binding and their interplay with talin during early focal adhesion formation. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1285-1296.	0.6	22
53	PIP kinases define PI4,5P2 signaling specificity by association with effectors. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 711-723.	1.2	62
54	The many faces of cell adhesion during <i>Drosophila</i> muscle development. <i>Developmental Biology</i> , 2015, 401, 62-74.	0.9	54

#	ARTICLE	IF	CITATIONS
55	Talin Dependent Mechanosensitivity of Cell Focal Adhesions. Cellular and Molecular Bioengineering, 2015, 8, 151-159.	1.0	84
56	MAP4K4 regulates integrin-FERM binding to control endothelial cell motility. Nature, 2015, 519, 425-430.	13.7	112
57	Emerging properties of adhesion complexes: what are they and what do they do?. Trends in Cell Biology, 2015, 25, 388-397.	3.6	101
58	Molecular-Scale Tools for Studying Mechanotransduction. Annual Review of Biomedical Engineering, 2015, 17, 287-316.	5.7	24
59	Integrin $\alpha 6$ sets the stage for colorectal cancer metastasis. Cancer and Metastasis Reviews, 2015, 34, 715-734.	2.7	30
60	Integrin-beta3 clusters recruit clathrin-mediated endocytic machinery in the absence of traction force. Nature Communications, 2015, 6, 8672.	5.8	75
61	A proteomic approach reveals integrin activation state-dependent control of microtubule cortical targeting. Nature Communications, 2015, 6, 6135.	5.8	71
62	Positive and negative regulation by SLP-76/ADAP and Pyk2 of chemokine-stimulated T-lymphocyte adhesion mediated by integrin $\alpha 1$. Molecular Biology of the Cell, 2015, 26, 3215-3228.	0.9	12
63	Full length talin stimulates integrin activation and axon regeneration. Molecular and Cellular Neurosciences, 2015, 68, 1-8.	1.0	49
64	Contributions of the integrin $\alpha 1$ tail to cell adhesive forces. Experimental Cell Research, 2015, 332, 212-222.	1.2	11
65	Talin1 phosphorylation activates $\alpha 1$ integrins: a novel mechanism to promote prostate cancer bone metastasis. Oncogene, 2015, 34, 1811-1821.	2.6	100
66	Focal adhesion signaling and therapy resistance in cancer. Seminars in Cancer Biology, 2015, 31, 65-75.	4.3	266
67	Mechanisms of Collagen Network Organization in Response to Tissue/Organ Damage. , 2016, , .		0
68	Biology and structure of leukocyte $\alpha 2$ integrins and their role in inflammation. F1000Research, 2016, 5, 2433.	0.8	65
69	Alteration of transbilayer phospholipid compositions is involved in cell adhesion, cell spreading, and focal adhesion formation. FEBS Letters, 2016, 590, 2138-2145.	1.3	13
70	Detangling the evolutionary developmental integration of dentate jaws: evidence that a <i>p63</i> gene network regulates odontogenesis exclusive of mandible morphogenesis. Evolution & Development, 2016, 18, 317-323.	1.1	8
71	Leukocyte arrest: Biomechanics and molecular mechanisms of $\alpha 2$ integrin activation. Biorheology, 2016, 52, 353-377.	1.2	40
72	Extracellular Regulation of Cell-to-Matrix Adhesion. , 2016, , 192-198.		0

#	ARTICLE	IF	CITATIONS
73	Podocyte injury and its consequences. <i>Kidney International</i> , 2016, 89, 1221-1230.	2.6	342
74	Directly Activating the Integrin $\alpha 5 \beta 1$ Initiates Outside-In Signaling by Causing $\alpha 5 \beta 1$ Clustering. <i>Journal of Biological Chemistry</i> , 2016, 291, 11706-11716.	1.6	26
75	Integrin Receptors Play a Key Role in the Regulation of Hepatic CYP3A. <i>Drug Metabolism and Disposition</i> , 2016, 44, 758-770.	1.7	7
76	Talin tension sensor reveals novel features of focal adhesion force transmission and mechanosensitivity. <i>Journal of Cell Biology</i> , 2016, 213, 371-383.	2.3	205
77	The molecular clutch model for mechanotransduction evolves. <i>Nature Cell Biology</i> , 2016, 18, 459-461.	4.6	73
78	Dampening neutrophil integrins. <i>Blood</i> , 2016, 128, 467-468.	0.6	0
79	IL-4 regulates B-cell receptor signaling in CLL. <i>Blood</i> , 2016, 128, 468-469.	0.6	5
80	LD Motif Recognition by Talin: Structure of the Talin-DLC1 Complex. <i>Structure</i> , 2016, 24, 1130-1141.	1.6	68
81	Molecular mechanisms of mechanotransduction in integrin-mediated cell-matrix adhesion. <i>Experimental Cell Research</i> , 2016, 349, 85-94.	1.2	59
82	Lateral Mobility and Nanoscale Spatial Arrangement of Chemokine-activated $\alpha 4 \beta 1$ Integrins on T Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 21053-21062.	1.6	6
83	$\alpha 5 \beta 1$ Integrin and tumour blood vessels—learning from the past to shape the future. <i>Current Opinion in Cell Biology</i> , 2016, 42, 121-127.	2.6	86
84	Importance of membrane-proximal N-glycosylation on integrin $\alpha 1$ in its activation and complex formation. <i>FASEB Journal</i> , 2016, 30, 4120-4131.	0.2	45
85	Kank2 activates talin, reduces force transduction across integrins and induces central adhesion formation. <i>Nature Cell Biology</i> , 2016, 18, 941-953.	4.6	144
86	Postnatal Loss of Kindlin-2 Leads to Progressive Heart Failure. <i>Circulation: Heart Failure</i> , 2016, 9, .	1.6	35
87	Class 3 semaphorins in cardiovascular development. <i>Cell Adhesion and Migration</i> , 2016, 10, 641-651.	1.1	40
88	Proximity biotinylation provides insight into the molecular composition of focal adhesions at the nanometer scale. <i>Science Signaling</i> , 2016, 9, rs4.	1.6	78
89	Integrin-mediated mechanotransduction. <i>Journal of Cell Biology</i> , 2016, 215, 445-456.	2.3	728
90	CD98-Mediated Adhesive Signaling Enables the Establishment and Propagation of Acute Myelogenous Leukemia. <i>Cancer Cell</i> , 2016, 30, 792-805.	7.7	86

