

Colon Cancer Cells Evade Drug Activity by Enhancing Drug Metabolism

Detailed genotypes:

Figure 1:

+/+ or Y; +/+; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a, f and g), +/+ or Y; *UAS-Ras^{G12V}/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a, b and h), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a and b), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (b, d and e), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-Hex-C-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (d and e), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-UGP-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (d and e), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-Sgl-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (d and e), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-GlcAT-P-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (d and e), +/+ or Y; +/*UAS-Sgl-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (f), +/+ or Y; +/*UAS-GlcAT-P-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (f).

Figure 2:

+/+ or Y; *UAS-pgd-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (b), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-pgd-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (b g and h), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* *UAS-zw-RNAi* (c), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-rpi-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c), +/+ or Y; *UAS-Ras^{G12V}/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (d and f), +/+ or Y; +/+; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (e), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (g and h).

Figure 3:

+/+ or Y; *UAS-Ras^{G12V}/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a, b and d), +/+ or Y; *UAS-Ras^{G12V}/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c, e, e', j and k), +/+ or Y; *UAS-Ras^{G12V}/UAS-Sgl-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c), +/+ or Y; *UAS-Ras^{G12V}/UAS-GlcAT-P-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c), +/+ or Y; +/*UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c, e and e'), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (d), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (f, g and i), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-Akt-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (f and g), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-AS160-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (h and i), *UAS-Arm^{CA}/+* or Y; *UAS-GFP/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (e, e', j and k), *UAS-Arm^{CA}/+* or Y; *UAS-Ras^{G12V}/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (e, e', j and k).

Figure 4:

VilCreER^{T2} *Apc^{fl/fl}*, *Kras^{G12D/+}*, *Trp53^{fl/fl}* (A-F).

Figure 5:

+/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a), +/+ or Y; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-HDAC1-RNAi*; *byn-*

Gal4, *UAS-GFP*, *tub-Gal80^{TS}/+* (a and b), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c, d, e and g-k), *+/+* or *Y*; *+/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (f and k).

Figure 6:

+/+ or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-Sgl-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (b and c).

Supplementary Figure 1:

+/+ or *Y*; *UAS-Ras^{G12V}/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a, c, d and f), *+/+* or *Y*; *+/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (b and f), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c, d and f), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (e), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/UAS-Sgl-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (e).

Supplementary Figure 2:

+/+ or *Y*; *+/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a, b and d), *+/+* or *Y*; *+/UAS-Sgl-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a), *+/+* or *Y*; *+/UAS-GlcAT-P-RNAi*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (c), *UAS-Arm^{CA}/+* or *Y*; *+/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (b).

Supplementary Figure 3:

VilCreER^{T2} *Apc^{fl/fl}*, *Kras^{G12D/+}*, *Trp53^{fl/fl}* (a-h).

Supplementary Figure 4:

+/+ or *Y*; *UAS-GFP/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a), *+/+* or *Y*; *UAS-Ras^{G12V}/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a), *+/+* or *Y*; *UAS-Ras^{G12V}*, *Apc-RNAi*, *UAS-P53-RNAi/+*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (a, c and d), *+/+* or *Y*; *UAS-Ras^{G12V}/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/+* (b), *+/+* or *Y*; *UAS-Ras^{G12V}/UAS-GFP*; *byn-Gal4*, *UAS-GFP*, *tub-Gal80^{TS}/UAS-nej-RNAi* (b).