Ralph T BÃ¶ttcher

List of Publications by Year
in descending order

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Version: 2024-02-01

39 papers	1,579 citations	361045 20 h-index	315357 38 g-index
42 all docs	42 docs citations	42 times ranked	3027 citing authors

#	Article	IF	Citations
1	Migrating Platelets Are Mechano-scavengers that Collect and Bundle Bacteria. Cell, 2017, 171, 1368-1382.e23.	13.5	251
2	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. ELife, 2016, 5, e10130.	2.8	213
3	Kindlin-1 controls Wnt and TGF-Î² availability to regulate cutaneous stem cell proliferation. Nature Medicine, 2014, 20, 350-359.	15.2	112
4	Kindlin-2 recruits paxillin and Arp2/3 to promote membrane protrusions during initial cell spreading. Journal of Cell Biology, 2017, 216, 3785-3798.	2.3	94
5	PPFIA1 drives active Î±5Î²1 integrin recycling and controls fibronectin fibrillogenesis and vascular morphogenesis. Nature Communications, 2016, 7, 13546.	5.8	72
6	Profilin 1 is required for abscission during late cytokinesis of chondrocytes. EMBO Journal, 2009, 28, 1157-1169.	3.5	69
7	Coronin 1A, a novel player in integrin biology, controls neutrophil trafficking in innate immunity. Blood, 2017, 130, 847-858.	0.6	56
8	Profilin 1 is required for peripheral nervous system myelination. Development (Cambridge), 2014, 141, 1553-1561.	1.2	51
9	Unc5B Interacts with FLRT3 and Rnd1 to Modulate Cell Adhesion in Xenopus Embryos. PLoS ONE, 2009, 4, e5742.	1.1	49
10	Induction of membrane circular dorsal ruffles requires co-signalling of integrinâ€“ILK-complex and EGF receptor. Journal of Cell Science, 2012, 125, 435-448.	1.2	48
11	How ILK and kindlins cooperate to orchestrate integrin signaling. Current Opinion in Cell Biology, 2009, 21, 670-675.	2.6	42
12	Profilin 1 is essential for retention and metabolism of mouse hematopoietic stem cells in bone marrow. Blood, 2014, 123, 992-1001.	0.6	40
13	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions. Nature Communications, 2021, 12, 3104.	5.8	37
14	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes. Nature Communications, 2021, 12, 4086.	5.8	33
15	Quantitative single-protein imaging reveals molecular complex formation of integrin, talin, and kindlin during cell adhesion. Nature Communications, 2021, 12, 919.	5.8	31
16	Yersinia enterocolitica exploits different pathways to accomplish adhesion and toxin injection into host cells. Cellular Microbiology, 2015, 17, 1179-1204.	1.1	30
17	Pharmacological intervention of MKL/SRF signaling by CCG-1423 impedes endothelial cell migration and angiogenesis. Angiogenesis, 2017, 20, 663-672.	3.7	29
18	Sorting Nexin 31 Binds Multiple Î² Integrin Cytoplasmic Domains and Regulates Î²1 Integrin Surface Levels and Stability. Journal of Molecular Biology, 2014, 426, 3180-3194.	2.0	27

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19	Integrin Î±3Î²1 regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. Molecular Biology of the Cell, 2015, 26, 1857-1874.	0.9	27
20	Low density lipoprotein receptor-related protein 1 couples Î²1 integrin activation to degradation. Cellular and Molecular Life Sciences, 2018, 75, 1671-1685.	2.4	25
21	Preserved Morphology and Physiology of Excitatory Synapses in Profilin1-Deficient Mice. PLoS ONE, 2012, 7, e30068.	1.1	22
22	Soluble uric acid inhibits Î²2 integrinâ€“mediated neutrophil recruitment in innate immunity. Blood, 2022, 139, 3402-3417.	0.6	21
23	Comparative phenotypic analysis of the two major splice isoforms of phosphatidylinositol phosphate kinase type IÎ³ in vivo. Journal of Cell Science, 2012, 125, 5636-5646.	1.2	18
24	Myosin-1E interacts with FAK proline-rich region 1 to induce fibronectin-type matrix. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3933-3938.	3.3	18
25	Profilin1 Regulates Sternum Development and Endochondral Bone Formation. Journal of Biological Chemistry, 2012, 287, 33545-33553.	1.6	17
26	Role of Î²1 integrins and bacterial adhesins for Yop injection into leukocytes in Yersinia enterocolitica systemic mouse infection. International Journal of Medical Microbiology, 2016, 306, 77-88.	1.5	17
27	LCP1 preferentially binds clasped Î±MÎ²2 integrin and attenuates leukocyte adhesion under flow. Journal of Cell Science, 2018, 131, .	1.2	16
28	Î²1 Integrins with Individually Disrupted Cytoplasmic NPxY Motifs Are Embryonic Lethal but Partially Active in the Epidermis. Journal of Investigative Dermatology, 2013, 133, 2722-2731.	0.3	15
29	Profilin1 is expressed in osteocytes and regulates cell shape and migration. Journal of Cellular Physiology, 2018, 233, 259-268.	2.0	15
30	More Is Not Always Betterâ€”the Double-Headed Role of Fibronectin in Staphylococcus aureus Host Cell Invasion. MBio, 2021, 12, e0106221.	1.8	13
31	A balanced level of profilin-1 promotes stemness and tumor-initiating potential of breast cancer cells. Cell Cycle, 2017, 16, 2366-2373.	1.3	12
32	Profilin 1 Negatively Regulates Osteoclast Migration in Postnatal Skeletal Growth, Remodeling, and Homeostasis in Mice. JBMR Plus, 2019, 3, e10130.	1.3	10
33	Rabgap1 promotes recycling of active Î²1 integrins to support effective cell migration. Journal of Cell Science, 2020, 133, .	1.2	10
34	FAK auto-phosphorylation site tyrosine 397 is required for development but dispensable for normal skin homeostasis. PLoS ONE, 2018, 13, e0200558.	1.1	9
35	The Collagen Receptor Discoidin Domain Receptor 1b Enhances Integrin Î²1-Mediated Cell Migration by Interacting With Talin and Promoting Rac1 Activation. Frontiers in Cell and Developmental Biology, 2022, 10, 836797.	1.8	8
36	Molecular determinants of Î±VÎ²5 localization in flat clathrin lattices â€“ role of Î±VÎ²5 in cell adhesion and proliferation. Journal of Cell Science, 2022, 135, .	1.2	6

#	Article	IF	Citations
37	The focal adhesion protein Î²-parvin controls cardiomyocyte shape and sarcomere assembly in response to mechanical load. Current Biology, 2022, 32, 3033-3047.e9.	1.8	6
38	New insights into the phosphorylation of the threonine motif of the Î²1 integrin cytoplasmic domain. Life Science Alliance, 2022, 5, e202101301.	1.3	4
39	A forceful connection: mechanoregulation of oncogenic YAP. EMBO Journal, 2017, 36, 2467-2469.	3.5	2