

Yuzuru Imai

List of Publications by Year in descending order

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99
papers

14,573
citations

76326

40
h-index

56724

83
g-index

105
all docs

105
docs citations

105
times ranked

22446
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	A Serine Protease, HtrA2, Is Released from the Mitochondria and Interacts with XIAP, Inducing Cell Death. <i>Molecular Cell</i> , 2001, 8, 613-621.	9.7	1,026
3	An Unfolded Putative Transmembrane Polypeptide, which Can Lead to Endoplasmic Reticulum Stress, Is a Substrate of Parkin. <i>Cell</i> , 2001, 105, 891-902.	28.9	1,008
4	Mitochondrial pathology and muscle and dopaminergic neuron degeneration caused by inactivation of <i>Drosophila</i> Pink1 is rescued by Parkin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10793-10798.	7.1	717
5	Parkin Suppresses Unfolded Protein Stress-induced Cell Death through Its E3 Ubiquitin-protein Ligase Activity. <i>Journal of Biological Chemistry</i> , 2000, 275, 35661-35664.	3.4	677
6	PINK1-mediated phosphorylation of the Parkin ubiquitin-like domain primes mitochondrial translocation of Parkin and regulates mitophagy. <i>Scientific Reports</i> , 2012, 2, 1002.	3.3	466
7	CHIP Is Associated with Parkin, a Gene Responsible for Familial Parkinson's Disease, and Enhances Its Ubiquitin Ligase Activity. <i>Molecular Cell</i> , 2002, 10, 55-67.	9.7	460
8	Phosphorylation of 4E-BP by LRRK2 affects the maintenance of dopaminergic neurons in <i>Drosophila</i> . <i>EMBO Journal</i> , 2008, 27, 2432-2443.	7.8	392
9	Pathogenic LRRK2 negatively regulates microRNA-mediated translational repression. <i>Nature</i> , 2010, 466, 637-641.	27.8	353
10	Parkin Suppresses Dopaminergic Neuron-Selective Neurotoxicity Induced by Pael-R in <i>Drosophila</i> . <i>Neuron</i> , 2003, 37, 911-924.	8.1	350
11	Pael receptor induces death of dopaminergic neurons in the substantia nigra via endoplasmic reticulum stress and dopamine toxicity, which is enhanced under condition of parkin inactivation. <i>Human Molecular Genetics</i> , 2007, 16, 50-60.	2.9	339
12	Inactivation of <i>Drosophila</i> DJ-1 leads to impairments of oxidative stress response and phosphatidylinositol 3-kinase/Akt signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13670-13675.	7.1	325
13	Parkinson's Disease-Associated Kinase PINK1 Regulates Miro Protein Level and Axonal Transport of Mitochondria. <i>PLoS Genetics</i> , 2012, 8, e1002537.	3.5	325
14	The CED-4-homologous protein FLASH is involved in Fas-mediated activation of caspase-8 during apoptosis. <i>Nature</i> , 1999, 398, 777-785.	27.8	237
15	Parkin as a tumor suppressor gene for hepatocellular carcinoma. <i>Oncogene</i> , 2008, 27, 6002-6011.	5.9	188
16	<i>In vivo</i> evidence of CHIP up-regulation attenuating tau aggregation. <i>Journal of Neurochemistry</i> , 2005, 94, 1254-1263.	3.9	186
17	Leucine-rich repeat kinase 2 interacts with Parkin, DJ-1 and PINK-1 in a <i>Drosophila melanogaster</i> model of Parkinson's disease. <i>Human Molecular Genetics</i> , 2009, 18, 4390-4404.	2.9	170
18	Pael-R is accumulated in Lewy bodies of Parkinson's disease. <i>Annals of Neurology</i> , 2004, 55, 439-442.	5.3	140

