

David A Calderwood

List of Publications by Year in descending order

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99
papers

11,819
citations

41344

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docs citations

104
times ranked

11373
citing authors

#	ARTICLE	IF	CITATIONS
1	Talin Binding to Integrin β Tails: A Final Common Step in Integrin Activation. <i>Science</i> , 2003, 302, 103-106.	12.6	1,079
2	Integrin signalling at a glance. <i>Journal of Cell Science</i> , 2009, 122, 159-163.	2.0	747
3	The Talin Head Domain Binds to Integrin β Subunit Cytoplasmic Tails and Regulates Integrin Activation. <i>Journal of Biological Chemistry</i> , 1999, 274, 28071-28074.	3.4	617
4	Talins and kindlins: partners in integrin-mediated adhesion. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 503-517.	37.0	486
5	Structural Determinants of Integrin Recognition by Talin. <i>Molecular Cell</i> , 2003, 11, 49-58.	9.7	475
6	Forces and Bond Dynamics in Cell Adhesion. <i>Science</i> , 2007, 316, 1148-1153.	12.6	473
7	Reconstructing and Deconstructing Agonist-Induced Activation of Integrin β . <i>Current Biology</i> , 2006, 16, 1796-1806.	3.9	419
8	Integrins and Actin Filaments: Reciprocal Regulation of Cell Adhesion and Signaling. <i>Journal of Biological Chemistry</i> , 2000, 275, 22607-22610.	3.4	413
9	Integrin activation. <i>Journal of Cell Science</i> , 2004, 117, 657-666.	2.0	411
10	Integrin β cytoplasmic domain interactions with phosphotyrosine-binding domains: A structural prototype for diversity in integrin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2272-2277.	7.1	379
11	The Molecular Basis of Filamin Binding to Integrins and Competition with Talin. <i>Molecular Cell</i> , 2006, 21, 337-347.	9.7	359
12	The Phosphotyrosine Binding-like Domain of Talin Activates Integrins. <i>Journal of Biological Chemistry</i> , 2002, 277, 21749-21758.	3.4	341
13	PEA-15 Mediates Cytoplasmic Sequestration of ERK MAP Kinase. <i>Developmental Cell</i> , 2001, 1, 239-250.	7.0	302
14	Kindlin-1 and -2 Directly Bind the C-terminal Region of β Integrin Cytoplasmic Tails and Exert Integrin-specific Activation Effects. <i>Journal of Biological Chemistry</i> , 2009, 284, 11485-11497.	3.4	262
15	Increased filamin binding to β -integrin cytoplasmic domains inhibits cell migration. <i>Nature Cell Biology</i> , 2001, 3, 1060-1068.	10.3	215
16	Filamins in Mechanosensing and Signaling. <i>Annual Review of Biophysics</i> , 2012, 41, 227-246.	10.0	211
17	Calpain Cleavage Promotes Talin Binding to the β Integrin Cytoplasmic Domain. <i>Journal of Biological Chemistry</i> , 2001, 276, 28164-28170.	3.4	196
18	FAK promotes recruitment of talin to nascent adhesions to control cell motility. <i>Journal of Cell Biology</i> , 2012, 196, 223-232.	5.2	180

