

Reinhard Fessler

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108
papers

11,077
citations

54
h-index

105
g-index

129
ext. papers

12,714
ext. citations

11.8
avg, IF

6.31
L-index

#	Paper	IF	Citations
108	Perlecan maintains the integrity of cartilage and some basement membranes. <i>Journal of Cell Biology</i> , 1999 , 147, 1109-22	7.3	590
107	The tail of integrins, talin, and kindlins. <i>Science</i> , 2009 , 324, 895-9	33.3	588
106	ILK, PINCH and parvin: the tIPP of integrin signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2006 , 7, 20-31	18.7	547
105	Kindlin-3 is essential for integrin activation and platelet aggregation. <i>Nature Medicine</i> , 2008 , 14, 325-30	50.5	526
104	Integrin-mediated mechanotransduction. <i>Journal of Cell Biology</i> , 2016 , 215, 445-456	7.3	469
103	The integrin adhesome: from genes and proteins to human disease. <i>Nature Reviews Molecular Cell Biology</i> , 2014 , 15, 273-88	48.7	395
102	Kindlin-2 controls bidirectional signaling of integrins. <i>Genes and Development</i> , 2008 , 22, 1325-30	12.6	329
101	Impaired migration but not differentiation of haematopoietic stem cells in the absence of beta1 integrins. <i>Nature</i> , 1996 , 380, 171-5	50.4	316
100	Fetal and adult hematopoietic stem cells require beta1 integrin function for colonizing fetal liver, spleen, and bone marrow. <i>Immunity</i> , 2000 , 12, 653-63	32.3	309
99	β 1- and β 4-class integrins cooperate to regulate myosin II during rigidity sensing of fibronectin-based microenvironments. <i>Nature Cell Biology</i> , 2013 , 15, 625-36	23.4	307
98	Mechanisms that regulate adaptor binding to beta-integrin cytoplasmic tails. <i>Journal of Cell Science</i> , 2009 , 122, 187-98	5.3	291
97	Skin and hair follicle integrity is crucially dependent on beta 1 integrin expression on keratinocytes. <i>EMBO Journal</i> , 2000 , 19, 3990-4003	13	288
96	Plasma fibronectin supports neuronal survival and reduces brain injury following transient focal cerebral ischemia but is not essential for skin-wound healing and hemostasis. <i>Nature Medicine</i> , 2001 , 7, 324-30	50.5	271
95	Quantitative proteomics of the integrin adhesome show a myosin II-dependent recruitment of LIM domain proteins. <i>EMBO Reports</i> , 2011 , 12, 259-66	6.5	250
94	Collagen II is essential for the removal of the notochord and the formation of intervertebral discs. <i>Journal of Cell Biology</i> , 1998 , 143, 1399-412	7.3	238
93	The cysteine-rich domain of human ADAM 12 supports cell adhesion through syndecans and triggers signaling events that lead to beta1 integrin-dependent cell spreading. <i>Journal of Cell Biology</i> , 2000 , 149, 1143-56	7.3	228
92	Integrin activation by talin, kindlin and mechanical forces. <i>Nature Cell Biology</i> , 2019 , 21, 25-31	23.4	206