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19	Phosphorylation of Mitochondrial Polyubiquitin by PINK1 Promotes Parkin Mitochondrial Tethering. <i>PLoS Genetics</i> , 2014, 10, e1004861.	3.5	140
20	Loss of Parkinson's disease-associated protein CHCHD2 affects mitochondrial crista structure and destabilizes cytochrome c. <i>Nature Communications</i> , 2017, 8, 15500.	12.8	123
21	Affinity labeling displays the stepwise activation of ICE-related proteases by Fas, staurosporine, and CrmA-sensitive caspase-8. <i>Oncogene</i> , 1997, 14, 2741-2752.	5.9	118
22	Generation and characterization of novel conformation-specific monoclonal antibodies for α -synuclein pathology. <i>Neurobiology of Disease</i> , 2015, 79, 81-99.	4.4	116
23	Parkin Phosphorylation and Modulation of Its E3 Ubiquitin Ligase Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 3390-3399.	3.4	102
24	Vps35 in cooperation with LRRK2 regulates synaptic vesicle endocytosis through the endosomal pathway in <i>Drosophila</i> . <i>Human Molecular Genetics</i> , 2017, 26, 2933-2948.	2.9	93
25	Activation of FoxO by LRRK2 induces expression of proapoptotic proteins and alters survival of postmitotic dopaminergic neuron in <i>Drosophila</i> . <i>Human Molecular Genetics</i> , 2010, 19, 3747-3758.	2.9	84
26	Activation of PAR-1 Kinase and Stimulation of Tau Phosphorylation by Diverse Signals Require the Tumor Suppressor Protein LKB1. <i>Journal of Neuroscience</i> , 2007, 27, 574-581.	3.6	77
27	The neuropeptide head activator is a high-affinity ligand for the orphan G-protein-coupled receptor GPR37. <i>Journal of Cell Science</i> , 2006, 119, 542-549.	2.0	75
28	The Loss of PGAM5 Suppresses the Mitochondrial Degeneration Caused by Inactivation of PINK1 in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2010, 6, e1001229.	3.5	72
29	Syntaxin 17 regulates the localization and function of PGAM5 in mitochondrial division and mitophagy. <i>EMBO Journal</i> , 2018, 37, .	7.8	68
30	Quantitative Assessment of Eye Phenotypes for Functional Genetic Studies Using <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 1427-1437.	1.8	67
31	Parkinson's disease-associated <i>PLA2-VIA</i> PLA2G6 regulates neuronal functions and α -synuclein stability through membrane remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20689-20699.	7.1	67
32	A Product of the Human Gene Adjacent to parkin Is a Component of Lewy Bodies and Suppresses Pael Receptor-induced Cell Death. <i>Journal of Biological Chemistry</i> , 2003, 278, 51901-51910.	3.4	62
33	The Parkinson's Disease-Associated Protein Kinase LRRK2 Modulates Notch Signaling through the Endosomal Pathway. <i>PLoS Genetics</i> , 2015, 11, e1005503.	3.5	59
34	Pael transgenic mice crossed with parkin deficient mice displayed progressive and selective catecholaminergic neuronal loss. <i>Journal of Neurochemistry</i> , 2008, 107, 171-185.	3.9	56
35	Mitochondrial dynamics and mitophagy in Parkinson's disease: disordered cellular power plant becomes a big deal in a major movement disorder. <i>Current Opinion in Neurobiology</i> , 2011, 21, 935-941.	4.2	56
36	PINK1-Mediated Phosphorylation of Parkin Boosts Parkin Activity in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2014, 10, e1004391.	3.5	55

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37	How do Parkin mutations result in neurodegeneration?. <i>Current Opinion in Neurobiology</i> , 2004, 14, 384-389.	4.2	54
38	Parkin and Endoplasmic Reticulum Stress. <i>Annals of the New York Academy of Sciences</i> , 2003, 991, 101-106.	3.8	48
39	Mutations in CHCHD2 cause α -synuclein aggregation. <i>Human Molecular Genetics</i> , 2019, 28, 3895-3911.	2.9	48
40	Tricornered/NDR kinase signaling mediates PINK1-directed mitochondrial quality control and tissue maintenance. <i>Genes and Development</i> , 2013, 27, 157-162.	5.9	45
41	Identifying Therapeutic Agents for Amelioration of Mitochondrial Clearance Disorder in Neurons of Familial Parkinson Disease. <i>Stem Cell Reports</i> , 2020, 14, 1060-1075.	4.8	43
42	Evidence that phosphorylated ubiquitin signaling is involved in the etiology of Parkinson's disease. <i>Human Molecular Genetics</i> , 2017, 26, 3172-3185.	2.9	42
43	Pael receptor, endoplasmic reticulum stress, and Parkinson's disease. <i>Journal of Neurology</i> , 2003, 250, 1-1.	3.6	41
44	Regulation by mitophagy. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 53, 147-150.	2.8	40
45	Pael receptor is involved in dopamine metabolism in the nigrostriatal system. <i>Neuroscience Research</i> , 2007, 59, 413-425.	1.9	39
46	Twin CHCH Proteins, CHCHD2, and CHCHD10: Key Molecules of Parkinson's Disease, Amyotrophic Lateral Sclerosis, and Frontotemporal Dementia. <i>International Journal of Molecular Sciences</i> , 2019, 20, 908.	4.1	39
47	Rines/RNF180, a novel RING finger gene-encoded product, is a membrane-bound ubiquitin ligase. <i>Genes To Cells</i> , 2008, 13, 397-409.	1.2	37
48	Lipids: Key Players That Modulate α -Synuclein Toxicity and Neurodegeneration in Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3301.	4.1	36
49	Ultrastructural Changes in Granulosa Cells in Porcine Antral Follicles Undergoing Atresia Indicate Apoptotic Cell Death.. <i>Journal of Reproduction and Development</i> , 1998, 44, 7-14.	1.4	35
50	Cell Type-Specific Upregulation of Parkin in Response to ER Stress. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 533-542.	5.4	30
51	Reduced astrocytic reactivity in human brains and midbrain organoids with PRKN mutations. <i>Npj Parkinson's Disease</i> , 2020, 6, 33.	5.3	30
52	Mitochondrial-Associated Membranes in Parkinson's Disease. <i>Advances in Experimental Medicine and Biology</i> , 2017, 997, 157-169.	1.6	26
53	Light-driven activation of mitochondrial proton-motive force improves motor behaviors in a <i>Drosophila</i> model of Parkinson's disease. <i>Communications Biology</i> , 2019, 2, 424.	4.4	25
54	Apoptosis Occurs in Granulosa Cells but not Cumulus Cells in the Atretic Graafian Follicles in Multiparous Pig Ovaries.. <i>Acta Histochemica Et Cytochemica</i> , 1997, 30, 85-92.	1.6	24

