

Richard J Youle

List of Publications by Year in descending order

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135
papers

61,778
citations

3874

91
h-index

14779

131
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170
all docs

170
docs citations

170
times ranked

55232
citing authors

#	ARTICLE	IF	CITATIONS
1	Acute Manipulation of Outer Membrane Phospholipid Composition Directly Alters Mitochondrial Dynamics and Ultrastructure. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
2	Ubiquitin signaling in neurodegenerative diseases: an autophagy and proteasome perspective. <i>Cell Death and Differentiation</i> , 2021, 28, 439-454.	5.0	39
3	VPS13D promotes peroxisome biogenesis. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	47
4	Image-based pooled whole-genome CRISPRi screening for subcellular phenotypes. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	48
5	Mitochondrial Quality Control and Restraining Innate Immunity. <i>Annual Review of Cell and Developmental Biology</i> , 2020, 36, 265-289.	4.0	73
6	Mitochondrial damage-associated inflammation highlights biomarkers in PRKN/PINK1 parkinsonism. <i>Brain</i> , 2020, 143, 3041-3051.	3.7	105
7	Loss of TAX1BP1-Directed Autophagy Results in Protein Aggregate Accumulation in the Brain. <i>Molecular Cell</i> , 2020, 80, 779-795.e10.	4.5	85
8	Two different axes CALCOCO2-RB1CC1 and OPTN-ATG9A initiate PRKN-mediated mitophagy. <i>Autophagy</i> , 2020, 16, 2105-2107.	4.3	27
9	ULK complex organization in autophagy by a C-shaped FIP200 N-terminal domain dimer. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	59
10	STING induces LC3B lipidation onto single-membrane vesicles via the V-ATPase and ATG16L1-WD40 domain. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	90
11	Mitochondriaâ€”Striking a balance between host and endosymbiont. <i>Science</i> , 2019, 365, .	6.0	130
12	PINK1/Parkin Influences Cell Cycle by Sequestering TBK1 at Damaged Mitochondria, Inhibiting Mitosis. <i>Cell Reports</i> , 2019, 29, 225-235.e5.	2.9	58
13	Reciprocal Roles of Tom7 and OMA1 during Mitochondrial Import and Activation of PINK1. <i>Molecular Cell</i> , 2019, 73, 1028-1043.e5.	4.5	113
14	Neurolastin, a dynamin family GTPase, translocates to mitochondria upon neuronal stress and alters mitochondrial morphology in vivo. <i>Journal of Biological Chemistry</i> , 2019, 294, 11498-11512.	1.6	1
15	Spatiotemporal Control of ULK1 Activation by NDP52 and TBK1 during Selective Autophagy. <i>Molecular Cell</i> , 2019, 74, 347-362.e6.	4.5	314
16	Molecular and topological reorganizations in mitochondrial architecture interplay during Bax-mediated steps of apoptosis. <i>ELife</i> , 2019, 8, .	2.8	77
17	Mitophagy and Quality Control Mechanisms in Mitochondrial Maintenance. <i>Current Biology</i> , 2018, 28, R170-R185.	1.8	1,262
18	Parkin mediates mitophagy during beige-to-white fat conversion. <i>Science Signaling</i> , 2018, 11, .	1.6	20