#	ARTICLE	IF	CITATIONS
91	The mechanical response of talin. <i>Nature Communications</i> , 2016, 7, 11966.	5.8	304
92	The Piconewton Force Awakens: Quantifying Mechanics in Cells. <i>Trends in Cell Biology</i> , 2016, 26, 838-847.	3.6	60
93	Coordinated integrin activation by actin-dependent force during T-cell migration. <i>Nature Communications</i> , 2016, 7, 13119.	5.8	154
94	GÎ±13 Switch Region 2 Relieves Talin Autoinhibition to Activate Î±IIbÎ²3 Integrin. <i>Journal of Biological Chemistry</i> , 2016, 291, 26598-26612.	1.6	12
95	Biological characterization of three immortalized esophageal epithelial cell lines. <i>Molecular Medicine Reports</i> , 2016, 14, 4802-4810.	1.1	2
96	Non-cleavable talin rescues defect in the T-cell conjugation of T-cells deficient in the immune adaptor SKAP1. <i>Immunology Letters</i> , 2016, 172, 40-46.	1.1	8
97	IPP Complex Reinforces Adhesion by Relaying Tension-Dependent Signals to Inhibit Integrin Turnover. <i>Cell Reports</i> , 2016, 14, 2668-2682.	2.9	19
98	Regulation of Cell Migration and Î²1 Integrin Trafficking by the Endosomal Adaptor <scp>GGA3</scp>. <i>Traffic</i> , 2016, 17, 670-688.	1.3	35
99	Pleiotrophin regulates the ductular reaction by controlling the migration of cells in liver progenitor niches. <i>Gut</i> , 2016, 65, 683-692.	6.1	28
100	Signal Transduction to and from Adhesion Molecules. , 2016, , 655-702.		1
101	Protein 4.1G Regulates Cell Adhesion, Spreading, and Migration of Mouse Embryonic Fibroblasts through the Î²1 Integrin Pathway. <i>Journal of Biological Chemistry</i> , 2016, 291, 2170-2180.	1.6	11
102	The journey of integrins and partners in a complex interactions landscape studied by super-resolution microscopy and single protein tracking. <i>Experimental Cell Research</i> , 2016, 343, 28-34.	1.2	19
103	Talin: a mechanosensitive molecule in health and disease. <i>FASEB Journal</i> , 2016, 30, 2073-2085.	0.2	61
104	Endosomes: Emerging Platforms for Integrin-Mediated FAK Signalling. <i>Trends in Cell Biology</i> , 2016, 26, 391-398.	3.6	80
105	In vivo adhesion of malignant B cells to bone marrow microvasculature is regulated by Î±4Î²1 cytoplasmic-binding proteins. <i>Leukemia</i> , 2016, 30, 861-872.	3.3	26
106	Mechanosensitive components of integrin adhesions: Role of vinculin. <i>Experimental Cell Research</i> , 2016, 343, 21-27.	1.2	116
107	Mechanosensing in cellâ€™matrix adhesions â€™ Converting tension into chemical signals. <i>Experimental Cell Research</i> , 2016, 343, 35-41.	1.2	84
108	Role of the Helix in Talin F3 Domain (F3 Helix) in Talin-Mediated Integrin Activation. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 79-86.	0.9	4

#	ARTICLE	IF	CITATIONS
109	Annexin A6 is a multifunctional scaffold in cell motility. <i>Cell Adhesion and Migration</i> , 2017, 11, 288-304.	1.1	53
110	α V-class integrins exert dual roles on α 5 β 1 integrins to strengthen adhesion to fibronectin. <i>Nature Communications</i> , 2017, 8, 14348.	5.8	92
111	NDR1-Dependent Regulation of Kindlin-3 Controls High-Affinity LFA-1 Binding and Immune Synapse Organization. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	37
112	SHANK proteins limit integrin activation by directly interacting with Rap1 and R-Ras. <i>Nature Cell Biology</i> , 2017, 19, 292-305.	4.6	117
113	Conformational equilibria and intrinsic affinities define integrin activation. <i>EMBO Journal</i> , 2017, 36, 629-645.	3.5	112
114	Skap2 is required for α 2 integrin-mediated neutrophil recruitment and functions. <i>Journal of Experimental Medicine</i> , 2017, 214, 851-874.	4.2	49
115	Initial cell adhesion of three cell types in the presence and absence of serum proteins. <i>Histochemistry and Cell Biology</i> , 2017, 148, 273-288.	0.8	16
116	Activating Integrins Isn't Always α Beta for Neutrophil Migration!. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 561-562.	1.4	0
117	Stretch-induced actomyosin contraction in epithelial tubes: Mechanotransduction pathways for tubular homeostasis. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 146-152.	2.3	22
118	Talin Plays a Critical Role in the Maintenance of the Regulatory T Cell Pool. <i>Journal of Immunology</i> , 2017, 198, 4639-4651.	0.4	56
119	Mechanical stability of talin rod controls cell migration and substrate sensing. <i>Scientific Reports</i> , 2017, 7, 3571.	1.6	44
120	Tensin links energy metabolism to extracellular matrix assembly. <i>Journal of Cell Biology</i> , 2017, 216, 867-869.	2.3	8
121	α IIb β 3 (GPIIb/IIIa) Structure and Function. , 2017, , 99-112.		5
122	Podosome Force Generation Machinery: A Local Balance between Protrusion at the Core and Traction at the Ring. <i>ACS Nano</i> , 2017, 11, 4028-4040.	7.3	72
123	Talin gets SHANKed in the fight for integrin activation. <i>Nature Cell Biology</i> , 2017, 19, 265-267.	4.6	1
124	Hippo interferes with antiviral defences. <i>Nature Cell Biology</i> , 2017, 19, 267-269.	4.6	30
125	AMPK negatively regulates tensin-dependent integrin activity. <i>Journal of Cell Biology</i> , 2017, 216, 1107-1121.	2.3	87
126	Distinct focal adhesion protein modules control different aspects of mechanotransduction. <i>Journal of Cell Science</i> , 2017, 130, 1612-1624.	1.2	132

#	ARTICLE	IF	CITATIONS
127	Kindlin-1 contributes to EGF-induced re-epithelialization in skin wound healing. <i>International Journal of Molecular Medicine</i> , 2017, 39, 949-959.	1.8	28
128	Nuclear Localization of Integrin Cytoplasmic Domain-associated Protein-1 (ICAP1) Influences β 1 Integrin Activation and Recruits Krev/Interaction Trapped-1 (KRIT1) to the Nucleus. <i>Journal of Biological Chemistry</i> , 2017, 292, 1884-1898.	1.6	19
129	Integrin and cadherin clusters: A robust way to organize adhesions for cell mechanics. <i>BioEssays</i> , 2017, 39, 1-12.	1.2	101
130	Structure and lipid-binding properties of the kindlin-3 pleckstrin homology domain. <i>Biochemical Journal</i> , 2017, 474, 539-556.	1.7	40
131	Talin regulates integrin β 1 dependent and independent cell functions in ureteric bud development. <i>Development (Cambridge)</i> , 2017, 144, 4148-4158.	1.2	8
132	Lucky kindlin: A cloverleaf at the integrin tail. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9234-9236.	3.3	12
133	β -Actinin Induces a Kink in the Transmembrane Domain of β 3-Integrin and Impairs Activation via Talin. <i>Biophysical Journal</i> , 2017, 113, 948-956.	0.2	16
134	Multiplexing molecular tension sensors reveals piconewton force gradient across talin-1. <i>Nature Methods</i> , 2017, 14, 1090-1096.	9.0	120
135	Novel ecto-tagged integrins reveal their trafficking in live cells. <i>Nature Communications</i> , 2017, 8, 570.	5.8	39
136	Mechanotransduction at the cell-matrix interface. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 75-83.	2.3	198
137	Integrin β 3 outside-in signaling. <i>Blood</i> , 2017, 130, 1607-1619.	0.6	172
138	Integrin β 1 activation by micro-scale curvature promotes pro-angiogenic secretion of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7415-7425.	2.9	13
139	Focal adhesions: a personal perspective on a half century of progress. <i>FEBS Journal</i> , 2017, 284, 3355-3361.	2.2	184
140	Structure of Rap1b bound to talin reveals a pathway for triggering integrin activation. <i>Nature Communications</i> , 2017, 8, 1744.	5.8	82
141	Direction of actin flow dictates integrin LFA-1 orientation during leukocyte migration. <i>Nature Communications</i> , 2017, 8, 2047.	5.8	83
142	Pressure-Dependent Chemical Shifts in the R3 Domain of Talin Show that It Is Thermodynamically Poised for Binding to Either Vinculin or RIAM. <i>Structure</i> , 2017, 25, 1856-1866.e2.	1.6	15
143	Mechanotransduction of matrix stiffness in regulation of focal adhesion size and number: reciprocal regulation of caveolin-1 and β 1 integrin. <i>Scientific Reports</i> , 2017, 7, 15008.	1.6	119
144	Fibronectin-bound β 1 integrins sense load and signal to reinforce adhesion in less than a second. <i>Nature Materials</i> , 2017, 16, 1262-1270.	13.3	109

