Keith Burridge

List of Publications by Year in Descending Order

119 papers	27,252 citations	75 h-index	122 g-index
122 ext. papers	29,200 ext. citations	11.3 avg, IF	7.11 L-index

#	Paper	IF	Citations
119	Syndecan-4/PAR-3 signaling regulates focal adhesion dynamics in mesenchymal cells. *Cell Communication and Signaling*, **2020**, 18, 129	7.5	4
118	Software for lattice light-sheet imaging of FRET biosensors, illustrated with a new Rap1 biosensor. *Journal of Cell Biology*, **2019**, 218, 3153-3160	7.3	15
117	Vinculin and metavinculin exhibit distinct effects on focal adhesion properties, cell migration, and mechanotransduction. *PLoS ONE*, **2019**, 14, e0221962	3.7	6
116	Mechanotransduction: from the cell surface to the nucleus via RhoA. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180229	5.8	36
115	The role of endothelial MERTK during the inflammatory response in lungs. *PLoS ONE*, **2019**, 14, e0225051	3.7	7
114	Cell-Cycle-Dependent Regulation of Cell Adhesions: Adhering to the Schedule: Three papers reveal unexpected properties of adhesion structures as cells progress through the cell cycle. *BioEssays*, **2019**, 41, e1800165	4.1	11
113	Enucleated cells reveal differential roles of the nucleus in cell migration, polarity, and mechanotransduction. *Journal of Cell Biology*, **2018**, 217, 895-914	7.3	68
112	A Rnd3/p190RhoGAP pathway regulates RhoA activity in idiopathic pulmonary fibrosis fibroblasts. *Molecular Biology of the Cell*, **2018**, 29, 2165-2175	3.5	15
111	LARG GEF and ARHGAP18 orchestrate RhoA activity to control mesenchymal stem cell lineage. *Bone*, **2018**, 107, 172-180	4.7	19
110	Talin: a protein designed for mechanotransduction. *Emerging Topics in Life Sciences*, **2018**, 2, 673-675	3.5	3
109	Small GTPase Rap1A/B Is Required for Lymphatic Development and Adrenomedullin-Induced Stabilization of Lymphatic Endothelial Junctions. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2410-2422	9.4	15
108	Focal adhesions: a personal perspective on a half century of progress. *FEBS Journal*, **2017**, 284, 3355-3361	4.7	111
107	Focal adhesions, stress fibers and mechanical tension. *Experimental Cell Research*, **2016**, 343, 14-20	4.2	202
106	Rho GTPase Transcriptome Analysis Reveals Oncogenic Roles for Rho GTPase-Activating Proteins in Basal-like Breast Cancers. *Cancer Research*, **2016**, 76, 3826-37	10.1	40
105	Mechanotransduction and nuclear function. *Current Opinion in Cell Biology*, **2016**, 40, 98-105	9	66
104	Tension on JAM-A activates RhoA via GEF-H1 and p115 RhoGEF. *Molecular Biology of the Cell*, **2016**, 27, 1420-30	3.5	30
103	Tumor Endothelial Cells with Distinct Patterns of TGF-Driven Endothelial-to-Mesenchymal Transition. *Cancer Research*, **2015**, 75, 1244-54	10.1	51

