Richard J Youle

List of Publications by Year
in descending order

139	60,263	2523	10163
papers	citations	91 h-index	131 g-index

180	180	180	51992
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	STING induces HOIP-mediated synthesis of M1 ubiquitin chains to stimulate NF-Î¹B signaling. EMBO Journal, 2025, 44, 141-165.	7.4	0
2	Mitochondrial YME1L1 governs unoccupied protein translocase channels. Nature Cell Biology, 2025, 27, 309-321.	10.5	1
3	Loss of STING in parkin mutant flies suppresses muscle defects and mitochondria damage. PLoS Genetics, 2023, 19, e1010828.	3.3	11
4	Nix interacts with <scp>WIPI2</scp> to induce mitophagy. EMBO Journal, 2023, 42, .	7.4	14
5	Acute Manipulation of Outer Membrane Phospholipid Composition Directly Alters Mitochondrial Dynamics and Ultrastructure. FASEB Journal, 2022, 36, .	0.7	0
6	VPS13D promotes peroxisome biogenesis. Journal of Cell Biology, 2021, 220, .	4.8	47
7	Image-based pooled whole-genome CRISPRi screening for subcellular phenotypes. Journal of Cell Biology, 2021, 220, .	4.8	43
8	Mitochondrial Quality Control and Restraining Innate Immunity. Annual Review of Cell and Developmental Biology, 2020, 36, 265-289.	10.1	80
9	Mitochondrial damage-associated inflammation highlights biomarkers in PRKN/PINK1 parkinsonism. Brain, 2020, 143, 3041-3051.	8.9	127
10	Loss of TAX1BP1-Directed Autophagy Results in Protein Aggregate Accumulation in the Brain. Molecular Cell, 2020, 80, 779-795.e10.	14.2	91
11	Two different axes CALCOCO2-RB1CC1 and OPTN-ATG9A initiate PRKN-mediated mitophagy. Autophagy, 2020, 16, 2105-2107.	13.8	28
12	Ubiquitin signaling in neurodegenerative diseases: an autophagy and proteasome perspective. Cell Death and Differentiation, 2020, 28, 439-454.	13.7	54
13	ULK complex organization in autophagy by a C-shaped FIP200 N-terminal domain dimer. Journal of Cell Biology, 2020, 219, .	4.8	58
14	STING induces LC3B lipidation onto single-membrane vesicles via the V-ATPase and ATG16L1-WD40 domain. Journal of Cell Biology, 2020, 219, .	4.8	107
15	Mitochondriaâ€"Striking a balance between host and endosymbiont. Science, 2019, 365, .	38.2	137
16	PINK1/Parkin Influences Cell Cycle by Sequestering TBK1 at Damaged Mitochondria, Inhibiting Mitosis. Cell Reports, 2019, 29, 225-235.e5.	6.4	62
17	Reciprocal Roles of Tom7 and OMA1 during Mitochondrial Import and Activation of PINK1. Molecular Cell, 2019, 73, 1028-1043.e5.	14.2	113
18	Neurolastin, a dynamin family GTPase, translocates to mitochondria upon neuronal stress and alters mitochondrial morphology in vivo. Journal of Biological Chemistry, 2019, 294, 11498-11512.	2.3	1

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19	Spatiotemporal Control of ULK1 Activation by NDP52 and TBK1 during Selective Autophagy. Molecular Cell, 2019, 74, 347-362.e6.	14.2	313
20	Mitophagy and Quality Control Mechanisms inÂMitochondrial Maintenance. Current Biology, 2018, 28, R170-R185.	3.9	1,383
21	Parkin mediates mitophagy during beige-to-white fat conversion. Science Signaling, 2018, 11, .	5.5	14
22	Deleterious mitochondrial DNA point mutations are overrepresented in Drosophila expressing a proofreading-defective DNA polymerase Î³. PLoS Genetics, 2018, 14, e1007805.	3.3	29
23	Active state of Parkin. Nature Structural and Molecular Biology, 2018, 25, 644-646.	6.4	3
24	PINK1 import regulation; a fine system to convey mitochondrial stress to the cytosol. BMC Biology, 2018, 16, .	4.0	233
25	Parkin and PINK1 mitigate STING-induced inflammation. Nature, 2018, 561, 258-262.	40.1	954
26	Author response: Molecular and topological reorganizations in mitochondrial architecture interplay during Bax-mediated steps of apoptosis. , 2018, , .		0
27	Fluorescenceâ€based <scp>ATG</scp>8 sensors monitor localization and function of <scp>LC</scp>3/<scp>GABARAP</scp> proteins. EMBO Journal, 2017, 36, 549-564.	7.4	38
28	Mitochondrial fission facilitates the selective mitophagy of protein aggregates. Journal of Cell Biology, 2017, 216, 3231-3247.	4.8	356
29	Author response: Endosomal Rab cycles regulate Parkin-mediated mitophagy. , 2017, , .		0
30	Phosphorylation of OPTN by TBK1 enhances its binding to Ub chains and promotes selective autophagy of damaged mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4039-4044.	7.7	556
31	The Mitochondrial Basis of Aging. Molecular Cell, 2016, 61, 654-666.	14.2	1,006
32	Mitochondrial Function, Biology, and Role in Disease. Circulation Research, 2016, 118, 1960-1991.	12.8	348
33	Form follows function for mitochondria. Nature, 2016, 530, 288-289.	40.1	38
34	Characterization of the membrane-inserted C-terminus of cytoprotective BCL-XL. Protein Expression and Purification, 2016, 122, 56-63.	1.3	17
35	Chemogenomic Profiling of Endogenous PARK2 Expression Using a Genome-Edited Coincidence Reporter. ACS Chemical Biology, 2015, 10, 1188-1197.	3.9	44
36	The Roles of PINK1, Parkin, and Mitochondrial Fidelity in Parkinsonâ€™s Disease. Neuron, 2015, 85, 257-273.	12.8	1,629

