

Peter L Hordijk

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

5,119
citations

37
h-index

70
g-index

111
ext. papers

5,691
ext. citations

6.2
avg, IF

5.86
L-index

#	Paper	IF	Citations
99	Breaching multiple barriers: leukocyte motility through venular walls and the interstitium. <i>Nature Reviews Molecular Cell Biology</i> , 2010 , 11, 366-78	48.7	423
98	Regulation of NADPH oxidases: the role of Rac proteins. <i>Circulation Research</i> , 2006 , 98, 453-62	15.7	421
97	Targeting and activation of Rac1 are mediated by the exchange factor beta-Pix. <i>Journal of Cell Biology</i> , 2006 , 172, 759-69	7.3	214
96	Activation of Rhoa and ROCK are essential for detachment of migrating leukocytes. <i>Molecular Biology of the Cell</i> , 2001 , 12, 2137-45	3.5	211
95	Reactive oxygen species mediate Rac-induced loss of cell-cell adhesion in primary human endothelial cells. <i>Journal of Cell Science</i> , 2002 , 115, 1837-1846	5.3	211
94	Reactive oxygen species mediate Rac-induced loss of cell-cell adhesion in primary human endothelial cells. <i>Journal of Cell Science</i> , 2002 , 115, 1837-46	5.3	189
93	VCAM-1-mediated Rac signaling controls endothelial cell-cell contacts and leukocyte transmigration. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 285, C343-52	5.4	167
92	Calcium signaling regulates translocation and activation of Rac. <i>Journal of Biological Chemistry</i> , 2003 , 278, 39413-21	5.4	164
91	RhoB regulates endosome transport by promoting actin assembly on endosomal membranes through Dia1. <i>Journal of Cell Science</i> , 2005 , 118, 2661-70	5.3	124
90	Signaling in leukocyte transendothelial migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 824-33	9.4	122
89	Between Rho(k) and a hard place: the relation between vessel wall stiffness, endothelial contractility, and cardiovascular disease. <i>Circulation Research</i> , 2015 , 116, 895-908	15.7	120
88	Rac1-induced cell migration requires membrane recruitment of the nuclear oncogene SET. <i>EMBO Journal</i> , 2007 , 26, 336-45	13	107
87	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
86	The C-terminal domain of Rac1 contains two motifs that control targeting and signaling specificity. <i>Journal of Biological Chemistry</i> , 2003 , 278, 39166-75	5.4	85
85	Migration of human hematopoietic progenitor cells across bone marrow endothelium is regulated by vascular endothelial cadherin. <i>Journal of Immunology</i> , 2002 , 168, 588-96	5.3	84
84	Endothelial signalling events during leukocyte transmigration. <i>FEBS Journal</i> , 2006 , 273, 4408-15	5.7	80
83	Focal-adhesion targeting links caveolin-1 to a Rac1-degradation pathway. <i>Journal of Cell Science</i> , 2010 , 123, 1948-58	5.3	79

