Rac1 Deletion in Mouse Neutrophils Has Selective Effec

Journal of Immunology 170, 5652-5657 DOI: 10.4049/jimmunol.170.11.5652

Citation Report

#	Article	IF	Citations
1	NADPH oxidases: not just for leukocytes anymore!. Trends in Biochemical Sciences, 2003, 28, 502-508.	3.7	359
2	Hematopoietic Cell Regulation by Rac1 and Rac2 Guanosine Triphosphatases. Science, 2003, 302, 445-449.	6.0	446
3	Vav GEFs are required for β2 integrin-dependent functions of neutrophils. Journal of Cell Biology, 2004, 166, 273-282.	2.3	201
4	Rac2-Deficient Murine Macrophages Have Selective Defects in Superoxide Production and Phagocytosis of Opsonized Particles. Journal of Immunology, 2004, 173, 5971-5979.	0.4	119
5	Rac1 Mediates Collapse of Microvilli on Chemokine-Activated T Lymphocytes. Journal of Immunology, 2004, 173, 4985-4993.	0.4	86
6	Reconstitution of Chemotactic Peptide-Induced Nicotinamide Adenine Dinucleotide Phosphate (Reduced) Oxidase Activation in Transgenic COS-phox Cells. Journal of Immunology, 2004, 173, 7462-7470.	0.4	39
7	Localization of Rac2 via the C terminus and aspartic acid 150 specifies superoxide generation, actin polarity and chemotaxis in neutrophils. Nature Immunology, 2004, 5, 744-751.	7.0	119
8	The role of phosphoinositides and phosphorylation in regulation of NADPH oxidase. Advances in Enzyme Regulation, 2004, 44, 279-298.	2.9	47
9	Rac1 and Rac2 GTPases in haematopoiesis. BioEssays, 2004, 26, 221-224.	1.2	16
10	P-Rex2, a new guanine-nucleotide exchange factor for Rac. FEBS Letters, 2004, 572, 172-176.	1.3	94
11	Structure and regulation of the neutrophil respiratory burst oxidase: comparison with nonphagocyte oxidases. Journal of Leukocyte Biology, 2004, 76, 760-781.	1.5	400
13	Cytoskeletal remodeling in leukocyte function. Current Opinion in Hematology, 2004, 11, 15-24.	1.2	83
14	Rac1 is the small GTPase responsible for regulating the neutrophil chemotaxis compass. Blood, 2004, 104, 3758-3765.	0.6	183
15	The role of Rac1 and Rac2 in bacterial killing. Cellular Immunology, 2005, 235, 92-97.	1.4	47
16	P-Rex1 Is a Primary Rac2 Guanine Nucleotide Exchange Factor in Mouse Neutrophils. Current Biology, 2005, 15, 1874-1879.	1.8	135
17	P-Rex1 Regulates Neutrophil Function. Current Biology, 2005, 15, 1867-1873.	1.8	161
18	Role of guanine nucleotide exchange factor P-Rex-2b in sphingosine 1-phosphate-induced Rac1 activation and cell migration in endothelial cells. Prostaglandins and Other Lipid Mediators, 2005, 76, 95-104.	1.0	41
19	Innate immunity and arthritis: Neutrophil Rac and toll-like receptor 4 expression define outcomes in infection-triggered arthritis. Arthritis and Rheumatism, 2005, 52, 1297-1304.	6.7	51

ITATION REDO

#	Article	IF	CITATIONS
20	Control of neutrophil pseudopods by fluid shear: role of Rho family GTPases. American Journal of Physiology - Cell Physiology, 2005, 288, C863-C871.	2.1	37
21	Protein O-GlcNAc Modulates Motility-associated Signaling Intermediates in Neutrophils. Journal of Biological Chemistry, 2005, 280, 14579-14585.	1.6	62
22	Possible Role of Direct Rac1-Rab7 Interaction in Ruffled Border Formation of Osteoclasts. Journal of Biological Chemistry, 2005, 280, 32356-32361.	1.6	65
23	Rac GTPase Isoform-specific Regulation of NADPH Oxidase and Chemotaxis in Murine Neutrophils in Vivo. Journal of Biological Chemistry, 2005, 280, 953-964.	1.6	52
24	WASP deficiency leads to global defects of directed leukocyte migration in vitro and in vivo. Journal of Leukocyte Biology, 2005, 77, 993-998.	1.5	134
25	Generation of rac3 Null Mutant Mice: Role of Rac3 in Bcr/Abl-Caused Lymphoblastic Leukemia. Molecular and Cellular Biology, 2005, 25, 5777-5785.	1.1	57
26	Activation of the Phagocyte NADPH Oxidase by Rac Guanine Nucleotide Exchange Factors in Conjunction with ATP and Nucleoside Diphosphate Kinase. Journal of Biological Chemistry, 2005, 280, 3802-3811.	1.6	51
27	Isoform-Specific Membrane Targeting Mechanism of Rac during FcÎ ³ R-Mediated Phagocytosis: Positive Charge-Dependent and Independent Targeting Mechanism of Rac to the Phagosome. Journal of Immunology, 2005, 175, 2381-2390.	0.4	49
28	Regulation of innate immunity by Rho GTPases. Trends in Cell Biology, 2005, 15, 163-171.	3.6	264
29	Role of Rho, Rac, and Rho-kinase in phosphorylation of myosin light chain, development of polarity, and spontaneous migration of Walker 256 carcinosarcoma cells. Experimental Cell Research, 2005, 308, 422-438.	1.2	52
30	RAC1 Inhibition Targets Amyloid Precursor Protein Processing by Î ³ -Secretase and Decreases AÎ ² Production in Vitro and in Vivo. Journal of Biological Chemistry, 2005, 280, 37516-37525.	1.6	120
31	A Rac switch regulates random versus directionally persistent cell migration. Journal of Cell Biology, 2005, 170, 793-802.	2.3	400
32	Expression and Localization of NOX2 and NOX4 in Primary Human Endothelial Cells. Antioxidants and Redox Signaling, 2005, 7, 308-317.	2.5	296
34	Stem Cell Depletion Through Epidermal Deletion of Rac1. Science, 2005, 309, 933-935.	6.0	243
35	Requirement of Rac1 in the development of cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7432-7437.	3.3	268
36	Regulation of the Phagocyte NADPH Oxidase by Rac GTPase. Antioxidants and Redox Signaling, 2006, 8, 1533-1548.	2.5	129
37	Regulation of NADPH Oxidases. Circulation Research, 2006, 98, 453-462.	2.0	482
38	Rac signaling in tumorigenesis and as target for anticancer drug development. Drug Resistance Updates, 2006, 9, 274-287.	6.5	46

