Supplemental Data for manuscript entitled

**PROGmiR: A tool for identifying prognostic miRNA biomarkers in multiple cancers using publicly available data.**
Supplementary figures 1-4

Prognostic plot created using PROGmiR for isoforms a, b, c and d of miRNA hsa-miR-181 identified as prognostically important biomarker in Acute Myeloid Leukemia (AML) by Chen et al, using TCGA data
Figure 1

hsa-mir-181a-1

hsla_mir_181a_1 (TCGA LAML)

HAZARD RATIO = 0.797
MODEL P VALUE = 0.001
HIGH Expr
LOW Expr

3 YEARS
3 YEARS
Figure 2

hsa-mir-181b-1
Figure 3

hsa-mir-181c
hsa-mir-181d
Figure 5

Prognostic plot for sum of expression of hsa-mir-181 isoforms a, b, c and d in TCGA AML data
Figure 6

Prognostic plot created using PROGmiR for miRNA hsa-miR-374 identified as prognostically important biomarker in Lung Squamous cell carcinoma (LUSC) by Annilo et al, using TCGA data.
Supplementary figures 7-16

Prognostic plot created using PROGmiR for 10 miRNAs identified as prognostically important biomarker in Glioblastoma (GBM) by Somasundaram et al, using TCGA data
Figure 7

**hsa_miR_20a (TCGA GBM)**

- **HAZARD RATIO = 0.27**
- **MODEL P VALUE = 0.003**

Legend:
- **HIGH EXPR**
- **LOW EXPR**

- **OVERALL SURVIVAL**
  - **0.0**
  - **0.2**
  - **0.4**
  - **0.6**
  - **0.8**
  - **1.0**

- **days**
  - **0**
  - **1000**
  - **2000**
  - **3000**
  - **4000**

- **3 YEARS**
- **5 YEARS**
Figure 8

hsa_miR_106a (TCGA GBM)

HAZARD RATIO = 0.226
MODEL P VALUE = 0.004
- **HIGH EXPR**
- **LOW EXPR**

OVERALL SURVIVAL

days

0 1000 2000 3000 4000

0.0 0.2 0.4 0.6 0.8 1.0

3 YEARS 5 YEARS
Figure 9

hsa_miR_17_5p (TCGA GBM)

OVERALL SURVIVAL

HAZARD RATIO = 0.227
MODEL P VALUE = 0.001

HIGH EXPR
LOW EXPR

3 YEARS
5 YEARS

days

0
1000
2000
3000
4000
Figure 13

hsa_miR_221 (TCGA GBM)

HAZARD RATIO = 4.26
MODEL P VALUE = 0
HIGH EXPR
LOW EXPR

OVERALL SURVIVAL

days

0 1000 2000 3000 4000

0.0 0.2 0.4 0.6 0.8 1.0

3 YEARS 5 YEARS
Figure 14

**hsa_miR_146b (TCGA GBM)**

- **HAZARD RATIO = 1.999**
- **MODEL P VALUE = 0.051**

Legend:
- **HIGH EXPR**
- **LOW EXPR**

Survival curves for different expression levels with key survival metrics indicated.
Figure 16

Graph showing overall survival over days with hazard ratio and model p-value.