

Table S6 –Top 3 enriched pathways of the 5 miRNAs identified in GSE19536 by

(A) functional annotation summary and (B) pathway ranking summary in miRSystem

(A) Functional annotation summary

Database	Item	Gene	Raw ^a	Empirical ^b
REACTOME	APOPTOSIS	8	1.33*10 ⁻⁵	7.59*10 ⁻⁴
REACTOME	AXON_GUIDANCE	11	4.23*10 ⁻⁶	1.74*10 ⁻³
REACTOME	DEVELOPMENTAL_BIOLOGY	13	6.35*10 ⁻⁵	4.84*10 ⁻³

^aRaw *P*-values were obtained by a hypergeometric test.

^bEmpirical *P*-values were compared with 1,000 random selections.

(B) Pathway ranking summary

Database	Item	Gene	Score ^a
REACTOME	DEVELOPMENTAL_BIOLOGY	91	4.035
REACTOME	AXON_GUIDANCE	61	3.732
KEGG	FOCAL_ADHESION	47	3.044

^aScore was calculated based on the weighted pathway-ranking method described in “Methods”.