#	Article	IF	CITATIONS
39	Genetic deletion of Cdc42GAP reveals a role of Cdc42 in erythropoiesis and hematopoietic stem/progenitor cell survival, adhesion, and engraftment. Blood, 2006, 107, 98-105.	0.6	77
40	Rac1 links leading edge and uropod events through Rho and myosin activation during chemotaxis. Blood, 2006, 108, 2814-2820.	0.6	94
41	Rac GTPases regulate the morphology and deformability of the erythrocyte cytoskeleton. Blood, 2006, 108, 3637-3645.	0.6	100
42	Rho GTPase CDC42 regulates directionality and random movement via distinct MAPK pathways in neutrophils. Blood, 2006, 108, 4205-4213.	0.6	91
43	Timing of neutrophil tissue repopulation predicts restoration of innate immune protection in a murine bone marrow transplantation model. Blood, 2006, 108, 2821-2826.	0.6	41
44	Neutrophil direction sensing and superoxide production linked by the GTPase-activating protein GIT2. Nature Immunology, 2006, 7, 724-731.	7.0	70
45	New Players in TLR-Mediated Innate Immunity: PI3K and Small Rho GTPases. Immunologic Research, 2006, 34, 33-48.	1.3	93
46	Regulation of chemotaxis by the orchestrated activation of Ras, PI3K, and TOR. European Journal of Cell Biology, 2006, 85, 873-895.	1.6	114
47	Vav Proteins in Neutrophils Are Required for Fcl̂3R-Mediated Signaling to Rac GTPases and Nicotinamide Adenine Dinucleotide Phosphate Oxidase Component p40(phox). Journal of Immunology, 2006, 177, 6388-6397.	0.4	80
48	Rac1-null Mouse Embryonic Fibroblasts Are Motile and Respond to Platelet-derived Growth Factor. Molecular Biology of the Cell, 2006, 17, 2377-2390.	0.9	73
49	Impaired NADPH oxidase activity in Rac2-deficient murine neutrophils does not result from defective translocation of p47phoxand p67phoxand can be rescued by exogenous arachidonic acid. Journal of Leukocyte Biology, 2006, 79, 223-234.	1.5	38
50	Rac1 and Rac2 regulate macrophage morphology but are not essential for migration. Journal of Cell Science, 2006, 119, 2749-2757.	1.2	168
51	Effects of Peripheral Cannabinoid Receptor Ligands on Motility and Polarization in Neutrophil-like HL60 Cells and Human Neutrophils. Journal of Biological Chemistry, 2006, 281, 12908-12918.	1.6	85
52	Nox1-dependent Reactive Oxygen Generation Is Regulated by Rac1. Journal of Biological Chemistry, 2006, 281, 17718-17726.	1.6	241
53	Loss of SLP-76 Expression within Myeloid Cells Confers Resistance to Neutrophil-Mediated Tissue Damage while Maintaining Effective Bacterial Killing. Journal of Immunology, 2007, 178, 4606-4614.	0.4	25
54	Rac1 Signaling Stimulates N-cadherin Expression, Mesenchymal Condensation, and Chondrogenesis. Journal of Biological Chemistry, 2007, 282, 23500-23508.	1.6	101
55	The Src Family Kinases Hck and Fgr Regulate Neutrophil Responses to <i>N</i> -Formyl-Methionyl-Leucyl-Phenylalanine. Journal of Immunology, 2007, 178, 3874-3885.	0.4	94
56	The Rac Effector p67 phox Regulates Phagocyte NADPH Oxidase by Stimulating Vav1 Guanine Nucleotide Exchange Activity. Molecular and Cellular Biology, 2007, 27, 312-323.	1.1	55