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55	Structure of human ubiquitin-conjugating enzyme E2 G2 (UBE2G2/UBC7). Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 330-334.	0.7	24
56	The synaptic function of LRRK2. Biochemical Society Transactions, 2012, 40, 1047-1051.	3.4	24
57	PINK1-Parkin signaling in Parkinson's disease: Lessons from Drosophila. Neuroscience Research, 2020, 159, 40-46.	1.9	24
58	High-fat diet-induced activation of SGK1 promotes Alzheimer's disease-associated tau pathology. Human Molecular Genetics, 2021, 30, 1693-1710.	2.9	23
59	The Nitric Oxide-Cyclic GMP Pathway Regulates FoxO and Alters Dopaminergic Neuron Survival in Drosophila. PLoS ONE, 2012, 7, e30958.	2.5	23
60	Lysine 63-linked Polyubiquitination Is Dispensable for Parkin-mediated Mitophagy. Journal of Biological Chemistry, 2014, 289, 33131-33136.	3.4	22
61	The dawn of pirna research in various neuronal disorders. Frontiers in Bioscience - Landmark, 2019, 24, 1440-1451.	3.0	22
62	Searching for FLASH domains. Nature, 1999, 401, 662-663.	27.8	21
63	A Cell-Based High-Throughput Screening Identified Two Compounds that Enhance PINK1-Parkin Signaling. iScience, 2020, 23, 101048.	4.1	21
64	Monoclonal Antibodies against Pig Ovarian Follicular Granulosa Cells Induce Apoptotic Cell Death in Cultured Granulosa Cells. Journal of Veterinary Medical Science, 1997, 59, 641-649.	0.9	18
65	UQCRC1 engages cytochrome c for neuronal apoptotic cell death. Cell Reports, 2021, 36, 109729.	6.4	13
66	Regulation of vesicular trafficking by Parkinson's disease-associated genes. AIMS Molecular Science, 2015, 2, 461-475.	0.5	11
67	Reduced TDP-43 Expression Improves Neuronal Activities in a Drosophila Model of Perry Syndrome. EBioMedicine, 2017, 21, 218-227.	6.1	10
68	Mitochondrial Regulation by PINK1-Parkin Signaling. , 2012, 2012, 1-15.		9
69	Mitophagy Regulated by the PINK1-Parkin Pathway. , 2015, , .		8
70	Regulation of membrane dynamics by Parkinson's disease-associated genes. Journal of Genetics, 2018, 97, 715-727.	0.7	8
71	A Novel LRRK2 Variant p.G2294R in the WD40 Domain Identified in Familial Parkinson's Disease Affects LRRK2 Protein Levels. International Journal of Molecular Sciences, 2021, 22, 3708.	4.1	7
72	±-Synuclein Seeding Assay Using RT-QuIC. Methods in Molecular Biology, 2021, 2322, 3-16.	0.9	6

