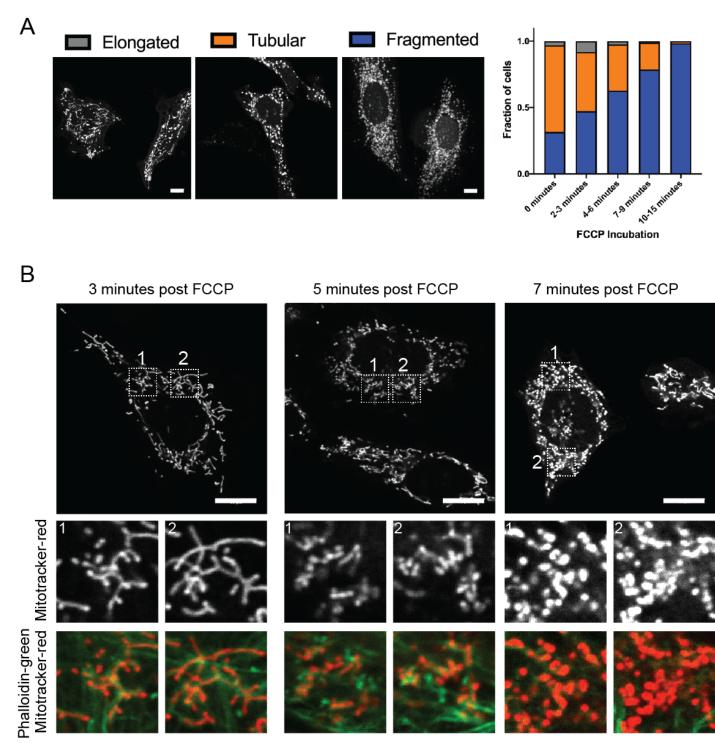
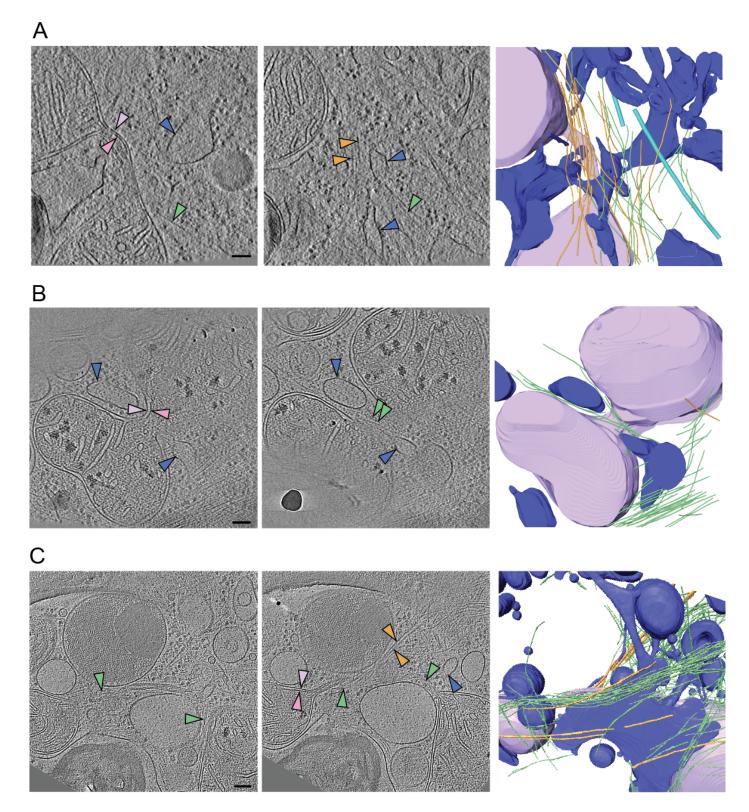
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Supplementary Figures



Supplementary Figure 1. Temporal dynamics of FCCP-induced mitochondrial fission. (A) Phenotypes of mitochondrial morphology (hyperfused, blue; intermediate, orange; and fragmented, gray) observed by fluorescence imaging of MitoTracker-Red-stained MEF cells following FCCP treatment. The percentage of cells exhibiting each phenotype at the indicated time after FCCP addition is shown at right. (B) Representative images of MitoTracker-Red-labeled cells at the indicated times after FCCP addition. Boxed regions are shown enlarged below, and overlaid with signal from phalloidin-labeled actin filaments (green). Scale bars are 10 µm.



Supplementary Figure 2. Ultrastructure of mitochondrial constriction sites is conserved across cell types, treatments. Tomogram slices at different heights through constricting mitochondria and corresponding 3-D segmented models from (**A**) an FCCP-treated U2OS cell, (**B**) an untreated MEF cell, and (**C**) an untreated INS-1E cell. Visible features are color-coded as in other figures: OMM (purple), IMM (pink), ER (blue), F-actin (green), septin filaments (orange). Scale bars are 100 nm.