SUPPLEMENTAL FIGURE LEGENDS

Supplemental Figure 1: Genetic recombination in Kras.Smad4-/- mouse tumors. DNA was isolated from tumor and grossly normal lung from two K5CrePR*.LSL-Kras^{G12D}.Smad4^{fl/fl} animals. Genotyping from lung and tumor DNA was identical; however the recombinant Smad4 and Kras alleles were detected only in tumor.

Supplemental Figure 2: Confirmation of reduced Smad4 expression in cell lines. (A-C) Reduced Smad4 mRNA expression in Beas2B airway epithelial cells and H1299 cells with a stable Smad4 knockdown and A549 lung adenocarcinoma cells with a Zn finger engineered Smad4 deletion. (D) Reduced Smad4 protein levels in each cell line.

Supplemental Figure 3: pH2AX and apoptosis in chemotherapy treated A549 cells.

Increased pH2AX staining in Annexin V positive cells after treatment with 10μM camptothecin or 100μM etoposide. Cells were simultaneously stained for apoptosis (Annexin V) and pH2AX then assayed by flow cytometry as described in the Methods.