82	Cell-stiffness-induced mechanosignaling - a key driver of leukocyte transendothelial migration. <i>Journal of Cell Science</i> , 2015 , 128, 2221-30	5.3	74
81	Leukocyte-endothelium interaction promotes SDF-1-dependent polarization of CXCR4. <i>Journal of Biological Chemistry</i> , 2003 , 278, 30302-10	5.4	74
80	Rac1 mediates collapse of microvilli on chemokine-activated T lymphocytes. <i>Journal of Immunology</i> , 2004 , 173, 4985-93	5.3	74
79	The tyrosine phosphatase SHP2 regulates recovery of endothelial adherens junctions through control of E-catenin phosphorylation. <i>Molecular Biology of the Cell</i> , 2012 , 23, 4212-25	3.5	70
78	The role of ubiquitylation and degradation in RhoGTPase signalling. <i>Journal of Cell Science</i> , 2010 , 123, 4011-8	5.3	68
77	Endothelial signaling by Ig-like cell adhesion molecules. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1870-6	9.4	68
76	The F-BAR domain protein PACSIN2 associates with Rac1 and regulates cell spreading and migration. <i>Journal of Cell Science</i> , 2011 , 124, 2375-88	5.3	67
75	Filamin B mediates ICAM-1-driven leukocyte transendothelial migration. <i>Journal of Biological Chemistry</i> , 2008 , 283, 31830-9	5.4	67
74	ICAM-1-expressing neutrophils exhibit enhanced effector functions in murine models of endotoxemia. <i>Blood</i> , 2016 , 127, 898-907	2.2	66
73	The Rho-guanine nucleotide exchange factor Trio controls leukocyte transendothelial migration by promoting docking structure formation. <i>Molecular Biology of the Cell</i> , 2012 , 23, 2831-44	3.5	65
72	Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration. <i>Journal of Cell Science</i> , 2014 , 127, 4470-82	5.3	62
71	PKA and Epac1 regulate endothelial integrity and migration through parallel and independent pathways. <i>European Journal of Cell Biology</i> , 2008 , 87, 779-92	6.1	61
70	Toward understanding RhoGTPase specificity: structure, function and local activation. <i>Small GTPases</i> , 2014 , 5, 6	2.7	53
69	Inside-out regulation of ICAM-1 dynamics in TNF-alpha-activated endothelium. <i>PLoS ONE</i> , 2010 , 5, e113367	3.7	48
68	Targeting and localized signalling by small GTPases. <i>Biology of the Cell</i> , 2007 , 99, 1-12	3.5	46
67	Interaction between Tiam1 and the Arp2/3 complex links activation of Rac to actin polymerization. <i>Biochemical Journal</i> , 2006 , 397, 39-45	3.8	46
66	The regulation of leucocyte transendothelial migration by endothelial signalling events. <i>Cardiovascular Research</i> , 2010 , 86, 202-10	9.9	43
65	A New Generation of FRET Sensors for Robust Measurement of G α _{i1} , G α _{i2} and G α _b Activation Kinetics in Single Cells. <i>PLoS ONE</i> , 2016 , 11, e0146789	3.7	42

64	Endothelial CD81 is a marker of early human atherosclerotic plaques and facilitates monocyte adhesion. <i>Cardiovascular Research</i> , 2009 , 81, 187-96	9.9	40
63	F-actin-anchored focal adhesions distinguish endothelial phenotypes of human arteries and veins. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2059-67	9.4	38
62	Ubiquitin links to cytoskeletal dynamics, cell adhesion and migration. <i>Biochemical Journal</i> , 2012 , 442, 13-25	3.8	37
61	Rac1 recruits the adapter protein CMS/CD2AP to cell-cell contacts. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20137-46	5.4	37
60	Spatiotemporal analysis of RhoA/B/C activation in primary human endothelial cells. <i>Scientific Reports</i> , 2016 , 6, 25502	4.9	37
59	The N-terminal DH-PH domain of Trio induces cell spreading and migration by regulating lamellipodia dynamics in a Rac1-dependent fashion. <i>PLoS ONE</i> , 2012 , 7, e29912	3.7	35
58	The chemorepellent Slit3 promotes monocyte migration. <i>Journal of Immunology</i> , 2010 , 185, 7691-8	5.3	35
57	ICAM-1 clustering on endothelial cells recruits VCAM-1. <i>Journal of Biomedicine and Biotechnology</i> , 2010 , 2010, 120328		35
56	The Rac1 hypervariable region in targeting and signaling: a tail of many stories. <i>Small GTPases</i> , 2013 , 4, 78-89	2.7	34
55	The balance between G β Cdc42/Rac and G β -RhoA pathways determines endothelial barrier regulation by sphingosine-1-phosphate. <i>Molecular Biology of the Cell</i> , 2017 , 28, 3371-3382	3.5	33
54	A model for phospho-caveolin-1-driven turnover of focal adhesions. <i>Cell Adhesion and Migration</i> , 2011 , 5, 59-64	3.2	32
53	Endothelial adapter proteins in leukocyte transmigration. <i>Thrombosis and Haemostasis</i> , 2009 , 101, 649-655		32
52	The F-BAR protein pacsin2 inhibits asymmetric VE-cadherin internalization from tensile adherens junctions. <i>Nature Communications</i> , 2016 , 7, 12210	17.4	31
51	The Cullin-3-Rbx1-KCTD10 complex controls endothelial barrier function via K63 ubiquitination of RhoB. <i>Journal of Cell Biology</i> , 2018 , 217, 1015-1032	7.3	29
50	Stasis Promotes Erythrocyte Adhesion to von Willebrand Factor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017 , 37, 1618-1627	9.4	27
49	The F-BAR protein PACSIN2 regulates epidermal growth factor receptor internalization. <i>Journal of Biological Chemistry</i> , 2012 , 287, 43438-53	5.4	26
48	RhoA, RhoB and RhoC differentially regulate endothelial barrier function. <i>Small GTPases</i> , 2019 , 10, 466-484	4.4	26
47	Cytoplasmic targeting of the proto-oncogene SET promotes cell spreading and migration. <i>FEBS Letters</i> , 2013 , 587, 111-9	3.8	25

