

Keith Burridge

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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	Cell migration: integrating signals from front to back. <i>Science</i> , 2003 , 302, 1704-9	33.3	3790
118	Focal adhesions: transmembrane junctions between the extracellular matrix and the cytoskeleton. <i>Annual Review of Cell Biology</i> , 1988 , 4, 487-525		1850
117	Focal adhesions, contractility, and signaling. <i>Annual Review of Cell and Developmental Biology</i> , 1996 , 12, 463-518	12.6	1615
116	Rho and Rac take center stage. <i>Cell</i> , 2004 , 116, 167-79	56.2	1511
115	Interaction of plasma membrane fibronectin receptor with talin--a transmembrane linkage. <i>Nature</i> , 1986 , 320, 531-3	50.4	1072
114	Bidirectional signaling between the cytoskeleton and integrins. <i>Current Opinion in Cell Biology</i> , 1999 , 11, 274-86	9	652
113	Alpha-actinin: immunofluorescent localization of a muscle structural protein in nonmuscle cells. <i>Cell</i> , 1975 , 6, 289-98	56.2	554
112	Rho-mediated contractility exposes a cryptic site in fibronectin and induces fibronectin matrix assembly. <i>Journal of Cell Biology</i> , 1998 , 141, 539-51	7.3	496
111	p120 catenin regulates the actin cytoskeleton via Rho family GTPases. <i>Journal of Cell Biology</i> , 2000 , 150, 567-80	7.3	469
110	Regulation of vinculin binding to talin and actin by phosphatidyl-inositol-4-5-bisphosphate. <i>Nature</i> , 1996 , 381, 531-5	50.4	467
109	Integrin signaling to the actin cytoskeleton. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 572-82	9	427
108	Focal adhesions: a nexus for intracellular signaling and cytoskeletal dynamics. <i>Experimental Cell Research</i> , 2000 , 261, 25-36	4.2	426
107	Microtubule growth activates Rac1 to promote lamellipodial protrusion in fibroblasts. <i>Nature Cell Biology</i> , 1999 , 1, 45-50	23.4	417
106	RhoA is required for monocyte tail retraction during transendothelial migration. <i>Journal of Cell Biology</i> , 2001 , 154, 147-60	7.3	411
105	An interaction between vinculin and talin. <i>Nature</i> , 1984 , 308, 744-6	50.4	387
104	Isolated nuclei adapt to force and reveal a mechanotransduction pathway in the nucleus. <i>Nature Cell Biology</i> , 2014 , 16, 376-81	23.4	384
103	The Invisible hand: regulation of RHO GTPases by RHOGDIs. <i>Nature Reviews Molecular Cell Biology</i> , 2011 , 12, 493-504	48.7	380

102	Integrin engagement suppresses RhoA activity via a c-Src-dependent mechanism. <i>Current Biology</i> , 2000 , 10, 719-22	6.3	373
101	RhoA inactivation by p190RhoGAP regulates cell spreading and migration by promoting membrane protrusion and polarity. <i>Molecular Biology of the Cell</i> , 2001 , 12, 2711-20	3.5	369
100	Coupling membrane protrusion and cell adhesion. <i>Journal of Cell Science</i> , 2003 , 116, 2389-97	5.3	368
99	Cadherin engagement regulates Rho family GTPases. <i>Journal of Biological Chemistry</i> , 2001 , 276, 33305-8	5.4	337
98	Recruitment of the Arp2/3 complex to vinculin: coupling membrane protrusion to matrix adhesion. <i>Journal of Cell Biology</i> , 2002 , 159, 881-91	7.3	334
97	The 180-kD component of the neural cell adhesion molecule N-CAM is involved in cell-cell contacts and cytoskeleton-membrane interactions. <i>Cell and Tissue Research</i> , 1987 , 250, 227-36	4.2	282
96	The Rho GEFs LARG and GEF-H1 regulate the mechanical response to force on integrins. <i>Nature Cell Biology</i> , 2011 , 13, 722-7	23.4	270
95	Colocalization of calcium-dependent protease II and one of its substrates at sites of cell adhesion. <i>Cell</i> , 1987 , 51, 569-77	56.2	256