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19	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.	1.8	115
20	Deleterious mitochondrial DNA point mutations are overrepresented in <i>Drosophila</i> expressing a proofreading-defective DNA polymerase β . <i>PLoS Genetics</i> , 2018, 14, e1007805.	1.5	32
21	Endosomal Rab cycles regulate Parkin-mediated mitophagy. <i>ELife</i> , 2018, 7, .	2.8	113
22	Active state of Parkin. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 644-646.	3.6	2
23	PINK1 import regulation; a fine system to convey mitochondrial stress to the cytosol. <i>BMC Biology</i> , 2018, 16, 2.	1.7	226
24	Parkin and PINK1 mitigate STING-induced inflammation. <i>Nature</i> , 2018, 561, 258-262.	13.7	905
25	Fluorescence-based ATG^8 sensors monitor localization and function of $\text{LC}^3/\text{GABARAP}$ proteins. <i>EMBO Journal</i> , 2017, 36, 549-564.	3.5	49
26	Mitochondrial fission facilitates the selective mitophagy of protein aggregates. <i>Journal of Cell Biology</i> , 2017, 216, 3231-3247.	2.3	377
27	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.	3.3	554
28	The Mitochondrial Basis of Aging. <i>Molecular Cell</i> , 2016, 61, 654-666.	4.5	1,011
29	Mitochondrial Function, Biology, and Role in Disease. <i>Circulation Research</i> , 2016, 118, 1960-1991.	2.0	330
30	Form follows function for mitochondria. <i>Nature</i> , 2016, 530, 288-289.	13.7	33
31	Characterization of the membrane-inserted C-terminus of cytoprotective BCL-XL. <i>Protein Expression and Purification</i> , 2016, 122, 56-63.	0.6	22
32	Chemogenomic Profiling of Endogenous <i>PARK2</i> Expression Using a Genome-Edited Coincidence Reporter. <i>ACS Chemical Biology</i> , 2015, 10, 1188-1197.	1.6	52
33	The Roles of PINK1, Parkin, and Mitochondrial Fidelity in Parkinson's Disease. <i>Neuron</i> , 2015, 85, 257-273.	3.8	1,632
34	MIT/TFE transcription factors are activated during mitophagy downstream of Parkin and Atg5. <i>Journal of Cell Biology</i> , 2015, 210, 435-450.	2.3	238
35	Endogenous Parkin Preserves Dopaminergic Substantia Nigral Neurons following Mitochondrial DNA Mutagenic Stress. <i>Neuron</i> , 2015, 87, 371-381.	3.8	277
36	Conformation of BCL-XL upon Membrane Integration. <i>Journal of Molecular Biology</i> , 2015, 427, 2262-2270.	2.0	54

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37	Neurolastin, a Dynamin Family GTPase, Regulates Excitatory Synapses and Spine Density. <i>Cell Reports</i> , 2015, 12, 743-751.	2.9	18
38	The ubiquitin kinase PINK1 recruits autophagy receptors to induce mitophagy. <i>Nature</i> , 2015, 524, 309-314.	13.7	1,969
39	Mit/TFE transcription factors are activated during mitophagy downstream of Parkin and Atg5. <i>Journal of Experimental Medicine</i> , 2015, 212, 2129-2141.	4.2	0
40	Mitochondrial Rab GAPs govern autophagosome biogenesis during mitophagy. <i>ELife</i> , 2014, 3, e01612.	2.8	242
41	Mutations in Fis1 disrupt orderly disposal of defective mitochondria. <i>Molecular Biology of the Cell</i> , 2014, 25, 145-159.	0.9	177
42	PINK1 phosphorylates ubiquitin to activate Parkin E3 ubiquitin ligase activity. <i>Journal of Cell Biology</i> , 2014, 205, 143-153.	2.3	1,004
43	Self and Nonself: How Autophagy Targets Mitochondria and Bacteria. <i>Cell Host and Microbe</i> , 2014, 15, 403-411.	5.1	259
44	Sequestration and autophagy of mitochondria do not cut proteins across the board. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6252-6253.	3.3	5
45	Involvement of mitochondrial dynamics in the segregation of mitochondrial matrix proteins during stationary phase mitophagy. <i>Nature Communications</i> , 2013, 4, 2789.	5.8	95
46	High-content genome-wide RNAi screens identify regulators of parkin upstream of mitophagy. <i>Nature</i> , 2013, 504, 291-295.	13.7	301
47	PINK1 rendered temperature sensitive by disease-associated and engineered mutations. <i>Human Molecular Genetics</i> , 2013, 22, 2572-2589.	1.4	23
48	Mitochondrial Disease: mtDNA and Protein Segregation Mysteries in iPSCs. <i>Current Biology</i> , 2013, 23, R1052-R1054.	1.8	10
49	PINK1 drives Parkin self-association and HECT-like E3 activity upstream of mitochondrial binding. <i>Journal of Cell Biology</i> , 2013, 200, 163-172.	2.3	209
50	Role of Membrane Association and Atg14-Dependent Phosphorylation in Beclin-1-Mediated Autophagy. <i>Molecular and Cellular Biology</i> , 2013, 33, 3675-3688.	1.1	87
51	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.	4.3	335
52	PINK1 is degraded through the N-end rule pathway. <i>Autophagy</i> , 2013, 9, 1758-1769.	4.3	507
53	Mitophagy as a quality control mechanism in <i>Saccharomyces cerevisiae</i> . <i>FASEB Journal</i> , 2013, 27, 994.3.	0.2	0
54	PINK1- and Parkin-mediated mitophagy at a glance. <i>Journal of Cell Science</i> , 2012, 125, 795-799.	1.2	465

