

Ronen Zaidel-Bar

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

5,229
citations

159585

30
h-index

138484

58
g-index

225
all docs

225
docs citations

225
times ranked

6126
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional atlas of the integrin adhesome. <i>Nature Cell Biology</i> , 2007, 9, 858-867.	10.3	1,033
2	Early molecular events in the assembly of matrix adhesions at the leading edge of migrating cells. <i>Journal of Cell Science</i> , 2003, 116, 4605-4613.	2.0	589
3	Hierarchical assembly of cell-matrix adhesion complexes. <i>Biochemical Society Transactions</i> , 2004, 32, 416-420.	3.4	474
4	A paxillin tyrosine phosphorylation switch regulates the assembly and form of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2007, 120, 137-148.	2.0	402
5	The switchable integrin adhesome. <i>Journal of Cell Science</i> , 2010, 123, 1385-1388.	2.0	291
6	Actin-Delimited Adhesion-Independent Clustering of E-Cadherin Forms the Nanoscale Building Blocks of Adherens Junctions. <i>Developmental Cell</i> , 2015, 32, 139-154.	7.0	175
7	Long-range self-organization of cytoskeletal myosin II filament stacks. <i>Nature Cell Biology</i> , 2017, 19, 133-141.	10.3	170
8	E-cadherin interactome complexity and robustness resolved by quantitative proteomics. <i>Science Signaling</i> , 2014, 7, rs7.	3.6	160
9	Nanoscale architecture of cadherin-based cell-cell adhesions. <i>Nature Cell Biology</i> , 2017, 19, 28-37.	10.3	135
10	Cadherin adhesome at a glance. <i>Journal of Cell Science</i> , 2013, 126, 373-378.	2.0	111
11	Plastin increases cortical connectivity to facilitate robust polarization and timely cytokinesis. <i>Journal of Cell Biology</i> , 2017, 216, 1371-1386.	5.2	99
12	Polarized downregulation of the paxillin-p130CAS-Rac1 pathway induced by shear flow. <i>Journal of Cell Science</i> , 2005, 118, 3997-4007.	2.0	94
13	Opening the floodgates: proteomics and the integrin adhesome. <i>Current Opinion in Cell Biology</i> , 2012, 24, 562-568.	5.4	91
14	Principles of Actomyosin Regulation In Vivo. <i>Trends in Cell Biology</i> , 2019, 29, 150-163.	7.9	86
15	E-cadherin junction formation involves an active kinetic nucleation process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10932-10937.	7.1	84
16	The contractome – a systems view of actomyosin contractility in non-muscle cells. <i>Journal of Cell Science</i> , 2015, 128, 2209-2217.	2.0	74
17	Two Isoforms of the Drosophila RNA Binding Protein, How, Act in Opposing Directions to Regulate Tendon Cell Differentiation. <i>Developmental Cell</i> , 2002, 2, 183-193.	7.0	70
18	Loss of the RhoGAP SRGP-1 promotes the clearance of dead and injured cells in <i>Caenorhabditis elegans</i> . <i>Nature Cell Biology</i> , 2011, 13, 79-86.	10.3	59

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19	The F-BAR domain of SRGP-1 facilitates cell-cell adhesion during <i>C. elegans</i> morphogenesis. <i>Journal of Cell Biology</i> , 2010, 191, 761-769.	5.2	56
20	Formin-mediated actin polymerization at cell-cell junctions stabilizes E-cadherin and maintains monolayer integrity during wound repair. <i>Molecular Biology of the Cell</i> , 2016, 27, 2844-2856.	2.1	54
21	Germ Granules Govern Small RNA Inheritance. <i>Current Biology</i> , 2019, 29, 2880-2891.e4.	3.9	52
22	The <i>C. elegans</i> Zonula Occludens Ortholog Cooperates with the Cadherin Complex to Recruit Actin during Morphogenesis. <i>Current Biology</i> , 2008, 18, 1333-1337.	3.9	50
23	<i>Salmonella</i> biofilms program innate immunity for persistence in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12462-12467.	7.1	49
24	Regulation of Adherens Junction Dynamics by Phosphorylation Switches. <i>Journal of Signal Transduction</i> , 2012, 2012, 1-14.	2.0	47
25	Evolution of complexity in the integrin adhesome. <i>Journal of Cell Biology</i> , 2009, 186, 317-321.	5.2	45
26	Pre-metazoan origins and evolution of the cadherin adhesome. <i>Biology Open</i> , 2014, 3, 1183-1195.	1.2	41
27	Structured illumination microscopy reveals focal adhesions are composed of linear subunits. <i>Cytoskeleton</i> , 2015, 72, 235-245.	2.0	41
28	Non-junctional E-Cadherin Clusters Regulate the Actomyosin Cortex in the <i>C. elegans</i> Zygote. <i>Current Biology</i> , 2017, 27, 103-112.	3.9	41
29	Spatially modulated ephrinA1:EphA2 signaling increases local contractility and global focal adhesion dynamics to promote cell motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5696-E5705.	7.1	40
30	Sustained β -catenin Activation at E-cadherin Junctions in the Absence of Mechanical Force. <i>Biophysical Journal</i> , 2016, 111, 1044-1052.	0.5	37
31	An optogenetic tool for the activation of endogenous diaphanous-related formins induces thickening of stress fibers without an increase in contractility. <i>Cytoskeleton</i> , 2013, 70, 394-407.	2.0	36
32	From cell shape to cell fate via the cytoskeleton - Insights from the epidermis. <i>Experimental Cell Research</i> , 2019, 378, 232-237.	2.6	36
33	Transient Membrane Localization of SPV-1 Drives Cyclical Actomyosin Contractions in the <i>C. elegans</i> Spermatheca. <i>Current Biology</i> , 2015, 25, 141-151.	3.9	34
34	Jack of all trades: functional modularity in the adherens junction. <i>Current Opinion in Cell Biology</i> , 2015, 36, 32-40.	5.4	33
35	Early events in the assembly of E-cadherin adhesions. <i>Experimental Cell Research</i> , 2017, 358, 14-19.	2.6	29
36	Syncytial germline architecture is actively maintained by contraction of an internal actomyosin corset. <i>Nature Communications</i> , 2018, 9, 4694.	12.8	29