46	The human minor histocompatibility antigen 1 is a RhoGAP. <i>PLoS ONE</i> , 2013 , 8, e73962	3.7	25
45	BIGH3 modulates adhesion and migration of hematopoietic stem and progenitor cells. <i>Cell Adhesion and Migration</i> , 2013 , 7, 434-49	3.2	24
44	A Rac1 inhibitory peptide suppresses antibody production and paw swelling in the murine collagen-induced arthritis model of rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2010 , 12, R2	5.7	23
43	Dissecting the Effects of Ischemia and Reperfusion on the Coronary Microcirculation in a Rat Model of Acute Myocardial Infarction. <i>PLoS ONE</i> , 2016 , 11, e0157233	3.7	23
42	Control of human hematopoietic stem/progenitor cell migration by the extracellular matrix protein Slit3. <i>Laboratory Investigation</i> , 2012 , 92, 1129-39	5.9	22
41	Early-onset preeclampsia predisposes to preclinical diastolic left ventricular dysfunction in the fifth decade of life: An observational study. <i>PLoS ONE</i> , 2018 , 13, e0198908	3.7	22
40	Traction force dynamics predict gap formation in activated endothelium. <i>Experimental Cell Research</i> , 2016 , 347, 161-170	4.2	19
39	Regulation of CXCR4 conformation by the small GTPase Rac1: implications for HIV infection. <i>Blood</i> , 2012 , 119, 2024-32	2.2	18
38	Rho GTPase expression in human myeloid cells. <i>PLoS ONE</i> , 2012 , 7, e42563	3.7	18
37	Most exposed: the endothelium in chronic kidney disease. <i>Nephrology Dialysis Transplantation</i> , 2020 , 35, 1478-1487	4.3	18
36	Endothelial adapter proteins in leukocyte transmigration. <i>Thrombosis and Haemostasis</i> , 2009 , 101, 649-55		18
35	Inflammation-Sensitive Myosin-X Functionally Supports Leukocyte Extravasation by Cdc42-Mediated ICAM-1-Rich Endothelial Filopodia Formation. <i>Journal of Immunology</i> , 2018 , 200, 1790-1801	5.3	17
34	Recent insights into endothelial control of leukocyte extravasation. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 1591-608	10.3	17
33	Rac1 acts in conjunction with Nedd4 and dishevelled-1 to promote maturation of cell-cell contacts. <i>Journal of Cell Science</i> , 2012 , 125, 3430-42	5.3	17
32	Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration. <i>Journal of Cell Science</i> , 2014 , 127, 4985-4985	5.3	16
31	Control of Rho GTPase function by BAR-domains. <i>Small GTPases</i> , 2012 , 3, 45-52	2.7	16
30	Podosome regulation by Rho GTPases in myeloid cells. <i>European Journal of Cell Biology</i> , 2011 , 90, 189-976.1		16
29	Microtubule dynamics and Rac-1 signaling independently regulate barrier function in lung epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L1321-31	5.8	16

