

# Kodi S Ravichandran

## List of Publications by Year in Descending Order

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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.

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	Endothelial pannexin-1 channels modulate macrophage and smooth muscle cell activation in abdominal aortic aneurysm formation.. <i>Nature Communications</i> , <b>2022</b> , 13, 1521	17.4	0
133	Live cell tracking of macrophage efferocytosis during embryo development in vivo.. <i>Science</i> , <b>2022</b> , 375, 1182-1187	33.3	1
132	Pannexin 1 drives efficient epithelial repair after tissue injury.. <i>Science Immunology</i> , <b>2022</b> , 7, eabm4032	28	2
131	OTULIN maintains skin homeostasis by controlling keratinocyte death and stem cell identity. <i>Nature Communications</i> , <b>2021</b> , 12, 5913	17.4	6
130	Putting the brakes on phagocytosis: "don't-eat-me" signaling in physiology and disease. <i>EMBO Reports</i> , <b>2021</b> , 22, e52564	6.5	11
129	Efferocytosis by Paneth cells within the intestine. <i>Current Biology</i> , <b>2021</b> , 31, 2469-2476.e5	6.3	2
128	Deacetylation as a receptor-regulated direct activation switch for pannexin channels. <i>Nature Communications</i> , <b>2021</b> , 12, 4482	17.4	1
127	ATP and large signaling metabolites flux through caspase-activated Pannexin 1 channels. <i>ELife</i> , <b>2021</b> , 10,	8.9	18
126	ELMO1 signaling is a promoter of osteoclast function and bone loss. <i>Nature Communications</i> , <b>2021</b> , 12, 4974	17.4	1
125	Microbes exploit death-induced nutrient release by gut epithelial cells. <i>Nature</i> , <b>2021</b> , 596, 262-267	50.4	7
124	Pannexin 1 channels facilitate communication between T cells to restrict the severity of airway inflammation. <i>Immunity</i> , <b>2021</b> , 54, 1715-1727.e7	32.3	4
123	A20 deficiency in myeloid cells protects mice from diet-induced obesity and insulin resistance due to increased fatty acid metabolism. <i>Cell Reports</i> , <b>2021</b> , 36, 109748	10.6	1
122	Pannexin 1 channels in renin-expressing cells influence renin secretion and blood pressure homeostasis. <i>Kidney International</i> , <b>2020</b> , 98, 630-644	9.9	6
121	Metabolites released from apoptotic cells act as tissue messengers. <i>Nature</i> , <b>2020</b> , 580, 130-135	50.4	125
120	Astrocytic trans-Differentiation Completes a Multicellular Paracrine Feedback Loop Required for Medulloblastoma Tumor Growth. <i>Cell</i> , <b>2020</b> , 180, 502-520.e19	56.2	39
119	Phosphatidylserine on viable sperm and phagocytic machinery in oocytes regulate mammalian fertilization. <i>Nature Communications</i> , <b>2019</b> , 10, 4456	17.4	25
118	Living on the Edge: Efferocytosis at the Interface of Homeostasis and Pathology. <i>Immunity</i> , <b>2019</b> , 50, 1149-1162	32.3	94

