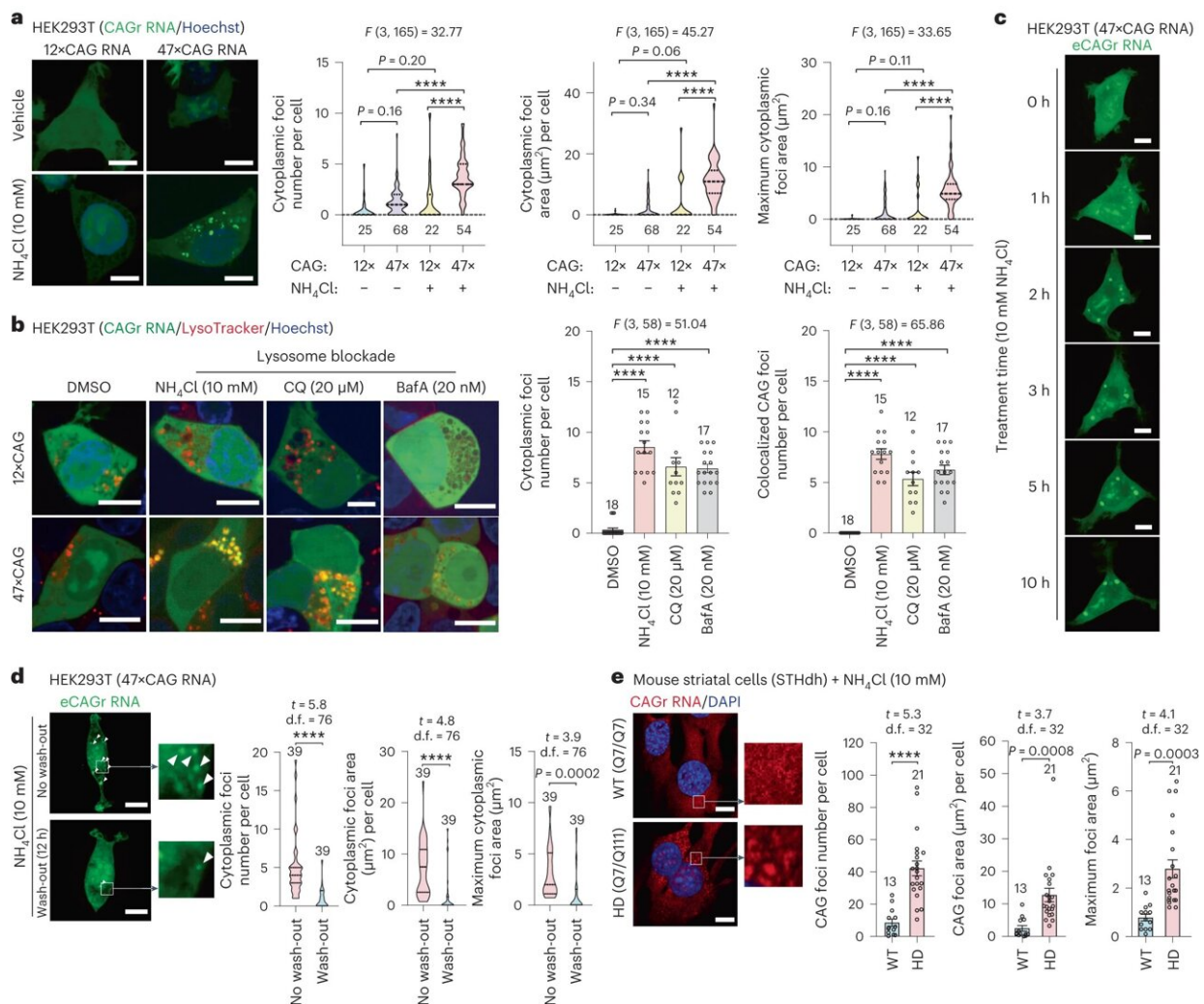


Study uncovers potential new source of genetic mutations that cause neurodegenerative disease

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The eCAGr RNA forms cytoplasmic gel-like condensates degraded by the lysosomes. **a**, Representative images and quantifications of eCAGr RNA

condensates (foci) in transfected HEK293T cells expressing the indicated RNA together with MS2CP–YFP as the foci detector. **b**, Representative images and quantifications of eCAGr RNA foci and the lysosomes in HEK293T cells treated with the indicated lysosome inhibitors (NH₄Cl, chloroquine (CQ) or bafilomycin A1 (BafA)). **c,d**, Snapshots and quantifications of the representative live-cell imaging (from 20) showing that the eCAGr RNA foci appeared in the cytoplasm after adding the lysosome inhibitor NH₄Cl but not the vehicle (culture medium) control (**c**), and disappeared after washing out NH₄Cl (**d**). eCAGr RNA foci are indicated by white arrows (**d**). **e**, Representative images and quantifications of RNA foci by RNA FISH in HD STHdh cells treated with the indicated lysosome inhibitors versus WT STHdh cells. Mean \pm s.e.m.; one-way ANOVA with multiple comparisons (**a** and **b**), or unpaired two-tailed *t*-tests (**d** and **e**). *n* = number of cells examined over three independent experiments. *****P*

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