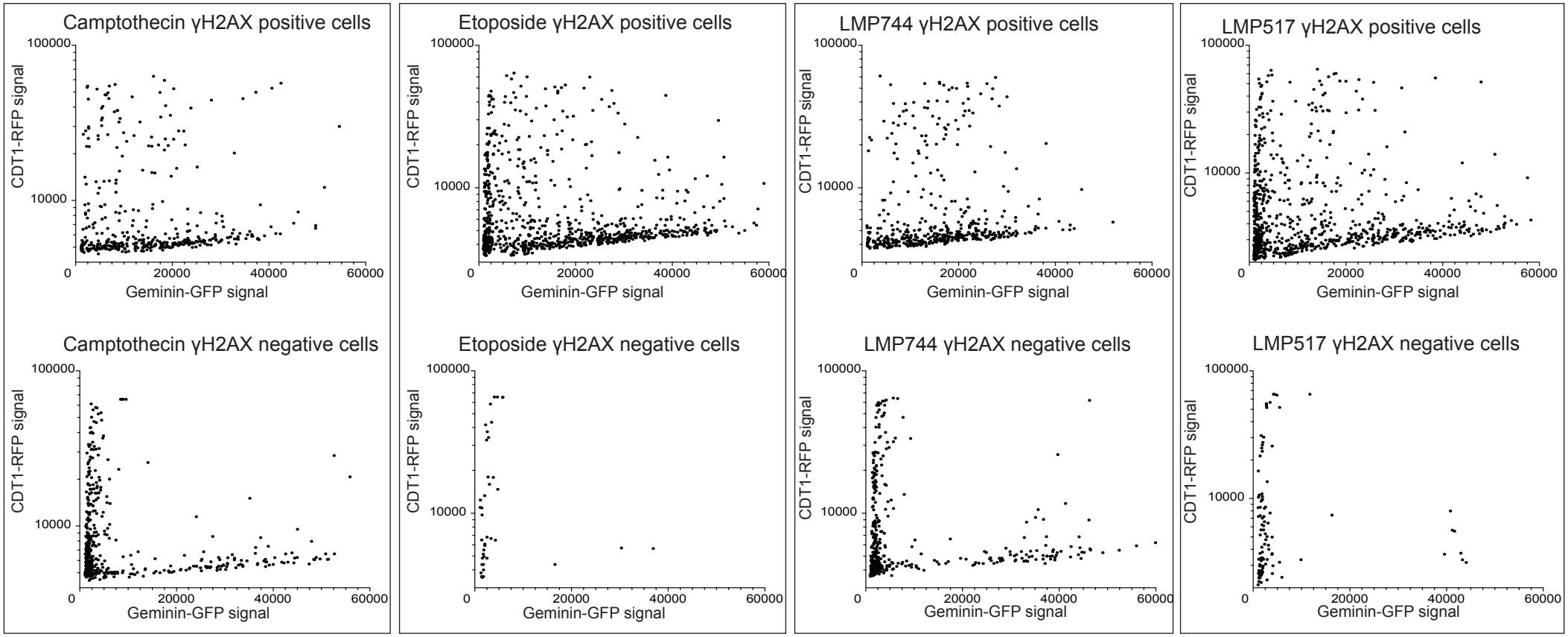

Supplementary Figure 3: The fluoroindenoisoquinoline LMP517 induces DNA damage in all phases of the cell cycle. Distribution of γH2AX-positive (upper panels) and -negative cells (lower panels) after 1 hour of treatment with CPT (1μM), etoposide (ETP) (50 μM), LMP517 (1 μM) or LMP744 (1 μM). The upper graphs represent γH2AX-positive cells defined by having a γH2AX signal above a threshold set at 24,000 AU (arbitrary unit) (Set to be the signal displayed by less than 5% of the non-treated (NT) cells). The lower graphs represent γH2AX-negatives cells only. Cells are distributed depending on their position in the cell cycle and the expression of the tagged cell-cycle reporter peptides, mAzami-Green-tagged N-terminus of geminin (green channel) on the x-axis or mKusabira-Orange2-tagged N-terminus of CDT1 (red channel) on the y-axis. Cells expressing GFP only are cells in G2 phase and cells expressing RFP only are in G1 phase. If cells express both cells are entering or are already in S phase. Cells showing no signal are mitotic cells. Dots correspond to individual cells (n = 888 for each of the 5 sets).