#	ARTICLE	IF	CITATIONS
145	Tensins: Bridging AMP-Activated Protein Kinase with Integrin Activation. <i>Trends in Cell Biology</i> , 2017, 27, 703-711.	3.6	25
146	Kindlin-2 Regulates the Growth of Breast Cancer Tumors by Activating CSF-1-Mediated Macrophage Infiltration. <i>Cancer Research</i> , 2017, 77, 5129-5141.	0.4	52
147	Loss of mouse cardiomyocyte talin-1 and talin-2 leads to β 1-integrin reduction, costameric instability, and dilated cardiomyopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6250-E6259.	3.3	54
148	Talin – the master of integrin adhesions. <i>Journal of Cell Science</i> , 2017, 130, 2435-2446.	1.2	222
149	LFA-1 activates focal adhesion kinases FAK1/PYK2 to generate LAT-GRB2-SKAP1 complexes that terminate T-cell conjugate formation. <i>Nature Communications</i> , 2017, 8, 16001.	5.8	50
150	Single and collective cell migration: the mechanics of adhesions. <i>Molecular Biology of the Cell</i> , 2017, 28, 1833-1846.	0.9	287
151	Downregulation of Talin-1 expression associates with increased proliferation and migration of vascular smooth muscle cells in aortic dissection. <i>BMC Cardiovascular Disorders</i> , 2017, 17, 162.	0.7	28
152	PIP3 and talin couple phosphoinositide and adhesion signaling to control the epithelial to mesenchymal transition. <i>Oncogene</i> , 2017, 36, 899-911.	2.6	14
153	Differential expression of cytoskeletal regulatory factors in the adolescent prefrontal cortex: Implications for cortical development. <i>Journal of Neuroscience Research</i> , 2017, 95, 1123-1143.	1.3	56
154	A proteomics view on integrin-mediated adhesions. <i>Proteomics</i> , 2017, 17, 1600022.	1.3	57
155	β 3-integrins negatively regulate cellular forces by phosphorylation of its distal NPXY site. <i>Biology of the Cell</i> , 2017, 109, 127-137.	0.7	25
156	Insufficient Radiofrequency Ablation Treated Hepatocellular Carcinoma Cells Promote Metastasis by Up-Regulation ITGB3. <i>Journal of Cancer</i> , 2017, 8, 3742-3754.	1.2	30
157	Kindlin-2 Modulates the Survival, Differentiation, and Migration of Induced Pluripotent Cell-Derived Mesenchymal Stromal Cells. <i>Stem Cells International</i> , 2017, 2017, 1-13.	1.2	10
158	Using xCELLigence RTCA Instrument to Measure Cell Adhesion. <i>Bio-protocol</i> , 2017, 7, .	0.2	46
159	Biophysical Tools to Study Cellular Mechanotransduction. <i>Bioengineering</i> , 2017, 4, 12.	1.6	34
160	Potential Coagulation Factor-Driven Pro-Inflammatory Responses in Ovarian Cancer Tissues Associated with Insufficient O ₂ and Plasma Supply. <i>International Journal of Molecular Sciences</i> , 2017, 18, 809.	1.8	8
161	The Antibody-Secreting Cell Response to Infection: Kinetics and Clinical Applications. <i>Frontiers in Immunology</i> , 2017, 8, 630.	2.2	64
162	Regulation of inside-out β 1-integrin activation by CDCP1. <i>Oncogene</i> , 2018, 37, 2817-2836.	2.6	17

#	ARTICLE	IF	CITATIONS
163	Nanodiscs: A Controlled Bilayer Surface for the Study of Membrane Proteins. Annual Review of Biophysics, 2018, 47, 107-124.	4.5	68
164	Kindlin-1 Regulates Astrocyte Activation and Pain Sensitivity in Rats With Neuropathic Pain. Regional Anesthesia and Pain Medicine, 2018, 43, 1.	1.1	13
165	Integrins promote axonal regeneration after injury of the nervous system. Biological Reviews, 2018, 93, 1339-1362.	4.7	81
166	Measuring Integrin Conformational Change on the Cell Surface with Super-Resolution Microscopy. Cell Reports, 2018, 22, 1903-1912.	2.9	47
167	Integrin diversity brings specificity in mechanotransduction. Biology of the Cell, 2018, 110, 49-64.	0.7	91
168	Integrin-bound talin head inhibits actin filament barbed-end elongation. Journal of Biological Chemistry, 2018, 293, 2586-2596.	1.6	17
169	Chlamydial virulence factor TarP mimics talin to disrupt the talinâ€vincludin complex. FEBS Letters, 2018, 592, 1751-1760.	1.3	11
170	Integrin Activation Controls Regulatory T Cellâ€Mediated Peripheral Tolerance. Journal of Immunology, 2018, 200, 4012-4023.	0.4	44
171	Î²1 and Î²3 integrins in breast, prostate and pancreatic cancer: A novel implication (Review). Oncology Letters, 2018, 15, 5412-5416.	0.8	50
172	Binding of Î±vÎ²3 Integrin-Specific Radiotracers Is Modulated by Both Integrin Expression Level and Activation Status. Molecular Imaging and Biology, 2018, 20, 27-36.	1.3	15
173	Vascular Guidance Cues. , 2018, , 616-626.		0
174	Talin1 Methylation Is Required for Neutrophil Infiltration and Lipopolysaccharide-Induced Lethality. Journal of Immunology, 2018, 201, 3651-3661.	0.4	10
175	Direct binding of Talin to Rap1 is required for cell-ECM adhesion in Drosophila. Journal of Cell Science, 2018, 131, .	1.2	28
176	Collagen density modulates triple-negative breast cancer cell metabolism through adhesion-mediated contractility. Scientific Reports, 2018, 8, 17094.	1.6	51
177	Kindlin-2 interacts with and stabilizes DNMT1 to promote breast cancer development. International Journal of Biochemistry and Cell Biology, 2018, 105, 41-51.	1.2	26
178	Talin as a mechanosensitive signaling hub. Journal of Cell Biology, 2018, 217, 3776-3784.	2.3	174
179	Kindlin-2 interacts with a highly-conserved surface of ILK to regulate focal adhesion localization and cell spreading. Journal of Cell Science, 2018, 131, .	1.2	28
180	Local Tension on Talin in Focal Adhesions Correlates with F-Actin Alignment at the Nanometer Scale. Biophysical Journal, 2018, 115, 1569-1579.	0.2	28