117	Epithelial HMGB1 Delays Skin Wound Healing and Drives Tumor Initiation by Priming Neutrophils for NET Formation. <i>Cell Reports</i> , <b>2019</b> , 29, 2689-2701.e4	10.6	16
116	Interpreting an apoptotic corpse as anti-inflammatory involves a chloride sensing pathway. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 1532-1543	23.4	32
115	A noncanonical role for the engulfment gene ELMO1 in neutrophils that promotes inflammatory arthritis. <i>Nature Immunology</i> , <b>2019</b> , 20, 141-151	19.1	19
114	Rethinking Phagocytes: Clues from the Retina and Testes. <i>Trends in Cell Biology</i> , <b>2018</b> , 28, 317-327	18.3	24
113	CD47 Blockade as an Adjuvant Immunotherapy for Resectable Pancreatic Cancer. <i>Clinical Cancer Research</i> , <b>2018</b> , 24, 1415-1425	12.9	52
112	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> , <b>2018</b> , 315, L301-L312	5.8	49
111	A Single-Agent Dual-Specificity Targeting of FOLR1 and DR5 as an Effective Strategy for Ovarian Cancer. <i>Cancer Cell</i> , <b>2018</b> , 34, 331-345.e11	24.3	18
110	Epithelial and Endothelial Pannexin1 Channels Mediate AKI. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2018</b> , 29, 1887-1899	12.7	25
109	Pannexin 1 Channels as an Unexpected New Target of the Anti-Hypertensive Drug Spironolactone. <i>Circulation Research</i> , <b>2018</b> , 122, 606-615	15.7	50
108	Efferocytosis induces a novel SLC program to promote glucose uptake and lactate release. <i>Nature</i> , <b>2018</b> , 563, 714-718	50.4	115
107	Macrophages regulate the clearance of living cells by calreticulin. <i>Nature Communications</i> , <b>2018</b> , 9, 4644	17.4	28
106	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> , <b>2018</b> , 122, e88-e89	15.7	
105	A quantized mechanism for activation of pannexin channels. <i>Nature Communications</i> , <b>2017</b> , 8, 14324	17.4	87
104	Embryonic Trophocytosis: Neighborly Nibbling during Development. <i>Current Biology</i> , <b>2017</b> , 27, R68-R70	6.3	3
103	Hematopoietic pannexin 1 function is critical for neuropathic pain. <i>Scientific Reports</i> , <b>2017</b> , 7, 42550	4.9	33
102	Ex vivo modulation of the Foxo1 phosphorylation state does not lead to dysfunction of T regulatory cells. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173386	3.7	3
101	Context-dependent compensation among phosphatidylserine-recognition receptors. <i>Scientific Reports</i> , <b>2017</b> , 7, 14623	4.9	14
100	Clearance of Dying Cells by Phagocytes: Mechanisms and Implications for Disease Pathogenesis. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 930, 25-49	3.6	44

99	This way please! Apoptotic cells regulate phagocyte migration before and after engulfment. <i>European Journal of Immunology</i> , <b>2016</b> , 46, 1583-6	6.1	8
98	Adhesion GPCRs as Modulators of Immune Cell Function. <i>Handbook of Experimental Pharmacology</i> , <b>2016</b> , 234, 329-350	3.2	22
97	Macrophages redirect phagocytosis by non-professional phagocytes and influence inflammation. <i>Nature</i> , <b>2016</b> , 539, 570-574	50.4	121
96	Do not let death do us part: Find-me signals in communication between dying cells and the phagocytes. <i>Cell Death and Differentiation</i> , <b>2016</b> , 23, 979-89	12.7	91
95	The adhesion GPCR BAI1 mediates macrophage ROS production and microbicidal activity against Gram-negative bacteria. <i>Science Signaling</i> , <b>2016</b> , 9, ra14	8.8	35
94	How Mouse Macrophages Sense What Is Going On. <i>Frontiers in Immunology</i> , <b>2016</b> , 7, 204	8.4	52
93	Apoptotic cell recognition receptors and scavenger receptors. <i>Immunological Reviews</i> , <b>2016</b> , 269, 44-59	11.3	118
92	Boosting Apoptotic Cell Clearance by Colonic Epithelial Cells Attenuates Inflammation In Vivo. <i>Immunity</i> , <b>2016</b> , 44, 807-20	32.3	75
91	The Dynamics of Apoptotic Cell Clearance. <i>Developmental Cell</i> , <b>2016</b> , 38, 147-60	10.2	148
90	ShcA regulates late stages of T cell development and peripheral CD4+ T cell numbers. <i>Journal of Immunology</i> , <b>2015</b> , 194, 1665-76	5.3	5
89	A novel mechanism of generating extracellular vesicles during apoptosis via a beads-on-a-string membrane structure. <i>Nature Communications</i> , <b>2015</b> , 6, 7439	17.4	178
88	Pannexin 1 channels regulate leukocyte emigration through the venous endothelium during acute inflammation. <i>Nature Communications</i> , <b>2015</b> , 6, 7965	17.4	108
87	Phagocytosis of apoptotic cells in homeostasis. <i>Nature Immunology</i> , <b>2015</b> , 16, 907-17	19.1	413
86	Using phosphatidylserine exposure on apoptotic cells to stimulate myoblast fusion. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1313, 141-8	1.4	4
85	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , <b>2015</b> , 22, 58-73	12.7	643
84	A molecular signature in the pannexin1 intracellular loop confers channel activation by the $\beta$ adrenoreceptor in smooth muscle cells. <i>Science Signaling</i> , <b>2015</b> , 8, ra17	8.8	78
83	Cooperation between Noncanonical Ras Network Mutations. <i>Cell Reports</i> , <b>2015</b> , 10, 307-316	10.6	19
82	ShcA regulates thymocyte proliferation through specific transcription factors and a c-Abl-dependent signaling axis. <i>Molecular and Cellular Biology</i> , <b>2015</b> , 35, 1462-76	4.8	4

