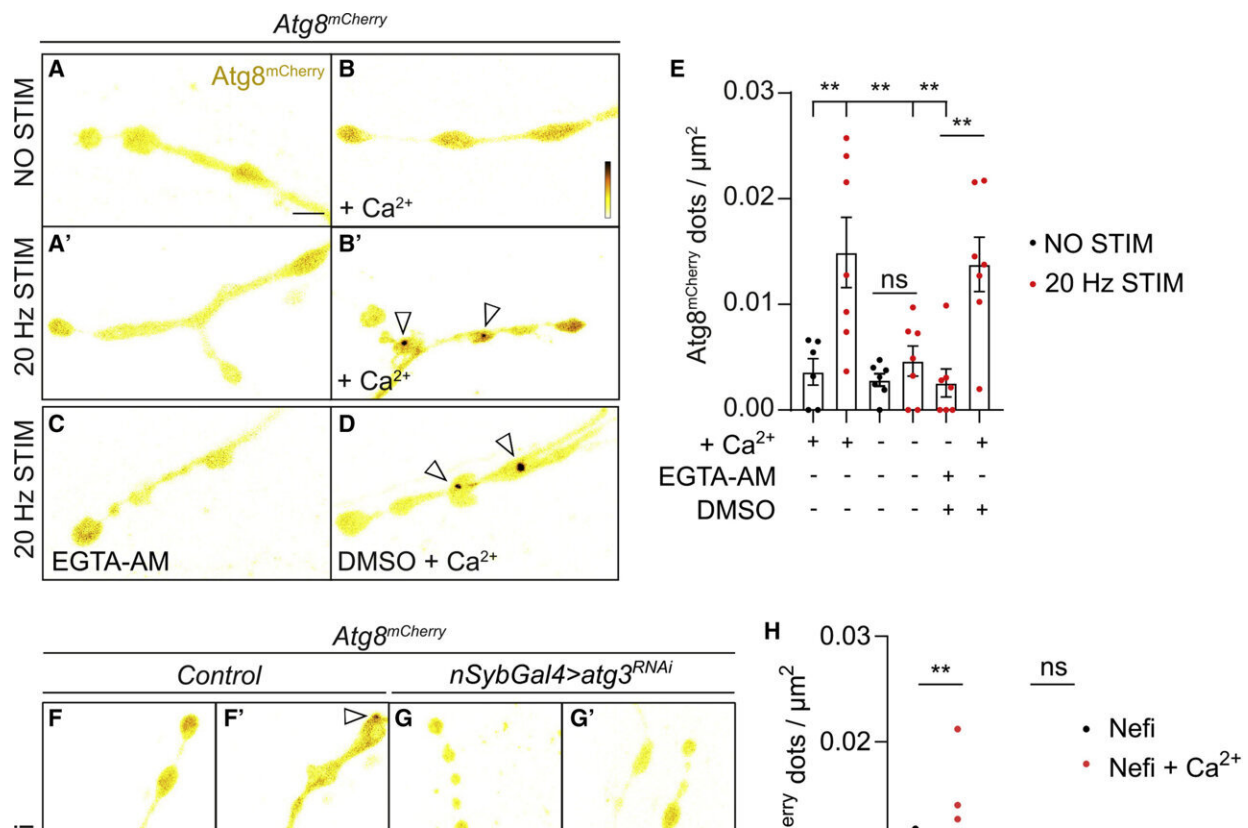


# How the brain's recycling system breaks down in Parkinson's disease

February 24 2023



(A–E) Live imaging of non-stimulated and stimulated (30 min, 20 Hz) *Drosophila* larval NMJ boutons expressing Atg8<sup>mCherry</sup> at endogenous levels in the absence of Ca<sup>2+</sup> (A and A'), presence of Ca<sup>2+</sup> (B and B'), presence of EGTA-AM (no Ca<sup>2+</sup> in the buffer) (C), and presence of DMSO plus Ca<sup>2+</sup> (D). Fluorescence intensities shown using scale (0–1292 gray value) indicated in (B). Quantification of the number of Atg8<sup>mCherry</sup> dots (arrowheads) (E). Error bars: mean  $\pm$  SEM; scale bar: 5  $\mu\text{m}$ . Statistical significance: one-way ANOVA with Tukey's multiple comparison test: \*\* p

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