

# Kodi S Ravichandran

## List of Publications by Year in descending order

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137  
papers

18,662  
citations

16451

64  
h-index

12946

131  
g-index

142  
all docs

142  
docs citations

142  
times ranked

22711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleotides released by apoptotic cells act as a find-me signal to promote phagocytic clearance. <i>Nature</i> , 2009, 461, 282-286.	27.8	1,335
2	Apoptotic cell clearance: basic biology and therapeutic potential. <i>Nature Reviews Immunology</i> , 2014, 14, 166-180.	22.7	952
3	Pannexin 1 channels mediate "find-me"™ signal release and membrane permeability during apoptosis. <i>Nature</i> , 2010, 467, 863-867.	27.8	929
4	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , 2015, 22, 58-73.	11.2	811
5	BAL1 is an engulfment receptor for apoptotic cells upstream of the ELMO/Dock180/Rac module. <i>Nature</i> , 2007, 450, 430-434.	27.8	714
6	Phagocytosis of apoptotic cells in homeostasis. <i>Nature Immunology</i> , 2015, 16, 907-917.	14.5	632
7	Engulfment of apoptotic cells: signals for a good meal. <i>Nature Reviews Immunology</i> , 2007, 7, 964-974.	22.7	571
8	Identification of a Novel Macrophage Phenotype That Develops in Response to Atherogenic Phospholipids via Nrf2. <i>Circulation Research</i> , 2010, 107, 737-746.	4.5	472
9	Beginnings of a Good Apoptotic Meal: The Find-Me and Eat-Me Signaling Pathways. <i>Immunity</i> , 2011, 35, 445-455.	14.3	463
10	Find-me and eat-me signals in apoptotic cell clearance: progress and conundrums. <i>Journal of Experimental Medicine</i> , 2010, 207, 1807-1817.	8.5	450
11	Phagosome maturation: going through the acid test. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 781-795.	37.0	447
12	Clearance of apoptotic cells: implications in health and disease. <i>Journal of Cell Biology</i> , 2010, 189, 1059-1070.	5.2	444
13	Clearing the Dead: Apoptotic Cell Sensing, Recognition, Engulfment, and Digestion. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a008748-a008748.	5.5	410
14	Signaling via Shc family adapter proteins. <i>Oncogene</i> , 2001, 20, 6322-6330.	5.9	368
15	A novel mechanism of generating extracellular vesicles during apoptosis via a beads-on-a-string membrane structure. <i>Nature Communications</i> , 2015, 6, 7439.	12.8	267
16	Metabolites released from apoptotic cells act as tissue messengers. <i>Nature</i> , 2020, 580, 130-135.	27.8	266
17	Apoptotic cell clearance by bronchial epithelial cells critically influences airway inflammation. <i>Nature</i> , 2013, 493, 547-551.	27.8	254
18	A pathway for phagosome maturation during engulfment of apoptotic cells. <i>Nature Cell Biology</i> , 2008, 10, 556-566.	10.3	243