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19	Regulation of integrin-mediated adhesions. <i>Current Opinion in Cell Biology</i> , 2015, 36, 41-47.	5.4	168
20	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.	3.4	147
21	The Kindler Syndrome Protein Is Regulated by Transforming Growth Factor- $\beta 2$ and Involved in Integrin-mediated Adhesion. <i>Journal of Biological Chemistry</i> , 2004, 279, 6824-6833.	3.4	142
22	Talin forges the links between integrins and actin. <i>Nature Cell Biology</i> , 2003, 5, 694-696.	10.3	141
23	Talin controls integrin activation. <i>Biochemical Society Transactions</i> , 2004, 32, 434-437.	3.4	138
24	Structure of three tandem filamin domains reveals auto-inhibition of ligand binding. <i>EMBO Journal</i> , 2007, 26, 3993-4004.	7.8	134
25	Structure of a double ubiquitin-like domain in the talin head: a role in integrin activation. <i>EMBO Journal</i> , 2010, 29, 1069-1080.	7.8	127
26	Podocyte-associated talin1 is critical for glomerular filtration barrier maintenance. <i>Journal of Clinical Investigation</i> , 2014, 124, 1098-1113.	8.2	122
27	The N-terminal Domains of Talin Cooperate with the Phosphotyrosine Binding-like Domain to Activate $\beta 1$ and $\beta 3$ Integrins. <i>Journal of Biological Chemistry</i> , 2008, 283, 6118-6125.	3.4	119
28	Integrin Cytoplasmic Tail Interactions. <i>Biochemistry</i> , 2014, 53, 810-820.	2.5	119
29	Distinct Domains of CD98hc Regulate Integrins and Amino Acid Transport. <i>Journal of Biological Chemistry</i> , 2001, 276, 8746-8752.	3.4	112
30	Filamins Regulate Cell Spreading and Initiation of Cell Migration. <i>PLoS ONE</i> , 2009, 4, e7830.	2.5	112
31	Nanopatterning Reveals an ECM Area Threshold for Focal Adhesion Assembly and Force Transmission that is regulated by Integrin Activation and Cytoskeleton Tension. <i>Journal of Cell Science</i> , 2012, 125, 5110-23.	2.0	111
32	The N-terminal SH2 Domains of Syk and ZAP-70 Mediate Phosphotyrosine-independent Binding to Integrin $\beta 2$ Cytoplasmic Domains. <i>Journal of Biological Chemistry</i> , 2002, 277, 39401-39408.	3.4	110
33	Filamin A $\alpha 1$ Integrin Complex Tunes Epithelial Cell Response to Matrix Tension. <i>Molecular Biology of the Cell</i> , 2009, 20, 3224-3238.	2.1	103
34	Chapter 22: Structural and signaling functions of integrins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183206.	2.6	101
35	Structural Basis of the Migfilin-Filamin Interaction and Competition with Integrin $\beta 2$ Tails. <i>Journal of Biological Chemistry</i> , 2008, 283, 35154-35163.	3.4	97
36	Competition for Talin Results in Trans-dominant Inhibition of Integrin Activation. <i>Journal of Biological Chemistry</i> , 2004, 279, 28889-28895.	3.4	95

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37	Class- and Splice Variant-specific Association of CD98 with Integrin $\alpha 5 \beta 1$ Cytoplasmic Domains. <i>Journal of Biological Chemistry</i> , 2000, 275, 5059-5064.	3.4	94
38	Cerebral cavernous malformation proteins at a glance. <i>Journal of Cell Science</i> , 2014, 127, 701-7.	2.0	89
39	The Structure of the N-Terminus of Kindlin-1: A Domain Important for $\alpha 5 \beta 1$ Integrin Activation. <i>Journal of Molecular Biology</i> , 2009, 394, 944-956.	4.2	80
40	Macrophage Mesenchymal Migration Requires Podosome Stabilization by Filamin A. <i>Journal of Biological Chemistry</i> , 2012, 287, 13051-13062.	3.4	78
41	ASB2 targets filamins A and B to proteasomal degradation. <i>Blood</i> , 2008, 112, 5130-5140.	1.4	76
42	Mechanism for KRIT1 Release of ICAP1-Mediated Suppression of Integrin Activation. <i>Molecular Cell</i> , 2013, 49, 719-729.	9.7	76
43	Domain-Specific Interactions of Talin with the Membrane-Proximal Region of the Integrin $\alpha 5 \beta 1$ Subunit. <i>Biochemistry</i> , 2003, 42, 8307-8312.	2.5	75
44	JAM-L α -mediated leukocyte adhesion to endothelial cells is regulated in cis by $\alpha 4 \beta 1$ integrin activation. <i>Journal of Cell Biology</i> , 2008, 183, 1159-1173.	5.2	74
45	The structural basis of integrin-linked kinase α -PINCH interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20677-20682.	7.1	74
46	The Role of FilGAP-Filamin A Interactions in Mechanoprotection. <i>Molecular Biology of the Cell</i> , 2009, 20, 1269-1279.	2.1	74
47	Differential binding to the ILK complex determines kindlin isoform adhesion localization and integrin activation. <i>Journal of Cell Science</i> , 2014, 127, 4308-21.	2.0	60
48	Structural basis of the filamin A actin-binding domain interaction with F-actin. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 918-927.	8.2	60
49	A Conserved Lipid-binding Loop in the Kindlin FERM F1 Domain Is Required for Kindlin-mediated $\alpha 5 \beta 1$ Integrin Coactivation. <i>Journal of Biological Chemistry</i> , 2012, 287, 6979-6990.	3.4	52
50	Uncovering functional differences between kindlin-1 and kindlin-2 in keratinocytes. <i>Journal of Cell Science</i> , 2012, 125, 2172-84.	2.0	46
51	Structural Basis for Small G Protein Effector Interaction of Ras-related Protein 1 (Rap1) and Adaptor Protein Krev Interaction Trapped 1 (KRIT1). <i>Journal of Biological Chemistry</i> , 2012, 287, 22317-22327.	3.4	46
52	CCM2 α -CCM3 interaction stabilizes their protein expression and permits endothelial network formation. <i>Journal of Cell Biology</i> , 2015, 208, 987-1001.	5.2	46
53	Direct Interactions with the Integrin $\alpha 5 \beta 1$ Cytoplasmic Tail Activate the Abl2/Arg Kinase. <i>Journal of Biological Chemistry</i> , 2015, 290, 8360-8372.	3.4	40
54	Loss of TRIM33 causes resistance to BET bromodomain inhibitors through MYC- and TGF- β -dependent mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4558-66.	7.1	40