#	ARTICLE	IF	CITATIONS
181	Kindlin-2 regulates hepatic stellate cells activation and liver fibrogenesis. <i>Cell Death Discovery</i> , 2018, 4, 34.	2.0	17
182	Computational investigation of the $\beta_2\beta_1$ integrin-collagen triple helix complex interaction. <i>New Journal of Chemistry</i> , 2018, 42, 17115-17125.	1.4	16
183	Autonomous conformational regulation of β_3 integrin and the conformation-dependent property of HPA-1a alloantibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9105-E9114.	3.3	21
184	Forecast of actin-binding proteins as the oncotarget in osteosarcoma – a review of mechanism, diagnosis and therapy. <i>OncoTargets and Therapy</i> , 2018, Volume 11, 1553-1561.	1.0	7
185	Profilin 1-mediated cytoskeletal rearrangements regulate integrin function in mouse platelets. <i>Blood Advances</i> , 2018, 2, 1040-1045.	2.5	12
186	Selectins and chemokines use shared and distinct signals to activate β_2 integrins in neutrophils. <i>Blood Advances</i> , 2018, 2, 731-744.	2.5	40
187	Differential Binding of Active and Inactive Integrin to Talin. <i>Protein Journal</i> , 2018, 37, 280-289.	0.7	4
188	Limb-Bud and Heart Attenuates Growth and Invasion of Human Lung Adenocarcinoma Cells and Predicts Survival Outcome. <i>Cellular Physiology and Biochemistry</i> , 2018, 47, 223-234.	1.1	28
189	The biology of the platelet with special reference to inflammation wound healing and immunity. <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 726-751.	3.0	97
190	Mechanical unfolding reveals stable 3-helix intermediates in talin and β -catenin. <i>PLoS Computational Biology</i> , 2018, 14, e1006126.	1.5	15
191	ProLIF: quantitative integrin protein-protein interactions and synergistic membrane effects on proteoliposomes. <i>Journal of Cell Science</i> , 2018, 132, .	1.2	9
192	LFA-1 in T Cell Migration and Differentiation. <i>Frontiers in Immunology</i> , 2018, 9, 952.	2.2	189
193	Integrin Activation: Implications for Axon Regeneration. <i>Cells</i> , 2018, 7, 20.	1.8	38
194	The membrane-distal regions of integrin β cytoplasmic domains contribute differently to integrin inside-out activation. <i>Scientific Reports</i> , 2018, 8, 5067.	1.6	8
195	The tale of two talins – two isoforms to fine-tune integrin signalling. <i>FEBS Letters</i> , 2018, 592, 2108-2125.	1.3	68
196	The Kank family proteins in adhesion dynamics. <i>Current Opinion in Cell Biology</i> , 2018, 54, 130-136.	2.6	32
197	Critical role of integrin CD11c in splenic dendritic cell capture of missing-self CD47 cells to induce adaptive immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6786-6791.	3.3	68
198	Cell-Extracellular Matrix Interactions in Repair and Regeneration. , 2019, , 15-35.		5

#	ARTICLE	IF	CITATIONS
199	Adhesive dynamics simulations quantitatively predict effects of kindlin-3 deficiency on T-cell homing. <i>Integrative Biology</i> (United Kingdom), 2019, 11, 293-300.	0.6	2
200	Integrin α 1 polymorphisms and bleeding risk after coronary artery stenting. <i>Molecular Biology Reports</i> , 2019, 46, 5695-5702.	1.0	0
201	Structural Basis of Paxillin Recruitment by Kindlin-2 in Regulating Cell Adhesion. <i>Structure</i> , 2019, 27, 1686-1697.e5.	1.6	33
202	Regulation of cell adhesion: a collaborative effort of integrins, their ligands, cytoplasmic actors, and phosphorylation. <i>Quarterly Reviews of Biophysics</i> , 2019, 52, e10.	2.4	22
203	The Kindlin Outside Connection. <i>Structure</i> , 2019, 27, 1615-1616.	1.6	0
204	Integrin β 1 cytoplasmic tail is required for FAK activation to initiate 3D cell invasion and ERK-mediated cell proliferation. <i>Scientific Reports</i> , 2019, 9, 15283.	1.6	20
205	The Architecture of Talin1 Reveals an Autoinhibition Mechanism. <i>Cell</i> , 2019, 179, 120-131.e13.	13.5	93
206	Extracellular Matrix Remodeling of Adipose Tissue in Obesity and Metabolic Diseases. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4888.	1.8	149
207	Rap1 and membrane lipids cooperatively recruit talin to trigger integrin activation. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	42
208	Connexins and Integrins in Exosomes. <i>Cancers</i> , 2019, 11, 106.	1.7	62
209	Shigella IpaA Binding to Talin Stimulates Filopodial Capture and Cell Adhesion. <i>Cell Reports</i> , 2019, 26, 921-932.e6.	2.9	17
210	Talin-Dependent Integrin Activation Regulates VE-Cadherin Localization and Endothelial Cell Barrier Function. <i>Circulation Research</i> , 2019, 124, 891-903.	2.0	59
211	Comparative adhesive and migratory properties of mesenchymal stem cells from different tissues. <i>Biorheology</i> , 2019, 56, 15-30.	1.2	14
212	A β 2-Integrin/MRTF-A/SRF Pathway Regulates Dendritic Cell Gene Expression, Adhesion, and Traction Force Generation. <i>Frontiers in Immunology</i> , 2019, 10, 1138.	2.2	21
213	Integrin Mechano-chemical Signaling Generates Plasma Membrane Nanodomains that Promote Cell Spreading. <i>Cell</i> , 2019, 177, 1738-1756.e23.	13.5	99
214	GGA2 and RAB13 promote activity-dependent β 1-integrin recycling. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	24
215	Breast Cancer Tumor Stroma: Cellular Components, Phenotypic Heterogeneity, Intercellular Communication, Prognostic Implications and Therapeutic Opportunities. <i>Cancers</i> , 2019, 11, 664.	1.7	67
216	A potential bioactive peptide candidate for biomaterial and tissue engineering applications. <i>Life Sciences</i> , 2019, 226, 140-148.	2.0	5

#	ARTICLE	IF	CITATIONS
217	Rap1 binding and a lipid-dependent helix in talin F1 domain promote integrin activation in tandem. <i>Journal of Cell Biology</i> , 2019, 218, 1799-1809.	2.3	45
218	Expression of new genes in vertebrate tooth development and p63 signaling. <i>Developmental Dynamics</i> , 2019, 248, 744-755.	0.8	7
219	Coarse-Grained Simulation of Full-Length Integrin Activation. <i>Biophysical Journal</i> , 2019, 116, 1000-1010.	0.2	22
220	Integrin activation by the lipid molecule 25-hydroxycholesterol induces a proinflammatory response. <i>Nature Communications</i> , 2019, 10, 1482.	5.8	43
221	The effect of divalent metal cations on the β integrin binding site is ligand and integrin specific. <i>Biomedicine and Pharmacotherapy</i> , 2019, 110, 362-370.	2.5	6
222	Molecular Players in Hematologic Tumor Cell Trafficking. <i>Frontiers in Immunology</i> , 2019, 10, 156.	2.2	40
223	Talin promotes integrin activation accompanied by generation of tension in talin and an increase in osmotic pressure in neurite outgrowth. <i>FASEB Journal</i> , 2019, 33, 6311-6326.	0.2	12
224	Integrin signaling and mechanotransduction in regulation of somatic stem cells. <i>Experimental Cell Research</i> , 2019, 378, 217-225.	1.2	40
225	Emerging Diversity in Lipid-Protein Interactions. <i>Chemical Reviews</i> , 2019, 119, 5775-5848.	23.0	299
226	Probing the mechanical landscape – new insights into podosome architecture and mechanics. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	66
227	Microtubules at focal adhesions – a double-edged sword. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	74
228	Macrophage Colony-stimulating Factor Mediates the Recruitment of Macrophages in Triple negative Breast Cancer. <i>International Journal of Biological Sciences</i> , 2019, 15, 2859-2871.	2.6	20
229	Integrin crosstalk allows CD4+ T lymphocytes to continue migrating in the upstream direction after flow. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 384-393.	0.6	14
230	Adhesions Assemble! – Autoinhibition as a Major Regulatory Mechanism of Integrin-Mediated Adhesion. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 144.	1.6	31
231	General structural features that regulate integrin affinity revealed by atypical β . <i>Nature Communications</i> , 2019, 10, 5481.	5.8	28
232	The Extracellular, Cellular, and Nuclear Stiffness, a Trinity in the Cancer Resistome – A Review. <i>Frontiers in Oncology</i> , 2019, 9, 1376.	1.3	69
233	Regulation of immune cell trafficking by febrile temperatures. <i>International Journal of Hyperthermia</i> , 2019, 36, 17-21.	1.1	4
234	Integrin activation by talin, kindlin and mechanical forces. <i>Nature Cell Biology</i> , 2019, 21, 25-31.	4.6	365