81	Apoptotic cells trigger a membrane-initiated pathway to increase ABCA1. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 2748-58	15.9	64
80	Unexpected link between an antibiotic, pannexin channels and apoptosis. <i>Nature</i> , <b>2014</b> , 507, 329-34	50.4	158
79	Identification of a novel mitochondrial uncoupler that does not depolarize the plasma membrane. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 114-23	8.8	118
78	Apoptotic cell clearance: basic biology and therapeutic potential. <i>Nature Reviews Immunology</i> , <b>2014</b> , 14, 166-80	36.5	710
77	Metabolic vulnerabilities in endometrial cancer. <i>Cancer Research</i> , <b>2014</b> , 74, 5832-45	10.1	62
76	Unexpected phenotype of mice lacking Shcbp1, a protein induced during T cell proliferation. <i>PLoS ONE</i> , <b>2014</b> , 9, e105576	3.7	10
75	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> , <b>2014</b> , 28, 2214-24	0.9	34
74	Apoptosis and engulfment by bronchial epithelial cells. Implications for allergic airway inflammation. <i>Annals of the American Thoracic Society</i> , <b>2014</b> , 11 Suppl 5, S259-62	4.7	22
73	The adaptor protein GULP promotes Jedi-1-mediated phagocytosis through a clathrin-dependent mechanism. <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 1925-36	3.5	15
72	Intrinsic properties and regulation of Pannexin 1 channel. <i>Channels</i> , <b>2014</b> , 8, 103-9	3	41
71	A link between the cytoplasmic engulfment protein Elmo1 and the Mediator complex subunit Med31. <i>Current Biology</i> , <b>2013</b> , 23, 162-7	6.3	10
70	Apoptotic cell clearance by bronchial epithelial cells critically influences airway inflammation. <i>Nature</i> , <b>2013</b> , 493, 547-51	50.4	206
69	Phosphatidylserine receptor BAI1 and apoptotic cells as new promoters of myoblast fusion. <i>Nature</i> , <b>2013</b> , 497, 263-7	50.4	194
68	Clearing the dead: apoptotic cell sensing, recognition, engulfment, and digestion. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2013</b> , 5, a008748	10.2	329
67	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> , <b>2012</b> , 287, 11303-11	5.4	184
66	Oxygenated lipids: a mode to WIPE out inflammation?. <i>Immunity</i> , <b>2012</b> , 36, 699-701	32.3	1
65	Mathematical investigation of how oncogenic ras mutants promote ras signaling. <i>Methods in Molecular Biology</i> , <b>2012</b> , 880, 69-85	1.4	8
64	Mechanistic modeling to investigate signaling by oncogenic Ras mutants. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2012</b> , 4, 117-27	6.6	4