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73	Syntaxin 17, an ancient SNARE paralog, plays different and conserved roles in different organisms. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	6
74	Clinical Manifestations and Molecular Backgrounds of Parkinson's Disease Regarding Genes Identified From Familial and Population Studies. <i>Frontiers in Neurology</i> , 0, 13, .	2.4	6
75	Animal Models of Parkinson's Disease. <i>Parkinson's Disease</i> , 2011, 2011, 1-2.	1.1	4
76	Proton transport properties of poly(aspartic acid) with different average molecular weights. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 613-616.	2.0	4
77	Animal Models of Parkinson's Disease 2012. <i>Parkinson's Disease</i> , 2012, 2012, 1-2.	1.1	4
78	Regulation of membrane dynamics by Parkinson's disease-associated genes. <i>Journal of Genetics</i> , 2018, 97, 715-725.	0.7	4
79	Monitoring Mitochondrial Changes by Alteration of the PINK1-Parkin Signaling in <i>Drosophila</i> . <i>Methods in Molecular Biology</i> , 2017, 1759, 47-57.	0.9	3
80	A novel rare variant of LRRK2 associated with familial Parkinson's disease: p.R1501W. <i>Parkinsonism and Related Disorders</i> , 2020, 76, 46-48.	2.2	3
81	Live Imaging of Axonal Transport in the Motor Neurons of <i>Drosophila</i> Larvae. <i>Bio-protocol</i> , 2017, 7, e2631.	0.4	3
82	Midbrain as an Ex Vivo Analysis Platform for Parkinson's Disease. <i>Methods in Molecular Biology</i> , 2021, 2322, 111-117.	0.9	2
83	±-Synuclein Seeding Assay Using Cultured Cells. <i>Methods in Molecular Biology</i> , 2021, 2322, 27-39.	0.9	2
84	Phosphorylation of FoxO by LRRK2 affects the maintenance of dopaminergic neurons in <i>Drosophila</i> . <i>Neuroscience Research</i> , 2009, 65, S66.	1.9	1
85	Regulation of the PINK1 signaling by a mitochondrial protein PGAM5. <i>Neuroscience Research</i> , 2010, 68, e71.	1.9	1
86	Mitophagy Controlled by the PINK1-Parkin Pathway Is Associated with Parkinson's Disease Pathogenesis. , 2014, , 227-238.		1
87	Measurements of the mitochondrial respiration and glycolytic activity in <i>Drosophila</i> embryonic cells. <i>Protocol Exchange</i> , 0, , .	0.3	1
88	Ubiquitination at the lysine 27 residue of the Parkin ubiquitin-like domain is suggestive of a new mechanism of Parkin activation. <i>Human Molecular Genetics</i> , 2022, 31, 2623-2638.	2.9	1
89	Pael-R transgenic mouse crossed with parkin null mouse displays persistent endoplasmic reticulum stress, reduction in complex I activity and dopaminergic neuronal death. <i>Neuroscience Research</i> , 2007, 58, S6.	1.9	0
90	The HECT-type ubiquitin ligase Huwe1/Mule mediates the stability of PINK1. <i>Neuroscience Research</i> , 2011, 71, e101.	1.9	0

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91	Ubiquitin Ligase-Assisted Selective Autophagy of Mitochondria. , 2014, , 151-161.		0
92	Editorial for the Special Issue "Animal Models of Parkinson's Disease and Related Disorders" International Journal of Molecular Sciences, 2020, 21, 4250.	4.1	0
93	Analysis of Dopaminergic Functions in Drosophila. Methods in Molecular Biology, 2021, 2322, 185-193.	0.9	0
94	Cytosolic and Mitochondrial Ca ²⁺ Imaging in Drosophila. Methods in Molecular Biology, 2021, 2322, 207-214.	0.9	0
95	Measurement of GCase Activity in Cultured Cells. Methods in Molecular Biology, 2021, 2322, 47-52.	0.9	0
96	Editorial: Molecular Links Between Mitochondrial Damage and Parkinson's Disease and Related Disorders. Frontiers in Cell and Developmental Biology, 2021, 9, 734475.	3.7	0
97	Monitoring PINK1-Parkin Signaling Using from iPS Cells. Methods in Molecular Biology, 2021, 2322, 81-92.	0.9	0
98	Ubiquitin-Proteasome Pathway is a Key to Understanding of Nigral Degeneration in Autosomal Recessive Juvenile Parkinson's Disease. Advances in Behavioral Biology, 2002, , 291-296.	0.2	0
99	UQCRC1 Engages Cytochrome C for Neuronal Apoptotic Cell Death. SSRN Electronic Journal, 0, , .	0.4	0