

Peter L Hordijk

List of Publications by Year in descending order

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101
papers

6,165
citations

66343

42
h-index

74163

75
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111
all docs

111
docs citations

111
times ranked

9134
citing authors

#	ARTICLE	IF	CITATIONS
1	Breaching multiple barriers: leukocyte motility through venular walls and the interstitium. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 366-378.	37.0	487
2	Regulation of NADPH Oxidases. <i>Circulation Research</i> , 2006, 98, 453-462.	4.5	482
3	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.	2.0	246
4	Activation of RhoA and ROCK Are Essential for Detachment of Migrating Leukocytes. <i>Molecular Biology of the Cell</i> , 2001, 12, 2137-2145.	2.1	223
5	Targeting and activation of Rac1 are mediated by the exchange factor β^2 -Pix. <i>Journal of Cell Biology</i> , 2006, 172, 759-769.	5.2	221
6	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.	2.0	206
7	VCAM-1-mediated Rac signaling controls endothelial cell-cell contacts and leukocyte transmigration. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 285, C343-C352.	4.6	189
8	Calcium Signaling Regulates Translocation and Activation of Rac. <i>Journal of Biological Chemistry</i> , 2003, 278, 39413-39421.	3.4	178
9	Signaling in Leukocyte Transendothelial Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 824-833.	2.4	168
10	Between Rho(k) and a Hard Place. <i>Circulation Research</i> , 2015, 116, 895-908.	4.5	148
11	RhoB regulates endosome transport by promoting actin assembly on endosomal membranes through Dia1. <i>Journal of Cell Science</i> , 2005, 118, 2661-2670.	2.0	136
12	Rac1-induced cell migration requires membrane recruitment of the nuclear oncogene SET. <i>EMBO Journal</i> , 2007, 26, 336-345.	7.8	116
13	Proline-rich Tyrosine Kinase 2 (Pyk2) Mediates Vascular Endothelial-Cadherin-based Cell-Cell Adhesion by Regulating β^2 -Catenin Tyrosine Phosphorylation*. <i>Journal of Biological Chemistry</i> , 2005, 280, 21129-21136.	3.4	106
14	The C-terminal Domain of Rac1 Contains Two Motifs That Control Targeting and Signaling Specificity. <i>Journal of Biological Chemistry</i> , 2003, 278, 39166-39175.	3.4	98
15	Migration of Human Hematopoietic Progenitor Cells Across Bone Marrow Endothelium Is Regulated by Vascular Endothelial Cadherin. <i>Journal of Immunology</i> , 2002, 168, 588-596.	0.8	93
16	ICAM-1-expressing neutrophils exhibit enhanced effector functions in murine models of endotoxemia. <i>Blood</i> , 2016, 127, 898-907.	1.4	93
17	Cell-stiffness-induced mechanosignaling is a key driver of leukocyte transendothelial migration. <i>Journal of Cell Science</i> , 2015, 128, 2221-2230.	2.0	92
18	Endothelial signalling events during leukocyte transmigration. <i>FEBS Journal</i> , 2006, 273, 4408-4415.	4.7	89