#	Article	IF	CITATIONS
57	Blocking p21-activated Kinase Reduces Lipopolysaccharide-induced Acute Lung Injury by Preventing Polymorphonuclear Leukocyte Infiltration. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 1027-1035.	2.5	42
58	Rac1 mediates the osteoclast gains-in-function induced by haploinsufficiency of Nf1. Human Molecular Genetics, 2007, 17, 936-948.	1.4	42
59	Integrin α1β1 Controls Reactive Oxygen Species Synthesis by Negatively Regulating Epidermal Growth Factor Receptor-Mediated Rac Activation. Molecular and Cellular Biology, 2007, 27, 3313-3326.	1.1	102
60	Rac1-mediated Bcl-2 induction is critical in antigen-induced CD4 single-positive differentiation of a CD4+CD8+immature thymocyte line. Journal of Leukocyte Biology, 2007, 81, 500-508.	1.5	8
61	Rac1 and Rac2 differentially regulate actin free barbed end formation downstream of the fMLP receptor. Journal of Cell Biology, 2007, 179, 239-245.	2.3	100
62	Rho CTPase Rac1 is critical for neutrophil migration into the lung. Blood, 2007, 109, 1257-1264.	0.6	63
63	Vav proteins control MyD88-dependent oxidative burst. Blood, 2007, 109, 3360-3368.	0.6	76
64	Genetic ablation of Rac1 in cartilage results in chondrodysplasia. Developmental Biology, 2007, 306, 612-623.	0.9	91
65	Distinct inhibitory mechanisms of isoquercitrin gallate and its aglycone on zymosan-induced peroxynitrite production in macrophages. Nitric Oxide - Biology and Chemistry, 2007, 17, 134-142.	1.2	7
67	Adhesion Protein Protocols. Methods in Molecular Biology, 2007, , .	0.4	2
68	Big roles for small GTPases in the control of directed cell movement. Biochemical Journal, 2007, 401, 377-390.	1.7	180
69	Analysis of Neutrophil Chemotaxis. Methods in Molecular Biology, 2007, 370, 23-35.	0.4	40
70	GTP-binding proteins of the Rho/Rac family: regulation, effectors and functions in vivo. BioEssays, 2007, 29, 356-370.	1.2	554
71	The major outer sheath protein of Treponema denticola selectively inhibits Rac1 activation in murine neutrophils. Cellular Microbiology, 2007, 10, 070917035030001-???.	1.1	25
72	Cell type-specific functions of Rho GTPases revealed by gene targeting in mice. Trends in Cell Biology, 2007, 17, 58-64.	3.6	86
73	Identifying the Relative Contributions of Rac1 and Rac2 to Osteoclastogenesis. Journal of Bone and Mineral Research, 2008, 23, 260-270.	3.1	120
74	Mammalian Rho GTPases: new insights into their functions from in vivo studies. Nature Reviews Molecular Cell Biology, 2008, 9, 690-701.	16.1	1,584
75	Rac1 in cortical projection neurons is selectively required for midline crossing of commissural axonal formation. European Journal of Neuroscience, 2008, 28, 257-267.	1.2	65

#	Article	IF	CITATIONS
76	Activation of the Small GTPase Rac2 via the B Cell Receptor Regulates B Cell Adhesion and Immunological-Synapse Formation. Immunity, 2008, 28, 88-99.	6.6	148
77	Rho GTPases and Regulation of Hematopoietic Stem Cell Localization. Methods in Enzymology, 2008, 439, 365-393.	0.4	57
78	Mechanisms and Consequences of Neutrophil Interaction with the Endothelium. American Journal of Pathology, 2008, 172, 1-7.	1.9	195
79	The Role of Rac2 in Regulating Neutrophil Production in the Bone Marrow and Circulating Neutrophil Counts. American Journal of Pathology, 2008, 173, 507-517.	1.9	12
80	Regulation of Endothelial Nitric Oxide Synthase and Postnatal Angiogenesis by Rac1. Circulation Research, 2008, 103, 360-368.	2.0	82
81	Functions of Rac GTPases during Neuronal Development. Developmental Neuroscience, 2008, 30, 47-58.	1.0	74
82	Rac GTPase isoforms Rac1 and Rac2 play a redundant and crucial role in T-cell development. Blood, 2008, 112, 1767-1775.	0.6	94
83	Neutrophil caveolin-1 expression contributes to mechanism of lung inflammation and injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 294, L178-L186.	1.3	78
84	Role of caveolin-1 in regulation of inflammation: different strokes for different folks. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 294, L175-L177.	1.3	11
85	The Small GTPase Rac1 Regulates Auditory Hair Cell Morphogenesis. Journal of Neuroscience, 2009, 29, 15859-15869.	1.7	90
86	Human Neutrophils Coordinate Chemotaxis by Differential Activation of Rac1 and Rac2. Journal of Immunology, 2009, 183, 2718-2728.	0.4	53
87	Essential role of Rac1 and Rac3 GTPases in neuronal development. FASEB Journal, 2009, 23, 1347-1357.	0.2	83
88	Depleting Rac1 in mouse rod photoreceptors protects them from photo-oxidative stress without affecting their structure or function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9397-9402.	3.3	54
89	Adaptor Protein SLAT Modulates FcÎ ³ Receptor-mediated Phagocytosis in Murine Macrophages. Journal of Biological Chemistry, 2009, 284, 11882-11891.	1.6	8
90	<i>Rac1</i> Is a Critical Mediator of Endothelium-Derived Neurotrophic Activity. Science Signaling, 2009, 2, ra10.	1.6	26
91	The axonal repellent, Slit2, inhibits directional migration of circulating neutrophils. Journal of Leukocyte Biology, 2009, 86, 1403-1415.	1.5	74
92	Modulation of reactive oxygen species by Rac1 or catalase prevents asbestos-induced pulmonary fibrosis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L846-L855.	1.3	71
93	Rac1 signaling regulates CTGF/CCN2 gene expression via TGFβ/Smad signaling in chondrocytes. Osteoarthritis and Cartilage, 2009, 17, 406-413.	0.6	45