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19	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, 11303-11311.	3.4	243
20	Phosphatidylserine receptor BAI1 and apoptotic cells as new promoters of myoblast fusion. <i>Nature</i> , 2013, 497, 263-267.	27.8	239
21	The Dynamics of Apoptotic Cell Clearance. <i>Developmental Cell</i> , 2016, 38, 147-160.	7.0	235
22	Identification of two evolutionarily conserved genes regulating processing of engulfed apoptotic cells. <i>Nature</i> , 2010, 464, 778-782.	27.8	224
23	Living on the Edge: Efferocytosis at the Interface of Homeostasis and Pathology. <i>Immunity</i> , 2019, 50, 1149-1162.	14.3	223
24	Unexpected link between an antibiotic, pannexin channels and apoptosis. <i>Nature</i> , 2014, 507, 329-334.	27.8	221
25	Efferocytosis induces a novel SLC program to promote glucose uptake and lactate release. <i>Nature</i> , 2018, 563, 714-718.	27.8	220
26	Cues for apoptotic cell engulfment: eat-me, don't eat-me and come-get-me signals. <i>Trends in Cell Biology</i> , 2003, 13, 648-656.	7.9	216
27	Continued clearance of apoptotic cells critically depends on the phagocyte Ucp2 protein. <i>Nature</i> , 2011, 477, 220-224.	27.8	202
28	Dock180 and ELMO1 Proteins Cooperate to Promote Evolutionarily Conserved Rac-dependent Cell Migration. <i>Journal of Biological Chemistry</i> , 2004, 279, 6087-6097.	3.4	193
29	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, 2208-2216.	3.9	185
30	Identification of a novel mitochondrial uncoupler that does not depolarize the plasma membrane. <i>Molecular Metabolism</i> , 2014, 3, 114-123.	6.5	168
31	c-Myb Is Critical for B Cell Development and Maintenance of Follicular B Cells. <i>Immunity</i> , 2005, 23, 275-286.	14.3	167
32	Macrophages redirect phagocytosis by non-professional phagocytes and influence inflammation. <i>Nature</i> , 2016, 539, 570-574.	27.8	165
33	Pannexin1 Regulates $\alpha$ 1-Adrenergic Receptor Mediated Vasoconstriction. <i>Circulation Research</i> , 2011, 109, 80-85.	4.5	164
34	Pannexin 1 channels regulate leukocyte emigration through the venous endothelium during acute inflammation. <i>Nature Communications</i> , 2015, 6, 7965.	12.8	159
35	Apoptotic cell recognition receptors and scavenger receptors. <i>Immunological Reviews</i> , 2016, 269, 44-59.	6.0	157
36	CXCR4 acts as a costimulator during thymic $\beta$ 2-selection. <i>Nature Immunology</i> , 2010, 11, 162-170.	14.5	155

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37	â€œRecruitment Signalsâ€ from Apoptotic Cells. <i>Cell</i> , 2003, 113, 817-820.	28.9	149
38	Phagocytic activity of neuronal progenitors regulates adult neurogenesis. <i>Nature Cell Biology</i> , 2011, 13, 1076-1083.	10.3	148
39	Unexpected requirement for ELMO1 in clearance of apoptotic germ cells in vivo. <i>Nature</i> , 2010, 467, 333-337.	27.8	143
40	The DOCK180/Elmo Complex Couples ARNO-Mediated Arf6 Activation to the Downstream Activation of Rac1. <i>Current Biology</i> , 2005, 15, 1749-1754.	3.9	142
41	Engulfment of Apoptotic Cells Is Negatively Regulated by Rho-mediated Signaling. <i>Journal of Biological Chemistry</i> , 2003, 278, 49911-49919.	3.4	138
42	The Phosphatidylserine Receptor TIM-4 Does Not Mediate Direct Signaling. <i>Current Biology</i> , 2009, 19, 346-351.	3.9	136
43	Do not let death do us part: â€find-meâ€™ signals in communication between dying cells and the phagocytes. <i>Cell Death and Differentiation</i> , 2016, 23, 979-989.	11.2	131
44	ELMO1 and Dock180, a Bipartite Rac1 Guanine Nucleotide Exchange Factor, Promote Human Glioma Cell Invasion. <i>Cancer Research</i> , 2007, 67, 7203-7211.	0.9	126
45	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, 2136-2141.	7.1	126
46	PH domain of ELMO functions in trans to regulate Rac activation via Dock180. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 756-762.	8.2	121
47	A quantized mechanism for activation of pannexin channels. <i>Nature Communications</i> , 2017, 8, 14324.	12.8	120
48	Network Analysis of Oncogenic Ras Activation in Cancer. <i>Science</i> , 2007, 318, 463-467.	12.6	114
49	Metabolic Connections during Apoptotic Cell Engulfment. <i>Cell</i> , 2011, 147, 1442-1445.	28.9	111
50	Journey to the grave: signaling events regulating removal of apoptotic cells. <i>Journal of Cell Science</i> , 2007, 120, 2143-2149.	2.0	110
51	A molecular signature in the pannexin1 intracellular loop confers channel activation by the $\beta$ 1 adrenoreceptor in smooth muscle cells. <i>Science Signaling</i> , 2015, 8, ra17.	3.6	109
52	Apoptotic Cells Induce a Phosphatidylserine-Dependent Homeostatic Response from Phagocytes. <i>Current Biology</i> , 2006, 16, 2252-2258.	3.9	103
53	How Mouse Macrophages Sense What Is Going On. <i>Frontiers in Immunology</i> , 2016, 7, 204.	4.8	99
54	Astrocytic trans-Differentiation Completes a Multicellular Paracrine Feedback Loop Required for Medulloblastoma Tumor Growth. <i>Cell</i> , 2020, 180, 502-520.e19.	28.9	99

