

Reinhard Fässler

List of Publications by Year in descending order

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113
papers

13,904
citations

22381

56
h-index

19519

112
g-index

130
all docs

130
docs citations

130
times ranked

12555
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelial cells regulate alveolar morphogenesis by constructing basement membranes acting as a scaffold for myofibroblasts. <i>Nature Communications</i> , 2024, 15, .	12.8	2
2	Caskin2 is a novel talin- and Abi1-binding protein that promotes cell motility. <i>Journal of Cell Science</i> , 2024, 137, .	2.0	0
3	Integrin β 1 regulates marginal zone B cell differentiation and PI3K signaling. <i>Journal of Experimental Medicine</i> , 2023, 220, .	8.6	5
4	In mitosis integrins reduce adhesion to extracellular matrix and strengthen adhesion to adjacent cells. <i>Nature Communications</i> , 2023, 14, .	12.8	13
5	Talin and kindlin use integrin tail allostery and direct binding to activate integrins. <i>Nature Structural and Molecular Biology</i> , 2023, 30, 1913-1924.	7.8	5
6	New insights into the phosphorylation of the threonine motif of the β 1 integrin cytoplasmic domain. <i>Life Science Alliance</i> , 2022, 5, e202101301.	2.9	5
7	Neutrophils direct preexisting matrix to initiate repair in damaged tissues. <i>Nature Immunology</i> , 2022, 23, 518-531.	13.6	44
8	CDK1-cyclin-B1-induced kindlin degradation drives focal adhesion disassembly at mitotic entry. <i>Nature Cell Biology</i> , 2022, 24, 723-736.	9.9	27
9	Integrins, anchors and signal transducers of hematopoietic stem cells during development and in adulthood. <i>Current Topics in Developmental Biology</i> , 2022, , 203-261.	5.7	3
10	Molecular determinants of β 25 localization in flat clathrin lattices – role of β 25 in cell adhesion and proliferation. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	7
11	ICAP1 loss impairs CD8 ⁺ thymocyte development and leads to reduced marginal zone B cells in mice. <i>European Journal of Immunology</i> , 2022, , .	3.3	0
12	Pinch2 regulates myelination in the mouse central nervous system. <i>Development (Cambridge)</i> , 2022, 149, .	2.5	2
13	The focal adhesion protein β -parvin controls cardiomyocyte shape and sarcomere assembly in response to mechanical load. <i>Current Biology</i> , 2022, 32, 3033-3047.e9.	3.9	7
14	Tissue distribution and subcellular localization of the family of Kidney Ankyrin Repeat Domain (KANK) proteins. <i>Experimental Cell Research</i> , 2021, 398, 112391.	2.6	5
15	Disruption of the integrin-linked kinase (ILK) pseudokinase domain affects kidney development in mice. <i>Journal of Biological Chemistry</i> , 2021, 296, 100361.	3.4	5
16	mTORC1 activity is supported by spatial association with focal adhesions. <i>Journal of Cell Biology</i> , 2021, 220, .	5.1	42
17	Quantitative single-protein imaging reveals molecular complex formation of integrin, talin, and kindlin during cell adhesion. <i>Nature Communications</i> , 2021, 12, 919.	12.8	40
18	Integrin β 1 coordinates survival and morphogenesis of the embryonic lineage upon implantation and pluripotency transition. <i>Cell Reports</i> , 2021, 34, 108834.	6.2	31