91	Loss of talin1 in platelets abrogates integrin activation, platelet aggregation, and thrombus formation in vitro and in vivo. <i>Journal of Experimental Medicine</i> , 2007 , 204, 3113-8	16.6	197
90	The Kindlins: subcellular localization and expression during murine development. <i>Experimental Cell Research</i> , 2006 , 312, 3142-51	4.2	196
89	Roles of integrins and fibronectin in the entry of <i>Streptococcus pyogenes</i> into cells via protein F1. <i>Molecular Microbiology</i> , 1998 , 30, 625-37	4.1	174
88	Distinct roles for talin-1 and kindlin-3 in LFA-1 extension and affinity regulation. <i>Blood</i> , 2012 , 119, 4275-82	8.2	172
87	Disruption of the talin gene arrests mouse development at the gastrulation stage. <i>Developmental Dynamics</i> , 2000 , 219, 560-74	2.9	172
86	Loss of Kindlin-1 causes skin atrophy and lethal neonatal intestinal epithelial dysfunction. <i>PLoS Genetics</i> , 2008 , 4, e1000289	6	160
85	Beta 1 integrin is essential for teratoma growth and angiogenesis. <i>Journal of Cell Biology</i> , 1997 , 139, 265-78	7.3	157
84	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. <i>ELife</i> , 2016 , 5, e10130	8.9	155
83	Loss of fibronectin from the aged stem cell niche affects the regenerative capacity of skeletal muscle in mice. <i>Nature Medicine</i> , 2016 , 22, 897-905	50.5	155
82	Integrin trafficking regulated by Rab21 is necessary for cytokinesis. <i>Developmental Cell</i> , 2008 , 15, 371-385	5.2	153
81	Sorting nexin 17 prevents lysosomal degradation of β integrins by binding to the β -integrin tail. <i>Nature Cell Biology</i> , 2012 , 14, 584-92	23.4	148
80	Induction of cell scattering by expression of beta1 integrins in beta1-deficient epithelial cells requires activation of members of the rho family of GTPases and downregulation of cadherin and catenin function. <i>Journal of Cell Biology</i> , 1999 , 147, 1325-40	7.3	140
79	The kindlin family: functions, signaling properties and implications for human disease. <i>Journal of Cell Science</i> , 2016 , 129, 17-27	5.3	138
78	The Kindlin protein family: new members to the club of focal adhesion proteins. <i>Trends in Cell Biology</i> , 2009 , 19, 504-13	18.3	136
77	The mechanism of kindlin-mediated activation of integrin α ₅ β ₃ . <i>Current Biology</i> , 2013 , 23, 2288-2295	6.3	116
76	Kindlin-1 controls Wnt and TGF- β availability to regulate cutaneous stem cell proliferation. <i>Nature Medicine</i> , 2014 , 20, 350-9	50.5	101
75	Kank2 activates talin, reduces force transduction across integrins and induces central adhesion formation. <i>Nature Cell Biology</i> , 2016 , 18, 941-53	23.4	100
74	Mouse ten-m/Odz is a new family of dimeric type II transmembrane proteins expressed in many tissues. <i>Journal of Cell Biology</i> , 1999 , 145, 563-77	7.3	94

73	The chondroitin sulphate proteoglycan brevican is upregulated by astrocytes after entorhinal cortex lesions in adult rats. <i>European Journal of Neuroscience</i> , 2000 , 12, 2547-58	3.5	91
72	A novel gene, tendin, is strongly expressed in tendons and ligaments and shows high homology with chondromodulin-I. <i>Developmental Dynamics</i> , 2001 , 221, 72-80	2.9	88
71	Genetic analysis of beta1 integrin "activation motifs" in mice. <i>Journal of Cell Biology</i> , 2006 , 174, 889-99	7.3	87
70	The murine Ten-m/Odz genes show distinct but overlapping expression patterns during development and in adult brain. <i>Gene Expression Patterns</i> , 2003 , 3, 397-405	1.5	82
69	Fgf10-Hippo Epithelial-Mesenchymal Crosstalk Maintains and Recruits Lung Basal Stem Cells. <i>Developmental Cell</i> , 2017 , 43, 48-59.e5	10.2	79
68	Functional characteristics of urinary tract smooth muscles in mice lacking cGMP protein kinase type I. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 279, R1112-20	2.2	73
67	Fibronectin-bound $\beta 1$ integrins sense load and signal to reinforce adhesion in less than a second. <i>Nature Materials</i> , 2017 , 16, 1262-1270	27	72
66	Integrin adhesion and force coupling are independently regulated by localized PtdIns(4,5)2 synthesis. <i>EMBO Journal</i> , 2011 , 30, 4539-53	13	72
65	Mammalian skeletogenesis and extracellular matrix: what can we learn from knockout mice?. <i>Cell Structure and Function</i> , 2000 , 25, 73-84	2.2	72
64	Kindlin-2 recruits paxillin and Arp2/3 to promote membrane protrusions during initial cell spreading. <i>Journal of Cell Biology</i> , 2017 , 216, 3785-3798	7.3	71
63	Disruption of focal adhesions by integrin cytoplasmic domain-associated protein-1 alpha. <i>Journal of Biological Chemistry</i> , 2003 , 278, 6567-74	5.4	69
62	α -class integrins exert dual roles on $\beta 1$ integrins to strengthen adhesion to fibronectin. <i>Nature Communications</i> , 2017 , 8, 14348	17.4	68
61	Sensing the mechano-chemical properties of the extracellular matrix. <i>Matrix Biology</i> , 2017 , 64, 6-16	11.4	67
60	Integrin-linked kinase: integrin's mysterious partner. <i>Current Opinion in Cell Biology</i> , 2004 , 16, 565-71	9	66
59	Expression of an Activated Integrin Promotes Long-Distance Sensory Axon Regeneration in the Spinal Cord. <i>Journal of Neuroscience</i> , 2016 , 36, 7283-97	6.6	61
58	The late endosomal p14-MP1 (LAMTOR2/3) complex regulates focal adhesion dynamics during cell migration. <i>Journal of Cell Biology</i> , 2014 , 205, 525-40	7.3	57
57	Cre recombinase induces DNA damage and tetraploidy in the absence of loxP sites. <i>Cell Cycle</i> , 2014 , 13, 462-70	4.7	57
56	Loss of the Rap1 effector RIAM results in leukocyte adhesion deficiency due to impaired β integrin function in mice. <i>Blood</i> , 2015 , 126, 2704-12	2.2	55