#	ARTICLE	IF	CITATIONS
235	p62/SQSTM1 Fuels Melanoma Progression by Opposing mRNA Decay of a Selective Set of Pro-metastatic Factors. <i>Cancer Cell</i> , 2019, 35, 46-63.e10.	7.7	50
236	Role of nuclear mechanosensitivity in determining cellular responses to forces and biomaterials. <i>Biomaterials</i> , 2019, 197, 60-71.	5.7	37
237	An Introduction to LFA-1/ICAM-1 Interactions in T-Cell Motility. <i>Methods in Molecular Biology</i> , 2019, 1930, 1-9.	0.4	3
238	Fever Promotes T Lymphocyte Trafficking via a Thermal Sensory Pathway Involving Heat Shock Protein 90 and β 4 Integrins. <i>Immunity</i> , 2019, 50, 137-151.e6.	6.6	69
239	Pharmacological characterisation of a tool β 1 integrin small molecule RGD-mimetic inhibitor. <i>European Journal of Pharmacology</i> , 2019, 842, 239-247.	1.7	15
240	Inflammation and Regulation by Integrin Cell Adhesion Antagonists. , 2019, , 43-68.		2
241	Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. <i>Nature Materials</i> , 2020, 19, 669-678.	13.3	66
242	Intracellular Force Measurements in Live Cells With Förster Resonance Energy Transfer-Based Molecular Tension Sensors. , 2020, , 161-171.		0
243	The F1 loop of the talin head domain acts as a gatekeeper in integrin activation and clustering. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	18
244	Mechanical Unfolding of Proteins—A Comparative Nonequilibrium Molecular Dynamics Study. <i>Biophysical Journal</i> , 2020, 119, 939-949.	0.2	7
245	The role of integrins in inflammation and angiogenesis. <i>Pediatric Research</i> , 2021, 89, 1619-1626.	1.1	154
246	Tensional homeostasis at different length scales. <i>Soft Matter</i> , 2020, 16, 6946-6963.	1.2	21
247	The intercalated disc: a mechanosensing signalling node in cardiomyopathy. <i>Biophysical Reviews</i> , 2020, 12, 931-946.	1.5	21
248	Different Vinculin Binding Sites Use the Same Mechanism to Regulate Directional Force Transduction. <i>Biophysical Journal</i> , 2020, 118, 1344-1356.	0.2	21
249	GIV—Kindlin Interaction Is Required for Kindlin-Mediated Integrin Recognition and Activation. <i>Science</i> , 2020, 23, 101209.	1.9	11
250	Hyaloid vasculature and mmp2 activity play a role during optic fissure fusion in zebrafish. <i>Scientific Reports</i> , 2020, 10, 10136.	1.6	13
251	Actin flow-dependent and -independent force transmission through integrins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32413-32422.	3.3	22
252	Implicating ILK in inflammation. <i>Blood</i> , 2020, 136, 2097-2099.	0.6	4

#	ARTICLE	IF	CITATIONS
253	Differences in self-association between kindlin-2 and kindlin-3 are associated with differential integrin binding. <i>Journal of Biological Chemistry</i> , 2020, 295, 11161-11173.	1.6	13
254	Mechanotransduction and Stiffness-Sensing: Mechanisms and Opportunities to Control Multiple Molecular Aspects of Cell Phenotype as a Design Cornerstone of Cell-Instructive Biomaterials for Articular Cartilage Repair. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5399.	1.8	41
255	Cell stretching is amplified by active actin remodelling to deform and recruit proteins in mechanosensitive structures. <i>Nature Cell Biology</i> , 2020, 22, 1011-1023.	4.6	35
256	Talin1 controls dendritic cell activation by regulating TLR complex assembly and signaling. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	12
257	Requirements for cDC2 positioning in blood-exposed regions of the neonatal and adult spleen. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	8
258	Low expression of Talin1 is associated with advanced pathological features in colorectal cancer patients. <i>Scientific Reports</i> , 2020, 10, 17786.	1.6	18
259	Rabgap1 promotes recycling of active β 1 integrins to support effective cell migration. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	10
260	Prediction of Catch-Slip Bond Transition of Kindlin2/ β 3 Integrin via Steered Molecular Dynamics Simulation. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 5132-5141.	2.5	15
261	Alzheimer's, Parkinson's Disease and Amyotrophic Lateral Sclerosis Gene Expression Patterns Divergence Reveals Different Grade of RNA Metabolism Involvement. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9500.	1.8	23
262	Recent Advances and Prospects in the Research of Nascent Adhesions. <i>Frontiers in Physiology</i> , 2020, 11, 574371.	1.3	14
263	Advancing Cell-Instructive Biomaterials Through Increased Understanding of Cell Receptor Spacing and Material Surface Functionalization. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 533-547.	1.6	6
264	Molecular Regulators of Cellular Mechanoadaptation at Cell-Material Interfaces. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 608569.	2.0	12
265	Crystal structure of the FERM-folded talin head reveals the determinants for integrin binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32402-32412.	3.3	26
266	Cadherins, Selectins, and Integrins in CAM-DR in Leukemia. <i>Frontiers in Oncology</i> , 2020, 10, 592733.	1.3	25
267	Phagocytic Integrins: Activation and Signaling. <i>Frontiers in Immunology</i> , 2020, 11, 738.	2.2	49
268	Cellular locomotion using environmental topography. <i>Nature</i> , 2020, 582, 582-585.	13.7	150
269	RIAM-VASP Module Relays Integrin Complement Receptors in Outside-In Signaling Driving Particle Engulfment. <i>Cells</i> , 2020, 9, 1166.	1.8	16
270	Integrin adhesion in brain assembly: From molecular structure to neuropsychiatric disorders. <i>European Journal of Neuroscience</i> , 2021, 53, 3831-3850.	1.2	42

#	ARTICLE	IF	CITATIONS
271	Anti-correlation of HER2 and focal adhesion complexes in the plasma membrane. PLoS ONE, 2020, 15, e0234430.	1.1	5
272	Coexisting EGFR and TP53 Mutations in Lung Adenocarcinoma Patients Are Associated With COMP and ITGB8 Upregulation and Poor Prognosis. Frontiers in Molecular Biosciences, 2020, 7, 30.	1.6	16
273	Nanoscale integrin cluster dynamics controls cellular mechanosensing via FAKY397 phosphorylation. Science Advances, 2020, 6, eaax1909.	4.7	69
274	Kindlin Assists Talin to Promote Integrin Activation. Biophysical Journal, 2020, 118, 1977-1991.	0.2	28
275	Podosome formation promotes plasma membrane invagination and integrin- β 23 endocytosis on a viscous RGD-membrane. Communications Biology, 2020, 3, 117.	2.0	16
276	Multimodal Analysis of Composition and Spatial Architecture in Human Squamous Cell Carcinoma. Cell, 2020, 182, 497-514.e22.	13.5	508
277	Structural basis of human full-length kindlin-3 homotrimer in an auto-inhibited state. PLoS Biology, 2020, 18, e3000755.	2.6	26
278	Talin B regulates collective cell migration via PI3K signaling in Dictyostelium discoideum mounds. Biochemical and Biophysical Research Communications, 2020, 525, 372-377.	1.0	4
279	Chapter 22: Structural and signaling functions of integrins. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183206.	1.4	101
280	The dynamics of cell-extracellular matrix interactions, with implications for tissue engineering. , 2020, , 93-117.		4
281	PHIP drives glioblastoma motility and invasion by regulating the focal adhesion complex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9064-9073.	3.3	27
282	Activation and suppression of hematopoietic integrins in hemostasis and immunity. Blood, 2020, 135, 7-16.	0.6	23
283	Functional interactions of ion channels with the actin cytoskeleton: does coupling to dynamic actin regulate NMDA receptors?. Journal of Physiology, 2021, 599, 431-441.	1.3	21
284	Integrin affinity modulation critically regulates atherogenic endothelial activation in vitro and in vivo. Matrix Biology, 2021, 96, 87-103.	1.5	3
285	Kindlin-3 recruitment to the plasma membrane precedes high-affinity β 2-integrin and neutrophil arrest from rolling. Blood, 2021, 137, 29-38.	0.6	30
286	Initiation of focal adhesion assembly by talin and kindlin: A dynamic view. Protein Science, 2021, 30, 531-542.	3.1	24
287	Immunological Role and Prognostic Value of APBB1IP in Pan-Cancer Analysis. Journal of Cancer, 2021, 12, 595-610.	1.2	24
288	The Mechanical Basis of Memory - the MeshCODE Theory. Frontiers in Molecular Neuroscience, 2021, 14, 592951.	1.4	24