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19	Active integrins regulate white adipose tissue insulin sensitivity and brown fat thermogenesis. <i>Molecular Metabolism</i> , 2021, 45, 101147.	6.5	31
20	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions. <i>Nature Communications</i> , 2021, 12, 3104.	12.8	42
21	SHP1 regulates a STAT6-ITGB3 axis in FLT3ITD-positive AML cells. <i>Leukemia</i> , 2020, 34, 1444-1449.	7.3	7
22	β 1 integrin regulates convergent extension in mouse notogenesis, ensures notochord integrity and the morphogenesis of vertebrae and intervertebral discs. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	3
23	Rabgap1 promotes recycling of active β 1 integrins to support effective cell migration. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	10
24	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.	7.4	16
25	Protease-activated receptor signalling initiates β 1-integrin-mediated adhesion in non-haematopoietic cells. <i>Nature Materials</i> , 2020, 19, 218-226.	25.8	21
26	Integrin-Mediated Focal Anchorage Drives Epithelial Zippering during Mouse Neural Tube Closure. <i>Developmental Cell</i> , 2020, 52, 321-334.e6.	6.9	46
27	α v-Class integrin binding to fibronectin is solely mediated by RGD and unaffected by an RGE mutation. <i>Journal of Cell Biology</i> , 2020, 219, .	5.1	21
28	A FAK conundrum is solved: activation and organization of focal adhesion kinase at the plasma membrane. <i>EMBO Journal</i> , 2020, 39, e106234.	7.6	4
29	The Architecture of Talin1 Reveals an Autoinhibition Mechanism. <i>Cell</i> , 2019, 179, 120-131.e13.	27.3	100
30	Integrin activation by talin, kindlin and mechanical forces. <i>Nature Cell Biology</i> , 2019, 21, 25-31.	9.9	391
31	Hippo signaling promotes lung epithelial lineage commitment by curbing Fgf10 and β -catenin signaling. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	41
32	Low density lipoprotein receptor-related protein 1 couples β 1 integrin activation to degradation. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 1671-1685.	5.4	26
33	LCP1 preferentially binds clasped β 2 integrin and attenuates leukocyte adhesion under flow. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	17
34	The Kank family proteins in adhesion dynamics. <i>Current Opinion in Cell Biology</i> , 2018, 54, 130-136.	5.4	35
35	Microenvironment-derived ADAM28 prevents cancer dissemination. <i>Oncotarget</i> , 2018, 9, 37185-37199.	2.0	8
36	Differential requirement of kindlin-3 for T cell progenitor homing to the non-vascularized and vascularized thymus. <i>ELife</i> , 2018, 7, .	5.8	11

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37	Î²1 integrin signaling promotes neuronal migration along vascular scaffolds in the post-stroke brain. EBioMedicine, 2017, 16, 195-203.	5.9	93
38	Î±V-class integrins exert dual roles on Î±5Î²1 integrins to strengthen adhesion to fibronectin. Nature Communications, 2017, 8, 14348.	12.8	94
39	Sensing the mechano-chemical properties of the extracellular matrix. Matrix Biology, 2017, 64, 6-16.	3.7	105
40	Talin regulates integrin Î²1 dependent and independent cell functions in ureteric bud development. Development (Cambridge), 2017, 144, 4148-4158.	2.5	8
41	Lucky kindlin: A cloverleaf at the integrin tail. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9234-9236.	7.4	13
42	Kindlin-2 recruits paxillin and Arp2/3 to promote membrane protrusions during initial cell spreading. Journal of Cell Biology, 2017, 216, 3785-3798.	5.1	97
43	A forceful connection: mechanoregulation of oncogenic YAP. EMBO Journal, 2017, 36, 2467-2469.	7.6	2
44	Fibronectin-bound Î±5Î²1 integrins sense load and signal to reinforce adhesion in less than a second. Nature Materials, 2017, 16, 1262-1270.	25.8	123
45	Loss of fibronectin from the aged stem cell niche affects the regenerative capacity of skeletal muscle in mice. Nature Medicine, 2016, 22, 897-905.	29.5	240
46	Expression of an Activated Integrin Promotes Long-Distance Sensory Axon Regeneration in the Spinal Cord. Journal of Neuroscience, 2016, 36, 7283-7297.	3.7	84
47	Introduction to the ECR special issue, "Mechanosensing via Cell-Matrix Adhesions". Experimental Cell Research, 2016, 343, 1-2.	2.6	2
48	Cell-Intrinsic Adaptation Arising from Chronic Ablation of a Key Rho GTPase Regulator. Developmental Cell, 2016, 39, 28-43.	6.9	40
49	Kank2 activates talin, reduces force transduction across integrins and induces central adhesion formation. Nature Cell Biology, 2016, 18, 941-953.	9.9	148
50	Integrin-mediated mechanotransduction. Journal of Cell Biology, 2016, 215, 445-456.	5.1	767
51	Integrins synergise to induce expression of the MRTF-Â€SRF target gene ISG15 for promoting cancer cell invasion. Journal of Cell Science, 2016, 129, 1391-1403.	2.0	45
52	The kindlin family: functions, signaling properties and implications for human disease. Journal of Cell Science, 2016, 129, 17-27.	2.0	187
53	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. ELife, 2016, 5, e10130.	5.8	219
54	Implications of the differing roles of the Î²1 and Î²3 transmembrane and cytoplasmic domains for integrin function. ELife, 2016, 5, .	5.8	30

