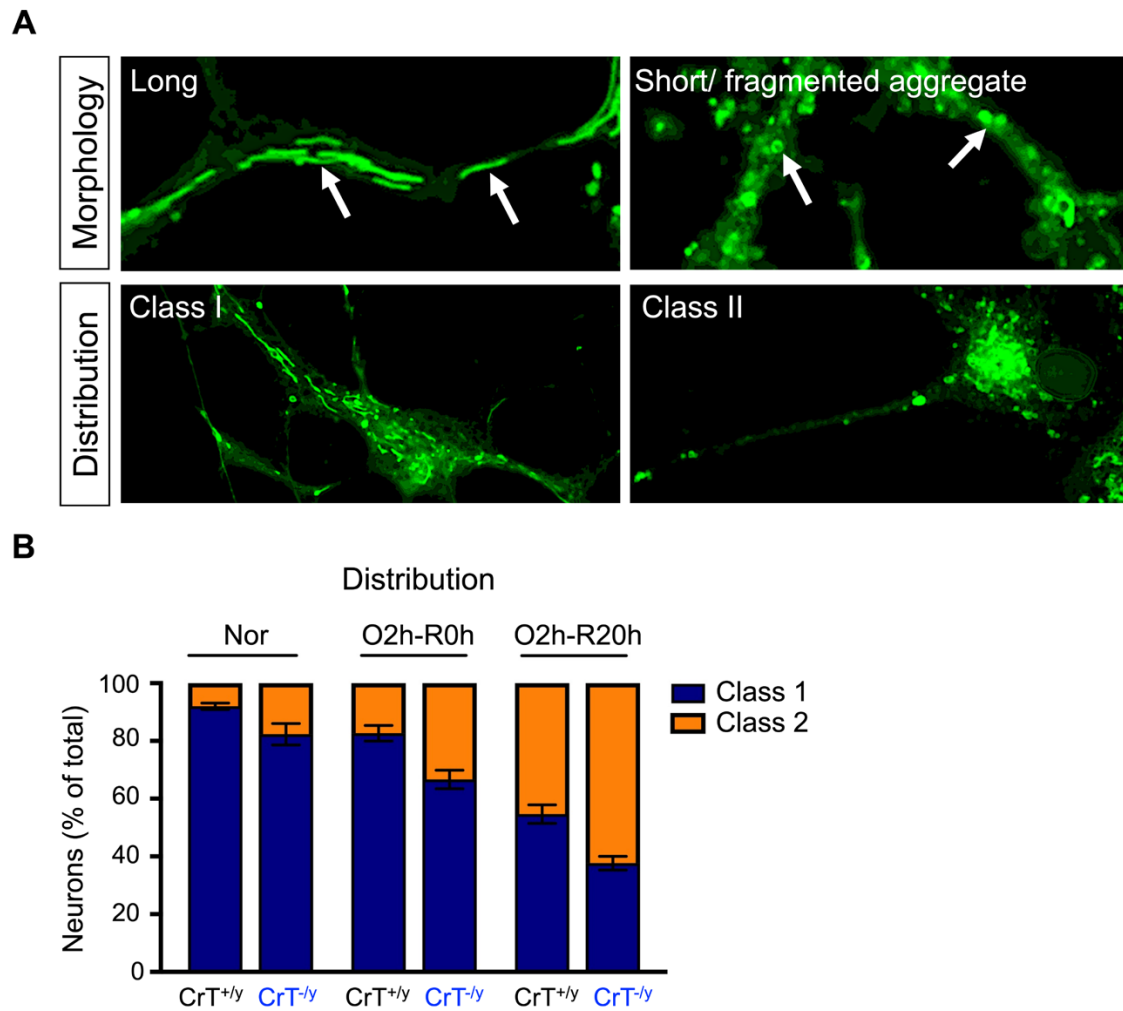
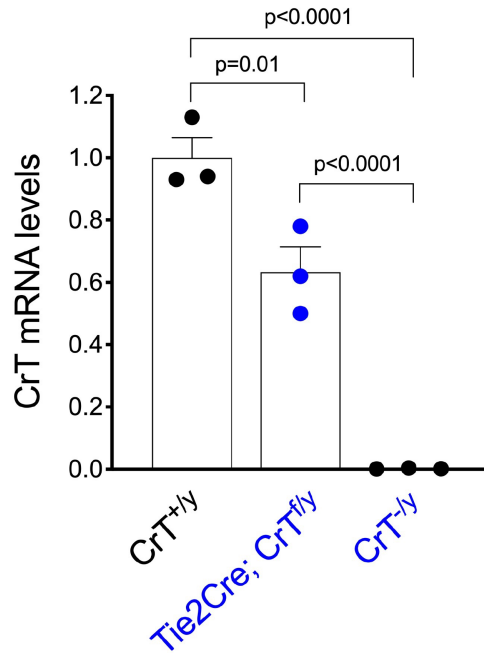


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Supplementary Figure 2 Creatine transporter deficiency effects mitochondrial distribution in cortical neurons. (A) Representative confocal images of cortical neurons displaying the mitochondria morphology and distribution. (B) Histogram of the distribution of CrT^{+/y} versus CrT^{-/y} cortical neurons in the two class of distribution after 2h OGD challenged, followed by 0 or 20 h recovery (O2h-R0h and O2h-R20h), respectively. The mitochondrial morphology was visualized by MitoTracker Green. Shown are mean $\pm$ SEM; the *p*-value was determined by Student's *t*-test.

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Supplementary Figure 3 CrT^{f/f} and Tie2-Cre mice were crossed to produce the endothelium CrT-mutant mice (Tie2Cre^{tg}; CrT^{f/y}), which showed reduced expression of *CrT* mRNA in the brain (n=3 for each genotype), consistent with CrT expression on the vascular endothelium in mouse brain. Shown are mean ± SEM, all analyses were performed using one-way ANOVA followed by Tukey's multiple comparisons post-hoc test.