

Kodi S Ravichandran

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134
papers

14,050
citations

57
h-index

118
g-index

142
ext. papers

16,628
ext. citations

17.5
avg, IF

6.93
L-index

#	Paper	IF	Citations
134	Nucleotides released by apoptotic cells act as a find-me signal to promote phagocytic clearance. <i>Nature</i> , 2009 , 461, 282-6	50.4	1040
133	Pannexin 1 channels mediate find-me signal release and membrane permeability during apoptosis. <i>Nature</i> , 2010 , 467, 863-7	50.4	745
132	Apoptotic cell clearance: basic biology and therapeutic potential. <i>Nature Reviews Immunology</i> , 2014 , 14, 166-80	36.5	710
131	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , 2015 , 22, 58-73	12.7	643
130	BA11 is an engulfment receptor for apoptotic cells upstream of the ELMO/Dock180/Rac module. <i>Nature</i> , 2007 , 450, 430-4	50.4	616
129	Engulfment of apoptotic cells: signals for a good meal. <i>Nature Reviews Immunology</i> , 2007 , 7, 964-74	36.5	500
128	Phagocytosis of apoptotic cells in homeostasis. <i>Nature Immunology</i> , 2015 , 16, 907-17	19.1	413
127	Clearance of apoptotic cells: implications in health and disease. <i>Journal of Cell Biology</i> , 2010 , 189, 1059-70	19.1	384
126	Beginnings of a good apoptotic meal: the find-me and eat-me signaling pathways. <i>Immunity</i> , 2011 , 35, 445-55	32.3	374
125	Identification of a novel macrophage phenotype that develops in response to atherogenic phospholipids via Nrf2. <i>Circulation Research</i> , 2010 , 107, 737-46	15.7	366
124	Find-me and eat-me signals in apoptotic cell clearance: progress and conundrums. <i>Journal of Experimental Medicine</i> , 2010 , 207, 1807-17	16.6	360
123	Phagosome maturation: going through the acid test. <i>Nature Reviews Molecular Cell Biology</i> , 2008 , 9, 781-95	16.7	341
122	Signaling via Shc family adapter proteins. <i>Oncogene</i> , 2001 , 20, 6322-30	9.2	330
121	Clearing the dead: apoptotic cell sensing, recognition, engulfment, and digestion. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013 , 5, a008748	10.2	329
120	Apoptotic cell clearance by bronchial epithelial cells critically influences airway inflammation. <i>Nature</i> , 2013 , 493, 547-51	50.4	206
119	A pathway for phagosome maturation during engulfment of apoptotic cells. <i>Nature Cell Biology</i> , 2008 , 10, 556-66	23.4	200
118	Identification of two evolutionarily conserved genes regulating processing of engulfed apoptotic cells. <i>Nature</i> , 2010 , 464, 778-82	50.4	198

117	Phosphatidylserine receptor BAI1 and apoptotic cells as new promoters of myoblast fusion. <i>Nature</i> , 2013 , 497, 263-7	50.4	194
116	Cues for apoptotic cell engulfment: eat-me, donR eat-me and come-get-me signals. <i>Trends in Cell Biology</i> , 2003 , 13, 648-56	18.3	189
115	Pannexin 1, an ATP release channel, is activated by caspase cleavage of its pore-associated C-terminal autoinhibitory region. <i>Journal of Biological Chemistry</i> , 2012 , 287, 11303-11	5.4	184
114	A novel mechanism of generating extracellular vesicles during apoptosis via a beads-on-a-string membrane structure. <i>Nature Communications</i> , 2015 , 6, 7439	17.4	178
113	Dock180 and ELMO1 proteins cooperate to promote evolutionarily conserved Rac-dependent cell migration. <i>Journal of Biological Chemistry</i> , 2004 , 279, 6087-97	5.4	173
112	Phagocytosis of apoptotic cells is regulated by a UNC-73/TRIO-MIG-2/RhoG signaling module and armadillo repeats of CED-12/ELMO. <i>Current Biology</i> , 2004 , 14, 2208-16	6.3	168
111	Unexpected link between an antibiotic, pannexin channels and apoptosis. <i>Nature</i> , 2014 , 507, 329-34	50.4	158
110	The Dynamics of Apoptotic Cell Clearance. <i>Developmental Cell</i> , 2016 , 38, 147-60	10.2	148
109	Continued clearance of apoptotic cells critically depends on the phagocyte Ucp2 protein. <i>Nature</i> , 2011 , 477, 220-4	50.4	146
108	c-Myb is critical for B cell development and maintenance of follicular B cells. <i>Immunity</i> , 2005 , 23, 275-86	32.3	141
107	CXCR4 acts as a costimulator during thymic beta-selection. <i>Nature Immunology</i> , 2010 , 11, 162-70	19.1	128
106	Pannexin1 regulates α -adrenergic receptor- mediated vasoconstriction. <i>Circulation Research</i> , 2011 , 109, 80-5	15.7	128
105	The DOCK180/Elmo complex couples ARNO-mediated Arf6 activation to the downstream activation of Rac1. <i>Current Biology</i> , 2005 , 15, 1749-54	6.3	126
104	Metabolites released from apoptotic cells act as tissue messengers. <i>Nature</i> , 2020 , 580, 130-135	50.4	125
103	"Recruitment signals" from apoptotic cells: invitation to a quiet meal. <i>Cell</i> , 2003 , 113, 817-20	56.2	125
102	Phagocytic activity of neuronal progenitors regulates adult neurogenesis. <i>Nature Cell Biology</i> , 2011 , 13, 1076-83	23.4	124
101	Macrophages redirect phagocytosis by non-professional phagocytes and influence inflammation. <i>Nature</i> , 2016 , 539, 570-574	50.4	121
100	Identification of a novel mitochondrial uncoupler that does not depolarize the plasma membrane. <i>Molecular Metabolism</i> , 2014 , 3, 114-23	8.8	118