#	Article	IF	CITATIONS
94	Rac1 and Rac2 in Osteoclastogenesis: A Cell Immortalization Model. Calcified Tissue International, 2009, 85, 257-266.	1.5	9
95	cDNA cloning, characterization, and expression analysis of the Rac1 gene from Scophthalmus maximus. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2009, 154, 80-84.	0.7	11
96	Rac1 deficiency in the forebrain results in neural progenitor reduction and microcephaly. Developmental Biology, 2009, 325, 162-170.	0.9	64
97	The small Rho GTPase Cdc42 regulates neutrophil polarity via CD11b integrin signaling. Blood, 2009, 114, 4527-4537.	0.6	63
98	Rho GTPases in hematopoiesis and hemopathies. Blood, 2010, 115, 936-947.	0.6	142
99	PtdIns3P and Rac direct the assembly of the NADPH oxidase on a novel, pre-phagosomal compartment during FcR-mediated phagocytosis in primary mouse neutrophils. Blood, 2010, 116, 4978-4989.	0.6	55
100	Prediction of Sphingosine 1-Phosphate-Stimulated Endothelial Cell Migration Rates Using Biochemical Measurements. Annals of Biomedical Engineering, 2010, 38, 2775-2790.	1.3	3
101	ROS-inhibitory activity of YopE is required for full virulence of Yersinia in mice. Cellular Microbiology, 2010, 12, 988-1001.	1.1	46
102	Dissection of the Interplay between Class I PI3Ks and Rac Signaling in Phagocytic Functions. Scientific World Journal, The, 2010, 10, 1826-1839.	0.8	14
103	Adenovirus-mediated Genetic Removal of Signaling Molecules in Cultured Primary Mouse Embryonic Fibroblasts. Journal of Visualized Experiments, 2010, , .	0.2	5
104	Type I PIPK-α regulates directed cell migration by modulating Rac1 plasma membrane targeting and activation. Journal of Cell Biology, 2010, 190, 247-262.	2.3	48
105	Integrin-independent role of CalDAG-GEFI in neutrophil chemotaxis. Journal of Leukocyte Biology, 2010, 88, 313-319.	1.5	28
106	Rac1-mediated Mitochondrial H2O2 Generation Regulates MMP-9 Gene Expression in Macrophages via Inhibition of SP-1 and AP-1. Journal of Biological Chemistry, 2010, 285, 25062-25073.	1.6	81
107	Neutrophil Functions and Autoimmune Arthritis in the Absence of p190RhoGAP: Generation and Analysis of a Novel Null Mutation in Mice. Journal of Immunology, 2010, 185, 3064-3075.	0.4	37
108	Pivotal Advance: Phospholipids determine net membrane surface charge resulting in differential localization of active Rac1 and Rac2. Journal of Leukocyte Biology, 2009, 87, 545-555.	1.5	53
109	Neural crest cell-specific deletion of Rac1 results in defective cell–matrix interactions and severe craniofacial and cardiovascular malformations. Developmental Biology, 2010, 340, 613-625.	0.9	53
110	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.	1.6	26
111	Rac1 Takes Center Stage in Pancreatic Cancer and Ulcerative Colitis: Quantity Matters. Gastroenterology, 2011, 141, 427-430.	0.6	7

#	Article	IF	CITATIONS
112	Early Requirement of Rac1 in a Mouse Model of Pancreatic Cancer. Gastroenterology, 2011, 141, 719-730.e7.	0.6	105
113	Single Nucleotide Polymorphisms That Increase Expression of the Guanosine Triphosphatase RAC1 Are Associated With Ulcerative Colitis. Gastroenterology, 2011, 141, 633-641.	0.6	67
114	Oxaliplatin Uses JNK to Restore TRAIL Sensitivity in Cancer Cells Through Bcl-xL Inactivation. Gastroenterology, 2011, 141, 430-434.	0.6	9
115	Inhibition of Rac activity alleviates lipopolysaccharide-induced acute pulmonary injury in mice. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 666-674.	1.1	49
116	Rac Mediates Mouse Spermatogonial Stem Cell Homing to Germline Niches by Regulating Transmigration through the Blood-Testis Barrier. Cell Stem Cell, 2011, 9, 463-475.	5.2	58
117	The RHO-1 RhoCTPase Modulates Fertility and Multiple Behaviors in Adult C. elegans. PLoS ONE, 2011, 6, e17265.	1.1	21
118	Rac1 Deletion Causes Thymic Atrophy. PLoS ONE, 2011, 6, e19292.	1.1	8
119	Rac regulates PtdInsP3 signaling and the chemotactic compass through a redox-mediated feedback loop. Blood, 2011, 118, 6164-6171.	0.6	64
120	The RacGAP ArhGAP15 is a master negative regulator of neutrophil functions. Blood, 2011, 118, 1099-1108.	0.6	45
121	Aberrant methylation of PSD disturbs Rac1-mediated immune responses governing neutrophil chemotaxis and apoptosis in ulcerative colitis-associated carcinogenesis. International Journal of Oncology, 2012, 40, 942-50.	1.4	5
122	Rac1 activation induces tumour necrosis factor-α expression and cardiac dysfunction in endotoxemia. Journal of Cellular and Molecular Medicine, 2011, 15, 1109-1121.	1.6	18
123	Epithelialâ€specific knockout of the <i>Rac1</i> gene leads to enamel defects. European Journal of Oral Sciences, 2011, 119, 168-176.	0.7	16
124	Rac1 GTPase-deficient mouse lens exhibits defects in shape, suture formation, fiber cell migration and survival. Developmental Biology, 2011, 360, 30-43.	0.9	45
125	Deleting Rac1 improves vertebral bone quality and resistance to fracture in a murine ovariectomy model. Osteoporosis International, 2011, 22, 1481-1492.	1.3	15
126	Rac2 is required for the formation of neutrophil extracellular traps. Journal of Leukocyte Biology, 2011, 90, 771-776.	1.5	121
127	Pyk2 Is Required for Neutrophil Degranulation and Host Defense Responses to Bacterial Infection. Journal of Immunology, 2011, 186, 1656-1665.	0.4	68
128	P-Rex1 and Vav1 Cooperate in the Regulation of Formyl-Methionyl-Leucyl-Phenylalanine–Dependent Neutrophil Responses. Journal of Immunology, 2011, 186, 1467-1476.	0.4	80
129	Aquaporin 9 phosphorylation mediates membrane localization and neutrophil polarization. Journal of Leukocyte Biology, 2011, 90, 963-973.	1.5	53

