

Additional File 5: Fisher's exact test was used to calculate the probability of p53-miRs targeting known p53-interactants. Fisher's exact test was performed online at the MATFORSK (<http://www.matforsk.no/ola/fisher.htm>).

p53-miRs tend to target p53-interactants

We calculated the probability of p53-miRs regulating the p53 interactants. We mined the BioGRID database (Stark et al., 2006) and currently there are 141 known interactants of p53. Surprisingly, 114 of these p53-interactants were predicted to be regulated by p53-miRs and were shown to be statistically significant ($p = 1.41e-21$).

2x2 Contingency table for validated p53 miRNA target genes & Known p53 interactants

Validated p53 miR target genes	Known p53 interactants		
		YES	NO
YES	114	12383	12497
NO	27	17476	17503
	141	29859	30000

p-value = 1.41e-21

TABLE = [114, 12383, 27, 17476]

Left : p-value = 1

Right : p-value = **1.4119768198028186e-21**

2-Tail : p-value = 1.6095343985747658e-21

References

Stark, C., Breitkreutz, B.J., Reguly, T., Boucher, L., Breitkreutz, A. and Tyers, M. (2006) BioGRID: a general repository for interaction datasets. *Nucleic Acids Res*, **34**, D535-539.