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55	A Steric-Inhibition Model for Regulation of Nucleotide Exchange via the Dock180 Family of GEFs. <i>Current Biology</i> , 2005, 15, 371-377.	3.9	96
56	Boosting Apoptotic Cell Clearance by Colonic Epithelial Cells Attenuates Inflammation In Vivo. <i>Immunity</i> , 2016, 44, 807-820.	14.3	96
57	Drugging the efferocytosis process: concepts and opportunities. <i>Nature Reviews Drug Discovery</i> , 2022, 21, 601-620.	46.4	91
58	Metabolic Vulnerabilities in Endometrial Cancer. <i>Cancer Research</i> , 2014, 74, 5832-5845.	0.9	88
59	Apoptotic cells trigger a membrane-initiated pathway to increase ABCA1. <i>Journal of Clinical Investigation</i> , 2015, 125, 2748-2758.	8.2	86
60	Targeting SLC7A11 improves efferocytosis by dendritic cells and wound healing in diabetes. <i>Nature</i> , 2022, 606, 776-784.	27.8	86
61	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.	2.9	82
62	Dock180-ELMO Cooperation in Rac Activation. <i>Methods in Enzymology</i> , 2006, 406, 388-402.	1.0	80
63	Clearance of Dying Cells by Phagocytes: Mechanisms and Implications for Disease Pathogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2016, 930, 25-49.	1.6	80
64	Pannexin 1 Channels as an Unexpected New Target of the Anti-Hypertensive Drug Spironolactone. <i>Circulation Research</i> , 2018, 122, 606-615.	4.5	76
65	CD47 Blockade as an Adjuvant Immunotherapy for Resectable Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2018, 24, 1415-1425.	7.0	73
66	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, 1323-1331.	11.2	68
67	G2A Deficiency in Mice Promotes Macrophage Activation and Atherosclerosis. <i>Circulation Research</i> , 2009, 104, 318-327.	4.5	63
68	Interpreting an apoptotic corpse as anti-inflammatory involves a chloride sensing pathway. <i>Nature Cell Biology</i> , 2019, 21, 1532-1543.	10.3	61
69	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, 915-921.	4.1	59
70	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.	10.3	59
71	Regulation of the immune response by SHIP. <i>Seminars in Immunology</i> , 2002, 14, 37-47.	5.6	57
72	The adhesion GPCR BAI1 mediates macrophage ROS production and microbicidal activity against Gram-negative bacteria. <i>Science Signaling</i> , 2016, 9, ra14.	3.6	54

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73	Intrinsic properties and regulation of Pannexin 1 channel. <i>Channels</i> , 2014, 8, 103-109.	2.8	53
74	A nonredundant role for the adapter protein Shc in thymic T cell development. <i>Nature Immunology</i> , 2002, 3, 749-755.	14.5	51
75	Macrophages regulate the clearance of living cells by calreticulin. <i>Nature Communications</i> , 2018, 9, 4644.	12.8	50
76	ATP and large signaling metabolites flux through caspase-activated Pannexin 1 channels. <i>ELife</i> , 2021, 10, .	6.0	50
77	Hematopoietic pannexin 1 function is critical for neuropathic pain. <i>Scientific Reports</i> , 2017, 7, 42550.	3.3	49
78	Microbes exploit death-induced nutrient release by gut epithelial cells. <i>Nature</i> , 2021, 596, 262-267.	27.8	44
79	Rethinking Phagocytes: Clues from the Retina and Testes. <i>Trends in Cell Biology</i> , 2018, 28, 317-327.	7.9	43
80	Phosphatidylserine on viable sperm and phagocytic machinery in oocytes regulate mammalian fertilization. <i>Nature Communications</i> , 2019, 10, 4456.	12.8	43
81	Putting the brakes on phagocytosis: $\alpha$ -catenin signaling in physiology and disease. <i>EMBO Reports</i> , 2021, 22, e52564.	4.5	43
82	Phagocytic Signaling: You Can Touch, but You Can't Eat. <i>Current Biology</i> , 2008, 18, R521-R524.	3.9	42
83	A Systems Perspective of Ras Signaling in Cancer. <i>Clinical Cancer Research</i> , 2009, 15, 1510-1513.	7.0	42
84	Adhesion GPCRs as Modulators of Immune Cell Function. <i>Handbook of Experimental Pharmacology</i> , 2016, 234, 329-350.	1.8	42
85	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, 2214-2224.	0.5	41
86	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, 12081-12092.	3.4	39
87	Characterization of a Novel Interaction between ELMO1 and ERM Proteins. <i>Journal of Biological Chemistry</i> , 2006, 281, 5928-5937.	3.4	39
88	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.	6.4	39
89	Epithelial and Endothelial Pannexin1 Channels Mediate AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1887-1899.	6.1	38
90	Integrin-linked Kinase Interactions with ELMO2 Modulate Cell Polarity. <i>Molecular Biology of the Cell</i> , 2009, 20, 3033-3043.	2.1	30