99	Apoptotic cell recognition receptors and scavenger receptors. <i>Immunological Reviews</i> , 2016 , 269, 44-59	11.3	118
98	Unexpected requirement for ELMO1 in clearance of apoptotic germ cells in vivo. <i>Nature</i> , 2010 , 467, 333-340	30.4	116
97	The phosphatidylserine receptor TIM-4 does not mediate direct signaling. <i>Current Biology</i> , 2009 , 19, 346-351	6.1	116
96	Engulfment of apoptotic cells is negatively regulated by Rho-mediated signaling. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49911-9	5.4	116
95	Efferocytosis induces a novel SLC program to promote glucose uptake and lactate release. <i>Nature</i> , 2018 , 563, 714-718	50.4	115
94	ELMO1 and Dock180, a bipartite Rac1 guanine nucleotide exchange factor, promote human glioma cell invasion. <i>Cancer Research</i> , 2007 , 67, 7203-11	10.1	113
93	Pannexin 1 channels regulate leukocyte emigration through the venous endothelium during acute inflammation. <i>Nature Communications</i> , 2015 , 6, 7965	17.4	108
92	Brain angiogenesis inhibitor 1 (BAI1) is a pattern recognition receptor that mediates macrophage binding and engulfment of Gram-negative bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2136-41	11.5	102
91	PH domain of ELMO functions in trans to regulate Rac activation via Dock180. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 756-62	17.6	100
90	Network analysis of oncogenic Ras activation in cancer. <i>Science</i> , 2007 , 318, 463-7	33.3	97
89	Living on the Edge: Efferocytosis at the Interface of Homeostasis and Pathology. <i>Immunity</i> , 2019 , 50, 1149-1162	32.3	94
88	Do not let death do us part: Find-me signals in communication between dying cells and the phagocytes. <i>Cell Death and Differentiation</i> , 2016 , 23, 979-89	12.7	91
87	Metabolic connections during apoptotic cell engulfment. <i>Cell</i> , 2011 , 147, 1442-5	56.2	90
86	Journey to the grave: signaling events regulating removal of apoptotic cells. <i>Journal of Cell Science</i> , 2007 , 120, 2143-9	5.3	89
85	A quantized mechanism for activation of pannexin channels. <i>Nature Communications</i> , 2017 , 8, 14324	17.4	87
84	A Steric-inhibition model for regulation of nucleotide exchange via the Dock180 family of GEFs. <i>Current Biology</i> , 2005 , 15, 371-7	6.3	87
83	Apoptotic cells induce a phosphatidylserine-dependent homeostatic response from phagocytes. <i>Current Biology</i> , 2006 , 16, 2252-8	6.3	85
82	A molecular signature in the pannexin1 intracellular loop confers channel activation by the β 1 adrenoreceptor in smooth muscle cells. <i>Science Signaling</i> , 2015 , 8, ra17	8.8	78

