

Christoph Ballestrem

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56

papers

5,636

citations

33

h-index

57

g-index

57

ext. papers

6,306

ext. citations

6.1

avg, IF

5.49

L-index

#	Paper	IF	Citations
56	Vinculin controls focal adhesion formation by direct interactions with talin and actin. <i>Journal of Cell Biology</i> , 2007 , 179, 1043-57	7.3	640
55	Early molecular events in the assembly of matrix adhesions at the leading edge of migrating cells. <i>Journal of Cell Science</i> , 2003 , 116, 4605-13	5.3	525
54	Cell behaviour on micropatterned substrata: limits of extracellular matrix geometry for spreading and adhesion. <i>Journal of Cell Science</i> , 2004 , 117, 41-52	5.3	324
53	Marching at the front and dragging behind: differential alphaVbeta3-integrin turnover regulates focal adhesion behavior. <i>Journal of Cell Biology</i> , 2001 , 155, 1319-32	7.3	306
52	Endocytic vesicles move at the tips of actin tails in cultured mast cells. <i>Nature Cell Biology</i> , 1999 , 1, 72-4	23.4	278
51	Vinculin regulates the recruitment and release of core focal adhesion proteins in a force-dependent manner. <i>Current Biology</i> , 2013 , 23, 271-81	6.3	258
50	Alpha-smooth muscle actin is crucial for focal adhesion maturation in myofibroblasts. <i>Molecular Biology of the Cell</i> , 2003 , 14, 2508-19	3.5	209
49	Vinculin, an adapter protein in control of cell adhesion signalling. <i>European Journal of Cell Biology</i> , 2011 , 90, 157-63	6.1	198
48	Syndecan-4-dependent Rac1 regulation determines directional migration in response to the extracellular matrix. <i>Journal of Cell Biology</i> , 2007 , 177, 527-38	7.3	192
47	Actin-dependent lamellipodia formation and microtubule-dependent tail retraction control-directed cell migration. <i>Molecular Biology of the Cell</i> , 2000 , 11, 2999-3012	3.5	187
46	Assembly and mechanosensory function of focal adhesions: experiments and models. <i>European Journal of Cell Biology</i> , 2006 , 85, 165-73	6.1	181
45	JAM-2, a novel immunoglobulin superfamily molecule, expressed by endothelial and lymphatic cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 2733-41	5.4	181
44	Regulation of microtubule dynamics by inhibition of the tubulin deacetylase HDAC6. <i>Journal of Cell Science</i> , 2009 , 122, 3531-41	5.3	175
43	Mammalian diaphanous-related formin Dia1 controls the organization of E-cadherin-mediated cell-cell junctions. <i>Journal of Cell Science</i> , 2007 , 120, 3870-82	5.3	140
42	Mechanotransduction at the cell-matrix interface. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 71, 75-83	7.5	133
41	Vinculin controls talin engagement with the actomyosin machinery. <i>Nature Communications</i> , 2015 , 6, 10038	17.4	132
40	RIAM and vinculin binding to talin are mutually exclusive and regulate adhesion assembly and turnover. <i>Journal of Biological Chemistry</i> , 2013 , 288, 8238-8249	5.4	125

