Noriyuki Matsuda, æ¾ç”°æ²ä¹‹

List of Publications by Year
in descending order

50 papers	7,825 citations	136740 32 h-index	182168 51 g-index
52 all docs	52 docs citations	52 times ranked	10469 citing authors

#	Article	IF	Citations
1	PINK1 stabilized by mitochondrial depolarization recruits Parkin to damaged mitochondria and activates latent Parkin for mitophagy. Journal of Cell Biology, 2010, 189, 211-221.	2.3	1,600
2	Ubiquitin is phosphorylated by PINK1 to activate parkin. Nature, 2014, 510, 162-166.	13.7	1,185
3	Molecular mechanisms and physiological functions of mitophagy. EMBO Journal, 2021, 40, e104705.	3.5	553
4	UV-Induced Ubiquitylation of XPC Protein Mediated by UV-DDB-Ubiquitin Ligase Complex. Cell, 2005, 121, 387-400.	13.5	517
5	PINK1 autophosphorylation upon membrane potential dissipation is essential for Parkin recruitment to damaged mitochondria. Nature Communications, 2012, 3, 1016.	5.8	465
6	MG53 nucleates assembly of cell membrane repair machinery. Nature Cell Biology, 2009, 11, 56-64.	4.6	396
7	p62/SQSTM1 cooperates with Parkin for perinuclear clustering of depolarized mitochondria. Genes To Cells, 2010, 15, 887-900.	0.5	345
8	Phosphorylated ubiquitin chain is the genuine Parkin receptor. Journal of Cell Biology, 2015, 209, 111-128.	2.3	217
9	The ubiquitin signal and autophagy: an orchestrated dance leading to mitochondrial degradation. EMBO Reports, 2016, 17, 300-316.	2.0	197
10	Parkin-catalyzed Ubiquitin-Ester Transfer Is Triggered by PINK1-dependent Phosphorylation. Journal of Biological Chemistry, 2013, 288, 22019-22032.	1.6	173
11	A Dimeric PINK1-containing Complex on Depolarized Mitochondria Stimulates Parkin Recruitment. Journal of Biological Chemistry, 2013, 288, 36372-36384.	1.6	168
12	Diverse Effects of Pathogenic Mutations of Parkin That Catalyze Multiple Monoubiquitylation in Vitro. Journal of Biological Chemistry, 2006, 281, 3204-3209.	1.6	166
13	Proteostasis and neurodegeneration: The roles of proteasomal degradation and autophagy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 197-204.	1.9	153
14	Critical role of mitochondrial ubiquitination and the OPTNâ€“ATG9A axis in mitophagy. Journal of Cell Biology, 2020, 219, .	2.3	114
15	Endosomal Rab cycles regulate Parkin-mediated mitophagy. ELife, 2018, 7, .	2.8	113
16	Direct interactions between NEDD8 and ubiquitin E2 conjugating enzymes upregulate cullin-based E3 ligase activity. Nature Structural and Molecular Biology, 2007, 14, 167-168.	3.6	105
17	Unconventional PINK1 localization mechanism to the outer membrane of depolarized mitochondria drives Parkin recruitment. Journal of Cell Science, 2015, 128, 964-78.	1.2	103
18	EL5, a rice N-acetylchitooligosaccharide elicitor-responsive RING-H2 finger protein, is a ubiquitin ligase which functions in vitro in co-operation with an elicitor-responsive ubiquitin-conjugating enzyme, OsUBC5b. Plant Journal, 2002, 30, 447-455.	2.8	98

