

Structure of PINK1 and mechanisms of Parkinson's disease

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Structure of PINK1 in complex with its substrate ubiquitin. <i>Nature</i> , 2017, 552, 51-56.	13.7	114
2	Vivid views of the PINK1 protein. <i>Nature</i> , 2017, 552, 38-39.	13.7	2
3	<sc>PINK</sc> 1 autophosphorylation is required for ubiquitin recognition. <i>EMBO Reports</i> , 2018, 19, .	2.0	88
4	Basal Mitophagy Occurs Independently of PINK1 in Mouse Tissues of High Metabolic Demand. <i>Cell Metabolism</i> , 2018, 27, 439-449.e5.	7.2	439
5	Building and decoding ubiquitin chains for mitophagy. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 93-108.	16.1	458
6	Autophagy and lysosomal pathways in nervous system disorders. <i>Molecular and Cellular Neurosciences</i> , 2018, 91, 167-208.	1.0	22
7	Structural Insights into the Forward and Reverse Enzymatic Reactions in Human Adenine Phosphoribosyltransferase. <i>Cell Chemical Biology</i> , 2018, 25, 666-676.e4.	2.5	12
8	Impact of altered phosphorylation on loss of function of juvenile Parkinsonism-associated genetic variants of the E3 ligase parkin. <i>Journal of Biological Chemistry</i> , 2018, 293, 6337-6348.	1.6	22
9	The Anthelmintic Drug Niclosamide and Its Analogues Activate the Parkinson's Disease Associated Protein Kinase PINK1. <i>ChemBioChem</i> , 2018, 19, 425-429.	1.3	51
10	The crystal structure of pseudokinase PEAK1 (Sugen kinase 269) reveals an unusual catalytic cleft and a novel mode of kinase fold dimerization. <i>Journal of Biological Chemistry</i> , 2018, 293, 1642-1650.	1.6	42
11	New insights into the structure of PINK1 and the mechanism of ubiquitin phosphorylation. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2018, 53, 515-534.	2.3	19
12	Cellular and Molecular Basis of Neurodegeneration in Parkinson Disease. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 109.	1.7	153
13	Structural insights into ubiquitin phosphorylation by PINK1. <i>Scientific Reports</i> , 2018, 8, 10382.	1.6	35
14	Modelling mitochondrial dysfunction in Alzheimer's disease using human induced pluripotent stem cells. <i>World Journal of Stem Cells</i> , 2019, 11, 236-253.	1.3	13
15	The Michael J. Fox Foundation for Parkinson's Research Strategy to Advance Therapeutic Development of PINK1 and Parkin. <i>Biomolecules</i> , 2019, 9, 296.	1.8	15
16	Mechanisms of PINK1, ubiquitin and Parkin interactions in mitochondrial quality control and beyond. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 4589-4611.	2.4	73
17	Intracellular and Intercellular Mitochondrial Dynamics in Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2019, 13, 930.	1.4	55
18	Earliest Mechanisms of Dopaminergic Neurons Sufferance in a Novel Slow Progressing Ex Vivo Model of Parkinson Disease in Rat Organotypic Cultures of Substantia Nigra. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2224.	1.8	15

