

Peter L Hordijk

List of Publications by Year in descending order

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101
papers

6,165
citations

66234

42
h-index

74018

75
g-index

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.	16.1	487
2	Regulation of NADPH Oxidases. <i>Circulation Research</i> , 2006, 98, 453-462.	2.0	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.	1.2	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.	0.9	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.	2.3	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.	1.2	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.	2.1	189
8	Calcium Signaling Regulates Translocation and Activation of Rac. <i>Journal of Biological Chemistry</i> , 2003, 278, 39413-39421.	1.6	178
9	Signaling in Leukocyte Transendothelial Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 824-833.	1.1	168
10	Between Rho(k) and a Hard Place. <i>Circulation Research</i> , 2015, 116, 895-908.	2.0	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.	1.2	136
12	Rac1-induced cell migration requires membrane recruitment of the nuclear oncogene SET. <i>EMBO Journal</i> , 2007, 26, 336-345.	3.5	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.	1.6	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.	1.6	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.	0.4	93
16	ICAM-1-expressing neutrophils exhibit enhanced effector functions in murine models of endotoxemia. <i>Blood</i> , 2016, 127, 898-907.	0.6	93
17	Cell-stiffness-induced mechanosignaling is a key driver of leukocyte transendothelial migration. <i>Journal of Cell Science</i> , 2015, 128, 2221-2230.	1.2	92
18	Endothelial signalling events during leukocyte transmigration. <i>FEBS Journal</i> , 2006, 273, 4408-4415.	2.2	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.	1.2	89
20	Endothelial Signaling by Ig-Like Cell Adhesion Molecules. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1870-1876.	1.1	88
21	Rac1 Mediates Collapse of Microvilli on Chemokine-Activated T Lymphocytes. <i>Journal of Immunology</i> , 2004, 173, 4985-4993.	0.4	86
22	Leukocyte-Endothelium Interaction Promotes SDF-1-dependent Polarization of CXCR4. <i>Journal of Biological Chemistry</i> , 2003, 278, 30302-30310.	1.6	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.	1.2	81
24	Filamin B Mediates ICAM-1-driven Leukocyte Transendothelial Migration. <i>Journal of Biological Chemistry</i> , 2008, 283, 31830-31839.	1.6	80
25	The role of ubiquitylation and degradation in RhoGTPase signalling. <i>Journal of Cell Science</i> , 2010, 123, 4011-4018.	1.2	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.	0.9	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.	0.9	80
28	Focal-adhesion targeting links caveolin-1 to a Rac1-degradation pathway. <i>Journal of Cell Science</i> , 2010, 123, 1948-1958.	1.2	79
29	Toward understanding RhoGTPase specificity: structure, function and local activation. <i>Small GTPases</i> , 2014, 5, e968004.	0.7	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.	1.6	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.	0.9	57
32	Targeting and localized signalling by small GTPases. <i>Biology of the Cell</i> , 2007, 99, 1-12.	0.7	53
33	Inside-Out Regulation of ICAM-1 Dynamics in TNF- α -Activated Endothelium. <i>PLoS ONE</i> , 2010, 5, e11336.	1.1	52
34	Spatiotemporal analysis of RhoA/B/C activation in primary human endothelial cells. <i>Scientific Reports</i> , 2016, 6, 25502.	1.6	51
35	The regulation of leucocyte transendothelial migration by endothelial signalling events. <i>Cardiovascular Research</i> , 2010, 86, 202-210.	1.8	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.	1.1	50

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37	F-Actin Anchored Focal Adhesions Distinguish Endothelial Phenotypes of Human Arteries and Veins. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2059-2067.	1.1	49
38	Interaction between Tiam1 and the Arp2/3 complex links activation of Rac to actin polymerization. <i>Biochemical Journal</i> , 2006, 397, 39-45.	1.7	48
39	Endothelial CD81 is a marker of early human atherosclerotic plaques and facilitates monocyte adhesion. <i>Cardiovascular Research</i> , 2009, 81, 187-196.	1.8	48
40	Ubiquitin links to cytoskeletal dynamics, cell adhesion and migration. <i>Biochemical Journal</i> , 2012, 442, 13-25.	1.7	46
41	Rac1 Recruits the Adapter Protein CMS/CD2AP to Cell-Cell Contacts. <i>Journal of Biological Chemistry</i> , 2010, 285, 20137-20146.	1.6	44
42	Stasis Promotes Erythrocyte Adhesion to von Willebrand Factor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1618-1627.	1.1	44
43	The Chemorepellent Slit3 Promotes Monocyte Migration. <i>Journal of Immunology</i> , 2010, 185, 7691-7698.	0.4	43
44	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.	2.3	43
45	The Rac1 hypervariable region in targeting and signaling. <i>Small GTPases</i> , 2013, 4, 78-89.	0.7	41
46	ICAM-1 Clustering on Endothelial Cells Recruits VCAM-1. <i>Journal of Biomedicine and Biotechnology</i> , 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. <i>PLoS ONE</i> , 2012, 7, e29912.	1.1	40
48	The F-BAR protein pacsin2 inhibits asymmetric VE-cadherin internalization from tensile adherens junctions. <i>Nature Communications</i> , 2016, 7, 12210.	5.8	40
49	RhoA, RhoB and RhoC differentially regulate endothelial barrier function. <i>Small GTPases</i> , 2019, 10, 466-484.	0.7	40
50	Endothelial adapter proteins in leukocyte transmigration. <i>Thrombosis and Haemostasis</i> , 2009, 101, 649-655.	1.8	35
51	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.	1.1	35
52	A model for phospho-caveolin-1-driven turnover of focal adhesions. <i>Cell Adhesion and Migration</i> , 2011, 5, 59-64.	1.1	33
53	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.	1.1	33
54	Most exposed: the endothelium in chronic kidney disease. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 1478-1487.	0.4	32

