**Title:** Supplementary Movie 1:
**Description:** Diploid-aneuploid mosaic chimera (8-cell chimera generated at the 8-cell stage, diploid cells are labelled with red membrane mT/mG and aneuploid cells with H2B-GFP), cultured in vitro showing apoptosis of an aneuploid cell during pre- to post-implantation development, Related to Figure 2a.

**Title:** Supplementary Movie 2:
**Description:** Diploid-aneuploid mosaic chimera (16-cell chimera generated at the 8-cell stage, diploid cells are labelled with red membrane mT/mG and aneuploid cells with H2B-GFP), cultured in vitro showing apoptosis of an aneuploid cell during pre- to post-implantation development, Related to Figure 2b.

**Title:** Supplementary Movie 3:
**Description:** Diploid-aneuploid mosaic chimera (8-cell chimera generated at the 8-cell stage, diploid cells are labelled with red membrane mT/mG and aneuploid cells with H2B-GFP), which underwent implantation in vivo showing apoptosis of an aneuploid cell in the epiblast during early post-implantation development, Related to Figure 2c.

**Title:** Supplementary Movie 4:
**Description:** Pre-implantation aneuploid embryo development from the late 8-cell stage to the late blastocyst stage in vitro in the presence of SYTOX Orange Dead Cell Stain, Related to Supplementary Figure 7a.