55	PINCH2 is a new five LIM domain protein, homologous to PINCH and localized to focal adhesions. <i>Experimental Cell Research</i> , 2003 , 284, 239-50	4.2	54
54	The Architecture of Talin1 Reveals an Autoinhibition Mechanism. <i>Cell</i> , 2019 , 179, 120-131.e13	56.2	51
53	Knockdown and knockout of β -integrin in hepatocytes impairs liver regeneration through inhibition of growth factor signalling. <i>Nature Communications</i> , 2014 , 5, 3862	17.4	51
52	Beta1 integrins: zip codes and signaling relay for blood cells. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 482-90	9	50
51	Impaired relaxation of stomach smooth muscle in mice lacking cyclic GMP-dependent protein kinase I. <i>British Journal of Pharmacology</i> , 2000 , 129, 395-401	8.6	49
50	β integrin signaling promotes neuronal migration along vascular scaffolds in the post-stroke brain. <i>EBioMedicine</i> , 2017 , 16, 195-203	8.8	47
49	Early expression of endomucin on endothelium of the mouse embryo and on putative hematopoietic clusters in the dorsal aorta. <i>Developmental Dynamics</i> , 2001 , 222, 410-9	2.9	47
48	Induction of membrane circular dorsal ruffles requires co-signalling of integrin-ILK-complex and EGF receptor. <i>Journal of Cell Science</i> , 2012 , 125, 435-48	5.3	45
47	Beta1 integrin-mediated adhesion signalling is essential for epidermal progenitor cell expansion. <i>PLoS ONE</i> , 2009 , 4, e5488	3.7	38
46	Minimal amounts of kindlin-3 suffice for basal platelet and leukocyte functions in mice. <i>Blood</i> , 2015 , 126, 2592-600	2.2	36
45	Integrins synergise to induce expression of the MRTF-A-SRF target gene ISG15 for promoting cancer cell invasion. <i>Journal of Cell Science</i> , 2016 , 129, 1391-403	5.3	31
44	Cell-Intrinsic Adaptation Arising from Chronic Ablation of a Key Rho GTPase Regulator. <i>Developmental Cell</i> , 2016 , 39, 28-43	10.2	29
43	Beta1 integrin cytoplasmic tyrosines promote skin tumorigenesis independent of their phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15213-8	11.5	28
42	Hippo signaling promotes lung epithelial lineage commitment by curbing Fgf10 and β -catenin signaling. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	25
41	Beta1 integrin promotes but is not essential for metastasis of ras-myc transformed fibroblasts. <i>Oncogene</i> , 1999 , 18, 3852-61	9.2	24
40	Sorting nexin 31 binds multiple β integrin cytoplasmic domains and regulates β integrin surface levels and stability. <i>Journal of Molecular Biology</i> , 2014 , 426, 3180-3194	6.5	23
39	Identification of beta1C-2, a novel variant of the integrin beta1 subunit generated by utilization of an alternative splice acceptor site in exon C. <i>Biochemical Journal</i> , 1998 , 330 (Pt 3), 1255-63	3.8	23
38	Integrin-Mediated Focal Anchorage Drives Epithelial Zippering during Mouse Neural Tube Closure. <i>Developmental Cell</i> , 2020 , 52, 321-334.e6	10.2	23