#	Article	IF	CITATIONS
130	Control of Hepatic Nuclear Superoxide Production by Glucose 6-Phosphate Dehydrogenase and NADPH Oxidase-4. Journal of Biological Chemistry, 2011, 286, 8977-8987.	1.6	87
131	The Dual Effect of Rac2 on Phospholipase D2 Regulation That Explains both the Onset and Termination of Chemotaxis. Molecular and Cellular Biology, 2011, 31, 2227-2240.	1.1	23
132	Essential role of integrinâ€linked kinase in regulation of phagocytosis in keratinocytes. FASEB Journal, 2012, 26, 4218-4229.	0.2	23
133	Crotoxin, a rattlesnake toxin, induces a long-lasting inhibitory effect on phagocytosis by neutrophils. Experimental Biology and Medicine, 2012, 237, 1219-1230.	1.1	17
134	Mitochondrial Rac1 GTPase Import and Electron Transfer from Cytochrome c Are Required for Pulmonary Fibrosis. Journal of Biological Chemistry, 2012, 287, 3301-3312.	1.6	78
135	The 3BP2 Adapter Protein Is Required for Chemoattractant-Mediated Neutrophil Activation. Journal of Immunology, 2012, 189, 2138-2150.	0.4	21
136	Epidermal growth factor induction of front–rear polarity and migration in keratinocytes is mediated by integrin-linked kinase and ELMO2. Molecular Biology of the Cell, 2012, 23, 492-502.	0.9	33
137	Podocyte-Specific Loss of Cdc42 Leads to Congenital Nephropathy. Journal of the American Society of Nephrology: JASN, 2012, 23, 1149-1154.	3.0	112
138	CXCR2: From Bench to Bedside. Frontiers in Immunology, 2012, 3, 263.	2.2	148
139	Cdc42 regulates neutrophil migration via crosstalk between WASp, CD11b, and microtubules. Blood, 2012, 120, 3563-3574.	0.6	98
140	Rac2 expression and its role in neutrophil functions of zebrafish (Danio rerio). Fish and Shellfish Immunology, 2012, 33, 1086-1094.	1.6	25
141	Protein Structure. , 2012, , .		2
142	Small molecules that regulate zymosan phagocytosis of macrophage through deactivation of Rho GTPases. Bioorganic and Medicinal Chemistry, 2012, 20, 5262-5268.	1.4	7
143	Slit/Robo Signaling: Inhibition of Directional Leukocyte Migration. , 0, , .		0
144	Inhibition of Na/K-ATPase promotes myocardial tumor necrosis factor-alpha protein expression and cardiac dysfunction via calcium/mTOR signaling in endotoxemia. Basic Research in Cardiology, 2012, 107, 254.	2.5	27
145	Zoledronate and pamidronate depress neutrophil functions and survival in mice. British Journal of Pharmacology, 2012, 165, 532-539.	2.7	46
146	Rac signaling in breast cancer: A tale of GEFs and GAPs. Cellular Signalling, 2012, 24, 353-362.	1.7	162
147	Redundant functions of Rac GTPases in inner ear morphogenesis. Developmental Biology, 2012, 362, 172-186.	0.9	15

#	Article	IF	CITATIONS
149	Apoptotic cell clearance by bronchial epithelial cells critically influences airway inflammation. Nature, 2013, 493, 547-551.	13.7	254
150	Reactive Oxygen Species Production in the Phagosome: Impact on Antigen Presentation in Dendritic Cells. Antioxidants and Redox Signaling, 2013, 18, 714-729.	2.5	117
151	Rac1 modulates acute and subacute genotoxin-induced hepatic stress responses, fibrosis and liver aging. Cell Death and Disease, 2013, 4, e558-e558.	2.7	29
152	Molecular players in neutrophil chemotaxis—focus on PI3K and small GTPases. Journal of Leukocyte Biology, 2013, 94, 603-612.	1.5	72
153	Hepatocytes produce TNF-α following hypoxia-reoxygenation and liver ischemia-reperfusion in a NADPH oxidase- and c-Src-dependent manner. American Journal of Physiology - Renal Physiology, 2013, 305, G84-G94.	1.6	40
154	Slit2 Prevents Neutrophil Recruitment and Renal Ischemia-Reperfusion Injury. Journal of the American Society of Nephrology: JASN, 2013, 24, 1274-1287.	3.0	52
155	lloprost improves endothelial barrier function in lipopolysaccharide-induced lung injury. European Respiratory Journal, 2013, 41, 165-176.	3.1	58
156	Rac1 is required for Prkar1a-mediated Nf2 suppression in Schwann cell tumors. Oncogene, 2013, 32, 3491-3499.	2.6	18
157	Integrin activation by P-Rex1 is required for selectin-mediated slow leukocyte rolling and intravascular crawling. Blood, 2013, 121, 2301-2310.	0.6	55
158	The Neutrophil Respiratory Burst Oxidase. , 2013, , 42-105.		0
159	Filamin-A Regulates Neutrophil Uropod Retraction through RhoA during Chemotaxis. PLoS ONE, 2013, 8, e79009.	1.1	21
160	Role of the Rho GTPase Rac in the activation of the phagocyte NADPH oxidase. Small GTPases, 2014, 5, e27952.	0.7	88
161	PI3K Regulation of RAC1 Is Required for KRAS-Induced Pancreatic Tumorigenesis in Mice. Gastroenterology, 2014, 147, 1405-1416.e7.	0.6	101
162	Rac1 Signaling Is Critical to Cardiomyocyte Polarity and Embryonic Heart Development. Journal of the American Heart Association, 2014, 3, e001271.	1.6	32
163	Nox family NADPH oxidases: Molecular mechanisms of activation. Free Radical Biology and Medicine, 2014, 76, 208-226.	1.3	546
164	Clozapine Promotes the Proliferation of Granulocyte Progenitors in the Bone Marrow Leading to Increased Granulopoiesis and Neutrophilia in Rats. Chemical Research in Toxicology, 2014, 27, 1109-1119.	1.7	15
165	Rac1 signaling regulates neutrophil-dependent tissue damage in experimental colitis. European Journal of Pharmacology, 2014, 741, 90-96.	1.7	10
166	Involvement of Myeloperoxidase and NADPH Oxidase in the Covalent Binding of Amodiaquine and Clozapine to Neutrophils: Implications for Drug-Induced Agranulocytosis. Chemical Research in Toxicology, 2014, 27, 699-709.	1.7	34