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55	Loss of the Rap1 effector RIAM results in leukocyte adhesion deficiency due to impaired $\beta 2$ integrin function in mice. <i>Blood</i> , 2015, 126, 2704-2712.	1.4	88
56	Minimal amounts of kindlin-3 suffice for basal platelet and leukocyte functions in mice. <i>Blood</i> , 2015, 126, 2592-2600.	1.4	47
57	Kindlin-3-mediated integrin adhesion is dispensable for quiescent but essential for activated hematopoietic stem cells. <i>Journal of Experimental Medicine</i> , 2015, 212, 1415-1432.	8.6	27
58	Integrins Cooperate during Mechanosensing. <i>FASEB Journal</i> , 2015, 29, 92.1.	0.4	0
59	Kindlin-1 controls Wnt and TGF- $\beta 2$ availability to regulate cutaneous stem cell proliferation. <i>Nature Medicine</i> , 2014, 20, 350-359.	29.5	114
60	The integrin adhesome: from genes and proteins to human disease. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 273-288.	36.5	541
61	Knockdown and knockout of $\beta 1$ -integrin in hepatocytes impairs liver regeneration through inhibition of growth factor signalling. <i>Nature Communications</i> , 2014, 5, 3862.	12.8	72
62	Membrane tension drives ligand-independent integrin signaling. <i>EMBO Journal</i> , 2014, 33, 2439-2441.	7.6	11
63	Sorting Nexin 31 Binds Multiple $\beta 1$ Integrin Cytoplasmic Domains and Regulates $\beta 1$ Integrin Surface Levels and Stability. <i>Journal of Molecular Biology</i> , 2014, 426, 3180-3194.	4.2	27
64	The late endosomal p14 ^{MP1} (LAMTOR2/3) complex regulates focal adhesion dynamics during cell migration. <i>Journal of Cell Biology</i> , 2014, 205, 525-540.	5.1	85
65	Nascent Adhesions: From Fluctuations to a Hierarchical Organization. <i>Current Biology</i> , 2014, 24, R801-R803.	3.9	30
66	The Mechanism of Kindlin-Mediated Activation of Integrin $\alpha 5\beta 3$. <i>Current Biology</i> , 2013, 23, 2288-2295.	3.9	133
67	$\beta 1$ - and ν -class integrins cooperate to regulate myosin ^{II} during rigidity sensing of fibronectin-based microenvironments. <i>Nature Cell Biology</i> , 2013, 15, 625-636.	9.9	392
68	$\beta 1$ 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.	0.7	15
69	Induction of membrane circular dorsal ruffles requires co-signalling of integrin-ILK-complex and EGF receptor. <i>Journal of Cell Science</i> , 2012, 125, 435-448.	2.0	50
70	Distinct roles for talin-1 and kindlin-3 in LFA-1 extension and affinity regulation. <i>Blood</i> , 2012, 119, 4275-4282.	1.4	206
71	Cell-cell adhesion and extracellular matrix: diversity counts. <i>Current Opinion in Cell Biology</i> , 2012, 24, 559-561.	5.4	3
72	Sorting nexin 17 prevents lysosomal degradation of $\beta 1$ integrins by binding to the $\beta 1$ -integrin tail. <i>Nature Cell Biology</i> , 2012, 14, 584-592.	9.9	180

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73	Quantitative proteomics of the integrin adhesome show a myosin II-dependent recruitment of LIM domain proteins. <i>EMBO Reports</i> , 2011, 12, 259-266.	4.5	324
74	Î²1 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, 15213-15218.	7.4	32
75	Integrin adhesion and force coupling are independently regulated by localized PtdIns(4,5)P ₂ synthesis. <i>EMBO Journal</i> , 2011, 30, 4539-4553.	7.6	81
76	Î²1 Integrin-Mediated Adhesion Signalling Is Essential for Epidermal Progenitor Cell Expansion. <i>PLoS ONE</i> , 2009, 4, e5488.	2.5	45
77	Mechanisms that regulate adaptor binding to Î²2-integrin cytoplasmic tails. <i>Journal of Cell Science</i> , 2009, 122, 187-198.	2.0	341
78	The Kindlin protein family: new members to the club of focal adhesion proteins. <i>Trends in Cell Biology</i> , 2009, 19, 504-513.	8.0	151
79	The Tail of Integrins, Talin, and Kindlins. <i>Science</i> , 2009, 324, 895-899.	19.6	682
80	Kindlin-3 is essential for integrin activation and platelet aggregation. <i>Nature Medicine</i> , 2008, 14, 325-330.	29.5	602
81	Integrin Trafficking Regulated by Rab21 Is Necessary for Cytokinesis. <i>Developmental Cell</i> , 2008, 15, 371-385.	6.9	180
82	Kindlin-2 controls bidirectional signaling of integrins. <i>Genes and Development</i> , 2008, 22, 1325-1330.	5.8	383
83	Loss of Kindlin-1 Causes Skin Atrophy and Lethal Neonatal Intestinal Epithelial Dysfunction. <i>PLoS Genetics</i> , 2008, 4, e1000289.	3.3	187
84	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, 3113-3118.	8.6	228
85	Functional properties of CYLD. <i>International Congress Series</i> , 2007, 1302, 36-42.	0.2	0
86	ILK, PINCH and parvin: the tIPP of integrin signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2006, 7, 20-31.	36.5	608
87	The Kindlins: Subcellular localization and expression during murine development. <i>Experimental Cell Research</i> , 2006, 312, 3142-3151.	2.6	219
88	Î²1 integrins: zip codes and signaling relay for blood cells. <i>Current Opinion in Cell Biology</i> , 2006, 18, 482-490.	5.4	53
89	Genetic analysis of Î²1 integrin activation motifs in mice. <i>Journal of Cell Biology</i> , 2006, 174, 889-899.	5.1	91
90	Lentiviral transgene vectors. <i>EMBO Reports</i> , 2004, 5, 28-29.	4.5	23