81	Boosting Apoptotic Cell Clearance by Colonic Epithelial Cells Attenuates Inflammation In Vivo. <i>Immunity</i> , 2016 , 44, 807-20	32.3	75
80	Dock180-ELMO cooperation in Rac activation. <i>Methods in Enzymology</i> , 2006 , 406, 388-402	1.7	70
79	Apoptotic cells trigger a membrane-initiated pathway to increase ABCA1. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2748-58	15.9	64
78	Metabolic vulnerabilities in endometrial cancer. <i>Cancer Research</i> , 2014 , 74, 5832-45	10.1	62
77	Regulation of the immune response by SHIP. <i>Seminars in Immunology</i> , 2002 , 14, 37-47	10.7	53
76	CD47 Blockade as an Adjuvant Immunotherapy for Resectable Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2018 , 24, 1415-1425	12.9	52
75	How Mouse Macrophages Sense What Is Going On. <i>Frontiers in Immunology</i> , 2016 , 7, 204	8.4	52
74	G2A deficiency in mice promotes macrophage activation and atherosclerosis. <i>Circulation Research</i> , 2009 , 104, 318-27	15.7	51
73	An essential role for calcium flux in phagocytes for apoptotic cell engulfment and the anti-inflammatory response. <i>Cell Death and Differentiation</i> , 2009 , 16, 1323-31	12.7	51
72	Pannexin 1 Channels as an Unexpected New Target of the Anti-Hypertensive Drug Spironolactone. <i>Circulation Research</i> , 2018 , 122, 606-615	15.7	50
71	Pannexin-1 channels on endothelial cells mediate vascular inflammation during lung ischemia-reperfusion injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018 , 315, L301-L312	5.8	49
70	A nonredundant role for the adapter protein Shc in thymic T cell development. <i>Nature Immunology</i> , 2002 , 3, 749-55	19.1	47
69	Loss of the RhoGAP SRGP-1 promotes the clearance of dead and injured cells in <i>Caenorhabditis elegans</i> . <i>Nature Cell Biology</i> , 2011 , 13, 79-86	23.4	45
68	Clearance of Dying Cells by Phagocytes: Mechanisms and Implications for Disease Pathogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 930, 25-49	3.6	44
67	Intrinsic properties and regulation of Pannexin 1 channel. <i>Channels</i> , 2014 , 8, 103-9	3	41
66	Astrocytic trans-Differentiation Completes a Multicellular Paracrine Feedback Loop Required for Medulloblastoma Tumor Growth. <i>Cell</i> , 2020 , 180, 502-520.e19	56.2	39
65	Brain-specific angiogenesis inhibitor-1 expression in astrocytes and neurons: implications for its dual function as an apoptotic engulfment receptor. <i>Brain, Behavior, and Immunity</i> , 2011 , 25, 915-21	16.6	38
64	Characterization of a novel interaction between ELMO1 and ERM proteins. <i>Journal of Biological Chemistry</i> , 2006 , 281, 5928-37	5.4	36

63	The adhesion GPCR BAI1 mediates macrophage ROS production and microbicidal activity against Gram-negative bacteria. <i>Science Signaling</i> , 2016 , 9, ra14	8.8	35
62	A systems perspective of ras signaling in cancer. <i>Clinical Cancer Research</i> , 2009 , 15, 1510-3	12.9	35
61	Phagocytic signaling: you can touch, but you can't eat. <i>Current Biology</i> , 2008 , 18, R521-4	6.3	35
60	Brain angiogenesis inhibitor 1 is expressed by gastric phagocytes during infection with <i>Helicobacter pylori</i> and mediates the recognition and engulfment of human apoptotic gastric epithelial cells. <i>FASEB Journal</i> , 2014 , 28, 2214-24	0.9	34
59	Hematopoietic pannexin 1 function is critical for neuropathic pain. <i>Scientific Reports</i> , 2017 , 7, 42550	4.9	33
58	The lipoprotein receptor-related protein-1 (LRP) adapter protein GULP mediates trafficking of the LRP ligand prosaposin, leading to sphingolipid and free cholesterol accumulation in late endosomes and impaired efflux. <i>Journal of Biological Chemistry</i> , 2006 , 281, 12081-92	5.4	33
57	Interpreting an apoptotic corpse as anti-inflammatory involves a chloride sensing pathway. <i>Nature Cell Biology</i> , 2019 , 21, 1532-1543	23.4	32
56	Integrin-linked kinase interactions with ELMO2 modulate cell polarity. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3033-43	3.5	30
55	Design and use of an inducibly activated human immunodeficiency virus type 1 Nef to study immune modulation. <i>Journal of Virology</i> , 2001 , 75, 834-43	6.6	28
54	Macrophages regulate the clearance of living cells by calreticulin. <i>Nature Communications</i> , 2018 , 9, 4644	17.4	28
53	The role of nucleotides in apoptotic cell clearance: implications for disease pathogenesis. <i>Journal of Molecular Medicine</i> , 2011 , 89, 13-22	5.5	27
52	Phosphatidylserine on viable sperm and phagocytic machinery in oocytes regulate mammalian fertilization. <i>Nature Communications</i> , 2019 , 10, 4456	17.4	25
51	Epithelial and Endothelial Pannexin1 Channels Mediate AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 1887-1899	12.7	25
50	Rethinking Phagocytes: Clues from the Retina and Testes. <i>Trends in Cell Biology</i> , 2018 , 28, 317-327	18.3	24
49	A conserved role for SNX9-family members in the regulation of phagosome maturation during engulfment of apoptotic cells. <i>PLoS ONE</i> , 2011 , 6, e18325	3.7	23
48	Neural-specific inactivation of ShcA results in increased embryonic neural progenitor apoptosis and microencephaly. <i>Journal of Neuroscience</i> , 2006 , 26, 7885-97	6.6	23
47	Adhesion GPCRs as Modulators of Immune Cell Function. <i>Handbook of Experimental Pharmacology</i> , 2016 , 234, 329-350	3.2	22
46	Apoptosis and engulfment by bronchial epithelial cells. Implications for allergic airway inflammation. <i>Annals of the American Thoracic Society</i> , 2014 , 11 Suppl 5, S259-62	4.7	22