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55	Mitochondrial Quality Control Mediated by PINK1 and Parkin: Links to Parkinsonism. Cold Spring Harbor Perspectives in Biology, 2012, 4, a011338-a011338.	2.3	273
56	Polyubiquitin-sensor proteins reveal localization and linkage-type dependence of cellular ubiquitin signaling. Nature Methods, 2012, 9, 303-309.	9.0	104
57	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.	3.3	53
58	Anti-apoptotic MCL-1 localizes to the mitochondrial matrix and couples mitochondrial fusion to respiration. Nature Cell Biology, 2012, 14, 575-583.	4.6	347
59	Mitochondrial Fission, Fusion, and Stress. Science, 2012, 337, 1062-1065.	6.0	2,645
60	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.	3.1	523
61	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
62	Balancing cell growth and death. Current Opinion in Cell Biology, 2012, 24, 802-803.	2.6	10
63	Mitochondrial Dynamics and Apoptosis. , 2011, , 109-138.		3
64	Bcl-xL Retrotranslocates Bax from the Mitochondria into the Cytosol. Cell, 2011, 145, 104-116.	13.5	512
65	Mitochondria in Apoptosis: Bcl-2 Family Members and Mitochondrial Dynamics. Developmental Cell, 2011, 21, 92-101.	3.1	1,198
66	The Soluble Form of Bax Regulates Mitochondrial Fusion via MFN2 Homotypic Complexes. Molecular Cell, 2011, 41, 150-160.	4.5	199
67	Hsp90-Cdc37 Chaperone Complex Regulates Ulk1- and Atg13-Mediated Mitophagy. Molecular Cell, 2011, 43, 572-585.	4.5	211
68	Mechanisms of mitophagy. Nature Reviews Molecular Cell Biology, 2011, 12, 9-14.	16.1	2,638
69	Regulating mitochondrial outer membrane proteins by ubiquitination and proteasomal degradation. Current Opinion in Cell Biology, 2011, 23, 476-482.	2.6	214
70	Targeting Mitochondrial Dysfunction: Role for PINK1 and Parkin in Mitochondrial Quality Control. Antioxidants and Redox Signaling, 2011, 14, 1929-1938.	2.5	330
71	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.	1.6	54
72	Parkin is a lipid-responsive regulator of fat uptake in mice and mutant human cells. Journal of Clinical Investigation, 2011, 121, 3701-3712.	3.9	170