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91	The role of nucleotides in apoptotic cell clearance: implications for disease pathogenesis. <i>Journal of Molecular Medicine</i> , 2011, 89, 13-22.	3.9	30
92	A noncanonical role for the engulfment gene ELMO1 in neutrophils that promotes inflammatory arthritis. <i>Nature Immunology</i> , 2019, 20, 141-151.	14.5	30
93	Live cell tracking of macrophage efferocytosis during <i>Drosophila</i> embryo development in vivo. <i>Science</i> , 2022, 375, 1182-1187.	12.6	30
94	Design and Use of an Inducibly Activated Human Immunodeficiency Virus Type 1 Nef To Study Immune Modulation. <i>Journal of Virology</i> , 2001, 75, 834-843.	3.4	29
95	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.	16.8	29
96	Apoptosis and Engulfment by Bronchial Epithelial Cells. Implications for Allergic Airway Inflammation. <i>Annals of the American Thoracic Society</i> , 2014, 11, S259-S262.	3.2	27
97	Pannexin 1 channels facilitate communication between T <sub>H</sub> cells to restrict the severity of airway inflammation. <i>Immunity</i> , 2021, 54, 1715-1727.e7.	14.3	27
98	Endothelial pannexin-1 channels modulate macrophage and smooth muscle cell activation in abdominal aortic aneurysm formation. <i>Nature Communications</i> , 2022, 13, 1521.	12.8	27
99	Regulation of Arf6 and ACAP1 Signaling by the PTB-Domain-Containing Adaptor Protein GULP. <i>Current Biology</i> , 2007, 17, 722-727.	3.9	26
100	Cooperation between Noncanonical Ras Network Mutations. <i>Cell Reports</i> , 2015, 10, 307-316.	6.4	26
101	Neural-Specific Inactivation of ShcA Results in Increased Embryonic Neural Progenitor Apoptosis and Microencephaly. <i>Journal of Neuroscience</i> , 2006, 26, 7885-7897.	3.6	25
102	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.	2.5	25
103	ELMO1 signaling in apoptotic germ cell clearance and spermatogenesis. <i>Annals of the New York Academy of Sciences</i> , 2010, 1209, 30-36.	3.8	23
104	Context-dependent compensation among phosphatidylserine-recognition receptors. <i>Scientific Reports</i> , 2017, 7, 14623.	3.3	23
105	Nuclear localization of the DOCK180/ELMO complex. <i>Archives of Biochemistry and Biophysics</i> , 2004, 429, 23-29.	3.0	21
106	OTULIN maintains skin homeostasis by controlling keratinocyte death and stem cell identity. <i>Nature Communications</i> , 2021, 12, 5913.	12.8	21
107	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 $\alpha$ -Phosphatase (SHIP1). <i>Journal of Biological Chemistry</i> , 2010, 285, 34839-34849.	3.4	20
108	Emerging Roles of Brain-Specific Angiogenesis Inhibitor 1. <i>Advances in Experimental Medicine and Biology</i> , 2010, 706, 167-178.	1.6	20

