

# James E Bear

## List of Publications by Year in descending order

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73  
papers

7,292  
citations

117625

34  
h-index

102487

66  
g-index

77  
all docs

77  
docs citations

77  
times ranked

9312  
citing authors

#	ARTICLE	IF	CITATIONS
1	A kinetic model of phospholipase C- $\beta$ 1 linking structure-based insights to dynamics of enzyme autoinhibition and activation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101886.	3.4	3
2	Coro1B and Coro1C regulate lamellipodia dynamics and cell motility by tuning branched actin turnover. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	7
3	The principles of directed cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 529-547.	37.0	252
4	Microfluidic devices fitted with "flow" paper pumps generate steady, tunable gradients for extended observation of chemotactic cell migration. <i>Biomicrofluidics</i> , 2021, 15, 044101.	2.4	1
5	Modeling cell protrusion predicts how Myosin II and actin turnover affect adhesion-based signaling. <i>Biophysical Journal</i> , 2021, , .	0.5	5
6	A Circle RNA Regulatory Axis Promotes Lung Squamous Metastasis via CDR1-Mediated Regulation of Golgi Trafficking. <i>Cancer Research</i> , 2020, 80, 4972-4985.	0.9	23
7	An optogenetic switch for the Set2 methyltransferase provides evidence for transcription-dependent and -independent dynamics of H3K36 methylation. <i>Genome Research</i> , 2020, 30, 1605-1617.	5.5	10
8	Coronin 1C inhibits melanoma metastasis through regulation of MT1-MMP-containing extracellular vesicle secretion. <i>Scientific Reports</i> , 2020, 10, 11958.	3.3	12
9	Megakaryocytes use in vivo podosome-like structures working collectively to penetrate the endothelial barrier of bone marrow sinusoids. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 2987-3001.	3.8	28
10	Mechanistic models of PLC/PKC signaling implicate phosphatidic acid as a key amplifier of chemotactic gradient sensing. <i>PLoS Computational Biology</i> , 2020, 16, e1007708.	3.2	5
11	Arp2/3 inactivation causes intervertebral disc and cartilage degeneration with dysregulated TonEBP-mediated osmoadaptation. <i>JCI Insight</i> , 2020, 5, .	5.0	23
12	Title is missing!. , 2020, 16, e1007708.		0
13	Title is missing!. , 2020, 16, e1007708.		0
14	Title is missing!. , 2020, 16, e1007708.		0
15	Title is missing!. , 2020, 16, e1007708.		0
16	Title is missing!. , 2020, 16, e1007708.		0
17	Emergent spatiotemporal dynamics of the actomyosin network in the presence of chemical gradients. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 280-292.	1.3	0
18	Myeloid <i>Slc2a1</i> -Deficient Murine Model Revealed Macrophage Activation and Metabolic Phenotype Are Fueled by GLUT1. <i>Journal of Immunology</i> , 2019, 202, 1265-1286.	0.8	104

