

+parkin in the rear+ Parkin KO Mouse ALZFORUM Pretty in PINK1 Cryo EM

Reveals How Kinase Anchors to Parkin Q311X Mouse.

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Original URL: <https://tools.orientwatchusa.com/parkin-in-the-rear.pdf>

Dec 17 2024 These parkin knockout KO mice were generated by creating a germline disruption in the parkin gene within exon 3 leading to a truncated transcript coding for the first 95 amino acids of mouse parkin protein fused in frame with the coding sequence of EGFP Goldberg et al. 2003

Loss of function Mar 14 2025 From this perch PINK1's kinase domain springs into action phosphorylating ubiquitin which recruits the ubiquitin ligase Parkin another PD linked protein to tag mitochondria for degradation

While the broad strokes of this process are well known precisely how PINK1 remains anchored to the membranes of ailing mitochondria was a puzzle Jun 18 2024 The Q311X mutation is a nonsense mutation that produces a C terminally truncated parkin just 155 amino acids long. Parkin Q311X mice line A have two copies of the transgene Tg integrated in tandem in a bacterial artificial chromosome BAC although its integration site is unknown

Notably as Endogenous Parkin Preserves Dopaminergic Substantia Nigra Neurons following Mitochondrial DNA Mutagenic Stress. *Neuron*. 2015 Jul 15; 87(2):371-81. PubMed

Juvenile Lysosomes and Worn Out Mitochondria Clog Axons in ALS Model Optineurin Mutations Cause ALS If Not Glaucoma Parkinsonism linked Protein Binds Parkin and Pink1 Drives Mitophagy Oct 26 2005 Therefore the authors proposed that parkin is a direct molecular target of oxidized dopamine and the dopamine induced loss of parkin activity represented a possible mechanism of the selective neurodegeneration in PD Mar 14 2025 One way is through the PINK1 Parkin mitophagy pathway with PINK1 serving as the damage sensor reviewed in Narendra and Youle 2024

PINK1 is targeted to all mitochondria but quickly removed from the surface of healthy mitochondria Qi Y, Zhang J, Zhang Y, Zhu H, Wang J, Xu X, Jin S, Wang C, Zhang F, Zhao M, Wu Z, Zhu H, Yan P

Curcuma wenyujin extract alleviates cognitive deficits and restrains pyroptosis through PINK1 Parkin-mediated autophagy in Alzheimer's disease Mar 13 2003 Shimura H, Hattori N, Kubo S, Mizuno Y, Asakawa S, Minoshima S, Shimizu N, Iwai K, Chiba T, Tanaka K, Suzuki T

Familial Parkinson disease gene product parkin is a ubiquitin protein ligase Jung YY, Son DJ, Lee HL, Kim DH, Song MJ, Ham YW, Kim Y, Han SB, Park MH, Hong JT. Loss of Parkin reduces inflammatory arthritis by inhibiting p53 degradation. *Redox Biol.* 2017 Aug 12; 666-673

Epub 2017 Apr 5 PubMed Jan 13 2018 Outlook of PINK1 Parkin signaling in molecular etiology of Parkinson's disease with insights into Parkin knockout models. *Zool Res.* 2023 May 18; 44(3):559-576. PubMed

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