94	Regulation of Rho GTPase crosstalk, degradation and activity by RhoGDI1. <i>Nature Cell Biology</i> , 2010 , 12, 477-83	23.4	254
93	ICAM-1-mediated, Src- and Pyk2-dependent vascular endothelial cadherin tyrosine phosphorylation is required for leukocyte transendothelial migration. <i>Journal of Immunology</i> , 2007 , 179, 4053-64	5.3	246
92	Serine phosphorylation negatively regulates RhoA in vivo. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19023-31	5.4	245
91	Rho protein crosstalk: another social network?. <i>Trends in Cell Biology</i> , 2011 , 21, 718-26	18.3	241
90	Leukocyte transendothelial migration: orchestrating the underlying molecular machinery. <i>Current Opinion in Cell Biology</i> , 2001 , 13, 569-77	9	241
89	RhoA and ROCK promote migration by limiting membrane protrusions. <i>Journal of Biological Chemistry</i> , 2003 , 278, 13578-84	5.4	234
88	RhoA is required for cortical retraction and rigidity during mitotic cell rounding. <i>Journal of Cell Biology</i> , 2003 , 160, 255-65	7.3	233
87	Non-muscle alpha actinins are calcium-sensitive actin-binding proteins. <i>Nature</i> , 1981 , 294, 565-7	50.4	229
86	The tension mounts: stress fibers as force-generating mechanotransducers. <i>Journal of Cell Biology</i> , 2013 , 200, 9-19	7.3	209
85	Vav2 is an activator of Cdc42, Rac1, and RhoA. <i>Journal of Biological Chemistry</i> , 2000 , 275, 10141-9	5.4	208

84	Transmembrane molecular assemblies in cell-extracellular matrix interactions. <i>Current Opinion in Cell Biology</i> , 1991 , 3, 849-53	9	207
83	Focal adhesions, stress fibers and mechanical tension. <i>Experimental Cell Research</i> , 2016 , 343, 14-20	4.2	202
82	Purification and structural analysis of myosins from brain and other non-muscle tissues. <i>Journal of Molecular Biology</i> , 1975 , 99, 1-14	6.5	199
81	Rnd proteins function as RhoA antagonists by activating p190 RhoGAP. <i>Current Biology</i> , 2003 , 13, 1106-16	6.3	198
80	The on-off relationship of Rho and Rac during integrin-mediated adhesion and cell migration. <i>Small GTPases</i> , 2014 , 5, e27958	2.7	187
79	Vav2 activates Rac1, Cdc42, and RhoA downstream from growth factor receptors but not beta1 integrins. <i>Molecular and Cellular Biology</i> , 2000 , 20, 7160-9	4.8	174
78	RhoG regulates endothelial apical cup assembly downstream from ICAM1 engagement and is involved in leukocyte trans-endothelial migration. <i>Journal of Cell Biology</i> , 2007 , 178, 1279-93	7.3	173
77	Direct identification of specific glycoproteins and antigens in sodium dodecyl sulfate gels. <i>Methods in Enzymology</i> , 1978 , 50, 54-64	1.7	167
76	Microtubule depolymerization induces stress fibers, focal adhesions, and DNA synthesis via the GTP-binding protein Rho. <i>Cell Adhesion and Communication</i> , 1998 , 5, 249-55		166
75	Focal contacts: transmembrane links between the extracellular matrix and the cytoskeleton. <i>BioEssays</i> , 1989 , 10, 104-8	4.1	166
74	The regulation of vascular endothelial growth factor-induced microvascular permeability requires Rac and reactive oxygen species. <i>Journal of Biological Chemistry</i> , 2009 , 284, 25602-11	5.4	159
73	Analysis of activated GAPs and GEFs in cell lysates. <i>Methods in Enzymology</i> , 2006 , 406, 425-37	1.7	155
72	Simultaneous stretching and contraction of stress fibers in vivo. <i>Molecular Biology of the Cell</i> , 2004 , 15, 3497-508	3.5	153
71	Talin: a cytoskeletal component concentrated in adhesion plaques and other sites of actin-membrane interaction. <i>Cell Motility</i> , 1983 , 3, 405-17		153