28	Plasminogen Activator Inhibitor-1 Controls Vascular Integrity by Regulating VE-Cadherin Trafficking. <i>PLoS ONE</i> , 2015 , 10, e0145684	3.7	16
27	Deubiquitylase Inhibition Reveals Liver X Receptor-independent Transcriptional Regulation of the E3 Ubiquitin Ligase IDOL and Lipoprotein Uptake. <i>Journal of Biological Chemistry</i> , 2016 , 291, 4813-25	5.4	14
26	Endothelial CD2AP Binds the Receptor ICAM-1 To Control Mechanosignaling, Leukocyte Adhesion, and the Route of Leukocyte Diapedesis In Vitro. <i>Journal of Immunology</i> , 2017 , 198, 4823-4836	5.3	13
25	Stabilization of cell-cell junctions by active vitamin D ameliorates uraemia-induced loss of human endothelial barrier function. <i>Nephrology Dialysis Transplantation</i> , 2019 , 34, 252-264	4.3	13
24	Extravasation of Microspheres in a Rat Model of Silent Brain Infarcts. <i>Stroke</i> , 2019 , 50, 1590-1594	6.7	12
23	CSN5 inhibition triggers inflammatory signaling and Rho/ROCK-dependent loss of endothelial integrity. <i>Scientific Reports</i> , 2019 , 9, 8131	4.9	10
22	Bosutinib prevents vascular leakage by reducing focal adhesion turnover and reinforcing junctional integrity. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	10
21	A CDC42-centered signaling unit is a dominant positive regulator of endothelial integrity. <i>Scientific Reports</i> , 2017 , 7, 10132	4.9	10
20	A functional siRNA screen identifies RhoGTPase-associated genes involved in thrombin-induced endothelial permeability. <i>PLoS ONE</i> , 2018 , 13, e0201231	3.7	8
19	Analysis of nucleo-cytoplasmic shuttling of the proto-oncogene SET/12PP2A. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2012 , 81, 81-9	4.6	8
18	DLC3 suppresses MT1-MMP-dependent matrix degradation by controlling RhoB and actin remodeling at endosomal membranes. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	7
17	Platelet-independent adhesion of calcium-loaded erythrocytes to von Willebrand factor. <i>PLoS ONE</i> , 2017 , 12, e0173077	3.7	7
16	Nucleophosmin1 is a negative regulator of the small GTPase Rac1. <i>PLoS ONE</i> , 2013 , 8, e68477	3.7	6
15	FBXW7 regulates endothelial barrier function by suppression of the cholesterol synthesis pathway and prenylation of RhoB. <i>Molecular Biology of the Cell</i> , 2019 , 30, 607-621	3.5	6
14	Identification of guanine nucleotide exchange factors that increase Cdc42 activity in primary human endothelial cells. <i>Small GTPases</i> , 2021 , 12, 226-240	2.7	6
13	The minor histocompatibility antigen 1 (HMHA1)/ArhGAP45 is a RacGAP and a novel regulator of endothelial integrity. <i>Vascular Pharmacology</i> , 2018 , 101, 38-47	5.9	6
12	The interplay of Rac1 activity, ubiquitination and GDI binding and its consequences for endothelial cell spreading. <i>PLoS ONE</i> , 2021 , 16, e0254386	3.7	6
11	Ubiquitin-based modifications in endothelial cell-cell contact and inflammation. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	5

10	In vitro endothelial hyperpermeability occurs early following traumatic hemorrhagic shock. <i>Clinical Hemorheology and Microcirculation</i> , 2020 , 75, 121-133	2.5	5
9	Altered intracellular localization and mobility of SBDS protein upon mutation in Shwachman-Diamond syndrome. <i>PLoS ONE</i> , 2011 , 6, e20727	3.7	5
8	Microembolus clearance through angiophagy is an auxiliary mechanism preserving tissue perfusion in the rat brain. <i>Acta Neuropathologica Communications</i> , 2020 , 8, 195	7.3	5
7	The covalently immobilized antimicrobial peptide LL37 acts as a VEGF mimic and stimulates endothelial cell proliferation. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 496, 887-890	3.4	4
6	The MARCH6-SQLE Axis Controls Endothelial Cholesterol Homeostasis and Angiogenic Sprouting. <i>Cell Reports</i> , 2020 , 32, 107944	10.6	4
5	Pharmacological interventions to reduce edema following cardiopulmonary bypass: A systematic review and meta-analysis. <i>Journal of Critical Care</i> , 2020 , 56, 63-72	4	2
4	Patient-Specific 3-Dimensional Model of Smooth Muscle Cell and Extracellular Matrix Dysfunction for the Study of Aortic Aneurysms. <i>Journal of Endovascular Therapy</i> , 2021 , 28, 604-613	2.5	2
3	Localizing cellular housekeeping. <i>Nature Reviews Molecular Cell Biology</i> , 2011 , 12, 771	48.7	1
2	Regulation of Rho GTPases in the Vasculature by Cullin3-Based E3 Ligase Complexes. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 680901	5.7	0
1	Preservation of renal endothelial integrity and reduction of renal edema by aprotinin does not preserve renal perfusion and function following experimental cardiopulmonary bypass. <i>Intensive Care Medicine Experimental</i> , 2021 , 9, 30	3.7	