

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: The source data behind the graphs in the paper.

File name: Supplementary Movie 1

Description: Mitotic progression of RPE1 cells in the low- and high-light illumination.

Time-lapse imaging of mitotic RPE1 cells expressing H2B-mNG and TUBG1-mRuby2 in the low and high conditions (3-min intervals). T=0 is assigned as NEBD. The movie corresponds to Fig. 1b.

File name: Supplementary Movie 2

Description: Mitotic progression under the cell-cycle synchronization.

Time-lapse imaging of mitotic RPE1 cells expressing H2B-mNG and TUBG1-mRuby2 synchronized with 300 nM palbociclib or with serum starvation plus 1 μ M aphidicolin under the high illumination conditions (3-min intervals). T=0 is assigned as NEBD. The movie corresponds to Fig. 2a, f.

File name: Supplementary Movie 3

Description: Effect of antioxidants against light-induced mitotic abnormalities.

Time-lapse imaging of mitotic RPE1 cells expressing H2B-mNG and TUBG1-mRuby2 in the presence of antioxidants (3-min intervals). T=0 is assigned as NEBD. The movie corresponds to Fig. 3a.

File name: Supplementary Movie 4

Description: Mitotic progression in the short-interval live imaging.

Time-lapse imaging of mitotic RPE1 cells expressing H2B-mNG and TUBG1-mRuby2 in the control condition (3-min intervals, left) and short-interval condition (30-sec intervals, center and right). T=0 is assigned as NEBD. The movie corresponds to Fig. 5b.