102	Cell Mechanosensitivity to Extremely Low-Magnitude Signals Is Enabled by a LINCed Nucleus. *Stem Cells*, **2015**, 33, 2063-76	5.8	96
101	N-glycosylation controls the function of junctional adhesion molecule-A. *Molecular Biology of the Cell*, **2015**, 26, 3205-14	3.5	20
100	Isolated nuclei adapt to force and reveal a mechanotransduction pathway in the nucleus. *Nature Cell Biology*, **2014**, 16, 376-81	23.4	384
99	The RhoA guanine nucleotide exchange factor, LARG, mediates ICAM-1-dependent mechanotransduction in endothelial cells to stimulate transendothelial migration. *Journal of Immunology*, **2014**, 192, 3390-8	5.3	37
98	Vinculin phosphorylation differentially regulates mechanotransduction at cell-cell and cell-matrix adhesions. *Journal of Cell Biology*, **2014**, 205, 251-63	7.3	108
97	Haemodynamic and extracellular matrix cues regulate the mechanical phenotype and stiffness of aortic endothelial cells. *Nature Communications*, **2014**, 5, 3984	17.4	72
96	The on-off relationship of Rho and Rac during integrin-mediated adhesion and cell migration. *Small GTPases*, **2014**, 5, e27958	2.7	187
95	Identification of an actin binding surface on vinculin that mediates mechanical cell and focal adhesion properties. *Structure*, **2014**, 22, 697-706	5.2	38
94	Mechanically activated Fyn utilizes mTORC2 to regulate RhoA and adipogenesis in mesenchymal stem cells. *Stem Cells*, **2013**, 31, 2528-37	5.8	49
93	The tension mounts: stress fibers as force-generating mechanotransducers. *Journal of Cell Biology*, **2013**, 200, 9-19	7.3	209
92	Thy-1-mediated cell-cell contact induces astrocyte migration through the engagement of V3 integrin and syndecan-4. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2013**, 1833, 1409-20	4.9	39
91	The guanine-nucleotide exchange factor SGEF plays a crucial role in the formation of atherosclerosis. *PLoS ONE*, **2013**, 8, e55202	3.7	23
90	Stress fibers get a makeover. *Biophysical Journal*, **2012**, 103, 2045-6	2.9	0
89	From mechanical force to RhoA activation. *Biochemistry*, **2012**, 51, 7420-32	3.2	136
88	Localized tensional forces on PECAM-1 elicit a global mechanotransduction response via the integrin-RhoA pathway. *Current Biology*, **2012**, 22, 2087-94	6.3	119
87	CB2 receptor-mediated Regulation of Prostate Cancer Cell Migration: Involvement of RhoA and Stress fiber formation. *FASEB Journal*, **2012**, 26, 782.11	0.9	1
86	The small GTPase RhoA localizes to the nucleus and is activated by Net1 and DNA damage signals. *PLoS ONE*, **2011**, 6, e17380	3.7	72
85	Latent KSHV infection increases the vascular permeability of human endothelial cells. *Blood*, **2011**, 118, 5344-54	2.2	35

84	The Rho GEFs LARG and GEF-H1 regulate the mechanical response to force on integrins. *Nature Cell Biology*, **2011**, 13, 722-7	23.4	270
83	The 'invisible hand' regulation of RHO GTPases by RHOGDIs. *Nature Reviews Molecular Cell Biology*, **2011**, 12, 493-504	48.7	380
82	Rho protein crosstalk: another social network?. *Trends in Cell Biology*, **2011**, 21, 718-26	18.3	241
81	Mechanically induced focal adhesion assembly amplifies anti-adipogenic pathways in mesenchymal stem cells. *Stem Cells*, **2011**, 29, 1829-36	5.8	63
80	Regulation of Rho GTPase crosstalk, degradation and activity by RhoGDI1. *Nature Cell Biology*, **2010**, 12, 477-83	23.4	254
79	Endogenous RhoG is rapidly activated after epidermal growth factor stimulation through multiple guanine-nucleotide exchange factors. *Molecular Biology of the Cell*, **2010**, 21, 1629-42	3.5	34
78	The role of vascular endothelial growth factor-induced activation of NADPH oxidase in choroidal endothelial cells and choroidal neovascularization. *American Journal of Pathology*, **2010**, 177, 2091-102	5.8	41
77	Direct activation of RhoA by reactive oxygen species requires a redox-sensitive motif. *PLoS ONE*, **2009**, 4, e8045	3.7	146
76	The regulation of vascular endothelial growth factor-induced microvascular permeability requires Rac and reactive oxygen species. *Journal of Biological Chemistry*, **2009**, 284, 25602-11	5.4	159
75	MLK3 limits activated Galphaq signaling to Rho by binding to p63RhoGEF. *Molecular Cell*, **2008**, 32, 43-56	17.6	35
74	Analysis of low molecular weight GTPase activity in endothelial cell cultures. *Methods in Enzymology*, **2008**, 443, 285-98	1.7	14
73	RhoG regulates endothelial apical cup assembly downstream from ICAM1 engagement and is involved in leukocyte trans-endothelial migration. *Journal of Cell Biology*, **2007**, 178, 1279-93	7.3	173
72	VEGF-induced Rac1 activation in endothelial cells is regulated by the guanine nucleotide exchange factor Vav2. *Experimental Cell Research*, **2007**, 313, 3285-97	4.2	136
71	Catching a GEF by its tail. *Trends in Cell Biology*, **2007**, 17, 36-43	18.3	137
70	ICAM-1-mediated, Src- and Pyk2-dependent vascular endothelial cadherin tyrosine phosphorylation is required for leukocyte transendothelial migration. *Journal of Immunology*, **2007**, 179, 4053-64	5.3	246
69	A novel role for Lsc/p115 RhoGEF and LARG in regulating RhoA activity downstream of adhesion to fibronectin. *Journal of Cell Science*, **2007**, 120, 3989-98	5.3	99
68	The nuclear RhoA exchange factor Net1 interacts with proteins of the Dlg family, affects their localization, and influences their tumor suppressor activity. *Molecular and Cellular Biology*, **2007**, 27, 8683-97	4.8	40
67	Heterotypic RPE-choroidal endothelial cell contact increases choroidal endothelial cell transmigration via PI 3-kinase and Rac1. *Experimental Eye Research*, **2007**, 84, 737-44	3.7	34

