

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Time-lapse live imaging of representative confocal microscopic movie of human embryos undergoing bipolar segregation using fluorescent labeling.

File Name: Supplementary Movie 2

Description: Time-lapse live imaging of representative confocal microscopy movie of human embryos undergoing multipolar segregation

File Name: Supplementary Movie 3

Description: Time-lapse live imaging of representative confocal microscopic movie of human embryos exhibiting a high-AR (1.67) spindle

File Name: Supplementary Movie 4

Description: Time-lapse live imaging of representative confocal microscopic movie of human embryos exhibiting a low-AR (1.18) spindle.

File Name: Supplementary Movie 5

Description: Time-lapse live imaging of representative confocal microscopic movie of a human embryo exhibiting a spindle with a unilateral defocused pole.

File Name: Supplementary Movie 6

Description: Time-lapse live imaging of representative confocal microscopic movie of a human embryo that has a spindle with a bilateral defocused pole.

File Name: Supplementary Movie 7

Description: Time-lapse live imaging of representative confocal microscopic movie of a human embryo exhibiting a lagging chromosome from prophase to telophase

File Name: Supplementary Movie 8

Description: Time-lapse live imaging of representative confocal microscopic images of a human embryo exhibiting a lagging chromosome after cytokinesis.

File Name: Supplementary Movie 9

Description: Time-lapse live imaging of representative confocal microscopy movie of the second mitosis in human embryos with multiple nuclei at the 2-cell stage.