

Fig S4. Differential effects of NUDT1 downregulation Induced by *Fn* on cell cycle and apoptosis. (A) The proportion of cells in the S-phase cell cycle in the *Fn*-treated group was observed to significantly increase relative to the control group. However, upon the downregulation of NUDT1, a notable reduction in the percentage of cells in the S phase was observed. (B) Despite the addition of *Fn* (MOI=100) to the FaDu cell population, no significant enhancement in apoptosis was recorded, but instead, shNUDT1 group saw upregulation. Thus, we hypothesize that DDR induced by *Fn* may be more attributed to autophagy.

