Supplementary Figure 1

MOI





MOI



Supplementary Fig 5



Supplementary Figure 4



Supplementary Figure Legends

Supplementary Figure 1. Combined treatment with reovirus and radiation enhances cell kill in tumor cell lines. MTT assay of cells infected with reovirus (MOI 0 to 10) and irradiated (0 or 5 Gy). Wells are representative of at least 3 repeats. Data are normalised to the uninfected (0), unirradiated (0 Gy) control. This figure complements Fig. 2B in the manuscript in which data are normalised to their respective irradiated controls (ie unirradiated cells all normalised to the 0 Gy, uninfected control and irradiated cells all normalised to the 5 Gy, uninfected control).

Supplementary Figure 2. Clonogenic survival assay of cells infected with reovirus and exposed to radiation. HCT116 cells were infected (MOI 0 or 0.001) and/or irradiated (3Gy) in T75 flasks, then re-plated at densities of 1×10^3 , 2×10^3 , and 1×10^4 in 6 well plates. Crystal violet staining was carried out 14 days post-infection. Expt = experiment. These experiments demonstrate that even at the lowest MOI, survival with reovirus alone or reovirus plus radiotherapy is 0%. The most likely explanation of this phenomenon is carry-over of replication-competent oncolytic virus. This finding precluded the use of clonogenic assays in further experiments.

Supplementary Figure 3. Photomicrographs of Cells infected with reovirus. Cells were plated, infected (MOI 0 or 10) on day 1. Photographs were taken in phase contrast using x10 objective on day 0 and day 5. These data demonstrate significant cell loss in HCT116 and Skmel-28 cell lines.

Supplementary Figure 4. HCT116 cells were infected with reovirus at MOIs between 0 and 50 and irradiated 16 hours later at doses of 0-10 Gy. Cell survival was determined at 96 hours by crystal violet assay. Data are normalised to the uninfected control (0) at each radiation dose (Gy) for each group of data. Data are representative of three repeats. These data complement those presented in Figure 3A in which all data are normalised to the 0 Gy, uninfected control.