#	Article	IF	CITATIONS
167	A poolingâ€based genomewide association study identifies genetic variants associated with <i>Staphylococcus aureus</i> colonization in chronic rhinosinusitis patients. International Forum of Allergy and Rhinology, 2014, 4, 207-215.	1.5	17
168	Rac-Null Leukocytes Are Associated with Increased Inflammation-Mediated Alveolar Bone Loss. American Journal of Pathology, 2014, 184, 472-482.	1.9	21
169	RhoA/ROCK downregulates FPR2-mediated NADPH oxidase activation in mouse bone marrow granulocytes. Cellular Signalling, 2014, 26, 2138-2146.	1.7	21
170	P-Rex and Vav Rac-GEFs in platelets control leukocyte recruitment to sites of inflammation. Blood, 2015, 125, 1146-1158.	0.6	76
171	Rac1 plays an essential role in axon growth and guidance and in neuronal survival in the central and peripheral nervous systems. Neural Development, 2015, 10, 21.	1.1	45
172	Regulation of cytoskeletal dynamics by redox signaling and oxidative stress: implications for neuronal development and trafficking. Frontiers in Cellular Neuroscience, 2015, 9, 381.	1.8	176
173	Homer3 regulates the establishment of neutrophil polarity. Molecular Biology of the Cell, 2015, 26, 1629-1639.	0.9	19
174	Rac1 modulates cardiomyocyte adhesion during mouse embryonic development. Biochemical and Biophysical Research Communications, 2015, 456, 847-852.	1.0	4
175	Epigenome profiling reveals significant DNA demethylation of interferon signature genes in lupus neutrophils. Journal of Autoimmunity, 2015, 58, 59-66.	3.0	161
176	Ex Vivo and In Vitro Effect of Serum Amyloid A in the Induction of Macrophage M2 Markers and Efferocytosis of Apoptotic Neutrophils. Journal of Immunology, 2015, 194, 4891-4900.	0.4	79
177	Quantitative Trait Loci and Candidate Genes for Neutrophil Recruitment in Sterile Inflammation Mapped in AXB-BXA Recombinant Inbred Mice. PLoS ONE, 2015, 10, e0124117.	1.1	3
178	Podocyte-specific deletion of Rac1 leads to aggravation of renal injury in STZ-induced diabetic mice. Biochemical and Biophysical Research Communications, 2015, 467, 549-555.	1.0	19
179	Targeting the isoprenoid pathway to abrogate progression of pulmonary fibrosis. Free Radical Biology and Medicine, 2015, 86, 47-56.	1.3	23
180	<i>Staphylococcus aureus</i> keratinocyte invasion is mediated by integrinâ€linked kinase and Rac1. FASEB Journal, 2015, 29, 711-723.	0.2	33
181	Pharmacological Potential of NOX2 Agonists in Inflammatory Conditions. Antioxidants and Redox Signaling, 2015, 23, 446-459.	2.5	23
182	Mechanism of Diapedesis. Advances in Immunology, 2016, 129, 25-53.	1.1	66
183	Deletion of Rac1GTPase in the Myeloid Lineage Protects against Inflammation-Mediated Kidney Injury in Mice. PLoS ONE, 2016, 11, e0150886.	1.1	21
184	Hyperglycemia Impairs Neutrophil-Mediated Bacterial Clearance in Mice Infected with the Lyme Disease Pathogen. PLoS ONE, 2016, 11, e0158019.	1.1	18

#	Article	IF	CITATIONS
185	Small GTPases and their guanine-nucleotide exchange factors and GTPase-activating proteins in neutrophil recruitment. Current Opinion in Hematology, 2016, 23, 44-54.	1.2	23
186	Deletion of Rac in Mature Osteoclasts Causes Osteopetrosis, an Age-Dependent Change in Osteoclast Number, and a Reduced Number of Osteoblasts In Vivo. Journal of Bone and Mineral Research, 2016, 31, 864-873.	3.1	31
187	Apoptotic cell recognition receptors and scavenger receptors. Immunological Reviews, 2016, 269, 44-59.	2.8	157
188	Reduced oxidative stress in primary human cells by antioxidant released from nanoporous alumina. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 568-575.	1.6	2
189	Comparison of neutrophil functions between two strains of inbred mice. Microbiology and Immunology, 2016, 60, 859-863.	0.7	2
190	Rac signal adaptation controls neutrophil mobilization from the bone marrow. Science Signaling, 2016, 9, ra124.	1.6	14
191	Role of the Cytoskeleton in Myeloid Cell Function. Microbiology Spectrum, 2016, 4, .	1.2	6
192	17-β-estradiol Decreases Neutrophil Superoxide Production through Rac1. Experimental and Clinical Endocrinology and Diabetes, 2016, 124, 588-592.	0.6	8
193	The life cycle of phagosomes: formation, maturation, and resolution. Immunological Reviews, 2016, 273, 156-179.	2.8	239
194	Bufexamac ameliorates LPS-induced acute lung injury in mice by targeting LTA4H. Scientific Reports, 2016, 6, 25298.	1.6	19
195	Rac2 Functions in Both Neutrophils and Macrophages To Mediate Motility and Host Defense in Larval Zebrafish. Journal of Immunology, 2016, 197, 4780-4790.	0.4	46
196	Unidirectional Eph/ephrin signaling creates a cortical actomyosin differential to drive cell segregation. Journal of Cell Biology, 2016, 215, 217-229.	2.3	41
197	Actin filaments—A target for redox regulation. Cytoskeleton, 2016, 73, 577-595.	1.0	75
198	Tiam1/Rac1 complex controls Il17a transcription and autoimmunity. Nature Communications, 2016, 7, 13048.	5.8	38
199	Dissecting the role of redox signaling in neuronal development. Journal of Neurochemistry, 2016, 137, 506-517.	2.1	59
200	Optical Tools To Study the Isoform-Specific Roles of Small GTPases in Immune Cells. Journal of Immunology, 2016, 196, 3479-3493.	0.4	21
201	Locally excitable Cdc42 signals steer cells duringÂchemotaxis. Nature Cell Biology, 2016, 18, 191-201.	4.6	166
202	RasGRF2 controls nuclear migration in postnatal retinal cone photoreceptors. Journal of Cell Science, 2016, 129, 729-42.	1.2	16

