

# Richard J Youle

## List of Publications by Year in descending order

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135  
papers

61,778  
citations

3334

91  
h-index

12946

131  
g-index

170  
all docs

170  
docs citations

170  
times ranked

50673  
citing authors

#	ARTICLE	IF	CITATIONS
1	The BCL-2 protein family: opposing activities that mediate cell death. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 47-59.	37.0	3,898
2	Parkin is recruited selectively to impaired mitochondria and promotes their autophagy. <i>Journal of Cell Biology</i> , 2008, 183, 795-803.	5.2	3,315
3	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
4	Mitochondrial Fission, Fusion, and Stress. <i>Science</i> , 2012, 337, 1062-1065.	12.6	2,645
5	Mechanisms of mitophagy. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 9-14.	37.0	2,638
6	PINK1 Is Selectively Stabilized on Impaired Mitochondria to Activate Parkin. <i>PLoS Biology</i> , 2010, 8, e1000298.	5.6	2,299
7	The ubiquitin kinase PINK1 recruits autophagy receptors to induce mitophagy. <i>Nature</i> , 2015, 524, 309-314.	27.8	1,969
8	Movement of Bax from the Cytosol to Mitochondria during Apoptosis. <i>Journal of Cell Biology</i> , 1997, 139, 1281-1292.	5.2	1,667
9	The Roles of PINK1, Parkin, and Mitochondrial Fidelity in Parkinson's Disease. <i>Neuron</i> , 2015, 85, 257-273.	8.1	1,632
10	The Role of Dynamin-Related Protein 1, a Mediator of Mitochondrial Fission, in Apoptosis. <i>Developmental Cell</i> , 2001, 1, 515-525.	7.0	1,564
11	The Role of Mitochondria in Apoptosis. <i>Annual Review of Genetics</i> , 2009, 43, 95-118.	7.6	1,503
12	Mitophagy and Quality Control Mechanisms in Mitochondrial Maintenance. <i>Current Biology</i> , 2018, 28, R170-R185.	3.9	1,262
13	Mitochondria in Apoptosis: Bcl-2 Family Members and Mitochondrial Dynamics. <i>Developmental Cell</i> , 2011, 21, 92-101.	7.0	1,198
14	Proteasome and p97 mediate mitophagy and degradation of mitofusins induced by Parkin. <i>Journal of Cell Biology</i> , 2010, 191, 1367-1380.	5.2	1,161
15	Mitochondrial dynamics and apoptosis. <i>Genes and Development</i> , 2008, 22, 1577-1590.	5.9	1,080
16	Mitochondrial membrane potential regulates PINK1 import and proteolytic destabilization by PARL. <i>Journal of Cell Biology</i> , 2010, 191, 933-942.	5.2	1,078
17	The Mitochondrial Basis of Aging. <i>Molecular Cell</i> , 2016, 61, 654-666.	9.7	1,011
18	Structure of Bax. <i>Cell</i> , 2000, 103, 645-654.	28.9	1,008