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37	Tropomodulin Protects $\hat{\pm}$ -Catenin-Dependent Junctional-Actin Networks under Stress during Epithelial Morphogenesis. <i>Current Biology</i> , 2012, 22, 1500-1505.	3.9	28
38	Molting-specific downregulation of <i>C. elegans</i> body-wall muscle attachment sites: The role of RNF-5 E3 ligase. <i>Biochemical and Biophysical Research Communications</i> , 2010, 395, 509-514.	2.1	24
39	There are four dynamically and functionally distinct populations of E-cadherin in cell junctions. <i>Biology Open</i> , 2015, 4, 1481-1489.	1.2	24
40	Stretch-induced actomyosin contraction in epithelial tubes: Mechanotransduction pathways for tubular homeostasis. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 146-152.	5.0	22
41	Diverse roles of non-muscle myosin II contractility in 3D cell migration. <i>Essays in Biochemistry</i> , 2019, 63, 497-508.	4.7	22
42	Probing the effect of clustering on EphA2 receptor signaling efficiency by subcellular control of ligand-receptor mobility. <i>ELife</i> , 2021, 10, .	6.0	22
43	Reciprocal regulation of actomyosin organization and contractility in nonmuscle cells by tropomyosins and alpha-actinins. <i>Molecular Biology of the Cell</i> , 2019, 30, 2025-2036.	2.1	21
44	Mechanosensing in embryogenesis. <i>Current Opinion in Cell Biology</i> , 2021, 68, 1-9.	5.4	20
45	Temporal evolution of cell focal adhesions: experimental observations and shear stress profiles. <i>Soft Matter</i> , 2008, 4, 2410.	2.7	17
46	Thymosin $\hat{\beta}$ 4 is essential for adherens junction stability and epidermal planar cell polarity. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	16
47	The myosin light-chain kinase MLCK-1 relocalizes during <i>Caenorhabditis elegans</i> oviduct to promote actomyosin bundle assembly and drive contraction. <i>Molecular Biology of the Cell</i> , 2018, 29, 1975-1991.	2.1	14
48	Glycosyl Phosphatidylinositol Anchor Biosynthesis Is Essential for Maintaining Epithelial Integrity during <i>Caenorhabditis elegans</i> Embryogenesis. <i>PLoS Genetics</i> , 2015, 11, e1005082.	3.5	8
49	The RhoGAP SPV-1 regulates calcium signaling to control the contractility of the <i>Caenorhabditis elegans</i> spermatheca during embryo transits. <i>Molecular Biology of the Cell</i> , 2019, 30, 907-922.	2.1	8
50	Atypical matrix adhesions guide cell division. <i>Nature Cell Biology</i> , 2018, 20, 1233-1235.	10.3	7
51	The AP-2 Transcription Factor APTF-2 Is Required for Neuroblast and Epidermal Morphogenesis in <i>Caenorhabditis elegans</i> Embryogenesis. <i>PLoS Genetics</i> , 2016, 12, e1006048.	3.5	7
52	Job-splitting among integrins. <i>Nature Cell Biology</i> , 2013, 15, 575-577.	10.3	6
53	Levodopa-responsive dystonia caused by biallelic <i>PRKN</i> exon inversion invisible to exome sequencing. <i>Brain Communications</i> , 2021, 3, fcab197.	3.3	5
54	Mechanosensing: From proteins to tissues. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 1-2.	5.0	2

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55	Cell cycle pacemaker keeps adhesion in step with division. <i>Journal of Cell Biology</i> , 2018, 217, 2981-2982.	5.2	2
56	Pyk2 regulates cell-edge protrusion dynamics by interacting with Crk. <i>Molecular Biology of the Cell</i> , 2021, 32, mbc.E20-10-0640.	2.1	2
57	Protein Networks in Integrin-Mediated Adhesions. , 2010, , 139-151.		1
58	Introduction to the ECR special issue on "Cell sensing and signaling via cell-cell adhesions". <i>Experimental Cell Research</i> , 2017, 358, 1-2.	2.6	1
59	Visualizing and quantifying molecular and cellular processes in <i>Caenorhabditis elegans</i> using light microscopy. <i>Genetics</i> , 0, , .	2.9	1