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19	Ubiquitination of exposed glycoproteins by SCF ^{FBXO27} directs damaged lysosomes for autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8574-8579.	3.3	96
20	Does Impairment of the Ubiquitin-Proteasome System or the Autophagy-Lysosome Pathway Predispose Individuals to Neurodegenerative Disorders such as Parkinson's Disease?. Journal of Alzheimer's Disease, 2010, 19, 1-9.	1.2	89
21	Parkin recruitment to impaired mitochondria for nonselective ubiquitylation is facilitated by MITOL. Journal of Biological Chemistry, 2019, 294, 10300-10314.	1.6	79
22	Ubiquitin Ligase Activities of Bombyx mori Nucleopolyhedrovirus RING Finger Proteins. Journal of Virology, 2003, 77, 923-930.	1.5	69
23	DDB2, the xeroderma pigmentosum group E gene product, is directly ubiquitylated by Cullin 4A-based ubiquitin ligase complex. DNA Repair, 2005, 4, 537-545.	1.3	65
24	Mitochondrial hexokinase HKI is a novel substrate of the Parkin ubiquitin ligase. Biochemical and Biophysical Research Communications, 2012, 428, 197-202.	1.0	65
25	Structural basis for specific cleavage of Lys6-linked polyubiquitin chains by USP30. Nature Structural and Molecular Biology, 2017, 24, 911-919.	3.6	61
26	Phospho-ubiquitin: upending the PINKâ€“Parkinâ€“ubiquitin cascade. Journal of Biochemistry, 2016, 159, 379-385.	0.9	53
27	Site-specific Interaction Mapping of Phosphorylated Ubiquitin to Uncover Parkin Activation. Journal of Biological Chemistry, 2015, 290, 25199-25211.	1.6	50
28	Uncovering the roles of PINK1 and Parkin in mitophagy. Autophagy, 2010, 6, 952-954.	4.3	41
29	Parkinsonâ€™s disease-related DJ-1 functions in thiol quality control against aldehyde attack in vitro. Scientific Reports, 2017, 7, 12816.	1.6	41
30	Parkin Mediates Apparent E2-Independent Monoubiquitination In Vitro and Contains an Intrinsic Activity That Catalyzes Polyubiquitination. PLoS ONE, 2011, 6, e19720.	1.1	40
31	The principal PINK1 and Parkin cellular events triggered in response to dissipation of mitochondrial membrane potential occur in primary neurons. Genes To Cells, 2013, 18, 672-681.	0.5	38
32	Different dynamic movements of wildâ€type and pathogenic <scp>VCP</scp>s and their cofactors to damaged mitochondria in a <scp>P</scp>arkinâ€mediated mitochondrial quality control system. Genes To Cells, 2013, 18, 1131-1143.	0.5	35
33	Molecular mechanisms underlying PINK1 and Parkin catalyzed ubiquitylation of substrates on damaged mitochondria. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2791-2796.	1.9	35
34	Structural insights into ubiquitin phosphorylation by PINK1. Scientific Reports, 2018, 8, 10382.	1.6	35
35	Parkinâ€mediated ubiquitylation redistributes MITOL/March5 from mitochondria to peroxisomes. EMBO Reports, 2019, 20, e47728.	2.0	35
36	RMA1 an Arabidopsis thaliana Gene Whose cDNA Suppresses the Yeast secl5 Mutation, Encodes a Novel Protein with a RING Finger Motif and a Membrane Anchor. Plant and Cell Physiology, 1998, 39, 545-554.	1.5	27

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37	Discovery and Optimization of Inhibitors of the Parkinsonâ€™s Disease Associated Protein DJ-1. ACS Chemical Biology, 2018, 13, 2783-2793.	1.6	27
38	A palmitoylated RING finger ubiquitin ligase and its homologue in the brain membranes. Journal of Neurochemistry, 2003, 86, 749-762.	2.1	25
39	Constitutive Activation of PINK1 Protein Leads to Proteasome-mediated and Non-apoptotic Cell Death Independently of Mitochondrial Autophagy. Journal of Biological Chemistry, 2016, 291, 16162-16174.	1.6	23
40	Loss of peptide: <i>N</i> -glycanase causes proteasome dysfunction mediated by a sugar-recognizing ubiquitin ligase. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
41	Modes of interaction between the Arabidopsis Rab protein, Ara4, and its putative regulator molecules revealed by a yeast expression system. Plant Journal, 2000, 21, 341-349.	2.8	21
42	Unexpected mitochondrial matrix localization of Parkinson's diseaseâ€related <scp>DJ</scp>â€1 mutants but not wildâ€type <scp>DJ</scp>â€1. Genes To Cells, 2016, 21, 772-788.	0.5	21
43	Cleaved PGAM5 is released from mitochondria depending on proteasome-mediated rupture of the outer mitochondrial membrane during mitophagy. Journal of Biochemistry, 2019, 165, 19-25.	0.9	19
44	Overexpression of PRA2, a Rab/Ypt-family Small GTPase from Pea Pisum sativum, Aggravates the Growth Defect of Yeast ypt Mutants.. Cell Structure and Function, 2000, 25, 11-20.	0.5	9
45	Two sides of a coin: Physiological significance and molecular mechanisms for damage-induced mitochondrial localization of PINK1 and Parkin. Neuroscience Research, 2020, 159, 16-24.	1.0	8
46	The PARK2/Parkin receptor on damaged mitochondria revisitedâ€"uncovering the role of phosphorylated ubiquitin chains. Autophagy, 2015, 11, 1700-1701.	4.3	6
47	Tagged tags engage disposal. Nature, 2015, 524, 294-295.	13.7	6
48	Mammalian BCAS3 and C16orf70 associate with the phagophore assembly site in response to selective and non-selective autophagy. Autophagy, 2021, 17, 2011-2036.	4.3	6
49	Unfolding is the driving force for mitochondrial import and degradation of the Parkinson's disease-related protein DJ-1. Journal of Cell Science, 2021, 134, .	1.2	3
50	Cleaved PGAM5 dephosphorylates nuclear serine/arginine-rich proteins during mitophagy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 119045.	1.9	2