#	Article	IF	CITATIONS
203	Rac1 Signaling Is Required for Anterior Second Heart Field Cellular Organization and Cardiac Outflow Tract Development. Journal of the American Heart Association, 2016, 5, .	1.6	19
204	Mechanisms of Impaired Neutrophil Migration by MicroRNAs in Myelodysplastic Syndromes. Journal of Immunology, 2017, 198, 1887-1899.	0.4	35
205	An FAK-YAP-mTOR Signaling Axis Regulates Stem Cell-Based Tissue Renewal in Mice. Cell Stem Cell, 2017, 21, 91-106.e6.	5.2	176
206	EGFR signalling controls cellular fate and pancreatic organogenesis by regulating apicobasal polarity. Nature Cell Biology, 2017, 19, 1313-1325.	4.6	47
207	The phagocyte respiratory burst: Historical perspectives and recent advances. Immunology Letters, 2017, 192, 88-96.	1.1	126
208	The Lipid Kinase PIKfyve Coordinates the Neutrophil Immune Response through the Activation of the Rac GTPase. Journal of Immunology, 2017, 199, 2096-2105.	0.4	31
209	Rac1 Dosage Is Crucial for Normal Endochondral Bone Growth. Endocrinology, 2017, 158, 3386-3398.	1.4	7
210	Metal transporter Slc39a10 regulates susceptibility to inflammatory stimuli by controlling macrophage survival. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12940-12945.	3.3	55
211	Role of the Cytoskeleton in Myeloid Cell Function. , 2017, , 527-542.		0
212	Racâ€ <scp>GTP</scp> ases and Racâ€ <scp>GEF</scp> s in neutrophil adhesion, migration and recruitment. European Journal of Clinical Investigation, 2018, 48, e12939.	1.7	36
213	Rac1 in podocytes promotes glomerular repair and limits the formation of sclerosis. Scientific Reports, 2018, 8, 5061.	1.6	10
214	From birth to death: A role for reactive oxygen species in neuronal development. Seminars in Cell and Developmental Biology, 2018, 80, 43-49.	2.3	91
215	Positional Stability and Membrane Occupancy Define Skin Fibroblast Homeostasis InÂVivo. Cell, 2018, 175, 1620-1633.e13.	13.5	73
216	Small GTPase-dependent regulation of leukocyte–endothelial interactions in inflammation. Biochemical Society Transactions, 2018, 46, 649-658.	1.6	5
217	Crk proteins transduce FGF signaling to promote lens fiber cell elongation. ELife, 2018, 7, .	2.8	27
218	Screening for Rho GTPase Modulators in Actin-Dependent Processes Exemplified by Phagocytosis. Methods in Molecular Biology, 2018, 1821, 107-127.	0.4	1
219	Thrombospondin receptor α2δ-1 promotes synaptogenesis and spinogenesis via postsynaptic Rac1. Journal of Cell Biology, 2018, 217, 3747-3765.	2.3	116
220	Rho-Family Small GTPases: From Highly Polarized Sensory Neurons to Cancer Cells. Cells, 2019, 8, 92.	1.8	35

