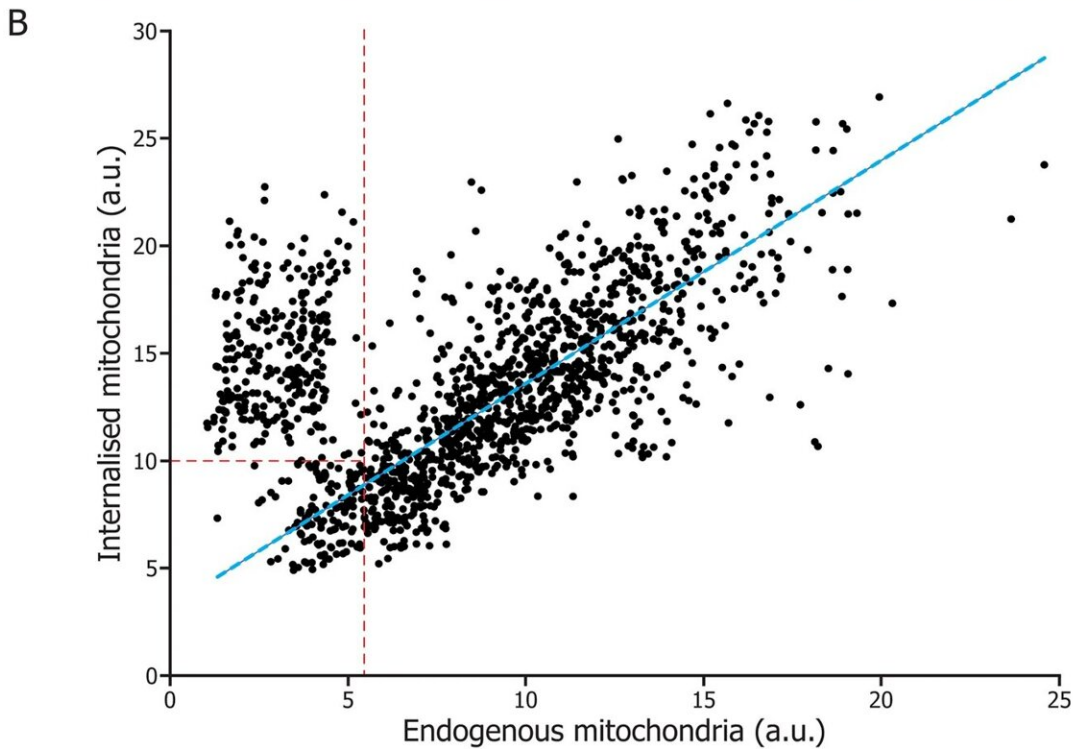
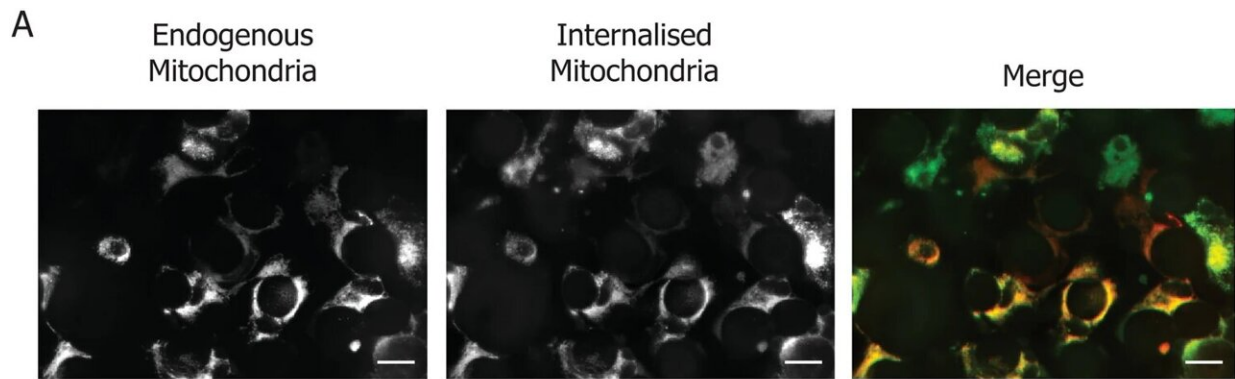


# Rescuing corneal cells from death with the help of mitochondria

April 14 2023



Endogenous mitochondrial mass in FECD cells influences mitochondrial

internalization. (A) Mitochondrial mass markers (mitotracker) were used to label exogenous internalized (green) and endogenous mitochondria (red). (B) Both mitotracker signals were plotted, each dot representing a single cell. The mitochondrial mass appeared to be distributed according to two distinct clusters that could be arbitrarily separated by the two red dotted lines drawn in Figure, the horizontal red dotted line at 10 a.u. illustrating the internalized mitochondria threshold and the vertical red dotted line representing the 27% lowest endogenous mitochondrial mass level (5.2 a.u.). A strong positive correlation is found between the amounts of endogenous and exogenous mitochondria in the cells outside the red dotted line enclosed area ( $R^2 = 0.66$ ;  $\rho = 0.66$ ;  $p$

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