66	Regulation of cell adhesion by protein-tyrosine phosphatases: II. Cell-cell adhesion. *Journal of Biological Chemistry*, **2006**, 281, 16189-92	5.4	69
65	PTP-PEST couples membrane protrusion and tail retraction via VAV2 and p190RhoGAP. *Journal of Biological Chemistry*, **2006**, 281, 11627-36	5.4	53
64	Regulation of cell adhesion by protein-tyrosine phosphatases. I. Cell-matrix adhesion. *Journal of Biological Chemistry*, **2006**, 281, 15593-6	5.4	48
63	Rho kinase differentially regulates phosphorylation of nonmuscle myosin II isoforms A and B during cell rounding and migration. *Journal of Biological Chemistry*, **2006**, 281, 35873-83	5.4	141
62	Analysis of activated GAPs and GEFs in cell lysates. *Methods in Enzymology*, **2006**, 406, 425-37	1.7	155
61	Trading spaces: Rap, Rac, and Rho as architects of transendothelial migration. *Current Opinion in Hematology*, **2005**, 12, 14-21	3.3	62
60	Proline-rich tyrosine kinase 2 (Pyk2) mediates vascular endothelial-cadherin-based cell-cell adhesion by regulating beta-catenin tyrosine phosphorylation. *Journal of Biological Chemistry*, **2005**, 280, 21129-36	5.4	95
59	Rap1 GTPase inhibits leukocyte transmigration by promoting endothelial barrier function. *Journal of Biological Chemistry*, **2005**, 280, 11675-82	5.4	135
58	Aggregation of integrins and RhoA activation are required for Thy-1-induced morphological changes in astrocytes. *Journal of Biological Chemistry*, **2004**, 279, 39139-45	5.4	56
57	Simultaneous stretching and contraction of stress fibers in vivo. *Molecular Biology of the Cell*, **2004**, 15, 3497-508	3.5	153
56	SGEF, a RhoG guanine nucleotide exchange factor that stimulates macropinocytosis. *Molecular Biology of the Cell*, **2004**, 15, 3309-19	3.5	89
55	Rho and Rac take center stage. *Cell*, **2004**, 116, 167-79	56.2	1511
54	RhoA and ROCK promote migration by limiting membrane protrusions. *Journal of Biological Chemistry*, **2003**, 278, 13578-84	5.4	234
53	Cadherin engagement inhibits RhoA via p190RhoGAP. *Journal of Biological Chemistry*, **2003**, 278, 13615-8	5.4	138
52	Cell migration: integrating signals from front to back. *Science*, **2003**, 302, 1704-9	33.3	3790
51	Integrin signaling to the actin cytoskeleton. *Current Opinion in Cell Biology*, **2003**, 15, 572-82	9	427
50	Rnd proteins function as RhoA antagonists by activating p190 RhoGAP. *Current Biology*, **2003**, 13, 1106-15	6.3	198
49	RhoA is required for cortical retraction and rigidity during mitotic cell rounding. *Journal of Cell Biology*, **2003**, 160, 255-65	7.3	233