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19	PINK1 phosphorylates ubiquitin to activate Parkin E3 ubiquitin ligase activity. <i>Journal of Cell Biology</i> , 2014, 205, 143-153.	5.2	1,004
20	Roles of the Mammalian Mitochondrial Fission and Fusion Mediators Fis1, Drp1, and Opa1 in Apoptosis. <i>Molecular Biology of the Cell</i> , 2004, 15, 5001-5011.	2.1	920
21	Mff is an essential factor for mitochondrial recruitment of Drp1 during mitochondrial fission in mammalian cells. <i>Journal of Cell Biology</i> , 2010, 191, 1141-1158.	5.2	919
22	Parkin and PINK1 mitigate STING-induced inflammation. <i>Nature</i> , 2018, 561, 258-262.	27.8	905
23	Spatial and temporal association of Bax with mitochondrial fission sites, Drp1, and Mfn2 during apoptosis. <i>Journal of Cell Biology</i> , 2002, 159, 931-938.	5.2	743
24	Mitochondrial fission in apoptosis. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 657-663.	37.0	681
25	Conformation of the Bax C-terminus regulates subcellular location and cell death. <i>EMBO Journal</i> , 1999, 18, 2330-2341.	7.8	667
26	p62/SQSTM1 is required for Parkin-induced mitochondrial clustering but not mitophagy; VDAC1 is dispensable for both. <i>Autophagy</i> , 2010, 6, 1090-1106.	9.1	663
27	SLP-2 is required for stress-induced mitochondrial hyperfusion. <i>EMBO Journal</i> , 2009, 28, 1589-1600.	7.8	639
28	Nitric oxide-induced mitochondrial fission is regulated by dynamin-related GTPases in neurons. <i>EMBO Journal</i> , 2006, 25, 3900-3911.	7.8	603
29	Role of Bax and Bak in mitochondrial morphogenesis. <i>Nature</i> , 2006, 443, 658-662.	27.8	579
30	Phosphorylation of OPTN by TBK1 enhances its binding to Ub chains and promotes selective autophagy of damaged mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4039-4044.	7.1	554
31	Nonionic Detergents Induce Dimerization among Members of the Bcl-2 Family. <i>Journal of Biological Chemistry</i> , 1997, 272, 13829-13834.	3.4	541
32	Role of PINK1 Binding to the TOM Complex and Alternate Intracellular Membranes in Recruitment and Activation of the E3 Ligase Parkin. <i>Developmental Cell</i> , 2012, 22, 320-333.	7.0	523
33	Tumor regression with regional distribution of the targeted toxin TF-CRM107 in patients with malignant brain tumors. <i>Nature Medicine</i> , 1997, 3, 1362-1368.	30.7	517
34	Bcl-xL Retrotranslocates Bax from the Mitochondria into the Cytosol. <i>Cell</i> , 2011, 145, 104-116.	28.9	512
35	PINK1 is degraded through the N-end rule pathway. <i>Autophagy</i> , 2013, 9, 1758-1769.	9.1	507
36	JNK-Mediated BIM Phosphorylation Potentiates BAX-Dependent Apoptosis. <i>Neuron</i> , 2003, 38, 899-914.	8.1	479

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37	Bax in Murine Thymus Is a Soluble Monomeric Protein That Displays Differential Detergent-induced Conformations. <i>Journal of Biological Chemistry</i> , 1998, 273, 10777-10783.	3.4	465
38	PINK1- and Parkin-mediated mitophagy at a glance. <i>Journal of Cell Science</i> , 2012, 125, 795-799.	2.0	465
39	Drp-1-Dependent Division of the Mitochondrial Network Blocks Intraorganellar Ca <sup>2+</sup> Waves and Protects against Ca <sup>2+</sup> -Mediated Apoptosis. <i>Molecular Cell</i> , 2004, 16, 59-68.	9.7	440
40	The mitochondrial E3 ubiquitin ligase MARCH5 is required for Drp1 dependent mitochondrial division. <i>Journal of Cell Biology</i> , 2007, 178, 71-84.	5.2	420
41	Bax and Bak Coalesce into Novel Mitochondria-Associated Clusters during Apoptosis. <i>Journal of Cell Biology</i> , 2001, 153, 1265-1276.	5.2	418
42	Quantitation of mitochondrial dynamics by photolabeling of individual organelles shows that mitochondrial fusion is blocked during the Bax activation phase of apoptosis. <i>Journal of Cell Biology</i> , 2004, 164, 493-499.	5.2	393
43	Mitochondrial release of AIF and EndoG requires caspase activation downstream of Bax/Bak-mediated permeabilization. <i>EMBO Journal</i> , 2003, 22, 4385-4399.	7.8	383
44	Mitochondrial fission facilitates the selective mitophagy of protein aggregates. <i>Journal of Cell Biology</i> , 2017, 216, 3231-3247.	5.2	377
45	p38 Map Kinase Mediates Bax Translocation in Nitric Oxide-Induced Apoptosis in Neurons. <i>Journal of Cell Biology</i> , 2000, 150, 335-348.	5.2	372
46	Mitofusin-1 protein is a generally expressed mediator of mitochondrial fusion in mammalian cells. <i>Journal of Cell Science</i> , 2003, 116, 2763-2774.	2.0	369
47	Anti-apoptotic MCL-1 localizes to the mitochondrial matrix and couples mitochondrial fusion to respiration. <i>Nature Cell Biology</i> , 2012, 14, 575-583.	10.3	347
48	In situ labeling of granule cells for apoptosis-associated DNA fragmentation reveals different mechanisms of cell loss in developing cerebellum. <i>Neuron</i> , 1993, 11, 621-632.	8.1	338
49	The accumulation of misfolded proteins in the mitochondrial matrix is sensed by PINK1 to induce PARK2/Parkin-mediated mitophagy of polarized mitochondria. <i>Autophagy</i> , 2013, 9, 1750-1757.	9.1	335
50	Targeting Mitochondrial Dysfunction: Role for PINK1 and Parkin in Mitochondrial Quality Control. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1929-1938.	5.4	330
51	Mitochondrial Function, Biology, and Role in Disease. <i>Circulation Research</i> , 2016, 118, 1960-1991.	4.5	330
52	Spatiotemporal Control of ULK1 Activation by NDP52 and TBK1 during Selective Autophagy. <i>Molecular Cell</i> , 2019, 74, 347-362.e6.	9.7	314
53	High-content genome-wide RNAi screens identify regulators of parkin upstream of mitophagy. <i>Nature</i> , 2013, 504, 291-295.	27.8	301
54	Parkin overexpression selects against a deleterious mtDNA mutation in heteroplasmic cybrid cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11835-11840.	7.1	286