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73	IBRDC2, an IBR-type E3 ubiquitin ligase, is a regulatory factor for Bax and apoptosis activation. <i>EMBO Journal</i> , 2010, 29, 1458-1471.	3.5	67
74	Mitochondrial fission and fusion. <i>Essays in Biochemistry</i> , 2010, 47, 85-98.	2.1	209
75	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.	2.3	919
76	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.	3.3	286
77	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.	1.2	201
78	p62/SQSTM1 is required for Parkin-induced mitochondrial clustering but not mitophagy; VDAC1 is dispensable for both. <i>Autophagy</i> , 2010, 6, 1090-1106.	4.3	663
79	Mitochondrial membrane potential regulates PINK1 import and proteolytic destabilization by PARL. <i>Journal of Cell Biology</i> , 2010, 191, 933-942.	2.3	1,078
80	Proteasome and p97 mediate mitophagy and degradation of mitofusins induced by Parkin. <i>Journal of Cell Biology</i> , 2010, 191, 1367-1380.	2.3	1,161
81	PINK1 Is Selectively Stabilized on Impaired Mitochondria to Activate Parkin. <i>PLoS Biology</i> , 2010, 8, e1000298.	2.6	2,299
82	Parkin-induced mitophagy in the pathogenesis of Parkinson disease. <i>Autophagy</i> , 2009, 5, 706-708.	4.3	209
83	Bax Activates Endophilin B1 Oligomerization and Lipid Membrane Vesiculation. <i>Journal of Biological Chemistry</i> , 2009, 284, 34390-34399.	1.6	41
84	SLP-2 is required for stress-induced mitochondrial hyperfusion. <i>EMBO Journal</i> , 2009, 28, 1589-1600.	3.5	639
85	The Role of Mitochondria in Apoptosis. <i>Annual Review of Genetics</i> , 2009, 43, 95-118.	3.2	1,503
86	Parkin is recruited selectively to impaired mitochondria and promotes their autophagy. <i>Journal of Cell Biology</i> , 2008, 183, 795-803.	2.3	3,315
87	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.	1.8	67
88	The BCL-2 protein family: opposing activities that mediate cell death. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 47-59.	16.1	3,898
89	A Chemical Inhibitor of DRP1 Uncouples Mitochondrial Fission and Apoptosis. <i>Molecular Cell</i> , 2008, 29, 409-410.	4.5	204
90	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.	3.3	12

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91	Mitochondrial dynamics and apoptosis. <i>Genes and Development</i> , 2008, 22, 1577-1590.	2.7	1,080
92	Cytomegalovirus Proteins vMIA and m38.5 Link Mitochondrial Morphogenesis to Bcl-2 Family Proteins. <i>Journal of Virology</i> , 2008, 82, 6232-6243.	1.5	70
93	OPA1 mutations associated with dominant optic atrophy impair oxidative phosphorylation and mitochondrial fusion. <i>Brain</i> , 2008, 131, 352-367.	3.7	285
94	Mitochondrial Fission and Fusion Mediators, hFis1 and OPA1, Modulate Cellular Senescence. <i>Journal of Biological Chemistry</i> , 2007, 282, 22977-22983.	1.6	245
95	The mitochondrial E3 ubiquitin ligase MARCH5 is required for Drp1 dependent mitochondrial division. <i>Journal of Cell Biology</i> , 2007, 178, 71-84.	2.3	420
96	CELL BIOLOGY: Cellular Demolition and the Rules of Engagement. <i>Science</i> , 2007, 315, 776-777.	6.0	52
97	Role of Mitochondrial Remodeling in Programmed Cell Death in <i>Drosophila melanogaster</i> . <i>Developmental Cell</i> , 2007, 12, 807-816.	3.1	114
98	State of GTPase cycle dictates mobility and localization of large mitochondrial GTPases, Mfn1 and 2. <i>FASEB Journal</i> , 2007, 21, A661.	0.2	0
99	Role of Bax and Bak in mitochondrial morphogenesis. <i>Nature</i> , 2006, 443, 658-662.	13.7	579
100	Nitric oxide-induced mitochondrial fission is regulated by dynamin-related GTPases in neurons. <i>EMBO Journal</i> , 2006, 25, 3900-3911.	3.5	603
101	How do Bax and Bak lead to permeabilization of the outer mitochondrial membrane?. <i>Current Opinion in Cell Biology</i> , 2006, 18, 685-689.	2.6	244
102	Mitochondrial fission in apoptosis. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 657-663.	16.1	681
103	Loss of Bif-1 Suppresses Bax/Bak Conformational Change and Mitochondrial Apoptosis. <i>Molecular and Cellular Biology</i> , 2005, 25, 9369-9382.	1.1	167
104	Morphology of Mitochondria During Apoptosis: Worms-to-Beetles in Worms. <i>Developmental Cell</i> , 2005, 8, 298-299.	3.1	23
105	Bid, but Not Bax, Regulates VDAC Channels. <i>Journal of Biological Chemistry</i> , 2004, 279, 13575-13583.	1.6	174
106	Endophilin B1 is required for the maintenance of mitochondrial morphology. <i>Journal of Cell Biology</i> , 2004, 166, 1027-1039.	2.3	226
107	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.	3.3	179
108	Bcl-xL sequesters its C-terminal membrane anchor in soluble, cytosolic homodimers. <i>EMBO Journal</i> , 2004, 23, 2146-2155.	3.5	143