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55	The F-BAR Protein PACSIN2 Regulates Epidermal Growth Factor Receptor Internalization. <i>Journal of Biological Chemistry</i> , 2012, 287, 43438-43453.	1.6	31
56	Control of human hematopoietic stem/progenitor cell migration by the extracellular matrix protein Slit3. <i>Laboratory Investigation</i> , 2012, 92, 1129-1139.	1.7	30
57	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.	0.4	28
58	Cytoplasmic targeting of the proto-oncogene SET promotes cell spreading and migration. <i>FEBS Letters</i> , 2013, 587, 111-119.	1.3	27
59	The Human Minor Histocompatibility Antigen1 Is a RhoGAP. <i>PLoS ONE</i> , 2013, 8, e73962.	1.1	27
60	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.	1.6	26
61	Control of Rho GTPase function by BAR-domains. <i>Small GTPases</i> , 2012, 3, 45-52.	0.7	25
62	BIGH3 modulates adhesion and migration of hematopoietic stem and progenitor cells. <i>Cell Adhesion and Migration</i> , 2013, 7, 434-449.	1.1	25
63	Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration. <i>Journal of Cell Science</i> , 2014, 127, 4985-4985.	1.2	25
64	Traction force dynamics predict gap formation in activated endothelium. <i>Experimental Cell Research</i> , 2016, 347, 161-170.	1.2	25
65	Recent insights into endothelial control of leukocyte extravasation. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 1591-1608.	2.4	25
66	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.	0.4	24
67	Regulation of CXCR4 conformation by the small GTPase Rac1: implications for HIV infection. <i>Blood</i> , 2012, 119, 2024-2032.	0.6	23
68	Rho GTPase Expression in Human Myeloid Cells. <i>PLoS ONE</i> , 2012, 7, e42563.	1.1	21
69	Plasminogen Activator Inhibitor-1 Controls Vascular Integrity by Regulating VE-Cadherin Trafficking. <i>PLoS ONE</i> , 2015, 10, e0145684.	1.1	21
70	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, 4813-4825.	1.6	20
71	A CDC42-centered signaling unit is a dominant positive regulator of endothelial integrity. <i>Scientific Reports</i> , 2017, 7, 10132.	1.6	20
72	Bosutinib prevents vascular leakage by reducing focal adhesion turnover and reinforcing junctional integrity. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	20

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73	Endothelial adapter proteins in leukocyte transmigration. <i>Thrombosis and Haemostasis</i> , 2009, 101, 649-55.	1.8	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.	1.2	18
75	CSN5 inhibition triggers inflammatory signaling and Rho/ROCK-dependent loss of endothelial integrity. <i>Scientific Reports</i> , 2019, 9, 8131.	1.6	18
76	Extravasation of Microspheres in a Rat Model of Silent Brain Infarcts. <i>Stroke</i> , 2019, 50, 1590-1594.	1.0	18
77	Podosome regulation by Rho GTPases in myeloid cells. <i>European Journal of Cell Biology</i> , 2011, 90, 189-197.	1.6	17
78	Platelet-independent adhesion of calcium-loaded erythrocytes to von Willebrand factor. <i>PLoS ONE</i> , 2017, 12, e0173077.	1.1	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.	0.7	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.	1.3	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.	0.4	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.	1.0	16
83	A functional siRNA screen identifies RhoGTPase-associated genes involved in thrombin-induced endothelial permeability. <i>PLoS ONE</i> , 2018, 13, e0201231.	1.1	14
84	Ubiquitin-based modifications in endothelial cell-cell contact and inflammation. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	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.	1.1	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.	2.4	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.	0.9	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, .	1.2	11
89	The MARCH6-SQLE Axis Controls Endothelial Cholesterol Homeostasis and Angiogenic Sprouting. <i>Cell Reports</i> , 2020, 32, 107944.	2.9	11
90	In vitro endothelial hyperpermeability occurs early following traumatic hemorrhagic shock. <i>Clinical Hemorheology and Microcirculation</i> , 2020, 75, 1-13.	0.9	10

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91	Altered Intracellular Localization and Mobility of SBDS Protein upon Mutation in Shwachman-Diamond Syndrome. <i>PLoS ONE</i> , 2011, 6, e20727.	1.1	9
92	Analysis of nucleo-cytoplasmic shuttling of the proto-oncogene SET/I2PP2A. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2012, 81A, 81-89.	1.1	8
93	Nucleophosmin1 Is a Negative Regulator of the Small GTPase Rac1. <i>PLoS ONE</i> , 2013, 8, e68477.	1.1	8
94	Pharmacological interventions to reduce edema following cardiopulmonary bypass: A systematic review and meta-analysis. <i>Journal of Critical Care</i> , 2020, 56, 63-72.	1.0	8
95	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.	1.0	7
96	Electrostatic Forces Mediate the Specificity of RHO GTPase-GDI Interactions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12493.	1.8	6
97	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.	0.8	5
98	Localizing cellular housekeeping. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 771-771.	16.1	1
99	Intracellular pH steers vascular wall remodelling. <i>Cardiovascular Research</i> , 2016, 111, 165-166.	1.8	1
100	Regulation of Rho GTPases in the Vasculature by Cullin3-Based E3 Ligase Complexes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 680901.	1.8	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. <i>Intensive Care Medicine Experimental</i> , 2021, 9, 30.	0.9	1