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55	OPA1 mutations associated with dominant optic atrophy impair oxidative phosphorylation and mitochondrial fusion. <i>Brain</i> , 2008, 131, 352-367.	7.6	285
56	Endogenous Parkin Preserves Dopaminergic Substantia Nigral Neurons following Mitochondrial DNA Mutagenic Stress. <i>Neuron</i> , 2015, 87, 371-381.	8.1	277
57	Mitochondrial Quality Control Mediated by PINK1 and Parkin: Links to Parkinsonism. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a011338-a011338.	5.5	273
58	Self and Nonself: How Autophagy Targets Mitochondria and Bacteria. <i>Cell Host and Microbe</i> , 2014, 15, 403-411.	11.0	259
59	A Study of the Interferon Antiviral Mechanism: Apoptosis Activation by the 2 $\alpha$ 5A System. <i>Journal of Experimental Medicine</i> , 1997, 186, 967-972.	8.5	256
60	Mitochondrial Fission and Fusion Mediators, hFis1 and OPA1, Modulate Cellular Senescence. <i>Journal of Biological Chemistry</i> , 2007, 282, 22977-22983.	3.4	245
61	How do Bax and Bak lead to permeabilization of the outer mitochondrial membrane?. <i>Current Opinion in Cell Biology</i> , 2006, 18, 685-689.	5.4	244
62	Mitochondrial Rab GAPs govern autophagosome biogenesis during mitophagy. <i>ELife</i> , 2014, 3, e01612.	6.0	242
63	The permeability transition pore signals apoptosis by directing Bax translocation and multimerization. <i>FASEB Journal</i> , 2002, 16, 607-609.	0.5	241
64	Mit/TFE transcription factors are activated during mitophagy downstream of Parkin and Atg5. <i>Journal of Cell Biology</i> , 2015, 210, 435-450.	5.2	238
65	Endophilin B1 is required for the maintenance of mitochondrial morphology. <i>Journal of Cell Biology</i> , 2004, 166, 1027-1039.	5.2	226
66	PINK1 import regulation; a fine system to convey mitochondrial stress to the cytosol. <i>BMC Biology</i> , 2018, 16, 2.	3.8	226
67	Apoptosis and DNA degradation induced by 1-methyl-4-phenylpyridinium in neurons. <i>Biochemical and Biophysical Research Communications</i> , 1991, 181, 1442-1448.	2.1	216
68	Regulating mitochondrial outer membrane proteins by ubiquitination and proteasomal degradation. <i>Current Opinion in Cell Biology</i> , 2011, 23, 476-482.	5.4	214
69	Hsp90-Cdc37 Chaperone Complex Regulates Ulk1- and Atg13-Mediated Mitophagy. <i>Molecular Cell</i> , 2011, 43, 572-585.	9.7	211
70	Parkin-induced mitophagy in the pathogenesis of Parkinson disease. <i>Autophagy</i> , 2009, 5, 706-708.	9.1	209
71	Mitochondrial fission and fusion. <i>Essays in Biochemistry</i> , 2010, 47, 85-98.	4.7	209
72	PINK1 drives Parkin self-association and HECT-like E3 activity upstream of mitochondrial binding. <i>Journal of Cell Biology</i> , 2013, 200, 163-172.	5.2	209