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109	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.	0.9	920
110	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.	2.3	393
111	Drp-1-Dependent Division of the Mitochondrial Network Blocks Intraorganellar Ca ²⁺ Waves and Protects against Ca ²⁺ -Mediated Apoptosis. <i>Molecular Cell</i> , 2004, 16, 59-68.	4.5	440
112	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.	2.0	146
113	Mitochondrial release of AIF and EndoG requires caspase activation downstream of Bax/Bak-mediated permeabilization. <i>EMBO Journal</i> , 2003, 22, 4385-4399.	3.5	383
114	JNK-Mediated BIM Phosphorylation Potentiates BAX-Dependent Apoptosis. <i>Neuron</i> , 2003, 38, 899-914.	3.8	479
115	Mitofusin-1 protein is a generally expressed mediator of mitochondrial fusion in mammalian cells. <i>Journal of Cell Science</i> , 2003, 116, 2763-2774.	1.2	369
116	The permeability transition pore signals apoptosis by directing Bax translocation and multimerization. <i>FASEB Journal</i> , 2002, 16, 607-609.	0.2	241
117	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.	2.3	743
118	The Role of Dynamin-Related Protein 1, a Mediator of Mitochondrial Fission, in Apoptosis. <i>Developmental Cell</i> , 2001, 1, 515-525.	3.1	1,564
119	Bax and Bak Coalesce into Novel Mitochondria-Associated Clusters during Apoptosis. <i>Journal of Cell Biology</i> , 2001, 153, 1265-1276.	2.3	418
120	Mitochondria in Ca ²⁺ signaling and apoptosis. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 35-46.	1.0	142
121	p38 Map Kinase Mediates Bax Translocation in Nitric Oxide-Induced Apoptosis in Neurons. <i>Journal of Cell Biology</i> , 2000, 150, 335-348.	2.3	372
122	Structure of Bax. <i>Cell</i> , 2000, 103, 645-654.	13.5	1,008
123	Engineering receptor-mediated cytotoxicity into human ribonucleases by steric blockade of inhibitor interaction. <i>Nature Biotechnology</i> , 1999, 17, 265-270.	9.4	75
124	Letter to the Editor: Sequence-specific 1H, 13C and 15N resonance assignments of recombinant onconase/P-30 protein. <i>Journal of Biomolecular NMR</i> , 1999, 15, 343-344.	1.6	2
125	Conformation of the Bax C-terminus regulates subcellular location and cell death. <i>EMBO Journal</i> , 1999, 18, 2330-2341.	3.5	667
126	The role of 25S oligoadenylate-activated ribonuclease L in apoptosis. <i>Cell Death and Differentiation</i> , 1998, 5, 313-320.	5.0	173

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127	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.	1.6	465
128	Movement of Bax from the Cytosol to Mitochondria during Apoptosis. <i>Journal of Cell Biology</i> , 1997, 139, 1281-1292.	2.3	1,667
129	A Study of the Interferon Antiviral Mechanism: Apoptosis Activation by the 2'5'A System. <i>Journal of Experimental Medicine</i> , 1997, 186, 967-972.	4.2	256
130	Nonionic Detergents Induce Dimerization among Members of the Bcl-2 Family. <i>Journal of Biological Chemistry</i> , 1997, 272, 13829-13834.	1.6	541
131	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.	15.2	517
132	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.	2.0	202
133	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.	3.8	338
134	Cytotoxic onconase and ribonuclease a chimeras: comparison and in vitro characterization. <i>Drug Delivery</i> , 1993, 1, 3-10.	2.5	30
135	Apoptosis and DNA degradation induced by 1-methyl-4-phenylpyridinium in neurons. <i>Biochemical and Biophysical Research Communications</i> , 1991, 181, 1442-1448.	1.0	216