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19	Neuronal Mitophagy: Lessons from a Pathway Linked to Parkinson's Disease. <i>Neurotoxicity Research</i> , 2019, 36, 292-305.	1.3	9
20	Therapeutic approaches to enhance PINK1/Parkin mediated mitophagy for the treatment of Parkinson's disease. <i>Neuroscience Letters</i> , 2019, 705, 7-13.	1.0	93
21	Beetles as Model Organisms in Physiological, Biomedical and Environmental Studies – A Review. <i>Frontiers in Physiology</i> , 2019, 10, 319.	1.3	73
22	A Structurally-Validated Multiple Sequence Alignment of 497 Human Protein Kinase Domains. <i>Scientific Reports</i> , 2019, 9, 19790.	1.6	79
23	How Phosphorylation by PINK1 Remodels the Ubiquitin System: A Perspective from Structure and Dynamics. <i>Biochemistry</i> , 2020, 59, 26-33.	1.2	9
24	The PEAK family of pseudokinases, their role in cell signalling and cancer. <i>FEBS Journal</i> , 2020, 287, 4183-4197.	2.2	20
25	Mitochondrial remodeling in human skin fibroblasts from sporadic male Parkinson's disease patients uncovers metabolic and mitochondrial bioenergetic defects. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165615.	1.8	24
26	Paradoxical Mitophagy Regulation by PINK1 and TUFm. <i>Molecular Cell</i> , 2020, 80, 607-620.e12.	4.5	39
27	PINK1/Parkin Mediated Mitophagy, Ca ²⁺ Signalling, and ER-Mitochondria Contacts in Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1772.	1.8	105
28	Emerging roles of the \pm Ca ²⁺ loop in protein kinase structure, function, evolution, and disease. <i>IUBMB Life</i> , 2020, 72, 1189-1202.	1.5	22
29	The PINK1-Parkin axis: An Overview. <i>Neuroscience Research</i> , 2020, 159, 9-15.	1.0	94
30	Quantitative Middle-Down MS Analysis of Parkin-Mediated Ubiquitin Chain Assembly. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1132-1139.	1.2	16
31	Deciphering the dual role and prognostic potential of PINK1 across cancer types. <i>Neural Regeneration Research</i> , 2021, 16, 659.	1.6	7
32	Molecular mechanisms and physiological functions of mitophagy. <i>EMBO Journal</i> , 2021, 40, e104705.	3.5	553
33	Scutellarin ameliorates high glucose-induced vascular endothelial cells injury by activating PINK1/Parkin-mediated mitophagy. <i>Journal of Ethnopharmacology</i> , 2021, 271, 113855.	2.0	38
36	PINK1 and Parkin: The odd couple. <i>Neuroscience Research</i> , 2020, 159, 25-33.	1.0	8
37	Autophagy in the mammalian nervous system: a primer for neuroscientists. <i>Neuronal Signaling</i> , 2019, 3, NS20180134.	1.7	13
39	Targeting PINK1 Using Natural Products for the Treatment of Human Diseases. <i>BioMed Research International</i> , 2021, 2021, 1-10.	0.9	7

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40	PTEN-induced kinase 1 (PINK1) and Parkin: Unlocking a mitochondrial quality control pathway linked to Parkinson's disease. <i>Current Opinion in Neurobiology</i> , 2022, 72, 111-119.	2.0	40
41	Disruption of Mitochondrial Homeostasis: The Role of PINK1 in Parkinson's Disease. <i>Cells</i> , 2021, 10, 3022.	1.8	21
42	Selective localization of Mfn2 near PINK1 enables its preferential ubiquitination by Parkin on mitochondria. <i>Open Biology</i> , 2022, 12, 210255.	1.5	10
43	Mechanism of PINK1 activation by autophosphorylation and insights into assembly on the TOM complex. <i>Molecular Cell</i> , 2022, 82, 44-59.e6.	4.5	42
45	Mapping of a N-terminal α -helix domain required for human PINK1 stabilization, Serine228 autophosphorylation and activation in cells. <i>Open Biology</i> , 2022, 12, 210264.	1.5	21
46	The role of the individual TOM subunits in the association of PINK1 with depolarized mitochondria. <i>Journal of Molecular Medicine</i> , 2022, 100, 747-762.	1.7	10
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48	Mitochondrial quality control in health and in Parkinson's disease. <i>Physiological Reviews</i> , 2022, 102, 1721-1755.	13.1	70
49	Current opinions on mitophagy in fungi. <i>Autophagy</i> , 2023, 19, 747-757.	4.3	9
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51	Mitochondrial-Dependent and Independent Functions of PINK1. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	4
52	Lipid Nanoparticles: Promising Treatment Approach for Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 9361.	1.8	23
53	Targeting Deubiquitinating Enzymes (DUBs) That Regulate Mitophagy via Direct or Indirect Interaction with Parkin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12105.	1.8	1
54	Mitochondrial dysfunctions, oxidative stress and neuroinflammation as therapeutic targets for neurodegenerative diseases: An update on current advances and impediments. <i>Neuroscience and Biobehavioral Reviews</i> , 2023, 144, 104961.	2.9	28
55	Analysis of the structural dynamics of the mutations in the kinase domain of PINK1 protein associated with Parkinson's disease. <i>Gene</i> , 2023, 857, 147183.	1.0	1
57	Parkin and mitochondrial signalling. <i>Cellular Signalling</i> , 2023, 106, 110631.	1.7	3
58	Structural Mechanisms of Mitochondrial Quality Control Mediated by PINK1 and Parkin. <i>Journal of Molecular Biology</i> , 2023, 435, 168090.	2.0	10
68	Mitophagy plays a "double-edged sword" role in the radiosensitivity of cancer cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 2024, 150, .	1.2	0

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