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73	A Chemical Inhibitor of DRP1 Uncouples Mitochondrial Fission and Apoptosis. <i>Molecular Cell</i> , 2008, 29, 409-410.	9.7	204
74	Role of the N Terminus in RNase A Homologues: Differences in Catalytic Activity, Ribonuclease Inhibitor Interaction and Cytotoxicity. <i>Journal of Molecular Biology</i> , 1996, 257, 992-1007.	4.2	202
75	Loss of MARCH5 mitochondrial E3 ubiquitin ligase induces cellular senescence through dynamin-related protein 1 and mitofusin 1. <i>Journal of Cell Science</i> , 2010, 123, 619-626.	2.0	201
76	The Soluble Form of Bax Regulates Mitochondrial Fusion via MFN2 Homotypic Complexes. <i>Molecular Cell</i> , 2011, 41, 150-160.	9.7	199
77	Cytomegalovirus cell death suppressor vMIA blocks Bax- but not Bak-mediated apoptosis by binding and sequestering Bax at mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7988-7993.	7.1	179
78	Mutations in Fis1 disrupt orderly disposal of defective mitochondria. <i>Molecular Biology of the Cell</i> , 2014, 25, 145-159.	2.1	177
79	Bid, but Not Bax, Regulates VDAC Channels. <i>Journal of Biological Chemistry</i> , 2004, 279, 13575-13583.	3.4	174
80	The role of 2â€²-5â€² oligoadenylate-activated ribonucleaseâ€L in apoptosis. <i>Cell Death and Differentiation</i> , 1998, 5, 313-320.	11.2	173
81	Parkin is a lipid-responsive regulator of fat uptake in mice and mutant human cells. <i>Journal of Clinical Investigation</i> , 2011, 121, 3701-3712.	8.2	170
82	Loss of Bif-1 Suppresses Bax/Bak Conformational Change and Mitochondrial Apoptosis. <i>Molecular and Cellular Biology</i> , 2005, 25, 9369-9382.	2.3	167
83	The Solution Structure of Human Mitochondria Fission Protein Fis1 Reveals a Novel TPR-like Helix Bundle. <i>Journal of Molecular Biology</i> , 2003, 334, 445-458.	4.2	146
84	Bcl-xL sequesters its C-terminal membrane anchor in soluble, cytosolic homodimers. <i>EMBO Journal</i> , 2004, 23, 2146-2155.	7.8	143
85	Mitochondria in Ca <sup>2+</sup> signaling and apoptosis. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 35-46.	2.3	142
86	Mitochondriaâ€Striking a balance between host and endosymbiont. <i>Science</i> , 2019, 365, .	12.6	130
87	Vps13D Encodes a Ubiquitin-Binding Protein that Is Required for the Regulation of Mitochondrial Size and Clearance. <i>Current Biology</i> , 2018, 28, 287-295.e6.	3.9	115
88	Role of Mitochondrial Remodeling in Programmed Cell Death in <i>Drosophila melanogaster</i> . <i>Developmental Cell</i> , 2007, 12, 807-816.	7.0	114
89	Endosomal Rab cycles regulate Parkin-mediated mitophagy. <i>ELife</i> , 2018, 7, .	6.0	113
90	Reciprocal Roles of Tom7 and OMA1 during Mitochondrial Import and Activation of PINK1. <i>Molecular Cell</i> , 2019, 73, 1028-1043.e5.	9.7	113