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55	Novel ecto-tagged integrins reveal their trafficking in live cells. <i>Nature Communications</i> , 2017, 8, 570.	12.8	39
56	Talin and Signaling Through Integrins. <i>Methods in Molecular Biology</i> , 2011, 757, 325-347.	0.9	38
57	Dynamin 2 regulation of integrin endocytosis, but not VEGF signaling, is crucial for developmental angiogenesis. <i>Development (Cambridge)</i> , 2014, 141, 1465-1472.	2.5	36
58	Integrin Cytoskeletal Interactions. <i>Methods in Enzymology</i> , 2007, 426, 69-84.	1.0	35
59	Integrin signalling at a glance. <i>Journal of Cell Science</i> , 2009, 122, 1472-1472.	2.0	35
60	Structural Basis for Paxillin Binding and Focal Adhesion Targeting of β 2-Parvin. <i>Journal of Biological Chemistry</i> , 2012, 287, 32566-32577.	3.4	33
61	Filamin A controls matrix metalloprotease activity and regulates cell invasion in human fibrosarcoma cells.. <i>Journal of Cell Science</i> , 2012, 125, 3858-69.	2.0	33
62	Integrins in the Ovary. <i>Seminars in Reproductive Medicine</i> , 2006, 24, 251-261.	1.1	32
63	TRIM15 is a focal adhesion protein that regulates focal adhesion disassembly. <i>Journal of Cell Science</i> , 2014, 127, 3928-42.	2.0	31
64	Filamin A mediates isotropic distribution of applied force across the actin network. <i>Journal of Cell Biology</i> , 2019, 218, 2481-2491.	5.2	31
65	Kindlin-2 interacts with a highly-conserved surface of ILK to regulate focal adhesion localization and cell spreading. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	28
66	Structural and Functional Characterization of the Kindlin-1 Pleckstrin Homology Domain. <i>Journal of Biological Chemistry</i> , 2012, 287, 43246-43261.	3.4	27
67	The Talin Head Domain Reinforces Integrin-Mediated Adhesion by Promoting Adhesion Complex Stability and Clustering. <i>PLoS Genetics</i> , 2014, 10, e1004756.	3.5	27
68	Molecular Characterisation of Integrin-Procollagen C-Propeptide Interactions. <i>FEBS Journal</i> , 1997, 246, 274-282.	0.2	26
69	Kindlin Binds Migfilin Tandem LIM Domains and Regulates Migfilin Focal Adhesion Localization and Recruitment Dynamics. <i>Journal of Biological Chemistry</i> , 2013, 288, 35604-35616.	3.4	25
70	Signalling through cerebral cavernous malformation protein networks. <i>Open Biology</i> , 2020, 10, 200263.	3.6	24
71	The E3 ubiquitin ligase specificity subunit ASB2 β targets filamins for proteasomal degradation by interacting with the filamin actin-binding domain. <i>Journal of Cell Science</i> , 2011, 124, 2631-2641.	2.0	23
72	PAK6 targets to cell-cell adhesions via its N-terminus in a Cdc42-dependent manner to drive epithelial colony escape. <i>Journal of Cell Science</i> , 2016, 129, 380-93.	2.0	23