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109	The adaptor protein GULP promotes Jedi-1-mediated phagocytosis through a clathrin-dependent mechanism. <i>Molecular Biology of the Cell</i> , 2014, 25, 1925-1936.	2.1	18
110	Role of Shc in T-cell development and function. <i>Immunological Reviews</i> , 2003, 191, 183-195.	6.0	17
111	Pannexin 1 channels in renin-expressing cells influence renin secretion and blood pressure homeostasis. <i>Kidney International</i> , 2020, 98, 630-644.	5.2	17
112	Unexpected Phenotype of Mice Lacking Shcbp1, a Protein Induced during T Cell Proliferation. <i>PLoS ONE</i> , 2014, 9, e105576.	2.5	16
113	ELMO1 signaling is a promoter of osteoclast function and bone loss. <i>Nature Communications</i> , 2021, 12, 4974.	12.8	16
114	Efferocytosis by Paneth cells within the intestine. <i>Current Biology</i> , 2021, 31, 2469-2476.e5.	3.9	15
115	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.	6.4	14
116	Phosphatidylserine receptors: what is the new RAGE?. <i>EMBO Reports</i> , 2011, 12, 287-288.	4.5	13
117	Mathematical Investigation of How Oncogenic Ras Mutants Promote Ras Signaling. <i>Methods in Molecular Biology</i> , 2012, 880, 69-85.	0.9	13
118	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> , 2009, 284, 20070-20078.	3.4	12
119	A Link between the Cytoplasmic Engulfment Protein Elmo1 and the Mediator Complex Subunit Med31. <i>Current Biology</i> , 2013, 23, 162-167.	3.9	12
120	Deacetylation as a receptor-regulated direct activation switch for pannexin channels. <i>Nature Communications</i> , 2021, 12, 4482.	12.8	12
121	“This way please”: Apoptotic cells regulate phagocyte migration before and after engulfment. <i>European Journal of Immunology</i> , 2016, 46, 1583-1586.	2.9	11
122	Pannexin 1 drives efficient epithelial repair after tissue injury. <i>Science Immunology</i> , 2022, 7, eabm4032.	11.9	10
123	Mechanistic modeling to investigate signaling by oncogenic Ras mutants. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 117-127.	6.6	9
124	ShcA Mediates the Dominant Pathway to Extracellular Signal-Regulated Kinase Activation during Early Thymic Development. <i>Molecular and Cellular Biology</i> , 2006, 26, 9035-9044.	2.3	8
125	Death in the CNS: Six-Microns-Under. <i>Cell</i> , 2008, 133, 393-395.	28.9	8
126	The Adaptor Protein Shc Plays a Key Role during Early B Cell Development. <i>Journal of Immunology</i> , 2009, 183, 5468-5476.	0.8	8



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127	Using Phosphatidylserine Exposure on Apoptotic Cells to Stimulate Myoblast Fusion. <i>Methods in Molecular Biology</i> , 2015, 1313, 141-148.	0.9	6
128	Embryonic Trophoblasts: Neighborly Nibbling during Development. <i>Current Biology</i> , 2017, 27, R68-R70.	3.9	6
129	Phagocytosis: Sweet Repulsions via the Glycocalyx. <i>Current Biology</i> , 2021, 31, R20-R22.	3.9	6
130	ShcA Regulates Thymocyte Proliferation through Specific Transcription Factors and a c-Abl-Dependent Signaling Axis. <i>Molecular and Cellular Biology</i> , 2015, 35, 1462-1476.	2.3	5
131	ShcA Regulates Late Stages of T Cell Development and Peripheral CD4+ T Cell Numbers. <i>Journal of Immunology</i> , 2015, 194, 1665-1676.	0.8	5
132	Ex vivo modulation of the Foxo1 phosphorylation state does not lead to dysfunction of T regulatory cells. <i>PLoS ONE</i> , 2017, 12, e0173386.	2.5	5
133	A MERy Response After Myocardial Infarction. <i>Circulation Research</i> , 2013, 113, 949-951.	4.5	4
134	Pallbearer and friends: lending a hand in apoptotic cell clearance. <i>Trends in Cell Biology</i> , 2008, 18, 95-97.	7.9	2
135	Clearing Your Mind: Mechanisms of Debris Clearance After Cell Death During Neural Development. <i>Annual Review of Neuroscience</i> , 2022, 45, 177-198.	10.7	2
136	Oxygenated Lipids: A Mode to WIPE Out Inflammation?. <i>Immunity</i> , 2012, 36, 699-701.	14.3	1
137	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.	4.5	0