	CHATION R	CITATION REPORT	
#	Article	IF	Citations
221	Neutrophil transendothelial migration: updates and new perspectives. Blood, 2019, 133, 2149-2158.	0.6	136
222	Novel mouse model of encephalocele: post-neurulation origin and relationship to open neural tube defects. DMM Disease Models and Mechanisms, 2019, 12, .	1.2	20
223	cDNA cloning, characterization, and expression analysis of the Rac1 and Rac2 genes from Cynoglossus semilaevis. Fish and Shellfish Immunology, 2019, 84, 998-1006.	1.6	5
224	Activation of compensatory pathways via Rac2 in the absence of the Cdc42 effector Wiskott-Aldrich syndrome protein in Dendritic cells. Small GTPases, 2019, 10, 81-88.	0.7	10
225	Cross-talk between Rho GTPases and PI3K in the neutrophil. Small GTPases, 2019, 10, 187-195.	0.7	35
226	Rac1 regulates platelet microparticles formation and rheumatoid arthritis deterioration. Platelets, 2020, 31, 112-119.	1.1	8
227	The effect of pamidronate delivery in bisphosphonate-naÃ⁻ve patients on neutrophil chemotaxis and oxidative burst. Scientific Reports, 2020, 10, 18309.	1.6	6
228	HACE1 Prevents Lung Carcinogenesis via Inhibition of RAC-Family GTPases. Cancer Research, 2020, 80, 3009-3022.	0.4	19
229	Genetic disruption of the small GTPase RAC1 prevents plexiform neurofibroma formation in mice with neurofibromatosis type 17. Journal of Biological Chemistry, 2020, 295, 9948-9958.	1.6	7
230	A hybrid stochastic–deterministic mechanochemical model of cell polarization. Molecular Biology of the Cell, 2020, 31, 1637-1649.	0.9	15
231	Prenylation of Axonally Translated Rac1 Controls NGF-Dependent Axon Growth. Developmental Cell, 2020, 53, 691-705.e7.	3.1	20
232	Statins Disrupt Macrophage Rac1 Regulation Leading to Increased Atherosclerotic Plaque Calcification. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 714-732.	1.1	45
233	The Rho GTPase RAC1 in Osteoblasts Controls Their Function. International Journal of Molecular Sciences, 2020, 21, 385.	1.8	9
234	Distinct Roles for Rac1 in Sertoli Cell Function during Testicular Development and Spermatogenesis. Cell Reports, 2020, 31, 107513.	2.9	29
235	Neutrophil signaling during myocardial infarction wound repair. Cellular Signalling, 2021, 77, 109816.	1.7	44
237	The neurorepellent, Slit2, prevents macrophage lipid loading by inhibiting CD36-dependent binding and internalization of oxidized low-density lipoprotein. Scientific Reports, 2021, 11, 3614.	1.6	5
238	Myocardium-Specific Deletion of Rac1 Causes Ventricular Noncompaction and Outflow Tract Defects. Journal of Cardiovascular Development and Disease, 2021, 8, 29.	0.8	9
239	Skin-resident immune cells actively coordinate their distribution with epidermal cells during homeostasis. Nature Cell Biology, 2021, 23, 476-484.	4.6	30

#	Article	IF	CITATIONS
240	The actinâ€binding protein Adseverin mediates neutrophil polarization and migration. Cytoskeleton, 2021, 78, 206-213.	1.0	1
241	Loss of <i>Zic3</i> impairs planar cell polarity leading to abnormal left–right signaling, heart defects and neural tube defects. Human Molecular Genetics, 2021, 30, 2402-2415.	1.4	8
242	Cell-Free NADPH Oxidase Activation Assays: "In Vitro Veritas― Methods in Molecular Biology, 2014, 1124, 339-403.	0.4	25
243	Conditional Mutagenesis Reveals Immunological Functions of Widely Expressed Genes: Activation Thresholds, Homeostatic Mechanisms and Disease Models. , 2007, , 289-314.		1
244	Down-regulation of placental Cdc42 and Rac1 links mTORC2 inhibition to decreased trophoblast amino acid transport in human intrauterine growth restriction. Clinical Science, 2020, 134, 53-70.	1.8	17
245	Increased flux through the mevalonate pathway mediates fibrotic repair without injury. Journal of Clinical Investigation, 2019, 129, 4962-4978.	3.9	22
246	Apoptotic cells trigger a membrane-initiated pathway to increase ABCA1. Journal of Clinical Investigation, 2015, 125, 2748-2758.	3.9	86
247	Rac1 Regulates Endometrial Secretory Function to Control Placental Development. PLoS Genetics, 2015, 11, e1005458.	1.5	22
248	Signal Transduction Pathways in Chronic Inflammatory Autoimmune Disease: Small GTPases. Open Rheumatology Journal, 2012, 6, 259-272.	0.1	25
249	Rac GTPases in human diseases. Disease Markers, 2010, 29, 177-87.	0.6	33
250	Regulation of cell protrusions by small GTPases during fusion of the neural folds. ELife, 2016, 5, e13273.	2.8	80
252	Leukocyte Chemotaxis. , 0, , 183-192.		0
255	Genetic Analysis of Rho Protein Function in Mice. , 2005, , 231-263.		0
256	Different virulence of is attributed to the ability of escape from neutrophil extracellular traps by secretion of DNase. American Journal of Translational Research (discontinued), 2017, 9, 50-62.	0.0	17
257	Decoding the signaling profile of hematopoietic progenitor kinase 1 (HPK1) in innate immunity: A proteomic approach. European Journal of Immunology, 2022, , .	1.6	1
259	An injury-responsive Rac-to-Rho GTPase switch drives activation of muscle stem cells through rapid cytoskeletal remodeling. Cell Stem Cell, 2022, 29, 933-947.e6.	5.2	34
260	Oxidation and reduction of actin: Origin, impact in vitro and functional consequences in vivo. European Journal of Cell Biology, 2022, 101, 151249.	1.6	29
262	Rac-deficient cerebellar granule neurons die before they migrate to the internal granule layer. Scientific Reports, 2022, 12, .	1.6	1

#	Article	IF	CITATIONS
263	Nexinhib20 Inhibits Neutrophil Adhesion and β2 Integrin Activation by Antagonizing Rac-1–Guanosine 5′-Triphosphate Interaction. Journal of Immunology, 2022, 209, 1574-1585.	0.4	3
264	Presynaptic Rac1 controls synaptic strength through the regulation of synaptic vesicle priming. ELife, 0, 11, .	2.8	8
265	Targeting VEGF-A/VEGFR2 Y949 Signaling-Mediated Vascular Permeability Alleviates Hypoxic Pulmonary Hypertension. Circulation, 2022, 146, 1855-1881.	1.6	14
266	Bovine neutrophil chemotaxis to Listeria monocytogenes in neurolisteriosis depends on microglia-released rather than bacterial factors. Journal of Neuroinflammation, 2022, 19, .	3.1	Ο
267	Rac is required for the survival of cortical neurons. Experimental Neurology, 2023, 361, 114316.	2.0	3
269	Rho Family GTPases and their Modulators. , 2023, , 287-310.		0