

# Ralph T Bottcher

## List of Publications by Year in Descending Order

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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.

38

papers

1,084

citations

16

h-index

32

g-index

42

ext. papers

1,399

ext. citations

9.3

avg, IF

3.78

L-index

#	Paper	IF	Citations
38	New insights into the phosphorylation of the threonine motif of the $\beta$ integrin cytoplasmic domain.. <i>Life Science Alliance</i> , <b>2022</b> , 5,	5.8	1
37	The Collagen Receptor Discoidin Domain Receptor 1b Enhances Integrin $\beta$ -Mediated Cell Migration by Interacting With Talin and Promoting Rac1 Activation.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10, 836797	5.7	0
36	More Is Not Always Better-the Double-Headed Role of Fibronectin in Staphylococcus aureus Host Cell Invasion. <i>MBio</i> , <b>2021</b> , 12, e0106221	7.8	2
35	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions. <i>Nature Communications</i> , <b>2021</b> , 12, 3104	17.4	10
34	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes. <i>Nature Communications</i> , <b>2021</b> , 12, 4086	17.4	9
33	Quantitative single-protein imaging reveals molecular complex formation of integrin, talin, and kindlin during cell adhesion. <i>Nature Communications</i> , <b>2021</b> , 12, 919	17.4	12
32	Rabgap1 promotes recycling of active $\beta$ integrins to support effective cell migration. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	5
31	Profilin 1 Negatively Regulates Osteoclast Migration in Postnatal Skeletal Growth, Remodeling, and Homeostasis in Mice. <i>JBMR Plus</i> , <b>2019</b> , 3, e10130	3.9	5
30	Profilin1 is expressed in osteocytes and regulates cell shape and migration. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 233, 259-268	7	7
29	Low density lipoprotein receptor-related protein 1 couples $\beta$ integrin activation to degradation. <i>Cellular and Molecular Life Sciences</i> , <b>2018</b> , 75, 1671-1685	10.3	11
28	FAK auto-phosphorylation site tyrosine 397 is required for development but dispensable for normal skin homeostasis. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200558	3.7	4
27	LCP1 preferentially binds clasped $\beta$ integrin and attenuates leukocyte adhesion under flow. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	7
26	Coronin 1A, a novel player in integrin biology, controls neutrophil trafficking in innate immunity. <i>Blood</i> , <b>2017</b> , 130, 847-858	2.2	43
25	Myosin-1E interacts with FAK proline-rich region 1 to induce fibronectin-type matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3933-3938	11.5	12
24	Kindlin-2 recruits paxillin and Arp2/3 to promote membrane protrusions during initial cell spreading. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 3785-3798	7.3	71
23	A forceful connection: mechanoregulation of oncogenic YAP. <i>EMBO Journal</i> , <b>2017</b> , 36, 2467-2469	13	1
22	Migrating Platelets Are Mechano-scavengers that Collect and Bundle Bacteria. <i>Cell</i> , <b>2017</b> , 171, 1368-1383	16.23	168

21	Pharmacological intervention of MKL/SRF signaling by CCG-1423 impedes endothelial cell migration and angiogenesis. <i>Angiogenesis</i> , <b>2017</b> , 20, 663-672	10.6	18
20	A balanced level of profilin-1 promotes stemness and tumor-initiating potential of breast cancer cells. <i>Cell Cycle</i> , <b>2017</b> , 16, 2366-2373	4.7	8
19	PPFIA1 drives active $\beta 1$ integrin recycling and controls fibronectin fibrillogenesis and vascular morphogenesis. <i>Nature Communications</i> , <b>2016</b> , 7, 13546	17.4	54
18	Role of $\alpha 5$ integrins and bacterial adhesins for Yop injection into leukocytes in <i>Yersinia enterocolitica</i> systemic mouse infection. <i>International Journal of Medical Microbiology</i> , <b>2016</b> , 306, 77-88	3.7	14
17	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. <i>ELife</i> , <b>2016</b> , 5, e10130	8.9	155
16	Integrin $\beta 1$ regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 1857-74	3.5	16
15	<i>Yersinia enterocolitica</i> exploits different pathways to accomplish adhesion and toxin injection into host cells. <i>Cellular Microbiology</i> , <b>2015</b> , 17, 1179-204	3.9	24
14	Sorting nexin 31 binds multiple $\alpha$ integrin cytoplasmic domains and regulates $\alpha$ integrin surface levels and stability. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 3180-3194	6.5	23
13	Profilin 1 is essential for retention and metabolism of mouse hematopoietic stem cells in bone marrow. <i>Blood</i> , <b>2014</b> , 123, 992-1001	2.2	32
12	Profilin 1 is required for peripheral nervous system myelination. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 1553-61	6.6	33
11	Kindlin-1 controls Wnt and TGF- $\beta$ availability to regulate cutaneous stem cell proliferation. <i>Nature Medicine</i> , <b>2014</b> , 20, 350-9	50.5	101
10	$\alpha$ integrins with individually disrupted cytoplasmic NPxY motifs are embryonic lethal but partially active in the epidermis. <i>Journal of Investigative Dermatology</i> , <b>2013</b> , 133, 2722-2731	4.3	12
9	Preserved morphology and physiology of excitatory synapses in profilin1-deficient mice. <i>PLoS ONE</i> , <b>2012</b> , 7, e30068	3.7	15
8	Induction of membrane circular dorsal ruffles requires co-signalling of integrin-ILK-complex and EGF receptor. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 435-48	5.3	45
7	Profilin1 regulates sternum development and endochondral bone formation. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33545-53	5.4	13
6	Comparative phenotypic analysis of the two major splice isoforms of phosphatidylinositol phosphate kinase type I <i>in vivo</i> . <i>Journal of Cell Science</i> , <b>2012</b> , 125, 5636-46	5.3	12
5	How ILK and kindlins cooperate to orchestrate integrin signaling. <i>Current Opinion in Cell Biology</i> , <b>2009</b> , 21, 670-5	9	39
4	Profilin 1 is required for abscission during late cytokinesis of chondrocytes. <i>EMBO Journal</i> , <b>2009</b> , 28, 1157-69	3.69	53

3	Unc5B interacts with FLRT3 and Rnd1 to modulate cell adhesion in <i>Xenopus</i> embryos. <i>PLoS ONE</i> , <b>2009</b> , 4, e5742	3-7	45
2	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions		1
1	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes		1