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19	Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration. <i>Journal of Cell Science</i> , 2014, 127, 4470-82.	2.0	89
20	Endothelial Signaling by Ig-Like Cell Adhesion Molecules. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1870-1876.	2.4	88
21	Rac1 Mediates Collapse of Microvilli on Chemokine-Activated T Lymphocytes. <i>Journal of Immunology</i> , 2004, 173, 4985-4993.	0.8	86
22	Leukocyte-Endothelium Interaction Promotes SDF-1-dependent Polarization of CXCR4. <i>Journal of Biological Chemistry</i> , 2003, 278, 30302-30310.	3.4	85
23	The F-BAR domain protein PACSIN2 associates with Rac1 and regulates cell spreading and migration. <i>Journal of Cell Science</i> , 2011, 124, 2375-2388.	2.0	81
24	Filamin B Mediates ICAM-1-driven Leukocyte Transendothelial Migration. <i>Journal of Biological Chemistry</i> , 2008, 283, 31830-31839.	3.4	80
25	The role of ubiquitylation and degradation in RhoGTPase signalling. <i>Journal of Cell Science</i> , 2010, 123, 4011-4018.	2.0	80
26	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, 2831-2844.	2.1	80
27	The tyrosine phosphatase SHP2 regulates recovery of endothelial adherens junctions through control of β -catenin phosphorylation. <i>Molecular Biology of the Cell</i> , 2012, 23, 4212-4225.	2.1	80
28	Focal-adhesion targeting links caveolin-1 to a Rac1-degradation pathway. <i>Journal of Cell Science</i> , 2010, 123, 1948-1958.	2.0	79
29	Toward understanding RhoGTPase specificity: structure, function and local activation. <i>Small GTPases</i> , 2014, 5, e968004.	1.6	79
30	PKA and Epac1 regulate endothelial integrity and migration through parallel and independent pathways. <i>European Journal of Cell Biology</i> , 2008, 87, 779-792.	3.6	65
31	The balance between G_{i1} -Cdc42/Rac and G_{i2} / G_{i3} -RhoA pathways determines endothelial barrier regulation by sphingosine-1-phosphate. <i>Molecular Biology of the Cell</i> , 2017, 28, 3371-3382.	2.1	57
32	Targeting and localized signalling by small GTPases. <i>Biology of the Cell</i> , 2007, 99, 1-12.	2.0	53
33	Inside-Out Regulation of ICAM-1 Dynamics in TNF- α -Activated Endothelium. <i>PLoS ONE</i> , 2010, 5, e11336.	2.5	52
34	Spatiotemporal analysis of RhoA/B/C activation in primary human endothelial cells. <i>Scientific Reports</i> , 2016, 6, 25502.	3.3	51
35	The regulation of leucocyte transendothelial migration by endothelial signalling events. <i>Cardiovascular Research</i> , 2010, 86, 202-210.	3.8	50
36	A New Generation of FRET Sensors for Robust Measurement of G_{i1} , G_{i2} and G_{i3} Activation Kinetics in Single Cells. <i>PLoS ONE</i> , 2016, 11, e0146789.	2.5	50

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37	F-Actinâ€“Anchored Focal Adhesions Distinguish Endothelial Phenotypes of Human Arteries and Veins. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2059-2067.	2.4	49
38	Interaction between Tiam1 and the Arp2/3 complex links activation of Rac to actin polymerization. Biochemical Journal, 2006, 397, 39-45.	3.7	48
39	Endothelial CD81 is a marker of early human atherosclerotic plaques and facilitates monocyte adhesion. Cardiovascular Research, 2009, 81, 187-196.	3.8	48
40	Ubiquitin links to cytoskeletal dynamics, cell adhesion and migration. Biochemical Journal, 2012, 442, 13-25.	3.7	46
41	Rac1 Recruits the Adapter Protein CMS/CD2AP to Cell-Cell Contacts. Journal of Biological Chemistry, 2010, 285, 20137-20146.	3.4	44
42	Stasis Promotes Erythrocyte Adhesion to von Willebrand Factor. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1618-1627.	2.4	44
43	The Chemorepellent Slit3 Promotes Monocyte Migration. Journal of Immunology, 2010, 185, 7691-7698.	0.8	43
44	The Cullin-3â€“Rbx1â€“KCTD10 complex controls endothelial barrier function via K63 ubiquitination of RhoB. Journal of Cell Biology, 2018, 217, 1015-1032.	5.2	43
45	The Rac1 hypervariable region in targeting and signaling. Small GTPases, 2013, 4, 78-89.	1.6	41
46	ICAM-1 Clustering on Endothelial Cells Recruits VCAM-1. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-9.	3.0	40
47	The N-Terminal DH-PH Domain of Trio Induces Cell Spreading and Migration by Regulating Lamellipodia Dynamics in a Rac1-Dependent Fashion. PLoS ONE, 2012, 7, e29912.	2.5	40
48	The F-BAR protein pacsin2 inhibits asymmetric VE-cadherin internalization from tensile adherens junctions. Nature Communications, 2016, 7, 12210.	12.8	40
49	RhoA, RhoB and RhoC differentially regulate endothelial barrier function. Small GTPases, 2019, 10, 466-484.	1.6	40
50	Endothelial adapter proteins in leukocyte transmigration. Thrombosis and Haemostasis, 2009, 101, 649-655.	3.4	35
51	Early-onset preeclampsia predisposes to preclinical diastolic left ventricular dysfunction in the fifth decade of life: An observational study. PLoS ONE, 2018, 13, e0198908.	2.5	35
52	A model for phospho-caveolin-1-driven turnover of focal adhesions. Cell Adhesion and Migration, 2011, 5, 59-64.	2.7	33
53	Dissecting the Effects of Ischemia and Reperfusion on the Coronary Microcirculation in a Rat Model of Acute Myocardial Infarction. PLoS ONE, 2016, 11, e0157233.	2.5	33
54	Most exposed: the endothelium in chronic kidney disease. Nephrology Dialysis Transplantation, 2020, 35, 1478-1487.	0.7	32