#	ARTICLE	IF	CITATIONS
289	Î²2 Integrin Signaling Cascade in Neutrophils: More Than a Single Function. <i>Frontiers in Immunology</i> , 2020, 11, 619925.	2.2	47
290	Syndecans and Pancreatic Ductal Adenocarcinoma. <i>Biomolecules</i> , 2021, 11, 349.	1.8	14
291	Quantitative single-protein imaging reveals molecular complex formation of integrin, talin, and kindlin during cell adhesion. <i>Nature Communications</i> , 2021, 12, 919.	5.8	31
292	Kindlin3 regulates biophysical properties and mechanics of membrane to cortex attachment. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4003-4018.	2.4	5
293	Vimentin tunes cell migration on collagen by controlling Î²1 integrin activation and clustering. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	30
294	A High-Resolution Ternary Model Demonstrates How PEGylated 2D Nanomaterial Stimulates Integrin $\alpha 5 \beta 1$ on Cell Membrane. <i>Advanced Science</i> , 2021, 8, e2004506.	5.6	6
296	Pre-complexation of talin and vinculin without tension is required for efficient nascent adhesion maturation. <i>ELife</i> , 2021, 10, .	2.8	36
297	Cardiac Fibrosis: Key Role of Integrins in Cardiac Homeostasis and Remodeling. <i>Cells</i> , 2021, 10, 770.	1.8	34
298	The Activation and Regulation of Î²2 Integrins in Phagocytes and Phagocytosis. <i>Frontiers in Immunology</i> , 2021, 12, 633639.	2.2	22
299	Active integrins regulate white adipose tissue insulin sensitivity and brown fat thermogenesis. <i>Molecular Metabolism</i> , 2021, 45, 101147.	3.0	30
300	Insight Into Pathological Integrin $\alpha 5 \beta 1$ Activation From Safeguarding The Inactive State. <i>Journal of Molecular Biology</i> , 2021, 433, 166832.	2.0	2
301	Functional Mapping of Adhesiveness on Live Cells Reveals How Guidance Phenotypes Can Emerge From Complex Spatiotemporal Integrin Regulation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 625366.	2.0	5
302	Emerging evidence for kindlin oligomerization and its role in regulating kindlin function. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	13
303	Vimentin regulates the assembly and function of matrix adhesions. <i>Wound Repair and Regeneration</i> , 2021, 29, 602-612.	1.5	30
304	The roles of integrins in cancer. <i>Faculty Reviews</i> , 2021, 10, 45.	1.7	21
305	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions. <i>Nature Communications</i> , 2021, 12, 3104.	5.8	37
306	Bottom-up reconstitution of focal adhesion complexes. <i>FEBS Journal</i> , 2022, 289, 3360-3373.	2.2	23
307	The proprotein convertase furin inhibits IL-13-induced inflammation in airway smooth muscle by regulating integrin-associated signaling complexes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L102-L115.	1.3	4

#	ARTICLE	IF	CITATIONS
308	Polydopamine-based biofunctional substrate coating promotes mesenchymal stem cell migration. <i>MRS Advances</i> , 2021, 6, 739-744.	0.5	6
310	Kindlin-3 disrupts an intersubunit association in the integrin LFA1 to trigger positive feedback activation by Rap1 and talin1. <i>Science Signaling</i> , 2021, 14, .	1.6	10
311	With an Ear Up against the Wall: An Update on Mechanoperception in Arabidopsis. <i>Plants</i> , 2021, 10, 1587.	1.6	2
312	Talin rod domain-containing protein 1 (TLNRD1) is a novel actin-bundling protein which promotes filopodia formation. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	9
314	Binding of Rap1 and Riam to Talin1 Fine-Tune β 2 Integrin Activity During Leukocyte Trafficking. <i>Frontiers in Immunology</i> , 2021, 12, 702345.	2.2	13
315	Endothelial connexin-integrin crosstalk in vascular inflammation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166168.	1.8	6
316	Emerging therapeutic opportunities for integrin inhibitors. <i>Nature Reviews Drug Discovery</i> , 2022, 21, 60-78.	21.5	191
318	Dissecting the Inorganic Nanoparticle-Driven Interferences on Adhesome Dynamics. <i>Journal of Nanotheranostics</i> , 2021, 2, 174-195.	1.7	1
320	Kindlin-2 deletion in osteoprogenitors causes severe chondrodysplasia and low-turnover osteopenia in mice. <i>Journal of Orthopaedic Translation</i> , 2022, 32, 41-48.	1.9	17
321	Integrins in the Regulation of Mesenchymal Stem Cell Differentiation by Mechanical Signals. <i>Stem Cell Reviews and Reports</i> , 2022, 18, 126-141.	1.7	18
322	The Yin and Yang of Cancer Cell Growth and Mechanosensing. <i>Cancers</i> , 2021, 13, 4754.	1.7	10
324	CLIC1 recruits PIP5K1A/C to induce cell-matrix adhesions for tumor metastasis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	38
325	Optogenetics-based localization of talin to the plasma membrane promotes activation of β 3 integrins. <i>Journal of Biological Chemistry</i> , 2021, 296, 100675.	1.6	5
326	The multiple roles of actin-binding proteins at invadopodia. <i>International Review of Cell and Molecular Biology</i> , 2021, 360, 99-132.	1.6	6
327	Soluble CD40L activates soluble and cell-surface integrin α v β 3, α 5 β 1, and α 4 β 1 by binding to the allosteric ligand-binding site (site 2). <i>Journal of Biological Chemistry</i> , 2021, 296, 100399.	1.6	8
328	Regulation of Cell-Matrix Adhesion Networks: Insights from Proteomics. <i>Biology of Extracellular Matrix</i> , 2020, , 183-208.	0.3	2
329	Regulation of Integrin Activity by Phosphorylation. <i>Advances in Experimental Medicine and Biology</i> , 2014, 819, 85-96.	0.8	13
330	Integrins in Vascular Development and Pathology. <i>Advances in Pharmacology</i> , 2018, 81, 129-153.	1.2	15