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91	Mitochondrial damage-associated inflammation highlights biomarkers in PRKN/PINK1 parkinsonism. <i>Brain</i> , 2020, 143, 3041-3051.	7.6	105
92	Polyubiquitin-sensor proteins reveal localization and linkage-type dependence of cellular ubiquitin signaling. <i>Nature Methods</i> , 2012, 9, 303-309.	19.0	104
93	Involvement of mitochondrial dynamics in the segregation of mitochondrial matrix proteins during stationary phase mitophagy. <i>Nature Communications</i> , 2013, 4, 2789.	12.8	95
94	STING induces LC3B lipidation onto single-membrane vesicles via the V-ATPase and ATG16L1-WD40 domain. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	90
95	Role of Membrane Association and Atg14-Dependent Phosphorylation in Beclin-1-Mediated Autophagy. <i>Molecular and Cellular Biology</i> , 2013, 33, 3675-3688.	2.3	87
96	Loss of TAX1BP1-Directed Autophagy Results in Protein Aggregate Accumulation in the Brain. <i>Molecular Cell</i> , 2020, 80, 779-795.e10.	9.7	85
97	Molecular and topological reorganizations in mitochondrial architecture interplay during Bax-mediated steps of apoptosis. <i>ELife</i> , 2019, 8, .	6.0	77
98	Engineering receptor-mediated cytotoxicity into human ribonucleases by steric blockade of inhibitor interaction. <i>Nature Biotechnology</i> , 1999, 17, 265-270.	17.5	75
99	Mitochondrial Quality Control and Restraining Innate Immunity. <i>Annual Review of Cell and Developmental Biology</i> , 2020, 36, 265-289.	9.4	73
100	Cytomegalovirus Proteins vMIA and m38.5 Link Mitochondrial Morphogenesis to Bcl-2 Family Proteins. <i>Journal of Virology</i> , 2008, 82, 6232-6243.	3.4	70
101	Role of the Ubiquitin Conjugation System in the Maintenance of Mitochondrial Homeostasis. <i>Annals of the New York Academy of Sciences</i> , 2008, 1147, 242-253.	3.8	67
102	IBRDC2, an IBR-type E3 ubiquitin ligase, is a regulatory factor for Bax and apoptosis activation. <i>EMBO Journal</i> , 2010, 29, 1458-1471.	7.8	67
103	ULK complex organization in autophagy by a C-shaped FIP200 N-terminal domain dimer. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	59
104	PINK1/Parkin Influences Cell Cycle by Sequestering TBK1 at Damaged Mitochondria, Inhibiting Mitosis. <i>Cell Reports</i> , 2019, 29, 225-235.e5.	6.4	58
105	A Systematic Search for Endoplasmic Reticulum (ER) Membrane-associated RING Finger Proteins Identifies Nixin/ZNRF4 as a Regulator of Calnexin Stability and ER Homeostasis. <i>Journal of Biological Chemistry</i> , 2011, 286, 8633-8643.	3.4	54
106	Conformation of BCL-XL upon Membrane Integration. <i>Journal of Molecular Biology</i> , 2015, 427, 2262-2270.	4.2	54
107	Structural mechanism of Bax inhibition by cytomegalovirus protein vMIA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20901-20906.	7.1	53
108	CELL BIOLOGY: Cellular Demolition and the Rules of Engagement. <i>Science</i> , 2007, 315, 776-777.	12.6	52

