

Supplementary Table S1. Statistical analysis of the oxidative stress assays

Genotype	Media	Lifespan (mean \pm SD)	75% mortality	n	P value against control	Figure
<i>WT</i> ♂	Rotenone	63.5 \pm 1.4	72 h	120	-	Fig. 1F
<i>PDK^P</i> ♂	Rotenone	18.9 \pm 0.6	16 h	120	<0.001	Fig. 1F
<i>WT</i> ♀	Rotenone	65.4 \pm 1.3	72 h	120	-	Fig. 1F
<i>PDK^P</i> ♀	Rotenone	21.9 \pm 0.8	24 h	120	<0.001	Fig. 1F
<i>WT</i> ♂	H ₂ O ₂	46.3 \pm 0.9	48 h	120	-	Fig. 1G
<i>PDK^P</i> ♂	H ₂ O ₂	29.8 \pm 1.0	40 h	90	<0.001	Fig. 1G
<i>WT</i> ♀	H ₂ O ₂	60.8 \pm 0.8	64 h	120	-	Fig. 1G
<i>PDK^P</i> ♀	H ₂ O ₂	28.8 \pm 1.0	40 h	120	<0.001	Fig. 1G
<i>hs</i>	Rotenone	102.9 \pm 2.7	120 h	120	<0.001	Fig. 2A
<i>hs DJ-1β^{ex54}</i>	Rotenone	88.3 \pm 1.8	96 h	120	-	Fig. 2A
<i>hs PDK DJ-1β^{ex54}</i>	Rotenone	101.8 \pm 2.7	120 h	120	<0.001	Fig. 2A
<i>hs</i>	H ₂ O ₂	83.3 \pm 1.9	96 h	150	<0.001	Fig. 2B
<i>hs DJ-1β^{ex54}</i>	H ₂ O ₂	61.8 \pm 2.0	72 h	120	-	Fig. 2B
<i>hs PDK DJ-1β^{ex54}</i>	H ₂ O ₂	82.7 \pm 3.0	96 h	120	<0.001	Fig. 2B
<i>WT</i>	H ₂ O ₂	115.1 \pm 2.4	120 h	120	<0.001	Fig. 3C
<i>DJ-1β^{ex54}</i>	H ₂ O ₂	89.1 \pm 1.5	96 h	120	-	Fig. 3C
<i>PDP^P</i>	H ₂ O ₂	124.8 \pm 1.9	136 h	120	<0.001	Fig. 3C
<i>PDP^P DJ-1β^{ex54}</i>	H ₂ O ₂	103.9 \pm 2.0	96 h	120	<0.001	Fig. 3C
<i>WT</i>	H ₂ O ₂	93.5 \pm 2.0	112 h	120	<0.001	Fig. 4B
<i>DJ-1β^{ex54}</i>	H ₂ O ₂	65.3 \pm 1.0	72 h	120	-	Fig. 4B
<i>VHL^{-/-} DJ-1β^{ex54}</i>	H ₂ O ₂	85.1 \pm 2.0	96 h	120	<0.001	Fig. 4B
<i>WT</i>	H ₂ O ₂	78.4 \pm 2.2	96 h	90	<0.001	Fig. 5A
<i>DJ-1β^{ex54}</i>	H ₂ O ₂	53.2 \pm 1.9	64 h	90	-	Fig. 5A
<i>DJ-1β^{ex54} CPI-613</i>	H ₂ O ₂	87.8 \pm 2.0	104 h	90	<0.001	Fig. 5A
<i>WT</i>	Rotenone	80.6 \pm 2.0	96 h	90	<0.001	Fig. 5B
<i>DJ-1β^{ex54}</i>	Rotenone	65.7 \pm 2.0	72 h	90	-	Fig. 5B
<i>DJ-1β^{ex54} CPI-613</i>	Rotenone	80.9 \pm 1.9	88 h	90	<0.001	Fig. 5B