#	ARTICLE	IF	CITATIONS
331	Reciprocal integrin/integrin antagonism through kindlin-2 and Rho GTPases regulates cell cohesion and collective migration. <i>Matrix Biology</i> , 2020, 93, 60-78.	1.5	18
332	Focal adhesion protein Kindlin-2 regulates bone homeostasis in mice. <i>Bone Research</i> , 2020, 8, 2.	5.4	50
333	Actin polymerization downstream of integrins: signaling pathways and mechanotransduction. <i>Biochemical Journal</i> , 2020, 477, 1-21.	1.7	73
334	Relief of talin autoinhibition triggers a force-independent association with vinculin. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	39
335	Distinct integrin activation pathways for effector and regulatory T cell trafficking and function. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	27
342	Podocyte-associated talin1 is critical for glomerular filtration barrier maintenance. <i>Journal of Clinical Investigation</i> , 2014, 124, 1098-1113.	3.9	122
343	Î²-Integrin de-phosphorylation by the Density-Enhanced Phosphatase DEP-1 attenuates EGFR signaling in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2017, 13, e1006592.	1.5	17
344	Targeting Integrin-Dependent Adhesion and Signaling with 3-Arylquinoline and 3-Aryl-2-Quinolone Derivatives: A new Class of Integrin Antagonists. <i>PLoS ONE</i> , 2015, 10, e0141205.	1.1	4
345	Î±IIbÎ²3 variants in ten families with autosomal dominant macrothrombocytopenia: Expanding the mutational and clinical spectrum. <i>PLoS ONE</i> , 2020, 15, e0235136.	1.1	8
346	Structural analysis of <i>P. falciparum</i> KAHRP and PfEMP1 complexes with host erythrocyte spectrin suggests a model for cytoadherent knob protrusions. <i>PLoS Pathogens</i> , 2017, 13, e1006552.	2.1	26
347	SNARE-associated proteins and receptor trafficking. <i>Receptors & Clinical Investigation</i> , 0, , .	0.9	1
348	Integrins in disguise “mechanosensors in <i>Saccharomyces cerevisiae</i> as functional integrin analogues. <i>Microbial Cell</i> , 2019, 6, 335-355.	1.4	25
349	Elevated kindlin-2 promotes tumour progression and angiogenesis through the mTOR/VEGFA pathway in melanoma. <i>Aging</i> , 2019, 11, 6273-6285.	1.4	11
350	Talin: A Potential Drug Target for Cancer Therapy. <i>Current Drug Metabolism</i> , 2020, 21, 25-32.	0.7	12
351	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. <i>ELife</i> , 2016, 5, e10130.	2.8	213
352	Talin-KANK1 interaction controls the recruitment of cortical microtubule stabilizing complexes to focal adhesions. <i>ELife</i> , 2016, 5, .	2.8	150
353	DDR2 controls breast tumor stiffness and metastasis by regulating integrin mediated mechanotransduction in CAFs. <i>ELife</i> , 2019, 8, .	2.8	71
354	Phosphoinositides regulate force-independent interactions between talin, vinculin, and actin. <i>ELife</i> , 2020, 9, .	2.8	39

#	ARTICLE	IF	CITATIONS
356	Low kindlin-3 levels in osteoclasts of kindlin-3 hypomorphic mice result in osteopetrosis due to leaky sealing zones. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	2
357	Structural determinants of the integrin transmembrane domain required for bidirectional signal transmission across the cell membrane. <i>Journal of Biological Chemistry</i> , 2021, 297, 101318.	1.6	5
359	Platelet Membrane Glycoproteins. , 2017, , 21-37.		0
362	Collagen Stiffness Modulates MDA-MB231 Cell Metabolism Through Adhesion-Mediated Contractility. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
363	OBSOLETE: Vascular Guidance Cues. , 2018, , .		0
366	Leukocyte integrins and their regulation. <i>Japanese Journal of Thrombosis and Hemostasis</i> , 2019, 30, 586-595.	0.1	0
373	Talin in mechanotransduction and mechanomemory at a glance. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	43
374	YBX1 knockdown induces renal cell carcinoma cell apoptosis via Kindlin-2. <i>Cell Cycle</i> , 2021, 20, 2413-2427.	1.3	8
375	Physics and Physiology of Cell Spreading in Two and Three Dimensions. <i>Physiology</i> , 2021, 36, 382-391.	1.6	11
376	Kindlin Signaling and Bone. , 2020, , 449-460.		0
377	Focal Adhesion Proteins Regulate Cellâ€“Matrix and Cellâ€“Cell Adhesion and Act as Force Sensors. <i>Biological and Medical Physics Series</i> , 2020, , 95-140.	0.3	0
378	Single-Protein Tracking to Study Protein Interactions During Integrin-Based Migration. <i>Methods in Molecular Biology</i> , 2021, 2217, 85-113.	0.4	1
379	Transcriptome Analysis of Gills Provides Insights Into Translation Changes Under Hypoxic Stress and Reoxygenation in Golden Pompano, <i>Trachinotus ovatus</i> (Linnaeus 1758). <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	9
382	Kindlinâ€“3 maintains marginal zone B cells but confines follicular B cell activation and differentiation. <i>Journal of Leukocyte Biology</i> , 2021, , .	1.5	3
383	How integrin phosphorylations regulate cell adhesion and signaling. <i>Trends in Biochemical Sciences</i> , 2022, 47, 265-278.	3.7	25
384	Nascent Adhesion Clustering: Integrin-Integrin and Integrin-Substrate Interactions. <i>Biophysica</i> , 2022, 2, 34-58.	0.6	3
386	Cytoskeletal protein degradation in brain death donor kidneys associates with adverse posttransplant outcomes. <i>American Journal of Transplantation</i> , 2022, 22, 1073-1087.	2.6	9
387	Integrin-Mediated Tumorigenesis and Its Therapeutic Applications. <i>Frontiers in Oncology</i> , 2022, 12, 812480.	1.3	4

#	ARTICLE	IF	CITATIONS
388	CD31 Signaling Promotes the Detachment at the Uropod of Extravasating Neutrophils Allowing Their Migration to Sites of Inflammation. SSRN Electronic Journal, 0, , .	0.4	0
389	Direct Binding of Rap1 to Talin1 and to MRL Proteins Promotes Integrin Activation in CD4+ T Cells. Journal of Immunology, 2022, 208, 1378-1388.	0.4	6
390	The Collagen Receptor Discoidin Domain Receptor 1b Enhances Integrin Î²1-Mediated Cell Migration by Interacting With Talin and Promoting Rac1 Activation. Frontiers in Cell and Developmental Biology, 2022, 10, 836797.	1.8	8
391	Talinâ€™1 interaction network in cellular mechanotransduction (Review). International Journal of Molecular Medicine, 2022, 49, .	1.8	12
392	Impact of Vimentin on Regulation of Cell Signaling and Matrix Remodeling. Frontiers in Cell and Developmental Biology, 2022, 10, 869069.	1.8	23
393	ATP allosterically stabilizes integrin-linked kinase for efficient force generation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2106098119.	3.3	5
394	Targeting the cytoskeleton and extracellular matrix in cardiovascular disease drug discovery. Expert Opinion on Drug Discovery, 2022, 17, 443-460.	2.5	5
395	Force-enhanced biophysical connectivity of platelet Î²3 integrin signaling through Talin is predicted by steered molecular dynamics simulations. Scientific Reports, 2022, 12, 4605.	1.6	5
396	Paxillin: A Hub for Mechano-Transduction from the Î²3 Integrin-Talin-Kindlin Axis. Frontiers in Cell and Developmental Biology, 2022, 10, 852016.	1.8	13
397	Adhesion and proliferation properties of type I collagenâ€™derived peptide for possible use in skin tissue engineering application. Cell Biology International, 2022, 46, 391-402.	1.4	3
398	Specification of CNS macrophage subsets occurs postnatally in defined niches. Nature, 2022, 604, 740-748.	13.7	107
403	Molecular mechanisms of leukocyte Î²2 integrin activation. Blood, 2022, 139, 3480-3492.	0.6	21
404	Mechanism of integrin activation by talin and its cooperation with kindlin. Nature Communications, 2022, 13, 2362.	5.8	30
405	ICAPâ€™1 loss impairs CD8 ⁺ thymocyte development and leads to reduced marginal zone B cells in mice. European Journal of Immunology, 2022, , .	1.6	0
406	LFA1 Activation: Insights from a Single-Molecule Approach. Cells, 2022, 11, 1751.	1.8	3
407	Peptide-decorated nanocarriers penetrating the blood-brain barrier for imaging and therapy of brain diseases. Advanced Drug Delivery Reviews, 2022, 187, 114362.	6.6	17
408	Adhesion of Dictyostelium Amoebae to Surfaces: A Brief History of Attachments. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	7
409	The Connection Between Rap1 and Talin1 in the Activation of Integrins in Blood Cells. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	4

