

Supplementary material

Integrative analysis of small non-coding RNAs predict a piRNA/miRNA- CCND1/BRAF/HRH1/ATXN3 regulatory circuit that drives oncogenesis in Glioblastoma

Rojalin Nayak¹, Trisha Chattopadhyay¹, Pooja Gupta¹, and Bibekanand Mallick^{1,*}

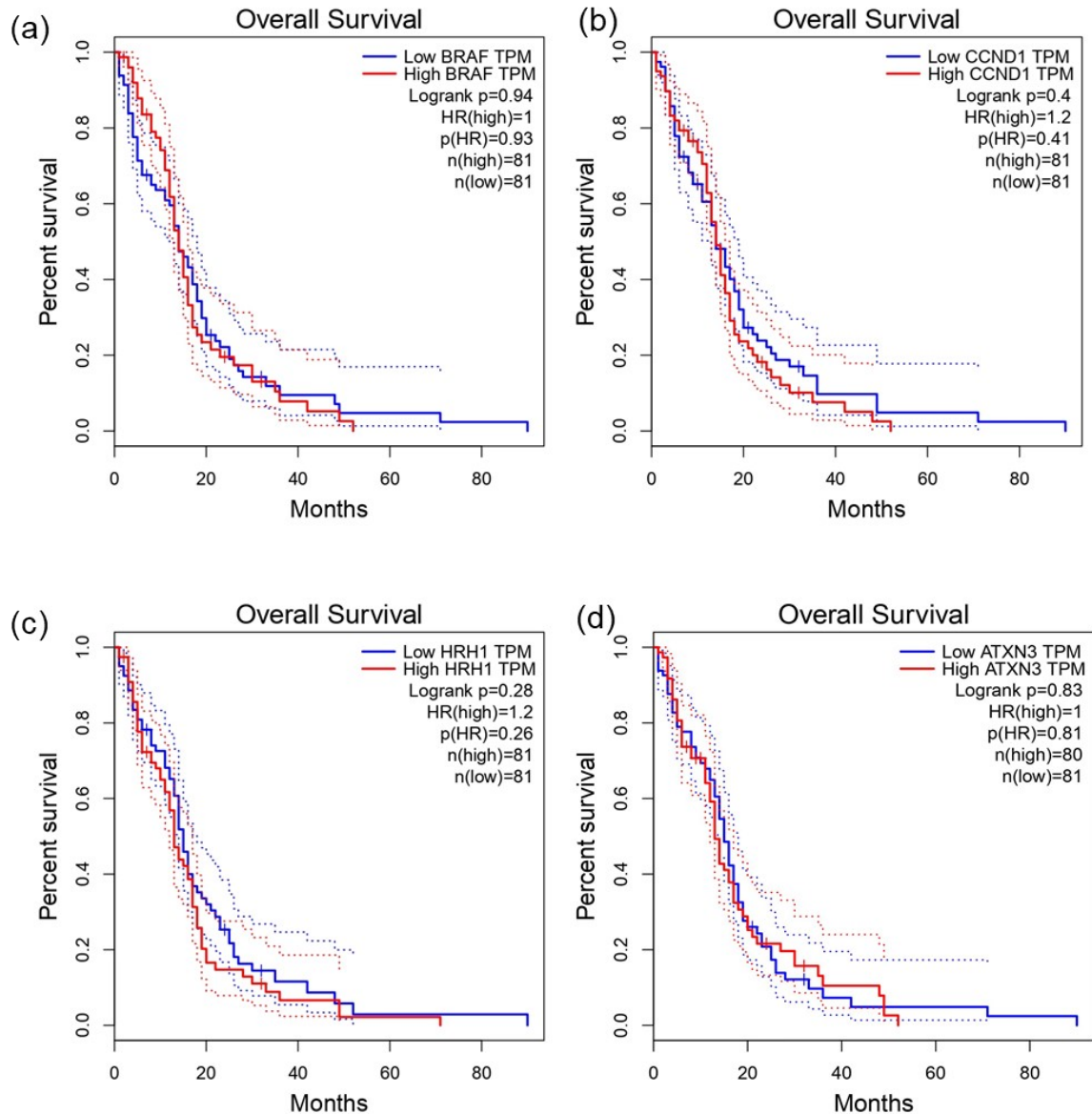
¹RNAi and Functional Genomics Lab., Department of Life Science, National Institute of
Technology, Rourkela-769008, Odisha, India

Running title: Dysregulated small RNAs implicated in oncogenicity of glioblastoma

* **Correspondence to:** Dr Mallick, RNAi, and Functional Genomics Lab., Department of Life
Science, National Institute of Technology, Rourkela, PIN-769008, Odisha, India

Emails: vivek.iitian@gmail.com, mallickb@nitrkl.ac.in

Tel: +91-661-2462685; Fax: +91-661-2472926



Supplementary **Fig S1**. The overall survival analysis of (a) BRAF, (b) CCND1, (c) HRH1, and (d) ATXN3. The high expression of all the genes shows lower survivability than low expression.

Table S1 List of all primers used in the study for qRT-PCR

Genes/miRNAs/piRNAs		Oligo sequences
PIWIL1 (HIWI)	F	TCAGGAGTTATCGTTAGCAGAG
PIWIL1 (HIWI1)	R	TGTCAGCCCGAAATGGTTAGT
PIWIL2 (HILI)	F	AGGCAGAGGCCATGTATTTGG
PIWIL2 (HILI)	R	AAGCATTTCCCGTTTCAGAGG
PIWIL4 (HIWI2)	F	GAAGCATCCTCTAGCAATGGC
PIWIL4 (HIWI2)	R	CCATGAAGGTACTTCCAGCATCA
BRAF	F	CCCCAAGTCACCACAAAACC
BRAF	R	CGGACTGTA ACTCCACACCTT
HRH1	F	AGATGTGTGAGGGCAACAAGA
HRH1	R	CAAGCAGATAGTGCTCAGGA

ATXN3	F	GCCTCTGATACTCTGGACTGTT
ATXN3	R	TGTGCTCAACATTGCCTGAA
CCND1	F	GCTGCGAAGTGGAAACCATC
CCND1	R	CCTCCTTCTGCACATTTGAA
RPL13	F	GTTCGGTACCACACGAAGGT
RPL13	R	TACGGAGACTAGCGAAGGCT
piR-36182	F	ATTACAGGCCTGAGCCACTGT
piR-56037	F	TGGGATTACAGGCATGAGC
piR-51761	F	AGGCTGGAGTGCAGTGCT
piR-59425	F	TTGCCCAGGCTGGAGTGCAGTA
piR-50603	F	AGCCTGGGTGACAGAGTGT
hsa-miR-5p	F	TCGTACCGTGAGTAATAATGCG
hsa-miR-378i	F	ACTGGACTAGGAGTCAGAAGG
hsa-miR-105-5p	F	AACACGCTCAAATGCTCAGACTC
hsa-miR-365a-3p	F	TAATGCCCTAAAAATCCTTAT
hsa-miR-5001-3p	F	TTCTGCCTCTGTCCAGGTCCTT
U6	F	CTCGCTTCGGCAGCACATATACT
U6	R	ACGCTTCACGAATTTGCGTGTC