45	Regulation of Arf6 and ACAP1 signaling by the PTB-domain-containing adaptor protein GULP. <i>Current Biology</i> , 2007 , 17, 722-7	6.3	22
44	Nuclear localization of the DOCK180/ELMO complex. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 429, 23-9	4.1	20
43	Cooperation between Noncanonical Ras Network Mutations. <i>Cell Reports</i> , 2015 , 10, 307-316	10.6	19
42	ELMO1 signaling in apoptotic germ cell clearance and spermatogenesis. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1209, 30-6	6.5	19
41	A noncanonical role for the engulfment gene ELMO1 in neutrophils that promotes inflammatory arthritis. <i>Nature Immunology</i> , 2019 , 20, 141-151	19.1	19
40	A Single-Agent Dual-Specificity Targeting of FOLR1 and DR5 as an Effective Strategy for Ovarian Cancer. <i>Cancer Cell</i> , 2018 , 34, 331-345.e11	24.3	18
39	ATP and large signaling metabolites flux through caspase-activated Pannexin 1 channels. <i>ELife</i> , 2021 , 10,	8.9	18
38	Epithelial HMGB1 Delays Skin Wound Healing and Drives Tumor Initiation by Priming Neutrophils for NET Formation. <i>Cell Reports</i> , 2019 , 29, 2689-2701.e4	10.6	16
37	Emerging roles of brain-specific angiogenesis inhibitor 1. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 706, 167-78	3.6	16
36	The adaptor protein GULP promotes Jedi-1-mediated phagocytosis through a clathrin-dependent mechanism. <i>Molecular Biology of the Cell</i> , 2014 , 25, 1925-36	3.5	15
35	Role of Shc in T-cell development and function. <i>Immunological Reviews</i> , 2003 , 191, 183-95	11.3	15
34	Context-dependent compensation among phosphatidylserine-recognition receptors. <i>Scientific Reports</i> , 2017 , 7, 14623	4.9	14
33	A key role for the phosphorylation of Ser440 by the cyclic AMP-dependent protein kinase in regulating the activity of the Src homology 2 domain-containing Inositol 5Rphosphatase (SHIP1). <i>Journal of Biological Chemistry</i> , 2010 , 285, 34839-49	5.4	13
32	Phosphatidylserine receptors: what is the new RAGE?. <i>EMBO Reports</i> , 2011 , 12, 287-8	6.5	11
31	Regulation of the Src homology 2 domain-containing inositol 5Rphosphatase (SHIP1) by the cyclic AMP-dependent protein kinase. <i>Journal of Biological Chemistry</i> , 2009 , 284, 20070-8	5.4	11
30	Putting the brakes on phagocytosis: "don't-eat-me" signaling in physiology and disease. <i>EMBO Reports</i> , 2021 , 22, e52564	6.5	11
29	A link between the cytoplasmic engulfment protein Elmo1 and the Mediator complex subunit Med31. <i>Current Biology</i> , 2013 , 23, 162-7	6.3	10
28	Unexpected phenotype of mice lacking Shcbp1, a protein induced during T cell proliferation. <i>PLoS ONE</i> , 2014 , 9, e105576	3.7	10