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19	Enucleated cells reveal differential roles of the nucleus in cell migration, polarity, and mechanotransduction. <i>Journal of Cell Biology</i> , 2018, 217, 895-914.	5.2	93
20	New Mechanisms of Resistance to MEK Inhibitors in Melanoma Revealed by Intravital Imaging. <i>Cancer Research</i> , 2018, 78, 542-557.	0.9	57
21	Coronin 1C promotes triple-negative breast cancer invasiveness through regulation of MT1-MMP traffic and invadopodia function. <i>Oncogene</i> , 2018, 37, 6425-6441.	5.9	36
22	Lack of myeloid Fatp1 increases atherosclerotic lesion size in Ldlr $\Delta/\Delta$ mice. <i>Atherosclerosis</i> , 2017, 266, 182-189.	0.8	14
23	Tortuous Microvessels Contribute to Wound Healing via Sprouting Angiogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1903-1912.	2.4	31
24	Arp2/3 Complex Is Required for Macrophage Integrin Functions but Is Dispensable for FcR Phagocytosis and In Vivo Motility. <i>Developmental Cell</i> , 2017, 42, 498-513.e6.	7.0	92
25	Self-sorting of nonmuscle myosins IIA and IIB polarizes the cytoskeleton and modulates cell motility. <i>Journal of Cell Biology</i> , 2017, 216, 2877-2889.	5.2	64
26	Cells lay their own tracks: optogenetic Cdc42 activation stimulates fibronectin deposition supporting directed migration. <i>Journal of Cell Science</i> , 2017, 130, 2971-2983.	2.0	25
27	A Reaction-Diffusion Model Explains Amplification of the PLC/PKC Pathway in Fibroblast Chemotaxis. <i>Biophysical Journal</i> , 2017, 113, 185-194.	0.5	10
28	Deletion of the Arp2/3 complex in megakaryocytes leads to microthrombocytopenia in mice. <i>Blood Advances</i> , 2017, 1, 1398-1408.	5.2	33
29	Light-induced nuclear export reveals rapid dynamics of epigenetic modifications. <i>Nature Chemical Biology</i> , 2016, 12, 399-401.	8.0	89
30	Tropomyosin Promotes Lamellipodial Persistence by Collaborating with Arp2/3 at the Leading Edge. <i>Current Biology</i> , 2016, 26, 1312-1318.	3.9	39
31	Lamellipodia are critical for haptotactic sensing and response. <i>Journal of Cell Science</i> , 2016, 129, 2329-42.	2.0	53
32	Quantitative analysis of B-lymphocyte migration directed by CXCL13. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 1309-1313.	1.3	9
33	Tuning the Binding Affinities and Reversion Kinetics of a Light Inducible Dimer Allows Control of Transmembrane Protein Localization. <i>Biochemistry</i> , 2016, 55, 5264-5271.	2.5	68
34	Tumor Cell-Driven Extracellular Matrix Remodeling Drives Haptotaxis during Metastatic Progression. <i>Cancer Discovery</i> , 2016, 6, 516-531.	9.4	164
35	Subtumoral analysis of PRINT nanoparticle distribution reveals targeting variation based on cellular and particle properties. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1053-1062.	3.3	27
36	Correlating <i>in Vitro</i> and <i>in Vivo</i> Activities of Light-Inducible Dimers: A Cellular Optogenetics Guide. <i>ACS Synthetic Biology</i> , 2016, 5, 53-64.	3.8	74

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37	Ankyrin-B is a PI3P effector that promotes polarized $\beta$ 5 $\alpha$ 1-integrin recycling via recruiting RabGAP1L to early endosomes. <i>ELife</i> , 2016, 5, .	6.0	27
38	$\beta$ 2-adrenoceptor signaling regulates invadopodia formation to enhance tumor cell invasion. <i>Breast Cancer Research</i> , 2015, 17, 145.	5.0	64
39	F-actin bundles direct the initiation and orientation of lamellipodia through adhesion-based signaling. <i>Journal of Cell Biology</i> , 2015, 208, 443-455.	5.2	87
40	Engineering an improved light-induced dimer (iLID) for controlling the localization and activity of signaling proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 112-117.	7.1	533
41	Cortical actin networks induce spatio-temporal confinement of phospholipids in the plasma membrane – a minimally invasive investigation by STED-FCS. <i>Scientific Reports</i> , 2015, 5, 11454.	3.3	106
42	IL2 Inducible T-cell Kinase, a Novel Therapeutic Target in Melanoma. <i>Clinical Cancer Research</i> , 2015, 21, 2167-2176.	7.0	16
43	N-glycosylation controls the function of junctional adhesion molecule-A. <i>Molecular Biology of the Cell</i> , 2015, 26, 3205-3214.	2.1	26
44	Competition and collaboration between different actin assembly pathways allows for homeostatic control of the actin cytoskeleton. <i>Bioarchitecture</i> , 2015, 5, 27-34.	1.5	41
45	GMF $\beta$ controls branched actin content and lamellipodial retraction in fibroblasts. <i>Journal of Cell Biology</i> , 2015, 209, 803-812.	5.2	32
46	Profilin-1 Serves as a Gatekeeper for Actin Assembly by Arp2/3-Dependent and -Independent Pathways. <i>Developmental Cell</i> , 2015, 32, 54-67.	7.0	241
47	Control of Protein Activity and Cell Fate Specification via Light-Mediated Nuclear Translocation. <i>PLoS ONE</i> , 2015, 10, e0128443.	2.5	95
48	Mesenchymal Chemotaxis Requires Selective Inactivation of Myosin II at the Leading Edge via a Noncanonical PLC $\beta$ /PKC $\delta$ Pathway. <i>Developmental Cell</i> , 2014, 31, 747-760.	7.0	72
49	LKB1 loss in melanoma disrupts directional migration toward extracellular matrix cues. <i>Journal of Cell Biology</i> , 2014, 207, 299-315.	5.2	41
50	Directed migration of mesenchymal cells: where signaling and the cytoskeleton meet. <i>Current Opinion in Cell Biology</i> , 2014, 30, 74-82.	5.4	150
51	Simultaneous Multi-Species Tracking in Live Cells with Quantum Dot Conjugates. <i>PLoS ONE</i> , 2014, 9, e97671.	2.5	26
52	Automated analysis of invadopodia dynamics in live cells. <i>PeerJ</i> , 2014, 2, e462.	2.0	4
53	New insights into the regulation and cellular functions of the ARP2/3 complex. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 7-12.	37.0	434
54	Intravital imaging of a spheroid-based orthotopic model of melanoma in the mouse ear skin. <i>Intravital</i> , 2013, 2, e25805.	2.0	10