39	Syndecan-4 phosphorylation is a control point for integrin recycling. <i>Developmental Cell</i> , 2013 , 24, 472-85	5.2	94
38	Force-induced cell polarisation is linked to RhoA-driven microtubule-independent focal-adhesion sliding. <i>Journal of Cell Science</i> , 2009 , 122, 3644-51	5.3	92
37	Focal adhesions are sites of integrin extension. <i>Journal of Cell Biology</i> , 2010 , 188, 891-903	7.3	91
36	Distinct focal adhesion protein modules control different aspects of mechanotransduction. <i>Journal of Cell Science</i> , 2017 , 130, 1612-1624	5.3	89
35	Mechanosensitive components of integrin adhesions: Role of vinculin. <i>Experimental Cell Research</i> , 2016 , 343, 21-27	4.2	86
34	Spectraplakins promote microtubule-mediated axonal growth by functioning as structural microtubule-associated proteins and EB1-dependent +TIPs (tip interacting proteins). <i>Journal of Neuroscience</i> , 2012 , 32, 9143-58	6.6	83
33	Molecular mapping of tyrosine-phosphorylated proteins in focal adhesions using fluorescence resonance energy transfer. <i>Journal of Cell Science</i> , 2006 , 119, 866-75	5.3	82
32	The Rac activator STEF (Tiam2) regulates cell migration by microtubule-mediated focal adhesion disassembly. <i>EMBO Reports</i> , 2010 , 11, 292-8	6.5	81
31	The C terminus of talin links integrins to cell cycle progression. <i>Journal of Cell Biology</i> , 2011 , 195, 499-513	7.3	80
30	Modulation of FAK and Src adhesion signaling occurs independently of adhesion complex composition. <i>Journal of Cell Biology</i> , 2016 , 212, 349-64	7.3	61
29	Photoresponsive Hydrogels with Photoswitchable Mechanical Properties Allow Time-Resolved Analysis of Cellular Responses to Matrix Stiffening. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7765-7776	9.5	59
28	LD Motif Recognition by Talin: Structure of the Talin-DLC1 Complex. <i>Structure</i> , 2016 , 24, 1130-41	5.2	51
27	Paxillin and Hic-5 interaction with vinculin is differentially regulated by Rac1 and RhoA. <i>PLoS ONE</i> , 2012 , 7, e37990	3.7	49
26	GAS2-like proteins mediate communication between microtubules and actin through interactions with end-binding proteins. <i>Journal of Cell Science</i> , 2014 , 127, 2672-82	5.3	45
25	Drosophila growth cones: a genetically tractable platform for the analysis of axonal growth dynamics. <i>Developmental Neurobiology</i> , 2010 , 70, 58-71	3.2	44
24	An integrin- α 4-14-3-3 ζ -paxillin ternary complex mediates localised Cdc42 activity and accelerates cell migration. <i>Journal of Cell Science</i> , 2009 , 122, 1654-64	5.3	42
23	Combining AFM and acoustic probes to reveal changes in the elastic stiffness tensor of living cells. <i>Biophysical Journal</i> , 2014 , 107, 1502-12	2.9	33
22	Differential utilization of VLA-4 (α 4 β 1) and -5 (α 5 β 1) integrins during the development of mouse bone marrow-derived mast cells. <i>Differentiation</i> , 1996 , 60, 317-25	3.5	33

21	Fluorescence recovery after photobleaching. <i>Methods in Molecular Biology</i> , 2011 , 769, 387-402	1.4	32
20	Kinectin-mediated endoplasmic reticulum dynamics supports focal adhesion growth in the cellular lamella. <i>Journal of Cell Science</i> , 2010 , 123, 3901-12	5.3	30
19	Characterization of G2L3 (GAS2-like 3), a new microtubule- and actin-binding protein related to spectraplakins. <i>Journal of Biological Chemistry</i> , 2011 , 286, 24987-95	5.4	29
18	Low-intensity pulsed ultrasound promotes cell motility through vinculin-controlled Rac1 GTPase activity. <i>Journal of Cell Science</i> , 2017 , 130, 2277-2291	5.3	25
17	Relief of talin autoinhibition triggers a force-independent association with vinculin. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	25
16	The kinetics of force-induced cell reorganization depend on microtubules and actin. <i>Cytoskeleton</i> , 2010 , 67, 241-50	2.4	23
15	Integration of Atomic Force and Confocal Microscopy. <i>Single Molecules</i> , 2000 , 1, 135-137		22
14	Multi-layer phase analysis: quantifying the elastic properties of soft tissues and live cells with ultra-high-frequency scanning acoustic microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 610-20	3.2	21
13	Vinculin is required to maintain glomerular barrier integrity. <i>Kidney International</i> , 2018 , 93, 643-655	9.9	19
12	β1 integrin NPXY motifs regulate kidney collecting-duct development and maintenance by induced-fit interactions with cytosolic proteins. <i>Molecular and Cellular Biology</i> , 2012 , 32, 4080-91	4.8	8
11	GAS2-like 1 coordinates cell division through its association with end-binding proteins. <i>Scientific Reports</i> , 2019 , 9, 5805	4.9	5
10	Application of microscope-based FRET to study molecular interactions in focal adhesions of live cells. <i>Methods in Molecular Biology</i> , 2005 , 294, 321-34	1.4	4
9	Interplay between the Actin Cytoskeleton, Focal Adhesions and Microtubules		75-99 4
8	Vinculins interaction with talin is essential for mammary epithelial differentiation. <i>Scientific Reports</i> , 2019 , 9, 18400	4.9	3
7	Force-independent interactions of talin and vinculin govern integrin-mediated mechanotransduction		2
6	Talin gets SHANKed in the fight for integrin activation. <i>Nature Cell Biology</i> , 2017 , 19, 265-267	23.4	1
5	Desmosome dualism - most of the junction is stable, but a plakophilin moiety is persistently dynamic. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	1
4	Light-Induced Molecular Adsorption of Proteins Using the PRIMO System for Micro-Patterning to Study Cell Responses to Extracellular Matrix Proteins. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	1

- 3 Tensin3 interaction with talin drives formation of fibronectin-associated fibrillar adhesions 1
- 2 Vinculin is required for neuronal mechanosensing but not for axon outgrowth. *Experimental Cell Research*, **2021**, 407, 112805 4.2 1
- 1 Mechanobiology and the Kidney Glomerulus **2016**, 161-173