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109	Chemogenomic Profiling of Endogenous <i>PARK2</i> Expression Using a Genome-Edited Coincidence Reporter. <i>ACS Chemical Biology</i> , 2015, 10, 1188-1197.	3.4	52
110	Fluorescence-based <i>ATG8</i> sensors monitor localization and function of <i>LC3</i> / <i>GABARAP</i> proteins. <i>EMBO Journal</i> , 2017, 36, 549-564.	7.8	49
111	Image-based pooled whole-genome CRISPRi screening for subcellular phenotypes. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	48
112	VPS13D promotes peroxisome biogenesis. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	47
113	Bax Activates Endophilin B1 Oligomerization and Lipid Membrane Vesiculation. <i>Journal of Biological Chemistry</i> , 2009, 284, 34390-34399.	3.4	41
114	Ubiquitin signaling in neurodegenerative diseases: an autophagy and proteasome perspective. <i>Cell Death and Differentiation</i> , 2021, 28, 439-454.	11.2	39
115	Form follows function for mitochondria. <i>Nature</i> , 2016, 530, 288-289.	27.8	33
116	Deleterious mitochondrial DNA point mutations are overrepresented in <i>Drosophila</i> expressing a proofreading-defective DNA polymerase $\beta$ . <i>PLoS Genetics</i> , 2018, 14, e1007805.	3.5	32
117	Cytotoxic onconase and ribonuclease A chimeras: comparison and in vitro characterization. <i>Drug Delivery</i> , 1993, 1, 3-10.	5.7	30
118	Two different axes CALCOCO2-RB1CC1 and OPTN-ATG9A initiate PRKN-mediated mitophagy. <i>Autophagy</i> , 2020, 16, 2105-2107.	9.1	27
119	Morphology of Mitochondria During Apoptosis: Worms-to-Beetles in Worms. <i>Developmental Cell</i> , 2005, 8, 298-299.	7.0	23
120	PINK1 rendered temperature sensitive by disease-associated and engineered mutations. <i>Human Molecular Genetics</i> , 2013, 22, 2572-2589.	2.9	23
121	Characterization of the membrane-inserted C-terminus of cytoprotective BCL-XL. <i>Protein Expression and Purification</i> , 2016, 122, 56-63.	1.3	22
122	Parkin mediates mitophagy during beige-to-white fat conversion. <i>Science Signaling</i> , 2018, 11, .	3.6	20
123	Neurolastin, a Dynamin Family GTPase, Regulates Excitatory Synapses and Spine Density. <i>Cell Reports</i> , 2015, 12, 743-751.	6.4	18
124	Endosome fusion induced by diphtheria toxin translocation domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8020-8025.	7.1	12
125	Balancing cell growth and death. <i>Current Opinion in Cell Biology</i> , 2012, 24, 802-803.	5.4	10
126	Mitochondrial Disease: mtDNA and Protein Segregation Mysteries in iPSCs. <i>Current Biology</i> , 2013, 23, R1052-R1054.	3.9	10



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127	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.	7.1	5
128	Mitochondrial Dynamics and Apoptosis. , 2011, , 109-138.		3
129	Letter to the Editor: Sequence-specific 1H, 13C and 15N resonance assignments of recombinant onconase/P-30 protein. Journal of Biomolecular NMR, 1999, 15, 343-344.	2.8	2
130	Active state of Parkin. Nature Structural and Molecular Biology, 2018, 25, 644-646.	8.2	2
131	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.	3.4	1
132	State of GTPase cycle dictates mobility and localization of large mitochondrial GTPases, Mfn1 and 2. FASEB Journal, 2007, 21, A661.	0.5	0
133	Mitophagy as a quality control mechanism in Saccharomyces cerevisiae. FASEB Journal, 2013, 27, 994.3.	0.5	0
134	Mit/TFE transcription factors are activated during mitophagy downstream of Parkin and Atg5. Journal of Experimental Medicine, 2015, 212, 2129OIA71.	8.5	0
135	Acute Manipulation of Outer Membrane Phospholipid Composition Directly Alters Mitochondrial Dynamics and Ultrastructure. FASEB Journal, 2022, 36, .	0.5	0