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37	MiT/TFE transcription factors are activated during mitophagy downstream of Parkin and Atg5. Journal of Cell Biology, 2015, 210, 435-450.	4.8	225
38	Endogenous Parkin Preserves Dopaminergic Substantia Nigral Neurons following Mitochondrial DNA Mutagenic Stress. Neuron, 2015, 87, 371-381.	12.8	276
39	Conformation of BCL-XL upon Membrane Integration. Journal of Molecular Biology, 2015, 427, 2262-2270.	4.2	49
40	The ubiquitin kinase PINK1 recruits autophagy receptors to induce mitophagy. Nature, 2015, 524, 309-314.	40.1	2,000
41	Mutations in Fis1 disrupt orderly disposal of defective mitochondria. Molecular Biology of the Cell, 2014, 25, 145-159.	2.5	168
42	PINK1 phosphorylates ubiquitin to activate Parkin E3 ubiquitin ligase activity. Journal of Cell Biology, 2014, 205, 143-153.	4.8	999
43	Self and Nonself: How Autophagy Targets Mitochondria and Bacteria. Cell Host and Microbe, 2014, 15, 403-411.	15.2	233
44	Author response: Mitochondrial Rab GAPs govern autophagosome biogenesis during mitophagy. , 2014, , .		2
45	Sequestration and autophagy of mitochondria do not cut proteins across the board. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6252-6253.	7.7	5
46	Involvement of mitochondrial dynamics in the segregation of mitochondrial matrix proteins during stationary phase mitophagy. Nature Communications, 2013, 4, .	14.1	87
47	High-content genome-wide RNAi screens identify regulators of parkin upstream of mitophagy. Nature, 2013, 504, 291-295.	40.1	286
48	PINK1 rendered temperature sensitive by disease-associated and engineered mutations. Human Molecular Genetics, 2013, 22, 2572-2589.	3.1	22
49	Mitochondrial Disease: mtDNA and Protein Segregation Mysteries in iPSCs. Current Biology, 2013, 23, R1052-R1054.	3.9	9
50	PINK1 drives Parkin self-association and HECT-like E3 activity upstream of mitochondrial binding. Journal of Cell Biology, 2013, 200, 163-172.	4.8	203
51	Role of Membrane Association and Atg14-Dependent Phosphorylation in Beclin-1-Mediated Autophagy. Molecular and Cellular Biology, 2013, 33, 3675-3688.	2.5	83
52	The accumulation of misfolded proteins in the mitochondrial matrix is sensed by PINK1 to induce PARK2/Parkin-mediated mitophagy of polarized mitochondria. Autophagy, 2013, 9, 1750-1757.	13.8	327
53	PINK1 is degraded through the N-end rule pathway. Autophagy, 2013, 9, 1758-1769.	13.8	507
54	Mitophagy as a quality control mechanism in Saccharomyces cerevisiae. FASEB Journal, 2013, 27, .	0.7	0