48	Coupling membrane protrusion and cell adhesion. *Journal of Cell Science*, **2003**, 116, 2389-97	5.3	368
47	Serine phosphorylation negatively regulates RhoA in vivo. *Journal of Biological Chemistry*, **2003**, 278, 19023-31	5.4	245
46	RhoG signals in parallel with Rac1 and Cdc42. *Journal of Biological Chemistry*, **2002**, 277, 47810-7	5.4	89
45	Recruitment of the Arp2/3 complex to vinculin: coupling membrane protrusion to matrix adhesion. *Journal of Cell Biology*, **2002**, 159, 881-91	7.3	334
44	PTP-PEST controls motility through regulation of Rac1. *Journal of Cell Science*, **2002**, 115, 4305-16	5.3	84
43	XPLN, a guanine nucleotide exchange factor for RhoA and RhoB, but not RhoC. *Journal of Biological Chemistry*, **2002**, 277, 42964-72	5.4	99
42	Regulation of Rho family GTPases by cell-cell and cell-matrix adhesion. *Biological Research*, **2002**, 35, 239-46	7.6	115
41	Leukocyte transendothelial migration: orchestrating the underlying molecular machinery. *Current Opinion in Cell Biology*, **2001**, 13, 569-77	9	241
40	RhoA is required for monocyte tail retraction during transendothelial migration. *Journal of Cell Biology*, **2001**, 154, 147-60	7.3	411
39	RhoA inactivation by p190RhoGAP regulates cell spreading and migration by promoting membrane protrusion and polarity. *Molecular Biology of the Cell*, **2001**, 12, 2711-20	3.5	369
38	Cadherin engagement regulates Rho family GTPases. *Journal of Biological Chemistry*, **2001**, 276, 33305-8	5.4	337
37	Integrin engagement suppresses RhoA activity via a c-Src-dependent mechanism. *Current Biology*, **2000**, 10, 719-22	6.3	373
36	The protein tyrosine phosphatase Shp-2 regulates RhoA activity. *Current Biology*, **2000**, 10, 1523-6	6.3	124
35	Vav2 activates Rac1, Cdc42, and RhoA downstream from growth factor receptors but not beta1 integrins. *Molecular and Cellular Biology*, **2000**, 20, 7160-9	4.8	174
34	Vav2 is an activator of Cdc42, Rac1, and RhoA. *Journal of Biological Chemistry*, **2000**, 275, 10141-9	5.4	208
33	p120 catenin regulates the actin cytoskeleton via Rho family GTPases. *Journal of Cell Biology*, **2000**, 150, 567-80	7.3	469
32	Focal adhesions: a nexus for intracellular signaling and cytoskeletal dynamics. *Experimental Cell Research*, **2000**, 261, 25-36	4.2	426
31	Microtubule growth activates Rac1 to promote lamellipodial protrusion in fibroblasts. *Nature Cell Biology*, **1999**, 1, 45-50	23.4	417

