Christoph Ballestrem

List of Publications by Year in Descending Order

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	Desmosome dualism - most of the junction is stable, but a plakophilin moiety is persistently dynamic. *Journal of Cell Science*, **2021**, 134,	5.3	1
55	Vinculin is required for neuronal mechanosensing but not for axon outgrowth. *Experimental Cell Research*, **2021**, 407, 112805	4.2	1
54	Relief of talin autoinhibition triggers a force-independent association with vinculin. *Journal of Cell Biology*, **2020**, 219,	7.3	25
53	GAS2-like 1 coordinates cell division through its association with end-binding proteins. *Scientific Reports*, **2019**, 9, 5805	4.9	5
52	Light-Induced Molecular Adsorption of Proteins Using the PRIMO System for Micro-Patterning to Study Cell Responses to Extracellular Matrix Proteins. *Journal of Visualized Experiments*, **2019**,	1.6	1
51	Vinculins interaction with talin is essential for mammary epithelial differentiation. *Scientific Reports* , **2019**, 9, 18400	4.9	3
50	Photoresponsive Hydrogels with Photoswitchable Mechanical Properties Allow Time-Resolved Analysis of Cellular Responses to Matrix Stiffening. *ACS Applied Materials & Interfaces*, **2018**, 10, 7765-7776	9.5	59
49	Vinculin is required to maintain glomerular barrier integrity. *Kidney International*, **2018**, 93, 643-655	9.9	19
48	Low-intensity pulsed ultrasound promotes cell motility through vinculin-controlled Rac1 GTPase activity. *Journal of Cell Science*, **2017**, 130, 2277-2291	5.3	25
47	Talin gets SHANKed in the fight for integrin activation. *Nature Cell Biology*, **2017**, 19, 265-267	23.4	1
46	Distinct focal adhesion protein modules control different aspects of mechanotransduction. *Journal of Cell Science*, **2017**, 130, 1612-1624	5.3	89
45	Mechanotransduction at the cell-matrix interface. *Seminars in Cell and Developmental Biology*, **2017**, 71, 75-83	7.5	133
44	Modulation of FAK and Src adhesion signaling occurs independently of adhesion complex composition. *Journal of Cell Biology*, **2016**, 212, 349-64	7.3	61
43	Mechanosensitive components of integrin adhesions: Role of vinculin. *Experimental Cell Research*, **2016**, 343, 21-27	4.2	86
42	Mechanobiology and the Kidney Glomerulus **2016**, 161-173		
41	LD Motif Recognition by Talin: Structure of the Talin-DLC1 Complex. *Structure*, **2016**, 24, 1130-41	5.2	51
40	Vinculin controls talin engagement with the actomyosin machinery. *Nature Communications*, **2015**, 6, 10038	17.4	132

39	Combining AFM and acoustic probes to reveal changes in the elastic stiffness tensor of living cells. *Biophysical Journal*, **2014**, 107, 1502-12	2.9	33
38	GAS2-like proteins mediate communication between microtubules and actin through interactions with end-binding proteins. *Journal of Cell Science*, **2014**, 127, 2672-82	5.3	45
37	Vinculin regulates the recruitment and release of core focal adhesion proteins in a force-dependent manner. *Current Biology*, **2013**, 23, 271-81	6.3	258
36	Syndecan-4 phosphorylation is a control point for integrin recycling. *Developmental Cell*, **2013**, 24, 472-85	10.2	94
35	RIAM and vinculin binding to talin are mutually exclusive and regulate adhesion assembly and turnover. *Journal of Biological Chemistry*, **2013**, 288, 8238-8249	5.4	125
34	Paxillin and Hic-5 interaction with vinculin is differentially regulated by Rac1 and RhoA. *PLoS ONE*, **2012**, 7, e37990	3.7	49
33	Multi-layer phase analysis: quantifying the elastic properties of soft tissues and live cells with ultra-high-frequency scanning acoustic microscopy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 610-20	3.2	21
32	β1 integrin NPXY motifs regulate kidney collecting-duct development and maintenance by induced-fit interactions with cytosolic proteins. *Molecular and Cellular Biology*, **2012**, 32, 4080-91	4.8	8
31	Spectraplakins promote microtubule-mediated axonal growth by functioning as structural microtubule-associated proteins and EB1-dependent +TIPs (tip interacting proteins). *Journal of Neuroscience*, **2012**, 32, 9143-58	6.6	83
30	Fluorescence recovery after photobleaching. *Methods in Molecular Biology*, **2011**, 769, 387-402	1.4	32
29	Vinculin, an adapter protein in control of cell adhesion signalling. *European Journal of Cell Biology*, **2011**, 90, 157-63	6.1	198
28	The C terminus of talin links integrins to cell cycle progression. *Journal of Cell Biology*, **2011**, 195, 499-513	7.3	80
27	Characterization of G2L3 (GAS2-like 3), a new microtubule- and actin-binding protein related to spectraplakins. *Journal of Biological Chemistry*, **2011**, 286, 24987-95	5.4	29
26	The Rac activator STEF (Tiam2) regulates cell migration by microtubule-mediated focal adhesion disassembly. *EMBO Reports*, **2010**, 11, 292-8	6.5	81
25	Kinectin-mediated endoplasmic reticulum dynamics supports focal adhesion growth in the cellular lamella. *Journal of Cell Science*, **2010**, 123, 3901-12	5.3	30
24	Focal adhesions are sites of integrin extension. *Journal of Cell Biology*, **2010**, 188, 891-903	7.3	91
23	Drosophila growth cones: a genetically tractable platform for the analysis of axonal growth dynamics. *Developmental Neurobiology*, **2010**, 70, 58-71	3.2	44
22	The kinetics of force-induced cell reorganization depend on microtubules and actin. *Cytoskeleton*, **2010**, 67, 241-50	2.4	23