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55	PINK1- and Parkin-mediated mitophagy at a glance. Journal of Cell Science, 2012, 125, 795-799.	3.2	468
56	Mitochondrial Quality Control Mediated by PINK1 and Parkin: Links to Parkinsonism. Cold Spring Harbor Perspectives in Biology, 2012, 4, a011338-a011338.	7.4	267
57	Polyubiquitin-sensor proteins reveal localization and linkage-type dependence of cellular ubiquitin signaling. Nature Methods, 2012, 9, 303-309.	14.5	96
58	Structural mechanism of Bax inhibition by cytomegalovirus protein vMIA. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20901-20906.	7.7	52
59	Anti-apoptotic MCL-1 localizes to the mitochondrial matrix and couples mitochondrial fusionÂto respiration. Nature Cell Biology, 2012, 14, 575-583.	10.5	327
60	Mitochondrial Fission, Fusion, and Stress. Science, 2012, 337, 1062-1065.	38.2	2,667
61	Role of PINK1 Binding to the TOM Complex and Alternate Intracellular Membranes in Recruitment and Activation of the E3 Ligase Parkin. Developmental Cell, 2012, 22, 320-333.	7.8	522
62	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	13.8	2,928
63	Damage control â€" How the PINK1/Parkin pathway can regulate removal of impaired mitochondria by autophagy. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S3.	0.6	0
64	Balancing cell growth and death. Current Opinion in Cell Biology, 2012, 24, 802-803.	4.2	10
65	Mitochondrial Dynamics and Apoptosis. , 2011, , 109-138.		3
66	Bcl-xL Retrotranslocates Bax from the Mitochondria into the Cytosol. Cell, 2011, 145, 104-116.	35.1	496
67	Mitochondria in Apoptosis: Bcl-2 Family Members and Mitochondrial Dynamics. Developmental Cell, 2011, 21, 92-101.	7.8	1,141
68	The Soluble Form of Bax Regulates Mitochondrial Fusion via MFN2 Homotypic Complexes. Molecular Cell, 2011, 41, 150-160.	14.2	192
69	Hsp90-Cdc37 Chaperone Complex Regulates Ulk1- and Atg13-Mediated Mitophagy. Molecular Cell, 2011, 43, 572-585.	14.2	202
70	Regulating mitochondrial outer membrane proteins by ubiquitination and proteasomal degradation. Current Opinion in Cell Biology, 2011, 23, 476-482.	4.2	205
71	Targeting Mitochondrial Dysfunction: Role for PINK1 and Parkin in Mitochondrial Quality Control. Antioxidants and Redox Signaling, 2011, 14, 1929-1938.	6.4	311
72	A Systematic Search for Endoplasmic Reticulum (ER) Membrane-associated RING Finger Proteins Identifies Nixin/ZNRF4 as a Regulator of Calnexin Stability and ER Homeostasis. Journal of Biological Chemistry, 2011, 286, 8633-8643.	2.3	52

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73	Parkin is a lipid-responsive regulator of fat uptake in mice and mutant human cells. Journal of Clinical Investigation, 2011, 121, 3701-3712.	9.1	172
74	Role of the mitochondrial kinase Pink1 in Parkin recruitment and mitophagy. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 141.	0.6	0
75	IBRDC2, an IBR-type E3 ubiquitin ligase, is a regulatory factor for Bax and apoptosis activation. EMBO Journal, 2010, 29, 1458-1471.	7.4	67
76	Mitochondrial fission and fusion. Essays in Biochemistry, 2010, 47, 85-98.	5.3	207
77	Mff is an essential factor for mitochondrial recruitment of Drp1 during mitochondrial fission in mammalian cells. Journal of Cell Biology, 2010, 191, 1141-1158.	4.8	878
78	Parkin overexpression selects against a deleterious mtDNA mutation in heteroplasmic cybrid cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11835-11840.	7.7	277
79	Loss of MARCH5 mitochondrial E3 ubiquitin ligase induces cellular senescence through dynamin-related protein 1 and mitofusin 1. Journal of Cell Science, 2010, 123, 619-626.	3.2	194
80	p62/SQSTM1 is required for Parkin-induced mitochondrial clustering but not mitophagy; VDAC1 is dispensable for both. Autophagy, 2010, 6, 1090-1106.	13.8	658
81	Mitochondrial membrane potential regulates PINK1 import and proteolytic destabilization by PARL. Journal of Cell Biology, 2010, 191, 933-942.	4.8	1,057
82	Proteasome and p97 mediate mitophagy and degradation of mitofusins induced by Parkin. Journal of Cell Biology, 2010, 191, 1367-1380.	4.8	1,134
83	PINK1 Is Selectively Stabilized on Impaired Mitochondria to Activate Parkin. PLoS Biology, 2010, 8, e1000298.	5.2	2,294
84	Mechanisms of mitophagy. Nature Reviews Molecular Cell Biology, 2010, 12, 9-14.	31.4	2,577
85	Parkin-induced mitophagy in the pathogenesis of Parkinson disease. Autophagy, 2009, 5, 706-708.	13.8	194
86	Bax Activates Endophilin B1 Oligomerization and Lipid Membrane Vesiculation. Journal of Biological Chemistry, 2009, 284, 34390-34399.	2.3	42
87	SLP-2 is required for stress-induced mitochondrial hyperfusion. EMBO Journal, 2009, 28, 1589-1600.	7.4	612
88	The Role of Mitochondria in Apoptosis. Annual Review of Genetics, 2009, 43, 95-118.	7.7	1,520
89	Parkin is recruited selectively to impaired mitochondria and promotes their autophagy. Journal of Cell Biology, 2008, 183, 795-803.	4.8	3,197
90	Role of the Ubiquitin Conjugation System in the Maintenance of Mitochondrial Homeostasis. Annals of the New York Academy of Sciences, 2008, 1147, 242-253.	4.5	65