30	Bidirectional signaling between the cytoskeleton and integrins. *Current Opinion in Cell Biology*, **1999**, 11, 274-86	9	652
29	Microtubule depolymerization induces stress fibers, focal adhesions, and DNA synthesis via the GTP-binding protein Rho. *Cell Adhesion and Communication*, **1998**, 5, 249-55		166
28	Rho-mediated contractility exposes a cryptic site in fibronectin and induces fibronectin matrix assembly. *Journal of Cell Biology*, **1998**, 141, 539-51	7.3	496
27	Microinjection of protein tyrosine phosphatases into fibroblasts disrupts focal adhesions and stress fibers. *Cell Adhesion and Communication*, **1998**, 5, 207-19		16
26	Muscle beta1D integrin reinforces the cytoskeleton-matrix link: modulation of integrin adhesive function by alternative splicing. *Journal of Cell Biology*, **1997**, 139, 1583-95	7.3	120
25	E-cadherin engagement stimulates tyrosine phosphorylation. *Cell Adhesion and Communication*, **1997**, 4, 425-37		30
24	Focal adhesions, contractility, and signaling. *Annual Review of Cell and Developmental Biology*, **1996**, 12, 463-518	12.6	1615
23	Regulation of vinculin binding to talin and actin by phosphatidyl-inositol-4-5-bisphosphate. *Nature*, **1996**, 381, 531-5	50.4	467
22	An examination of focal adhesion formation and tyrosine phosphorylation in fibroblasts isolated from src-, fyn-, and yes- mice. *Cell Adhesion and Communication*, **1995**, 3, 91-100		52
21	Rho, rac and the actin cytoskeleton. *BioEssays*, **1992**, 14, 777-8	4.1	19
20	Alpha-actinin: a direct link between actin and integrins. *Biochemical Society Transactions*, **1991**, 19, 1065-9	3.1	83
19	Transmembrane molecular assemblies in cell-extracellular matrix interactions. *Current Opinion in Cell Biology*, **1991**, 3, 849-53	9	207
18	Actin-membrane interaction in focal adhesions. *Cell Differentiation and Development*, **1990**, 32, 337-42		102
17	Focal contacts: transmembrane links between the extracellular matrix and the cytoskeleton. *BioEssays*, **1989**, 10, 104-8	4.1	166
16	Focal adhesions: transmembrane junctions between the extracellular matrix and the cytoskeleton. *Annual Review of Cell Biology*, **1988**, 4, 487-525		1850
15	Colocalization of calcium-dependent protease II and one of its substrates at sites of cell adhesion. *Cell*, **1987**, 51, 569-77	56.2	256
14	The 180-kD component of the neural cell adhesion molecule N-CAM is involved in cell-cell contacts and cytoskeleton-membrane interactions. *Cell and Tissue Research*, **1987**, 250, 227-36	4.2	282
13	Demonstration of a relationship between talin and P235, a major substrate of the calcium-dependent protease in platelets. *Journal of Cellular Biochemistry*, **1986**, 30, 259-70	4.7	60

12	Interaction of plasma membrane fibronectin receptor with talin--a transmembrane linkage. *Nature*, **1986**, 320, 531-3	50.4	1072
11	Identification of talin as a major cytoplasmic protein implicated in platelet activation. *Nature*, **1985**, 317, 449-51	50.4	107
10	Molecular shape and self-association of vinculin and metavinculin. *Journal of Cellular Biochemistry*, **1985**, 29, 31-6	4.7	75
9	An interaction between vinculin and talin. *Nature*, **1984**, 308, 744-6	50.4	387
8	Talin: a cytoskeletal component concentrated in adhesion plaques and other sites of actin-membrane interaction. *Cell Motility*, **1983**, 3, 405-17		153
7	Binding of HeLa spectrin to a specific HeLa membrane fraction. *Cell Motility*, **1983**, 3, 657-69		16
6	Non-muscle alpha actinins are calcium-sensitive actin-binding proteins. *Nature*, **1981**, 294, 565-7	50.4	229
5	Characterization of the intermediate (10 nm) filaments of cultured cells using an autoimmune rabbit antiserum. *Cell*, **1978**, 13, 249-61	56.2	135
4	Direct identification of specific glycoproteins and antigens in sodium dodecyl sulfate gels. *Methods in Enzymology*, **1978**, 50, 54-64	1.7	167
3	Alpha-actinin: immunofluorescent localization of a muscle structural protein in nonmuscle cells. *Cell* , **1975**, 6, 289-98	56.2	554
2	Purification and structural analysis of myosins from brain and other non-muscle tissues. *Journal of Molecular Biology*, **1975**, 99, 1-14	6.5	199
1	Focal Adhesions285-302		