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55	The F-BAR Protein PACSIN2 Regulates Epidermal Growth Factor Receptor Internalization. Journal of Biological Chemistry, 2012, 287, 43438-43453.	3.4	31
56	Control of human hematopoietic stem/progenitor cell migration by the extracellular matrix protein Slit3. Laboratory Investigation, 2012, 92, 1129-1139.	3.7	30
57	Inflammation-Sensitive Myosin-X Functionally Supports Leukocyte Extravasation by Cdc42-Mediated ICAM-1-Rich Endothelial Filopodia Formation. Journal of Immunology, 2018, 200, 1790-1801.	0.8	28
58	Cytoplasmic targeting of the proto-oncogene SET promotes cell spreading and migration. FEBS Letters, 2013, 587, 111-119.	2.8	27
59	The Human Minor Histocompatibility Antigen1 Is a RhoGAP. PLoS ONE, 2013, 8, e73962.	2.5	27
60	A Rac1 inhibitory peptide suppresses antibody production and paw swelling in the murine collagen-induced arthritis model of rheumatoid arthritis. Arthritis Research and Therapy, 2010, 12, R2.	3.5	26
61	Control of Rho GTPase function by BAR-domains. Small GTPases, 2012, 3, 45-52.	1.6	25
62	BIGH3 modulates adhesion and migration of hematopoietic stem and progenitor cells. Cell Adhesion and Migration, 2013, 7, 434-449.	2.7	25
63	Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration. Journal of Cell Science, 2014, 127, 4985-4985.	2.0	25
64	Traction force dynamics predict gap formation in activated endothelium. Experimental Cell Research, 2016, 347, 161-170.	2.6	25
65	Recent insights into endothelial control of leukocyte extravasation. Cellular and Molecular Life Sciences, 2016, 73, 1591-1608.	5.4	25
66	Stabilization of cell-cell junctions by active vitamin D ameliorates uraemia-induced loss of human endothelial barrier function. Nephrology Dialysis Transplantation, 2019, 34, 252-264.	0.7	24
67	Regulation of CXCR4 conformation by the small GTPase Rac1: implications for HIV infection. Blood, 2012, 119, 2024-2032.	1.4	23
68	Rho GTPase Expression in Human Myeloid Cells. PLoS ONE, 2012, 7, e42563.	2.5	21
69	Plasminogen Activator Inhibitor-1 Controls Vascular Integrity by Regulating VE-Cadherin Trafficking. PLoS ONE, 2015, 10, e0145684.	2.5	21
70	Deubiquitylase Inhibition Reveals Liver X Receptor-independent Transcriptional Regulation of the E3 Ubiquitin Ligase IDOL and Lipoprotein Uptake. Journal of Biological Chemistry, 2016, 291, 4813-4825.	3.4	20
71	A CDC42-centered signaling unit is a dominant positive regulator of endothelial integrity. Scientific Reports, 2017, 7, 10132.	3.3	20
72	Bosutinib prevents vascular leakage by reducing focal adhesion turnover and reinforcing junctional integrity. Journal of Cell Science, 2020, 133, .	2.0	20