63	Metabolic connections during apoptotic cell engulfment. <i>Cell</i> , <b>2011</b> , 147, 1442-5	56.2	90
62	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> , <b>2011</b> , 25, 915-21	16.6	38
61	Beginnings of a good apoptotic meal: the find-me and eat-me signaling pathways. <i>Immunity</i> , <b>2011</b> , 35, 445-55	32.3	374
60	Continued clearance of apoptotic cells critically depends on the phagocyte Ucp2 protein. <i>Nature</i> , <b>2011</b> , 477, 220-4	50.4	146
59	A conserved role for SNX9-family members in the regulation of phagosome maturation during engulfment of apoptotic cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e18325	3.7	23
58	Loss of the RhoGAP SRGP-1 promotes the clearance of dead and injured cells in <i>Caenorhabditis elegans</i> . <i>Nature Cell Biology</i> , <b>2011</b> , 13, 79-86	23.4	45
57	Phosphatidylserine receptors: what is the new RAGE?. <i>EMBO Reports</i> , <b>2011</b> , 12, 287-8	6.5	11
56	The role of nucleotides in apoptotic cell clearance: implications for disease pathogenesis. <i>Journal of Molecular Medicine</i> , <b>2011</b> , 89, 13-22	5.5	27
55	Pannexin1 regulates $\alpha$ -adrenergic receptor- mediated vasoconstriction. <i>Circulation Research</i> , <b>2011</b> , 109, 80-5	15.7	128
54	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> , <b>2011</b> , 108, 2136-41	11.5	102
53	Phagocytic activity of neuronal progenitors regulates adult neurogenesis. <i>Nature Cell Biology</i> , <b>2011</b> , 13, 1076-83	23.4	124
52	Identification of two evolutionarily conserved genes regulating processing of engulfed apoptotic cells. <i>Nature</i> , <b>2010</b> , 464, 778-82	50.4	198
51	Unexpected requirement for ELMO1 in clearance of apoptotic germ cells in vivo. <i>Nature</i> , <b>2010</b> , 467, 333-7	30.4	116
50	Pannexin 1 channels mediate find-me signal release and membrane permeability during apoptosis. <i>Nature</i> , <b>2010</b> , 467, 863-7	50.4	745
49	CXCR4 acts as a costimulator during thymic beta-selection. <i>Nature Immunology</i> , <b>2010</b> , 11, 162-70	19.1	128
48	ELMO1 signaling in apoptotic germ cell clearance and spermatogenesis. <i>Annals of the New York Academy of Sciences</i> , <b>2010</b> , 1209, 30-6	6.5	19
47	Clearance of apoptotic cells: implications in health and disease. <i>Journal of Cell Biology</i> , <b>2010</b> , 189, 1059-70	70.3	384
46	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 5-phosphatase (SHIP1). <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 34839-49	5.4	13

45	Identification of a novel macrophage phenotype that develops in response to atherogenic phospholipids via Nrf2. <i>Circulation Research</i> , <b>2010</b> , 107, 737-46	15.7	366
44	Find-me and eat-me signals in apoptotic cell clearance: progress and conundrums. <i>Journal of Experimental Medicine</i> , <b>2010</b> , 207, 1807-17	16.6	360
43	Emerging roles of brain-specific angiogenesis inhibitor 1. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 706, 167-78	3.6	16
42	Regulation of the Src homology 2 domain-containing inositol 5-phosphatase (SHIP1) by the cyclic AMP-dependent protein kinase. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 20070-8	5.4	11
41	The adaptor protein Shc plays a key role during early B cell development. <i>Journal of Immunology</i> , <b>2009</b> , 183, 5468-76	5.3	8
40	Integrin-linked kinase interactions with ELMO2 modulate cell polarity. <i>Molecular Biology of the Cell</i> , <b>2009</b> , 20, 3033-43	3.5	30
39	G2A deficiency in mice promotes macrophage activation and atherosclerosis. <i>Circulation Research</i> , <b>2009</b> , 104, 318-27	15.7	51
38	A systems perspective of ras signaling in cancer. <i>Clinical Cancer Research</i> , <b>2009</b> , 15, 1510-3	12.9	35
37	The phosphatidylserine receptor TIM-4 does not mediate direct signaling. <i>Current Biology</i> , <b>2009</b> , 19, 346-51	6.1	116
36	Nucleotides released by apoptotic cells act as a find-me signal to promote phagocytic clearance. <i>Nature</i> , <b>2009</b> , 461, 282-6	50.4	1040
35	An essential role for calcium flux in phagocytes for apoptotic cell engulfment and the anti-inflammatory response. <i>Cell Death and Differentiation</i> , <b>2009</b> , 16, 1323-31	12.7	51
34	Evolutionarily Conserved Pathways Regulating Engulfment of Apoptotic Cells <b>2009</b> , 147-162		
33	A pathway for phagosome maturation during engulfment of apoptotic cells. <i>Nature Cell Biology</i> , <b>2008</b> , 10, 556-66	23.4	200
32	Phagosome maturation: going through the acid test. <i>Nature Reviews Molecular Cell Biology</i> , <b>2008</b> , 9, 781-95	18.7	341
31	Phagocytic signaling: you can touch, but you can't eat. <i>Current Biology</i> , <b>2008</b> , 18, R521-4	6.3	35
30	Pallbearer and friends: lending a hand in apoptotic cell clearance. <i>Trends in Cell Biology</i> , <b>2008</b> , 18, 95-7	18.3	2
29	Death in the CNS: six-microns-under. <i>Cell</i> , <b>2008</b> , 133, 393-5	56.2	5
28	Engulfment of apoptotic cells: signals for a good meal. <i>Nature Reviews Immunology</i> , <b>2007</b> , 7, 964-74	36.5	500

