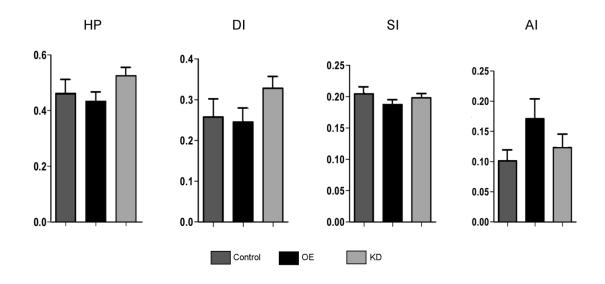
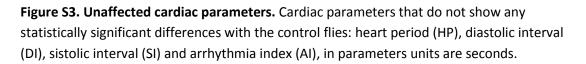


Figure S2. Metabolomic analysis of *Mhc-Gal4* **OE and KD fly thoraxes**. (A, B) OPLS-DA models allow discrimianion between the control and OE genotypes (A) and also between the control and KD genotypes (B). (C) relative abundance of metabolites, estimated as integrated peak area in the NMR spectrogram, showing statistically significant differences compared to the control





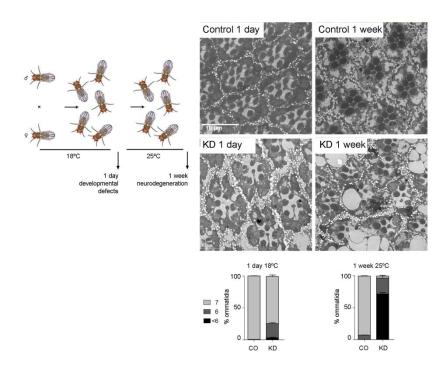


Figure S4. Analysis of neurodevelopmental vs neurodegenerative effects. To minimise developmental defects and highlight neurodegeneration, flies were cultured at 18°C to tamper *GMR-Gal4* expression during development, and then for a week at 25°C to get higher levels of Gal4 in differentiated retinal neurons. Retinas of control and KD flies were analysed at both time points, 1 day after eclosion and after 1 week at 25°C. (n=3, \geq 60 ommatidia each)

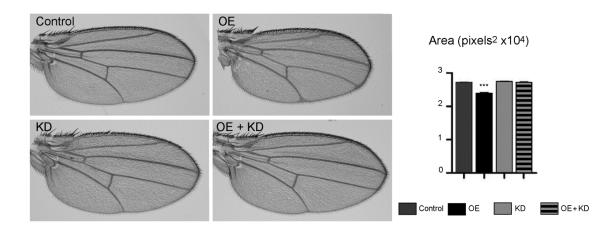


Figure S5. Alteration of Jp levels with *nub-Gal4*. The area of wing blades from flies bearing the *nub-Gal4* driver without any *UAS* construct (control), with *UAS-jp* (OE), with *UAS-jp*^{*RNAi*} (KD) or with both (OE + KD) was estimated. Only the OE wing blades have a statistical reduction in size, which is recovered by co-expression of *UAS-jp*^{*RNAi*} (n≥18; *** p < 0.001).