

Supplemental Materials

Molecular Biology of the Cell

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Supplemental Figure Legends

Supplemental Video 1. REF52 control cells recorded over a period of 72 hr, one frame every 20 min. Recording was done with a 20X objective in DIC. Bar = 90 μm . Note frequent and normal mitosis during the recording.

Supplemental Video 2. REF52 were treated with 10 μM DCB for 24 hr, then released and recorded over a period of 72 hr, one frame every 20 min. Recording was done with a 20X objective in DIC. Bar = 90 μm . Note that binucleate cells are abundant, and show normal motility, indicating complete recovery from DCB, but do not undergo mitosis.

Supplemental Figure 1. Enlarged image of Figure 6C. The arrow indicates a binucleate SA- β -galactosidase positive cell. Scale bar: 20 μm .

Supplemental Figure 2. Wide-field images (20X objective) of control random cycling REF52 cells (above), and REF52 transfected with siRNA to PRC1 (below) at 48 hr post-transfection with PRC1 siRNA and stained with anti- α -tubulin antibody. Abundant binucleate cells, large and flat, are present after transfection. Scale bars: 40 μm .

Panopoulos Supplemental Figure 1



Panopoulos Supplemental Figure 2

REF52 Control



REF52 PRC1 siRNA