37	Kindlin-3-mediated integrin adhesion is dispensable for quiescent but essential for activated hematopoietic stem cells. <i>Journal of Experimental Medicine</i> , 2015 , 212, 1415-32	16.6	22
36	Implications of the differing roles of the α and β transmembrane and cytoplasmic domains for integrin function. <i>ELife</i> , 2016 , 5,	8.9	22
35	Nascent adhesions: from fluctuations to a hierarchical organization. <i>Current Biology</i> , 2014 , 24, R801-3	6.3	19
34	Lentiviral transgene vectors. <i>EMBO Reports</i> , 2004 , 5, 28-9	6.5	18
33	The focal adhesion protein PINCH-1 associates with EPLIN at integrin adhesion sites. <i>Journal of Cell Science</i> , 2015 , 128, 1023-33	5.3	17
32	The Kank family proteins in adhesion dynamics. <i>Current Opinion in Cell Biology</i> , 2018 , 54, 130-136	9	17
31	Endochondral ossification is dependent on the mechanical properties of cartilage tissue and on intracellular signals in chondrocytes. <i>Annals of the New York Academy of Sciences</i> , 1998 , 857, 74-85	6.5	17
30	Active integrins regulate white adipose tissue insulin sensitivity and brown fat thermogenesis. <i>Molecular Metabolism</i> , 2021 , 45, 101147	8.8	13
29	β integrins with individually disrupted cytoplasmic NPxY motifs are embryonic lethal but partially active in the epidermis. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 2722-2731	4.3	12
28	mTORC1 activity is supported by spatial association with focal adhesions. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	12
27	Quantitative single-protein imaging reveals molecular complex formation of integrin, talin, and kindlin during cell adhesion. <i>Nature Communications</i> , 2021 , 12, 919	17.4	12
26	Low density lipoprotein receptor-related protein 1 couples β integrin activation to degradation. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 1671-1685	10.3	11
25	Protease-activated receptor signalling initiates β integrin-mediated adhesion in non-haematopoietic cells. <i>Nature Materials</i> , 2020 , 19, 218-226	27	10
24	Differential requirement of kindlin-3 for T cell progenitor homing to the non-vascularized and vascularized thymus. <i>ELife</i> , 2018 , 7,	8.9	10
23	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions. <i>Nature Communications</i> , 2021 , 12, 3104	17.4	10
22	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	11.5	9
21	Membrane tension drives ligand-independent integrin signaling. <i>EMBO Journal</i> , 2014 , 33, 2439-41	13	8
20	α -Class integrin binding to fibronectin is solely mediated by RGD and unaffected by an RGE mutation. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	8

19	Talin regulates integrin α -dependent and -independent cell functions in ureteric bud development. <i>Development (Cambridge)</i> , 2017 , 144, 4148-4158	6.6	7
18	Kindlin-3 loss curbs chronic myeloid leukemia in mice by mobilizing leukemic stem cells from protective bone marrow niches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24326-24335	11.5	7
17	Integrin α coordinates survival and morphogenesis of the embryonic lineage upon implantation and pluripotency transition. <i>Cell Reports</i> , 2021 , 34, 108834	10.6	7
16	LCP1 preferentially binds clasped α integrin and attenuates leukocyte adhesion under flow. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	7
15	Microenvironment-derived ADAM28 prevents cancer dissemination. <i>Oncotarget</i> , 2018 , 9, 37185-37199	3.3	5
14	Rabgap1 promotes recycling of active α integrins to support effective cell migration. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	5
13	Neutrophils direct preexisting matrix to initiate repair in damaged tissues.. <i>Nature Immunology</i> , 2022 ,	19.1	4
12	SHP1 regulates a STAT6-ITGB3 axis in FLT3ITD-positive AML cells. <i>Leukemia</i> , 2020 , 34, 1444-1449	10.7	3
11	A forceful connection: mechanoregulation of oncogenic YAP. <i>EMBO Journal</i> , 2017 , 36, 2467-2469	13	1
10	New insights into the phosphorylation of the threonine motif of the α integrin cytoplasmic domain.. <i>Life Science Alliance</i> , 2022 , 5,	5.8	1
9	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions		1
8	α Integrin regulates convergent extension in mouse notogenesis, ensures notochord integrity and the morphogenesis of vertebrae and intervertebral discs. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	1
7	Introduction to the ECR special issue, "Mechanosensing via Cell-Matrix Adhesions". <i>Experimental Cell Research</i> , 2016 , 343, 1-2	4.2	1
6	Tissue distribution and subcellular localization of the family of Kidney Ankyrin Repeat Domain (KANK) proteins. <i>Experimental Cell Research</i> , 2021 , 398, 112391	4.2	1
5	Disruption of the integrin-linked kinase (ILK) pseudokinase domain affects kidney development in mice. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100361	5.4	1
4	Functional properties of CYLD. <i>International Congress Series</i> , 2007 , 1302, 36-42		
3	Fibronectin Is Not the Only Important Molecule Required for Fibrinogen/VWF-Independent Platelet Aggregation: Study of Thrombosis in a New Strain of Triple Deficient Mice.. <i>Blood</i> , 2006 , 108, 1515-1515 ²⁻²		
2	Beta1 integrin and collecting system development. <i>FASEB Journal</i> , 2007 , 21, A141	0.9	

1 Integrins Cooperate during Mechanosensing. *FASEB Journal*, **2015**, 29, 92.1

0.9