70	Direct activation of RhoA by reactive oxygen species requires a redox-sensitive motif. <i>PLoS ONE</i> , 2009 , 4, e8045	3.7	146
69	Rho kinase differentially regulates phosphorylation of nonmuscle myosin II isoforms A and B during cell rounding and migration. <i>Journal of Biological Chemistry</i> , 2006 , 281, 35873-83	5.4	141
68	Cadherin engagement inhibits RhoA via p190RhoGAP. <i>Journal of Biological Chemistry</i> , 2003 , 278, 13615-8	5.4	138
67	Catching a GEF by its tail. <i>Trends in Cell Biology</i> , 2007 , 17, 36-43	18.3	137

66	From mechanical force to RhoA activation. <i>Biochemistry</i> , 2012 , 51, 7420-32	3.2	136
65	VEGF-induced Rac1 activation in endothelial cells is regulated by the guanine nucleotide exchange factor Vav2. <i>Experimental Cell Research</i> , 2007 , 313, 3285-97	4.2	136
64	Rap1 GTPase inhibits leukocyte transmigration by promoting endothelial barrier function. <i>Journal of Biological Chemistry</i> , 2005 , 280, 11675-82	5.4	135
63	Characterization of the intermediate (10 nm) filaments of cultured cells using an autoimmune rabbit antiserum. <i>Cell</i> , 1978 , 13, 249-61	56.2	135
62	The protein tyrosine phosphatase Shp-2 regulates RhoA activity. <i>Current Biology</i> , 2000 , 10, 1523-6	6.3	124
61	Muscle beta1D integrin reinforces the cytoskeleton-matrix link: modulation of integrin adhesive function by alternative splicing. <i>Journal of Cell Biology</i> , 1997 , 139, 1583-95	7.3	120
60	Localized tensional forces on PECAM-1 elicit a global mechanotransduction response via the integrin-RhoA pathway. <i>Current Biology</i> , 2012 , 22, 2087-94	6.3	119
59	Regulation of Rho family GTPases by cell-cell and cell-matrix adhesion. <i>Biological Research</i> , 2002 , 35, 239-46	7.6	115
58	Focal adhesions: a personal perspective on a half century of progress. <i>FEBS Journal</i> , 2017 , 284, 3355-3364	7.7	111
57	Vinculin phosphorylation differentially regulates mechanotransduction at cell-cell and cell-matrix adhesions. <i>Journal of Cell Biology</i> , 2014 , 205, 251-63	7.3	108
56	Identification of talin as a major cytoplasmic protein implicated in platelet activation. <i>Nature</i> , 1985 , 317, 449-51	50.4	107
55	Actin-membrane interaction in focal adhesions. <i>Cell Differentiation and Development</i> , 1990 , 32, 337-42		102
54	A novel role for Lsc/p115 RhoGEF and LARG in regulating RhoA activity downstream of adhesion to fibronectin. <i>Journal of Cell Science</i> , 2007 , 120, 3989-98	5.3	99
53	XPLN, a guanine nucleotide exchange factor for RhoA and RhoB, but not RhoC. <i>Journal of Biological Chemistry</i> , 2002 , 277, 42964-72	5.4	99
52	Cell Mechanosensitivity to Extremely Low-Magnitude Signals Is Enabled by a LINCed Nucleus. <i>Stem Cells</i> , 2015 , 33, 2063-76	5.8	96
51	Proline-rich tyrosine kinase 2 (Pyk2) mediates vascular endothelial-cadherin-based cell-cell adhesion by regulating beta-catenin tyrosine phosphorylation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 21129-36	5.4	95
50	SGEF, a RhoG guanine nucleotide exchange factor that stimulates macropinocytosis. <i>Molecular Biology of the Cell</i> , 2004 , 15, 3309-19	3.5	89
49	RhoG signals in parallel with Rac1 and Cdc42. <i>Journal of Biological Chemistry</i> , 2002 , 277, 47810-7	5.4	89

48	PTP-PEST controls motility through regulation of Rac1. <i>Journal of Cell Science</i> , 2002 , 115, 4305-16	5.3	84
47	Alpha-actinin: a direct link between actin and integrins. <i>Biochemical Society Transactions</i> , 1991 , 19, 1065-9.1	9.1	83