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91	Integrin-linked kinase: integrin's mysterious partner. <i>Current Opinion in Cell Biology</i> , 2004, 16, 565-571.	5.4	69
92	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.	0.8	102
93	PINCH2 is a new five LIM domain protein, homologous to PINCH and localized to focal adhesions. <i>Experimental Cell Research</i> , 2003, 284, 237-248.	2.6	64
94	Disruption of Focal Adhesions by Integrin Cytoplasmic Domain-associated Protein-1. <i>Journal of Biological Chemistry</i> , 2003, 278, 6567-6574.	3.4	79
95	A novel gene, <i>tendin</i> , is strongly expressed in tendons and ligaments and shows high homology with chondromodulin. <i>Developmental Dynamics</i> , 2001, 221, 72-80.	1.9	100
96	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, 410-419.	1.9	54
97	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, 324-330.	29.5	319
98	Disruption of the talin gene arrests mouse development at the gastrulation stage. <i>Developmental Dynamics</i> , 2000, 219, 560-574.	1.9	196
99	The chondroitin sulphate proteoglycan brevican is upregulated by astrocytes after entorhinal cortex lesions in adult rats. <i>European Journal of Neuroscience</i> , 2000, 12, 2547-2558.	3.5	97
100	Skin and hair follicle integrity is crucially dependent on $\beta 1$ integrin expression on keratinocytes. <i>EMBO Journal</i> , 2000, 19, 3990-4003.	7.6	327
101	Mammalian Skeletogenesis and Extracellular Matrix. What can We Learn from Knockout Mice?. <i>Cell Structure and Function</i> , 2000, 25, 73-84.	1.1	85
102	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-R1120.	1.8	81
103	The Cysteine-Rich Domain of Human Adam 12 Supports Cell Adhesion through Syndecans and Triggers Signaling Events That Lead to $\beta 1$ Integrin-Dependent Cell Spreading. <i>Journal of Cell Biology</i> , 2000, 149, 1143-1156.	5.1	245
104	Fetal and Adult Hematopoietic Stem Cells Require $\beta 1$ Integrin Function for Colonizing Fetal Liver, Spleen, and Bone Marrow. <i>Immunity</i> , 2000, 12, 653-663.	13.8	344
105	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, 563-577.	5.1	109
106	Perlecan Maintains the Integrity of Cartilage and Some Basement Membranes. <i>Journal of Cell Biology</i> , 1999, 147, 1109-1122.	5.1	664
107	Induction of Cell Scattering by Expression of $\beta 1$ Integrins in $\beta 1$ -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, 1325-1340.	5.1	148
108	$\beta 1$ integrin promotes but is not essential for metastasis of ras-myc transformed fibroblasts. <i>Oncogene</i> , 1999, 18, 3852-3861.	5.8	24

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109	Roles of integrins and fibronectin in the entry of <i>Streptococcus pyogenes</i> into cells via protein F1. <i>Molecular Microbiology</i> , 1998, 30, 625-637.	2.5	186
110	Collagen II Is Essential for the Removal of the Notochord and the Formation of Intervertebral Discs. <i>Journal of Cell Biology</i> , 1998, 143, 1399-1412.	5.1	284
111	Identification of β 1C-2, a novel variant of the integrin β 1 subunit generated by utilization of an alternative splice acceptor site in exon C. <i>Biochemical Journal</i> , 1998, 330, 1255-1263.	3.7	25
112	β 1 Integrin Is Essential for Teratoma Growth and Angiogenesis. <i>Journal of Cell Biology</i> , 1997, 139, 265-278.	5.1	180
113	Impaired migration but not differentiation of haematopoietic stem cells in the absence of β 1 integrins. <i>Nature</i> , 1996, 380, 171-175.	35.3	339