

Ryan J Petrie

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,495
citations

331670

21
h-index

501196

28
g-index

43
all docs

43
docs citations

43
times ranked

5319
citing authors

#	ARTICLE	IF	CITATIONS
1	Random versus directionally persistent cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 538-549.	37.0	835
2	Nonpolarized signaling reveals two distinct modes of 3D cell migration. <i>Journal of Cell Biology</i> , 2012, 197, 439-455.	5.2	325
3	The nucleus acts as a ruler tailoring cell responses to spatial constraints. <i>Science</i> , 2020, 370, .	12.6	299
4	Generation of compartmentalized pressure by a nuclear piston governs cell motility in a 3D matrix. <i>Science</i> , 2014, 345, 1062-1065.	12.6	296
5	At the leading edge of three-dimensional cell migration. <i>Journal of Cell Science</i> , 2012, 125, 5917-5926.	2.0	259
6	Hydraulic control of mammalian embryo size and cell fate. <i>Nature</i> , 2019, 571, 112-116.	27.8	216
7	Dimensions in cell migration. <i>Current Opinion in Cell Biology</i> , 2013, 25, 642-649.	5.4	171
8	Transient Translocation of the B Cell Receptor and Src Homology 2 Domain-Containing Inositol Phosphatase to Lipid Rafts: Evidence Toward a Role in Calcium Regulation. <i>Journal of Immunology</i> , 2000, 165, 1220-1227.	0.8	130
9	Multiple mechanisms of 3D migration: the origins of plasticity. <i>Current Opinion in Cell Biology</i> , 2016, 42, 7-12.	5.4	114
10	Dense fibrillar collagen is a potent inducer of invadopodia via a specific signaling network. <i>Journal of Cell Biology</i> , 2015, 208, 331-350.	5.2	107
11	Regulation of extracellular matrix assembly and structure by hybrid M1/M2 macrophages. <i>Biomaterials</i> , 2021, 269, 120667.	11.4	106
12	Rab35 regulates neurite outgrowth and cell shape. <i>FEBS Letters</i> , 2009, 583, 1096-1101.	2.8	86
13	Activating the nuclear piston mechanism of 3D migration in tumor cells. <i>Journal of Cell Biology</i> , 2017, 216, 93-100.	5.2	86
14	Fibroblasts Lead the Way: A Unified View of 3D Cell Motility. <i>Trends in Cell Biology</i> , 2015, 25, 666-674.	7.9	79
15	Colocalization of the B Cell Receptor and CD20 Followed by Activation-Dependent Dissociation in Distinct Lipid Rafts. <i>Journal of Immunology</i> , 2002, 169, 2886-2891.	0.8	77
16	The CD20 Calcium Channel Is Localized to Microvilli and Constitutively Associated with Membrane Rafts. <i>Journal of Biological Chemistry</i> , 2004, 279, 19893-19901.	3.4	59
17	Spatial and temporal activation of the small GTPases RhoA and Rac1 by the netrin-1 receptor UNC5a during neurite outgrowth. <i>Cellular Signalling</i> , 2009, 21, 1961-1973.	3.6	45
18	YAP and TAZ regulate cell volume. <i>Journal of Cell Biology</i> , 2019, 218, 3472-3488.	5.2	39

#	ARTICLE	IF	CITATIONS
19	Myosin II governs intracellular pressure and traction by distinct tropomyosin-dependent mechanisms. <i>Molecular Biology of the Cell</i> , 2019, 30, 1170-1181.	2.1	27
20	Compartmentalized DCC signalling is distinct from DCC localized to lipid rafts. <i>Biology of the Cell</i> , 2009, 101, 77-90.	2.0	26
21	Direct Measurement of Intracellular Pressure. <i>Current Protocols in Cell Biology</i> , 2014, 63, 12.9.1-9.	2.3	24
22	Lymphocyte egress signal sphingosine-1-phosphate promotes ERM-guided, bleb-based migration. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	20
23	The $\hat{\gamma}^2$ -actin mRNA zipcode regulates epithelial adherens junction assembly but not maintenance. <i>Rna</i> , 2014, 20, 689-701.	3.5	18
24	Pannexin 3 ER Ca ²⁺ channel gating is regulated by phosphorylation at the Serine 68 residue in osteoblast differentiation. <i>Scientific Reports</i> , 2019, 9, 18759.	3.3	17
25	Intracellular Pressure: A Driver of Cell Morphology and Movement. <i>International Review of Cell and Molecular Biology</i> , 2018, 337, 185-211.	3.2	15
26	Myosin II and Arp2/3 cross-talk governs intracellular hydraulic pressure and lamellipodia formation. <i>Molecular Biology of the Cell</i> , 2021, 32, 579-589.	2.1	8
27	Cytoplasmic pressure maintains epithelial integrity and inhibits cell motility. <i>Physical Biology</i> , 2021, 18, 066003.	1.8	5
28	Push or pull: how cytoskeletal crosstalk facilitates nuclear movement through 3D environments. <i>Physical Biology</i> , 2022, 19, 021003.	1.8	4
29	Cell Biology: Resolving How DNA Is Damaged during 3D Migration. <i>Current Biology</i> , 2021, 31, R209-R211.	3.9	0
30	The matrix in focus: new directions in extracellular matrix research from the 2021 ASMB hybrid meeting. <i>Biology Open</i> , 2022, 11, .	1.2	0
31	Visualizing Cell Motility in Mouse Ear Explants. <i>Current Protocols</i> , 2022, 2, e434.	2.9	0