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91	The BCL-2 protein family: opposing activities that mediate cell death. Nature Reviews Molecular Cell Biology, 2008, 9, 47-59.	31.4	3,744
92	Endosome fusion induced by diphtheria toxin translocation domain. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8020-8025.	7.7	12
93	Mitochondrial dynamics and apoptosis. Genes and Development, 2008, 22, 1577-1590.	4.8	1,039
94	Cytomegalovirus Proteins vMIA and m38.5 Link Mitochondrial Morphogenesis to Bcl-2 Family Proteins. Journal of Virology, 2008, 82, 6232-6243.	3.6	70
95	OPA1 mutations associated with dominant optic atrophy impair oxidative phosphorylation and mitochondrial fusion. Brain, 2008, 131, 352-367.	8.9	281
96	Mitochondrial Fission and Fusion Mediators, hFis1 and OPA1, Modulate Cellular Senescence. Journal of Biological Chemistry, 2007, 282, 22977-22983.	2.3	235
97	The mitochondrial E3 ubiquitin ligase MARCH5 is required for Drp1 dependent mitochondrial division. Journal of Cell Biology, 2007, 178, 71-84.	4.8	403
98	Role of Mitochondrial Remodeling in Programmed Cell Death in Drosophila melanogaster. Developmental Cell, 2007, 12, 807-816.	7.8	109
99	Outer Mitochondrial Membrane Protein Degradation by the Proteasome. Novartis Foundation Symposium, 2007, , 4-20.	1.0	63
100	State of GTPase cycle dictates mobility and localization of large mitochondrial GTPases, Mfn1 and 2. FASEB Journal, 2007, 21, .	0.7	0
101	Role of Bax and Bak in mitochondrial morphogenesis. Nature, 2006, 443, 658-662.	40.1	549
102	Nitric oxide-induced mitochondrial fission is regulated by dynamin-related GTPases in neurons. EMBO Journal, 2006, 25, 3900-3911.	7.4	580
103	How do Bax and Bak lead to permeabilization of the outer mitochondrial membrane?. Current Opinion in Cell Biology, 2006, 18, 685-689.	4.2	234
104	Mitochondrial fission in apoptosis. Nature Reviews Molecular Cell Biology, 2005, 6, 657-663.	31.4	660
105	Loss of Bif-1 Suppresses Bax/Bak Conformational Change and Mitochondrial Apoptosis. Molecular and Cellular Biology, 2005, 25, 9369-9382.	2.5	161
106	Bid, but Not Bax, Regulates VDAC Channels. Journal of Biological Chemistry, 2004, 279, 13575-13583.	2.3	166
107	Endophilin B1 is required for the maintenance of mitochondrial morphology. Journal of Cell Biology, 2004, 166, 1027-1039.	4.8	221
108	Cytomegalovirus cell death suppressor vMIA blocks Bax- but not Bak-mediated apoptosis by binding and sequestering Bax at mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7988-7993.	7.7	176

