Supplementary Figures

Figure 1. Alkaline phosphatase activity, following BMP7 treatment in various colon cancer cells lines. Note the prominent increase in ALP activity following BMP7 treatment in all cancer cell lines but the RKO. Treatments were performed in triplicates, and each data point represented the mean OD405 of the three replicates with the respective standard deviation.

Figure 2. Occludin (OCLN) and beta-catenin (B-CAT) immunohistochemistry. (A) Assessment of OCLN dedifferentiation gradient across the various compartments of primary CRC. All magnifications X400, except left figure X210. (B) Immunohistochemical differences between B-CAT nuclear- and membranous-expressing cancer cells. The two figures on the right demonstrate Ki-67 and laminin-alpha-3 expression in the same area as the figure on the left. All magnifications X200, except left figure X240.

Figure 3. Relative gene expression of BMP2 (A), BMP4 (B) BMP7 (C) BMPR1A, (D), BMPR1B (E), BMPR2 (F), FST (G), GREM1 (H) and SNAI1 (I) in cancerous and adjacent healthy lesions of 24 CRC patients of the cDNA array.

Figure 4. Representative heatmaps from studies exported from Genevestigator, demonstrating the relative gene expression of various gene probes (columns) in colorectal cancer or control tissues.
Figure 2

A
Control-normal colon

Normal mucosa
Well-differentiated

Poorly-differentiated
Tumor Budding

B

β-CATENIN

N

M

KI-67

LAMA3