#	ARTICLE	IF	CITATIONS
412	Molecular mechanisms of Shigella effector proteins: a common pathogen among diarrheic pediatric population. <i>Molecular and Cellular Pediatrics</i> , 2022, 9, .	1.0	9
413	Integrin Regulators in Neutrophils. <i>Cells</i> , 2022, 11, 2025.	1.8	4
414	Global Proteomics Analysis of Bone Marrow: Establishing Talin-1 and Centrosomal Protein of 55 kDa as Potential Molecular Signatures for Myelodysplastic Syndromes. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	2
415	Phostensin enables lymphocyte integrin activation and population of peripheral lymphoid organs. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	1
416	Kindlin-2 loss in condylar chondrocytes causes spontaneous osteoarthritic lesions in the temporomandibular joint in mice. <i>International Journal of Oral Science</i> , 2022, 14, .	3.6	11
417	Molecular condensation and mechanoregulation of plant class I formin, an integrin-like actin nucleator. <i>FEBS Journal</i> , 2023, 290, 3336-3354.	2.2	3
418	A CRISPR screen targeting PI3K effectors identifies RASA3 as a negative regulator of LFA-1-mediated adhesion in T cells. <i>Science Signaling</i> , 2022, 15, .	1.6	12
420	Molecular basis of clot retraction and its role in wound healing. <i>Thrombosis Research</i> , 2023, 231, 159-169.	0.8	7
421	The explorations of dynamic interactions of paxillin at the focal adhesions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2022, 1870, 140825.	1.1	5
422	Tensin3 interaction with talin drives the formation of fibronectin-associated fibrillar adhesions. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	8
423	Mechanotransduction at the Cell Surface and Methods to Study Receptor Forces. <i>Biomaterials Science Series</i> , 2022, , 44-63.	0.1	0
424	Extracellular Regulation of Cell-to-Matrix Adhesion. , 2022, , .		0
426	Structural Basis of $\beta 2$ Integrin Inside-Out Activation. <i>Cells</i> , 2022, 11, 3039.	1.8	6
427	Organization, dynamics and mechanoregulation of integrin-mediated cell-ECM adhesions. <i>Nature Reviews Molecular Cell Biology</i> , 2023, 24, 142-161.	16.1	91
428	Identification of TLN1 as a prognostic biomarker to effect cell proliferation and differentiation in acute myeloid leukemia. <i>BMC Cancer</i> , 2022, 22, .	1.1	4
429	Dynamically regulated focal adhesions coordinate endothelial cell remodelling in developing vasculature. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	4
430	Tension Enhances the Binding Affinity of $\beta 1$ Integrin by Clamping Talin Tightly: An Insight from Steered Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 5688-5698.	2.5	2
431	TNS1: Emerging Insights into Its Domain Function, Biological Roles, and Tumors. <i>Biology</i> , 2022, 11, 1571.	1.3	6

#	ARTICLE	IF	CITATIONS
434	Novel insights into the origin and development of CNS macrophage subsets. <i>Clinical and Translational Medicine</i> , 2022, 12, .	1.7	2
435	Effects of $\alpha 2$ Integrins on Osteoclasts, Macrophages, Chondrocytes, and Synovial Fibroblasts in Osteoarthritis. <i>Biomolecules</i> , 2022, 12, 1653.	1.8	5
436	Molecular basis for integrin adhesion receptor binding to p21-activated kinase 4 (PAK4). <i>Communications Biology</i> , 2022, 5, .	2.0	0
437	Recent topics regarding macrophage in the central nervous system. <i>Journal of Biochemistry</i> , 0, , .	0.9	1
438	The MeshCODE to scaleâ€”visualising synaptic binary information. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .	1.8	9
439	The $\alpha 1$ domain promotes active $\alpha 1$ integrin clustering into mature adhesion sites. <i>Life Science Alliance</i> , 2023, 6, e202201388.	1.3	3
440	The Role of Molecular and Hormonal Factors in Obesity and the Effects of Physical Activity in Children. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15413.	1.8	2
441	SHP2 deneddylation mediates tumor immunosuppression in colon cancer via the CD47/SIRP α axis. <i>Journal of Clinical Investigation</i> , 2023, 133, .	3.9	8
443	Use of Ecto-Tagged Integrins to Monitor Integrin Exocytosis and Endocytosis. <i>Methods in Molecular Biology</i> , 2023, , 17-38.	0.4	0
444	Targeting integrin pathways: mechanisms and advances in therapy. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	95
445	Molecular mechanisms of integrin $\alpha 8$ activation regulated by graphene, boron nitride and black phosphorus nanosheets. <i>Colloids and Surfaces B: Biointerfaces</i> , 2023, 222, 113139.	2.5	2
446	The interaction of β -arrestin1 with talin1 driven by endothelin A receptor as a feature of $\alpha 5 \beta 1$ integrin activation in high-grade serous ovarian cancer. <i>Cell Death and Disease</i> , 2023, 14, .	2.7	2
447	Integrin-Dependent Cellâ€”Matrix Adhesion in Endothelial Health and Disease. <i>Circulation Research</i> , 2023, 132, 355-378.	2.0	8
448	Platelet Integrins: Critical Mediators of Haemostasis and Pathological Thrombus Formation. <i>Biology of Extracellular Matrix</i> , 2023, , 381-425.	0.3	0
449	In mitosis integrins reduce adhesion to extracellular matrix and strengthen adhesion to adjacent cells. <i>Nature Communications</i> , 2023, 14, .	5.8	7
451	Mechanisms of myeloid cell entry to the healthy and diseased central nervous system. <i>Nature Immunology</i> , 2023, 24, 393-407.	7.0	10
452	Structure, signal transduction, activation, and inhibition of integrin $\alpha \text{IIb} \beta 3$. <i>Thrombosis Journal</i> , 2023, 21, .	0.9	1
453	Membrane Adhesion Junctions Regulate Airway Smooth Muscle Function and Phenotype. <i>Physiological Reviews</i> , 0, , .	13.1	0

#	ARTICLE	IF	CITATIONS
454	Metabolic reprogramming in response to cell mechanics. <i>Biology of the Cell</i> , 2023, 115, .	0.7	4
455	Intrinsically disordered region of talin's FERM domain functions as an initial PIP2 recognition site. <i>Biophysical Journal</i> , 2023, 122, 1277-1286.	0.2	2
457	<i>TLN1</i> contains a cancer-associated cassette exon that alters talin-1 mechanosensitivity. <i>Journal of Cell Biology</i> , 2023, 222, .	2.3	1
458	Î±4 Integrins in Immune Homeostasis and Disease. <i>Biology of Extracellular Matrix</i> , 2023, , 273-307.	0.3	0
459	LFA-1 Activation in T-Cell Migration and Immunological Synapse Formation. <i>Cells</i> , 2023, 12, 1136.	1.8	2
483	The niche matters: origin, function and fate of CNS-associated macrophages during health and disease. <i>Acta Neuropathologica</i> , 2024, 147, .	3.9	1