46	Molecular shape and self-association of vinculin and metavinculin. <i>Journal of Cellular Biochemistry</i> , 1985 , 29, 31-6	4.7	75
45	Haemodynamic and extracellular matrix cues regulate the mechanical phenotype and stiffness of aortic endothelial cells. <i>Nature Communications</i> , 2014 , 5, 3984	17.4	72
44	The small GTPase RhoA localizes to the nucleus and is activated by Net1 and DNA damage signals. <i>PLoS ONE</i> , 2011 , 6, e17380	3.7	72
43	Regulation of cell adhesion by protein-tyrosine phosphatases: II. Cell-cell adhesion. <i>Journal of Biological Chemistry</i> , 2006 , 281, 16189-92	5.4	69
42	Enucleated cells reveal differential roles of the nucleus in cell migration, polarity, and mechanotransduction. <i>Journal of Cell Biology</i> , 2018 , 217, 895-914	7.3	68
41	Mechanotransduction and nuclear function. <i>Current Opinion in Cell Biology</i> , 2016 , 40, 98-105	9	66
40	Mechanically induced focal adhesion assembly amplifies anti-adipogenic pathways in mesenchymal stem cells. <i>Stem Cells</i> , 2011 , 29, 1829-36	5.8	63
39	Trading spaces: Rap, Rac, and Rho as architects of transendothelial migration. <i>Current Opinion in Hematology</i> , 2005 , 12, 14-21	3.3	62
38	Demonstration of a relationship between talin and P235, a major substrate of the calcium-dependent protease in platelets. <i>Journal of Cellular Biochemistry</i> , 1986 , 30, 259-70	4.7	60
37	Aggregation of integrins and RhoA activation are required for Thy-1-induced morphological changes in astrocytes. <i>Journal of Biological Chemistry</i> , 2004 , 279, 39139-45	5.4	56
36	PTP-PEST couples membrane protrusion and tail retraction via VAV2 and p190RhoGAP. <i>Journal of Biological Chemistry</i> , 2006 , 281, 11627-36	5.4	53
35	An examination of focal adhesion formation and tyrosine phosphorylation in fibroblasts isolated from src-, fyn-, and yes- mice. <i>Cell Adhesion and Communication</i> , 1995 , 3, 91-100		52
34	Tumor Endothelial Cells with Distinct Patterns of TGF β -Driven Endothelial-to-Mesenchymal Transition. <i>Cancer Research</i> , 2015 , 75, 1244-54	10.1	51
33	Mechanically activated Fyn utilizes mTORC2 to regulate RhoA and adipogenesis in mesenchymal stem cells. <i>Stem Cells</i> , 2013 , 31, 2528-37	5.8	49
32	Regulation of cell adhesion by protein-tyrosine phosphatases. I. Cell-matrix adhesion. <i>Journal of Biological Chemistry</i> , 2006 , 281, 15593-6	5.4	48
31	The role of vascular endothelial growth factor-induced activation of NADPH oxidase in choroidal endothelial cells and choroidal neovascularization. <i>American Journal of Pathology</i> , 2010 , 177, 2091-102	5.8	41

30	The nuclear RhoA exchange factor Net1 interacts with proteins of the Dlg family, affects their localization, and influences their tumor suppressor activity. <i>Molecular and Cellular Biology</i> , 2007 , 27, 8683-97	4.8	40
29	Rho GTPase Transcriptome Analysis Reveals Oncogenic Roles for Rho GTPase-Activating Proteins in Basal-like Breast Cancers. <i>Cancer Research</i> , 2016 , 76, 3826-37	10.1	40
28	Thy-1-mediated cell-cell contact induces astrocyte migration through the engagement of α 5 β 1 integrin and syndecan-4. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 1409-20	4.9	39
27	Identification of an actin binding surface on vinculin that mediates mechanical cell and focal adhesion properties. <i>Structure</i> , 2014 , 22, 697-706	5.2	38
26	The RhoA guanine nucleotide exchange factor, LARG, mediates ICAM-1-dependent mechanotransduction in endothelial cells to stimulate transendothelial migration. <i>Journal of Immunology</i> , 2014 , 192, 3390-8	5.3	37
