

Extended data Figure 4-2: MtDNA deletions and mutations increase when endogenous Parkin is lost in PD-mito-Pstl mice striata. Statistical analyses for qPCR performed on DNA after LCM and on DNA from striatum at 4 months. p value and Degree of freedom (DF) after one-way ANOVA analysis and Tukey's multiple comparison test

Brain region, Age qPCR	LCM, 4m COXI	Str, 4m COXI	Str, 4m ND4	Str, 4m PstDel	Str, 4m L.R. PCR
	DF 18	DF 25	DF 24	DF 11	DF 15
Cntrl vs. PD-mito-Pstl	0.9899	0.4086	0.3704	-	0.0334
Cntrl vs. ParkKO	0.0103	0.0184	0.8286	-	0.4578
Cntrl vs. ParkKO-PD-mitoPstl	0.1449	0.7032	0.8045	-	0.0076
PD-mito-Pstl vs. ParkKO	0.0853	<0.0001	0.0371	-	0.3704
PD-mito-Pstl vs. ParkKO-PD-mitoPstl	0.0055	0.0303	0.0475	(Ttest) 0.0398	0.9481
ParkKO vs. ParkKO-PD-mitoPstl	0.5926	0.1034	0.9995	-	0.1312