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109	Bcl-xL sequesters its C-terminal membrane anchor in soluble, cytosolic homodimers. EMBO Journal, 2004, 23, 2146-2155.	7.4	139
110	Roles of the Mammalian Mitochondrial Fission and Fusion Mediators Fis1, Drp1, and Opa1 in Apoptosis. Molecular Biology of the Cell, 2004, 15, 5001-5011.	2.5	892
111	Quantitation of mitochondrial dynamics by photolabeling of individual organelles shows that mitochondrial fusion is blocked during the Bax activation phase of apoptosis. Journal of Cell Biology, 2004, 164, 493-499.	4.8	376
112	Drp-1-Dependent Division of the Mitochondrial Network Blocks Intraorganellar Ca2+ Waves and Protects against Ca2+-Mediated Apoptosis. Molecular Cell, 2004, 16, 59-68.	14.2	413
113	The Solution Structure of Human Mitochondria Fission Protein Fis1 Reveals a Novel TPR-like Helix Bundle. Journal of Molecular Biology, 2003, 334, 445-458.	4.2	132
114	Mitochondrial release of AIF and EndoG requires caspase activation downstream of Bax/Bak-mediated permeabilization. EMBO Journal, 2003, 22, 4385-4399.	7.4	373
115	JNK-Mediated BIM Phosphorylation Potentiates BAX-Dependent Apoptosis. Neuron, 2003, 38, 899-914.	12.8	454
116	Mitofusin-1 protein is a generally expressed mediator of mitochondrial fusion in mammalian cells. Journal of Cell Science, 2003, 116, 2763-2774.	3.2	357
117	The permeability transition pore signals apoptosis by directing Bax translocation and multimerization. FASEB Journal, 2002, 16, 607-609.	0.7	222
118	Spatial and temporal association of Bax with mitochondrial fission sites, Drp1, and Mfn2 during apoptosis. Journal of Cell Biology, 2002, 159, 931-938.	4.8	706
119	The Role of Dynamin-Related Protein 1, a Mediator of Mitochondrial Fission, in Apoptosis. Developmental Cell, 2001, 1, 515-525.	7.8	1,503
120	Bax and Bak Coalesce into Novel Mitochondria-Associated Clusters during Apoptosis. Journal of Cell Biology, 2001, 153, 1265-1276.	4.8	402
121	Title is missing!. Journal of Bioenergetics and Biomembranes, 2000, 32, 35-46.	2.7	137
122	p38 Map Kinase Mediates Bax Translocation in Nitric Oxideâ€“Induced Apoptosis in Neurons. Journal of Cell Biology, 2000, 150, 335-348.	4.8	353
123	Structure of Bax. Cell, 2000, 103, 645-654.	35.1	957
124	Engineering receptor-mediated cytotoxicity into human ribonucleases by steric blockade of inhibitor interaction. Nature Biotechnology, 1999, 17, 265-270.	18.1	65
125	Title is missing!. Journal of Biomolecular NMR, 1999, 15, 343-344.	2.0	2
126	Conformation of the Bax C-terminus regulates subcellular location and cell death. EMBO Journal, 1999, 18, 2330-2341.	7.4	635

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127	The role of 2â€²-5â€² oligoadenylate-activated ribonucleaseâ€‰L in apoptosis. Cell Death and Differentiation, 1998, 5, 313-320.	13.7	160
128	Bax in Murine Thymus Is a Soluble Monomeric Protein That Displays Differential Detergent-induced Conformations. Journal of Biological Chemistry, 1998, 273, 10777-10783.	2.3	445
129	Movement of Bax from the Cytosol to Mitochondria during Apoptosis. Journal of Cell Biology, 1997, 139, 1281-1292.	4.8	1,585
130	A Study of the Interferon Antiviral Mechanism: Apoptosis Activation by the 2â€“5A System. Journal of Experimental Medicine, 1997, 186, 967-972.	8.1	234
131	Nonionic Detergents Induce Dimerization among Members of the Bcl-2 Family. Journal of Biological Chemistry, 1997, 272, 13829-13834.	2.3	517
132	Tumor regression with regional distribution of the targeted toxin TF-CRM107 in patients with malignant brain tumors. Nature Medicine, 1997, 3, 1362-1368.	25.6	434
133	Role of the N Terminus in RNase A Homologues: Differences in Catalytic Activity, Ribonuclease Inhibitor Interaction and Cytotoxicity. Journal of Molecular Biology, 1996, 257, 992-1007.	4.2	178
134	In situ labeling of granule cells for apoptosis-associated DNA fragmentation reveals different mechanisms of cell loss in developing cerebellum. Neuron, 1993, 11, 621-632.	12.8	311
135	Cytotoxic onconase and ribonuclease a chimeras: comparison andin vitrocharacterization. Drug Delivery, 1993, 1, 3-10.	7.9	23
136	Apoptosis and DNA degradation induced by 1-methyl-4-phenylpyridinium in neurons. Biochemical and Biophysical Research Communications, 1991, 181, 1442-1448.	2.1	210
137	Mitochondrial Rab GAPs govern autophagosome biogenesis during mitophagy. ELife, 0, 3, .	1.6	239
138	Endosomal Rab cycles regulate Parkin-mediated mitophagy. ELife, 0, 7, .	1.6	115
139	Molecular and topological reorganizations in mitochondrial architecture interplay during Bax-mediated steps of apoptosis. ELife, 0, 8, .	1.6	75