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73	Endothelial adapter proteins in leukocyte transmigration. <i>Thrombosis and Haemostasis</i> , 2009, 101, 649-55.	3.4	20
74	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.	2.0	18
75	CSN5 inhibition triggers inflammatory signaling and Rho/ROCK-dependent loss of endothelial integrity. <i>Scientific Reports</i> , 2019, 9, 8131.	3.3	18
76	Extravasation of Microspheres in a Rat Model of Silent Brain Infarcts. <i>Stroke</i> , 2019, 50, 1590-1594.	2.0	18
77	Podosome regulation by Rho GTPases in myeloid cells. <i>European Journal of Cell Biology</i> , 2011, 90, 189-197.	3.6	17
78	Platelet-independent adhesion of calcium-loaded erythrocytes to von Willebrand factor. <i>PLoS ONE</i> , 2017, 12, e0173077.	2.5	17
79	Identification of guanine nucleotide exchange factors that increase Cdc42 activity in primary human endothelial cells. <i>Small GTPases</i> , 2021, 12, 226-240.	1.6	17
80	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-L1331.	2.9	16
81	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.	0.8	16
82	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.	2.1	16
83	A functional siRNA screen identifies RhoGTPase-associated genes involved in thrombin-induced endothelial permeability. <i>PLoS ONE</i> , 2018, 13, e0201231.	2.5	14
84	Ubiquitin-based modifications in endothelial cell-cell contact and inflammation. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	14
85	The interplay of Rac1 activity, ubiquitination and GDI binding and its consequences for endothelial cell spreading. <i>PLoS ONE</i> , 2021, 16, e0254386.	2.5	14
86	Microembolus clearance through angiophagy is an auxiliary mechanism preserving tissue perfusion in the rat brain. <i>Acta Neuropathologica Communications</i> , 2020, 8, 195.	5.2	13
87	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.	2.1	12
88	DLC3 suppresses MT1-MMP-dependent matrix degradation by controlling RhoB and actin remodeling at endosomal membranes. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	11
89	The MARCH6-SQLE Axis Controls Endothelial Cholesterol Homeostasis and Angiogenic Sprouting. <i>Cell Reports</i> , 2020, 32, 107944.	6.4	11
90	In vitro endothelial hyperpermeability occurs early following traumatic hemorrhagic shock. <i>Clinical Hemorheology and Microcirculation</i> , 2020, 75, 1-13.	1.7	10

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91	Altered Intracellular Localization and Mobility of SBDS Protein upon Mutation in Shwachman-Diamond Syndrome. PLoS ONE, 2011, 6, e20727.	2.5	9
92	Analysis of nucleocytoplasmic shuttling of the proto-oncogene SET/I2PP2A. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 81-89.	1.5	8
93	Nucleophosmin1 Is a Negative Regulator of the Small GTPase Rac1. PLoS ONE, 2013, 8, e68477.	2.5	8
94	Pharmacological interventions to reduce edema following cardiopulmonary bypass: A systematic review and meta-analysis. Journal of Critical Care, 2020, 56, 63-72.	2.2	8
95	The covalently immobilized antimicrobial peptide LL37 acts as a VEGF mimic and stimulates endothelial cell proliferation. Biochemical and Biophysical Research Communications, 2018, 496, 887-890.	2.1	7
96	Electrostatic Forces Mediate the Specificity of RHO GTPase-GDI Interactions. International Journal of Molecular Sciences, 2021, 22, 12493.	4.1	6
97	Patient-Specific 3-Dimensional Model of Smooth Muscle Cell and Extracellular Matrix Dysfunction for the Study of Aortic Aneurysms. Journal of Endovascular Therapy, 2021, 28, 604-613.	1.5	5
98	Localizing cellular housekeeping. Nature Reviews Molecular Cell Biology, 2011, 12, 771-771.	37.0	1
99	Intracellular pH steers vascular wall remodelling. Cardiovascular Research, 2016, 111, 165-166.	3.8	1
100	Regulation of Rho GTPases in the Vasculature by Cullin3-Based E3 Ligase Complexes. Frontiers in Cell and Developmental Biology, 2021, 9, 680901.	3.7	1
101	Preservation of renal endothelial integrity and reduction of renal edema by aprotinin does not preserve renal perfusion and function following experimental cardiopulmonary bypass. Intensive Care Medicine Experimental, 2021, 9, 30.	1.9	1