21	Force-induced cell polarisation is linked to RhoA-driven microtubule-independent focal-adhesion sliding. *Journal of Cell Science*, **2009**, 122, 3644-51	5.3	92
20	Regulation of microtubule dynamics by inhibition of the tubulin deacetylase HDAC6. *Journal of Cell Science*, **2009**, 122, 3531-41	5.3	175
19	An integrin-alpha4-14-3-3zeta-paxillin ternary complex mediates localised Cdc42 activity and accelerates cell migration. *Journal of Cell Science*, **2009**, 122, 1654-64	5.3	42
18	Syndecan-4-dependent Rac1 regulation determines directional migration in response to the extracellular matrix. *Journal of Cell Biology*, **2007**, 177, 527-38	7.3	192
17	Mammalian diaphanous-related formin Dia1 controls the organization of E-cadherin-mediated cell-cell junctions. *Journal of Cell Science*, **2007**, 120, 3870-82	5.3	140
16	Vinculin controls focal adhesion formation by direct interactions with talin and actin. *Journal of Cell Biology*, **2007**, 179, 1043-57	7.3	640
15	Assembly and mechanosensory function of focal adhesions: experiments and models. *European Journal of Cell Biology*, **2006**, 85, 165-73	6.1	181
14	Molecular mapping of tyrosine-phosphorylated proteins in focal adhesions using fluorescence resonance energy transfer. *Journal of Cell Science*, **2006**, 119, 866-75	5.3	82
13	Application of microscope-based FRET to study molecular interactions in focal adhesions of live cells. *Methods in Molecular Biology*, **2005**, 294, 321-34	1.4	4
12	Cell behaviour on micropatterned substrata: limits of extracellular matrix geometry for spreading and adhesion. *Journal of Cell Science*, **2004**, 117, 41-52	5.3	324
11	Alpha-smooth muscle actin is crucial for focal adhesion maturation in myofibroblasts. *Molecular Biology of the Cell*, **2003**, 14, 2508-19	3.5	209
10	Early molecular events in the assembly of matrix adhesions at the leading edge of migrating cells. *Journal of Cell Science*, **2003**, 116, 4605-13	5.3	525
9	JAM-2, a novel immunoglobulin superfamily molecule, expressed by endothelial and lymphatic cells. *Journal of Biological Chemistry*, **2001**, 276, 2733-41	5.4	181
8	Marching at the front and dragging behind: differential alphaVbeta3-integrin turnover regulates focal adhesion behavior. *Journal of Cell Biology*, **2001**, 155, 1319-32	7.3	306
7	Integration of Atomic Force and Confocal Microscopy. *Single Molecules*, **2000**, 1, 135-137		22
6	Actin-dependent lamellipodia formation and microtubule-dependent tail retraction control-directed cell migration. *Molecular Biology of the Cell*, **2000**, 11, 2999-3012	3.5	187
5	Endocytic vesicles move at the tips of actin tails in cultured mast cells. *Nature Cell Biology*, **1999**, 1, 72-4	23.4	278
4	Differential utilization of VLA-4 (alpha 4 beta 1) and -5 (alpha 5 beta 1) integrins during the development of mouse bone marrow-derived mast cells. *Differentiation*, **1996**, 60, 317-25	3.5	33

List of Publications

3	Interplay between the Actin Cytoskeleton, Focal Adhesions and Microtubules75-99	4
2	Force-independent interactions of talin and vinculin govern integrin-mediated mechanotransduction	2
1	Tensin3 interaction with talin drives formation of fibronectin-associated fibrillar adhesions	1