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73	Coarse-Grained Simulation of Full-Length Integrin Activation. <i>Biophysical Journal</i> , 2019, 116, 1000-1010.	0.5	22
74	Structural basis of competition between PINCH1 and PINCH2 for binding to the ankyrin repeat domain of integrin-linked kinase. <i>Journal of Structural Biology</i> , 2010, 170, 157-163.	2.8	19
75	Functional and Structural Insights into ASB2 \pm , a Novel Regulator of Integrin-dependent Adhesion of Hematopoietic Cells*. <i>Journal of Biological Chemistry</i> , 2011, 286, 30571-30581.	3.4	19
76	Substrate and Inhibitor Specificity of the Type II p21-Activated Kinase, PAK6. <i>PLoS ONE</i> , 2013, 8, e77818.	2.5	19
77	Nuclear Localization of Integrin Cytoplasmic Domain-associated Protein-1 (ICAP1) Influences β 21 Integrin Activation and Recruits Krev/Interaction Trapped-1 (KRIT1) to the Nucleus. <i>Journal of Biological Chemistry</i> , 2017, 292, 1884-1898.	3.4	19
78	Zasp regulates integrin activation. <i>Journal of Cell Science</i> , 2012, 125, 5647-57.	2.0	17
79	PPP6C negatively regulates oncogenic ERK signaling through dephosphorylation of MEK. <i>Cell Reports</i> , 2021, 34, 108928.	6.4	17
80	ASB2 \pm , an E3 Ubiquitin Ligase Specificity Subunit, Regulates Cell Spreading and Triggers Proteasomal Degradation of Filamins by Targeting the Filamin Calponin Homology 1 Domain. <i>Journal of Biological Chemistry</i> , 2013, 288, 32093-32105.	3.4	15
81	Up-regulation of Thrombospondin-2 in Akt1-null Mice Contributes to Compromised Tissue Repair Due to Abnormalities in Fibroblast Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 409-422.	3.4	14
82	Cell Adhesion: A FERM Grasp of the Tail Sorts Out Integrins. <i>Current Biology</i> , 2012, 22, R692-R694.	3.9	13
83	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.	3.4	13
84	Purification and SAXS Analysis of the Integrin Linked Kinase, PINCH, Parvin (IPP) Heterotrimeric Complex. <i>PLoS ONE</i> , 2013, 8, e55591.	2.5	12
85	Kindlins. <i>Current Biology</i> , 2011, 21, R99-R101.	3.9	11
86	Specificity of integrin I-domain-ligand binding. <i>Biochemical Society Transactions</i> , 1995, 23, 504S-504S.	3.4	9
87	Scaffold association factor B (SAFB) is required for expression of prenyltransferases and RAS membrane association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31914-31922.	7.1	9
88	Dynamin 2 regulation of integrin endocytosis, but not VEGF signaling, is crucial for developmental angiogenesis. <i>Journal of Cell Science</i> , 2014, 127, e1-e1.	2.0	9
89	Tousled-like kinase 2 targets ASF1 histone chaperones through client mimicry. <i>Nature Communications</i> , 2022, 13, 749.	12.8	9
90	The Rap1-RIAM pathway prefers β 2 integrins. <i>Blood</i> , 2015, 126, 2658-2659.	1.4	8

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91	Serine phosphorylation of the small phosphoprotein ICAP1 inhibits its nuclear accumulation. <i>Journal of Biological Chemistry</i> , 2020, 295, 3269-3284.	3.4	6
92	The subcellular localization of type I p21-activated kinases is controlled by the disordered variable region and polybasic sequences. <i>Journal of Biological Chemistry</i> , 2019, 294, 14319-14332.	3.4	5
93	A Small-Scale shRNA Screen in Primary Mouse Macrophages Identifies a Role for the Rab GTPase Rab1b in Controlling <i>Salmonella Typhi</i> Growth. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 660689.	3.9	3
94	JAM-L-mediated leukocyte adhesion to endothelial cells is regulated in cis by $\alpha 4 \beta 1$ integrin activation. <i>Journal of General Physiology</i> , 2009, 133, i1-i1.	1.9	1
95	JAM-L-mediated leukocyte adhesion to endothelial cells is regulated in cis by $\alpha 4 \beta 1$ integrin activation. <i>Journal of Experimental Medicine</i> , 2008, 205, i29-i29.	8.5	0
96	TRIM15 is a focal adhesion protein that regulates focal adhesion disassembly. <i>Development (Cambridge)</i> , 2014, 141, e1906-e1906.	2.5	0
97	Podocyte-associated talin1 is critical for glomerular filtration barrier maintenance. <i>Journal of Clinical Investigation</i> , 2015, 125, 882-882.	8.2	0
98	Filamin A. , 2016, , 1-7.		0
99	Filamin A. , 2018, , 1731-1737.		0