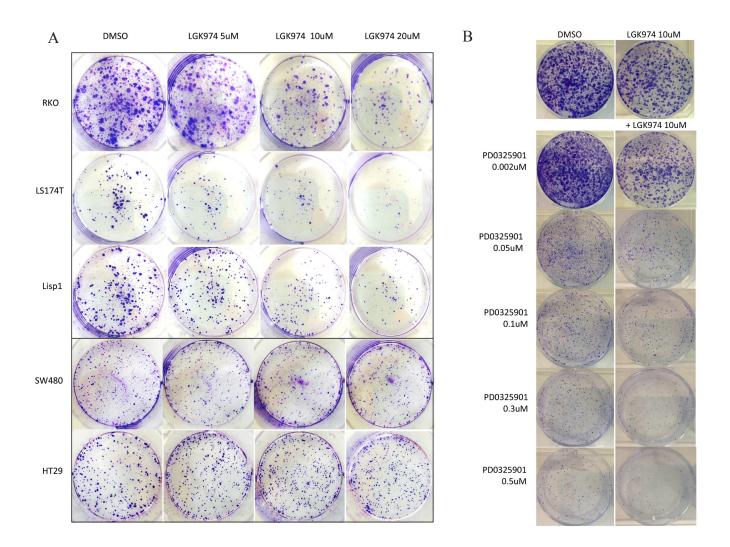
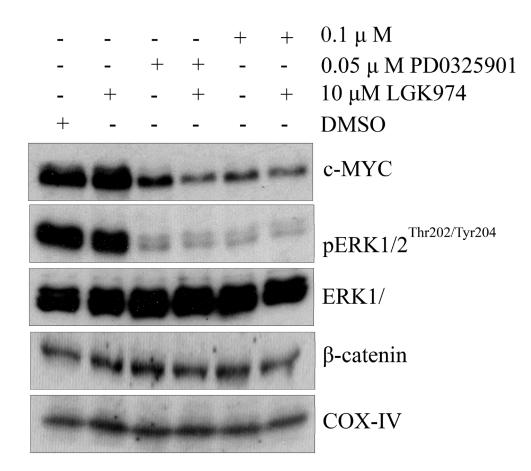
RNF43 and **ZNRF3** are commonly altered in serrated pathway colorectal tumorigenesis

SUPPLEMENTARY FIGURES AND TABLES



Supplementary Figure S1: A. Examples of cell colony images showing increasing inhibition of growth of *RNF43/ZNRF3* mutant cell lines (RKO, LS174T, Lisp1) following treatment with increasing concentrations of Porcupine inhibitor (LGK974), compared to unaffected growth of wild type cell lines (SW480, HT29). B. Cell colony images showing treatment of RKO with MEK inhibitor (PD0325901) 0.002uM – 0.5uM with and without application of 10uM LGK974. From 0.05uM PD0325901 treatment there was inhibition of growth. This was further accentuated with combination of 10uM LGK974 treatment.



Supplementary Figure S2: RKO cells were plated and treated with either DMSO, the Porcupine inhibitor LGK974 (at 10uM), and/or the MEK inhibitor PD0325901 (at 0.1uM or 0.05uM). At 48 hour post-treatment, cells were lysed and protein was extracted. Western blots show that upon MEK1/2 and PD0325901 inhibition, there was a marked decrease of phospho- ERK1/2 and c-MYC levels. COX-IV was used as a loading control.

Supplementary Table S1: Clinical and molecular data according to A) *RNF43* and B) *ZNRF3* mutation status per cohort

See Supplementary File 1

Supplementary Table S2: A) *RNF43* transcript expression values of cancers with *RNF43* mutation data. (*BRAF* mutant/MSI n=13, *BRAF* mutant/MSS n=6, *BRAF* wild type n=27)

B) *ZNRF3* transcript expression values of cancers with *ZNRF3* mutation data. (*BRAF* mutant/MSI n=13, *BRAF* mutant/MSS n=6, *BRAF* wild type n=27)

See Supplementary File 1