27	This way please! Apoptotic cells regulate phagocyte migration before and after engulfment. <i>European Journal of Immunology</i> , 2016 , 46, 1583-6	6.1	8
26	Mathematical investigation of how oncogenic ras mutants promote ras signaling. <i>Methods in Molecular Biology</i> , 2012 , 880, 69-85	1.4	8
25	The adaptor protein Shc plays a key role during early B cell development. <i>Journal of Immunology</i> , 2009 , 183, 5468-76	5.3	8
24	ShcA mediates the dominant pathway to extracellular signal-regulated kinase activation during early thymic development. <i>Molecular and Cellular Biology</i> , 2006 , 26, 9035-44	4.8	8
23	Microbes exploit death-induced nutrient release by gut epithelial cells. <i>Nature</i> , 2021 , 596, 262-267	50.4	7
22	Pannexin 1 channels in renin-expressing cells influence renin secretion and blood pressure homeostasis. <i>Kidney International</i> , 2020 , 98, 630-644	9.9	6
21	OTULIN maintains skin homeostasis by controlling keratinocyte death and stem cell identity. <i>Nature Communications</i> , 2021 , 12, 5913	17.4	6
20	ShcA regulates late stages of T cell development and peripheral CD4+ T cell numbers. <i>Journal of Immunology</i> , 2015 , 194, 1665-76	5.3	5
19	Death in the CNS: six-microns-under. <i>Cell</i> , 2008 , 133, 393-5	56.2	5
18	Using phosphatidylserine exposure on apoptotic cells to stimulate myoblast fusion. <i>Methods in Molecular Biology</i> , 2015 , 1313, 141-8	1.4	4
17	ShcA regulates thymocyte proliferation through specific transcription factors and a c-Abl-dependent signaling axis. <i>Molecular and Cellular Biology</i> , 2015 , 35, 1462-76	4.8	4
16	Mechanistic modeling to investigate signaling by oncogenic Ras mutants. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012 , 4, 117-27	6.6	4
15	Pannexin 1 channels facilitate communication between T cells to restrict the severity of airway inflammation. <i>Immunity</i> , 2021 , 54, 1715-1727.e7	32.3	4
14	Embryonic Trophoblasts: Neighborly Nibbling during Development. <i>Current Biology</i> , 2017 , 27, R68-R70	6.3	3
13	Ex vivo modulation of the Foxo1 phosphorylation state does not lead to dysfunction of T regulatory cells. <i>PLoS ONE</i> , 2017 , 12, e0173386	3.7	3
12	Pallbearer and friends: lending a hand in apoptotic cell clearance. <i>Trends in Cell Biology</i> , 2008 , 18, 95-7	18.3	2
11	Efferocytosis by Paneth cells within the intestine. <i>Current Biology</i> , 2021 , 31, 2469-2476.e5	6.3	2
10	Pannexin 1 drives efficient epithelial repair after tissue injury.. <i>Science Immunology</i> , 2022 , 7, eabm4032	28	2

9	Oxygenated lipids: a mode to WiPE out inflammation?. <i>Immunity</i> , 2012 , 36, 699-701	32.3	1
8	Deacetylation as a receptor-regulated direct activation switch for pannexin channels. <i>Nature Communications</i> , 2021 , 12, 4482	17.4	1
7	ELMO1 signaling is a promoter of osteoclast function and bone loss. <i>Nature Communications</i> , 2021 , 12, 4974	17.4	1
6	A20 deficiency in myeloid cells protects mice from diet-induced obesity and insulin resistance due to increased fatty acid metabolism. <i>Cell Reports</i> , 2021 , 36, 109748	10.6	1
5	Live cell tracking of macrophage efferocytosis during embryo development in vivo.. <i>Science</i> , 2022 , 375, 1182-1187	33.3	1
4	Drugging the efferocytosis process: concepts and opportunities. <i>Nature Reviews Drug Discovery</i> ,	64.1	1
3	Endothelial pannexin-1 channels modulate macrophage and smooth muscle cell activation in abdominal aortic aneurysm formation.. <i>Nature Communications</i> , 2022 , 13, 1521	17.4	0
2	Evolutionarily Conserved Pathways Regulating Engulfment of Apoptotic Cells 2009 , 147-162		
1	Response by Good et al to Letter Regarding Article, "Pannexin-1 Channels as an Unexpected New Target of the Antihypertensive Drug Spironolactone". <i>Circulation Research</i> , 2018 , 122, e88-e89	15.7	