27	BAI1 is an engulfment receptor for apoptotic cells upstream of the ELMO/Dock180/Rac module. <i>Nature</i> , <b>2007</b> , 450, 430-4	50.4	616
26	Regulation of Arf6 and ACAP1 signaling by the PTB-domain-containing adaptor protein GULP. <i>Current Biology</i> , <b>2007</b> , 17, 722-7	6.3	22
25	Network analysis of oncogenic Ras activation in cancer. <i>Science</i> , <b>2007</b> , 318, 463-7	33.3	97
24	ELMO1 and Dock180, a bipartite Rac1 guanine nucleotide exchange factor, promote human glioma cell invasion. <i>Cancer Research</i> , <b>2007</b> , 67, 7203-11	10.1	113
23	Journey to the grave: signaling events regulating removal of apoptotic cells. <i>Journal of Cell Science</i> , <b>2007</b> , 120, 2143-9	5.3	89
22	Apoptotic cells induce a phosphatidylserine-dependent homeostatic response from phagocytes. <i>Current Biology</i> , <b>2006</b> , 16, 2252-8	6.3	85
21	ShcA mediates the dominant pathway to extracellular signal-regulated kinase activation during early thymic development. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 9035-44	4.8	8
20	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> , <b>2006</b> , 281, 12081-92	5.4	33
19	Characterization of a novel interaction between ELMO1 and ERM proteins. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 5928-37	5.4	36
18	Neural-specific inactivation of ShcA results in increased embryonic neural progenitor apoptosis and microencephaly. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 7885-97	6.6	23
17	Dock180-ELMO cooperation in Rac activation. <i>Methods in Enzymology</i> , <b>2006</b> , 406, 388-402	1.7	70
16	c-Myb is critical for B cell development and maintenance of follicular B cells. <i>Immunity</i> , <b>2005</b> , 23, 275-86	32.3	141
15	A Steric-inhibition model for regulation of nucleotide exchange via the Dock180 family of GEFs. <i>Current Biology</i> , <b>2005</b> , 15, 371-7	6.3	87
14	The DOCK180/Elmo complex couples ARNO-mediated Arf6 activation to the downstream activation of Rac1. <i>Current Biology</i> , <b>2005</b> , 15, 1749-54	6.3	126
13	Dock180 and ELMO1 proteins cooperate to promote evolutionarily conserved Rac-dependent cell migration. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 6087-97	5.4	173
12	PH domain of ELMO functions in trans to regulate Rac activation via Dock180. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 756-62	17.6	100
11	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> , <b>2004</b> , 14, 2208-16	6.3	168
10	Nuclear localization of the DOCK180/ELMO complex. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 429, 23-9	4.1	20

9	Cues for apoptotic cell engulfment: eat-me, don't eat-me and come-get-me signals. <i>Trends in Cell Biology</i> , <b>2003</b> , 13, 648-56	18.3	189
8	Role of Shc in T-cell development and function. <i>Immunological Reviews</i> , <b>2003</b> , 191, 183-95	11.3	15
7	"Recruitment signals" from apoptotic cells: invitation to a quiet meal. <i>Cell</i> , <b>2003</b> , 113, 817-20	56.2	125
6	Engulfment of apoptotic cells is negatively regulated by Rho-mediated signaling. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 49911-9	5.4	116
5	A nonredundant role for the adapter protein Shc in thymic T cell development. <i>Nature Immunology</i> , <b>2002</b> , 3, 749-55	19.1	47
4	Regulation of the immune response by SHIP. <i>Seminars in Immunology</i> , <b>2002</b> , 14, 37-47	10.7	53
3	Signaling via Shc family adapter proteins. <i>Oncogene</i> , <b>2001</b> , 20, 6322-30	9.2	330
2	Design and use of an inducibly activated human immunodeficiency virus type 1 Nef to study immune modulation. <i>Journal of Virology</i> , <b>2001</b> , 75, 834-43	6.6	28
1	Drugging the efferocytosis process: concepts and opportunities. <i>Nature Reviews Drug Discovery</i> ,	64.1	1