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55	Loss of Arp2/3 induces an NF- $\kappa$ B-dependent, nonautonomous effect on chemotactic signaling. <i>Journal of Cell Biology</i> , 2013, 203, 907-916.	5.2	37
56	Coronin 1C harbours a second actin-binding site that confers co-operative binding to F-actin. <i>Biochemical Journal</i> , 2012, 444, 89-96.	3.7	31
57	Arp2/3 Is Critical for Lamellipodia and Response to Extracellular Matrix Cues but Is Dispensable for Chemotaxis. <i>Cell</i> , 2012, 148, 973-987.	28.9	409
58	LKB1/STK11 Inactivation Leads to Expansion of a Prometastatic Tumor Subpopulation in Melanoma. <i>Cancer Cell</i> , 2012, 21, 751-764.	16.8	116
59	Unraveling the enigma: progress towards understanding the coronin family of actin regulators. <i>Trends in Cell Biology</i> , 2011, 21, 481-488.	7.9	143
60	Using mechanobiological mimicry of red blood cells to extend circulation times of hydrogel microparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 586-591.	7.1	489
61	Metastasis in an orthotopic murine model of melanoma is independent of RAS/RAF mutation. <i>Melanoma Research</i> , 2010, 20, 361-371.	1.2	31
62	Ena/VASP: towards resolving a pointed controversy at the barbed end. <i>Journal of Cell Science</i> , 2009, 122, 1947-1953.	2.0	243
63	Golgi polarity does not correlate with speed or persistence of freely migrating fibroblasts. <i>European Journal of Cell Biology</i> , 2009, 88, 711-717.	3.6	24
64	Double JMY: making actin fast. <i>Nature Cell Biology</i> , 2009, 11, 375-376.	10.3	11
65	Sorting Out Endosomes in the WASH. <i>Developmental Cell</i> , 2009, 17, 583-584.	7.0	7
66	Coronin 1B Antagonizes Cortactin and Remodels Arp2/3-Containing Actin Branches in Lamellipodia. <i>Cell</i> , 2008, 134, 828-842.	28.9	200
67	The Role of Mammalian Coronins in Development and Disease. <i>Sub-Cellular Biochemistry</i> , 2008, 48, 124-135.	2.4	30
68	Enhanced EGFP-chromophore-assisted laser inactivation using deficient cells rescued with functional EGFP-fusion proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6702-6707.	7.1	63
69	Coronin 1B Coordinates Arp2/3 Complex and Cofilin Activities at the Leading Edge. <i>Cell</i> , 2007, 128, 915-929.	28.9	209
70	Ena/VASP Proteins: Regulators of the Actin Cytoskeleton and Cell Migration. <i>Annual Review of Cell and Developmental Biology</i> , 2003, 19, 541-564.	9.4	602
71	Antagonism between Ena/VASP Proteins and Actin Filament Capping Regulates Fibroblast Motility. <i>Cell</i> , 2002, 109, 509-521.	28.9	759
72	Formins. <i>Developmental Cell</i> , 2002, 3, 149-150.	7.0	2

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73	Negative Regulation of Fibroblast Motility by Ena/VASP Proteins. Cell, 2000, 101, 717-728.	28.9	425