25	Mechanotransduction: from the cell surface to the nucleus via RhoA. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20180229	5.8	36
24	Latent KSHV infection increases the vascular permeability of human endothelial cells. <i>Blood</i> , 2011 , 118, 5344-54	2.2	35
23	MLK3 limits activated G α q signaling to Rho by binding to p63RhoGEF. <i>Molecular Cell</i> , 2008 , 32, 43-56	7.6	35
22	Endogenous RhoG is rapidly activated after epidermal growth factor stimulation through multiple guanine-nucleotide exchange factors. <i>Molecular Biology of the Cell</i> , 2010 , 21, 1629-42	3.5	34
21	Heterotypic RPE-choroidal endothelial cell contact increases choroidal endothelial cell transmigration via PI 3-kinase and Rac1. <i>Experimental Eye Research</i> , 2007 , 84, 737-44	3.7	34
20	E-cadherin engagement stimulates tyrosine phosphorylation. <i>Cell Adhesion and Communication</i> , 1997 , 4, 425-37		30
19	Tension on JAM-A activates RhoA via GEF-H1 and p115 RhoGEF. <i>Molecular Biology of the Cell</i> , 2016 , 27, 1420-30	3.5	30
18	The guanine-nucleotide exchange factor SGEF plays a crucial role in the formation of atherosclerosis. <i>PLoS ONE</i> , 2013 , 8, e55202	3.7	23
17	N-glycosylation controls the function of junctional adhesion molecule-A. <i>Molecular Biology of the Cell</i> , 2015 , 26, 3205-14	3.5	20
16	Rho, rac and the actin cytoskeleton. <i>BioEssays</i> , 1992 , 14, 777-8	4.1	19
15	LARG GEF and ARHGAP18 orchestrate RhoA activity to control mesenchymal stem cell lineage. <i>Bone</i> , 2018 , 107, 172-180	4.7	19
14	Microinjection of protein tyrosine phosphatases into fibroblasts disrupts focal adhesions and stress fibers. <i>Cell Adhesion and Communication</i> , 1998 , 5, 207-19		16
13	Binding of HeLa spectrin to a specific HeLa membrane fraction. <i>Cell Motility</i> , 1983 , 3, 657-69		16

12	Software for lattice light-sheet imaging of FRET biosensors, illustrated with a new Rap1 biosensor. <i>Journal of Cell Biology</i> , 2019 , 218, 3153-3160	7.3	15
11	A Rnd3/p190RhoGAP pathway regulates RhoA activity in idiopathic pulmonary fibrosis fibroblasts. <i>Molecular Biology of the Cell</i> , 2018 , 29, 2165-2175	3.5	15
10	Small GTPase Rap1A/B Is Required for Lymphatic Development and Adrenomedullin-Induced Stabilization of Lymphatic Endothelial Junctions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 2410-2422	9.4	15
9	Analysis of low molecular weight GTPase activity in endothelial cell cultures. <i>Methods in Enzymology</i> , 2008 , 443, 285-98	1.7	14
8	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. <i>BioEssays</i> , 2019 , 41, e1800165	4.1	11
7	The role of endothelial MERTK during the inflammatory response in lungs. <i>PLoS ONE</i> , 2019 , 14, e0225051	3.7	7
6	Vinculin and metavinculin exhibit distinct effects on focal adhesion properties, cell migration, and mechanotransduction. <i>PLoS ONE</i> , 2019 , 14, e0221962	3.7	6
5	Syndecan-4/PAR-3 signaling regulates focal adhesion dynamics in mesenchymal cells. <i>Cell Communication and Signaling</i> , 2020 , 18, 129	7.5	4
4	Talin: a protein designed for mechanotransduction. <i>Emerging Topics in Life Sciences</i> , 2018 , 2, 673-675	3.5	3
3	CB2 receptor-mediated Regulation of Prostate Cancer Cell Migration: Involvement of RhoA and Stress fiber formation. <i>FASEB Journal</i> , 2012 , 26, 782.11	0.9	1
2	Stress fibers get a makeover. <i>Biophysical Journal</i> , 2012 , 103, 2045-6	2.9	0
1	Focal Adhesions 285-302		