

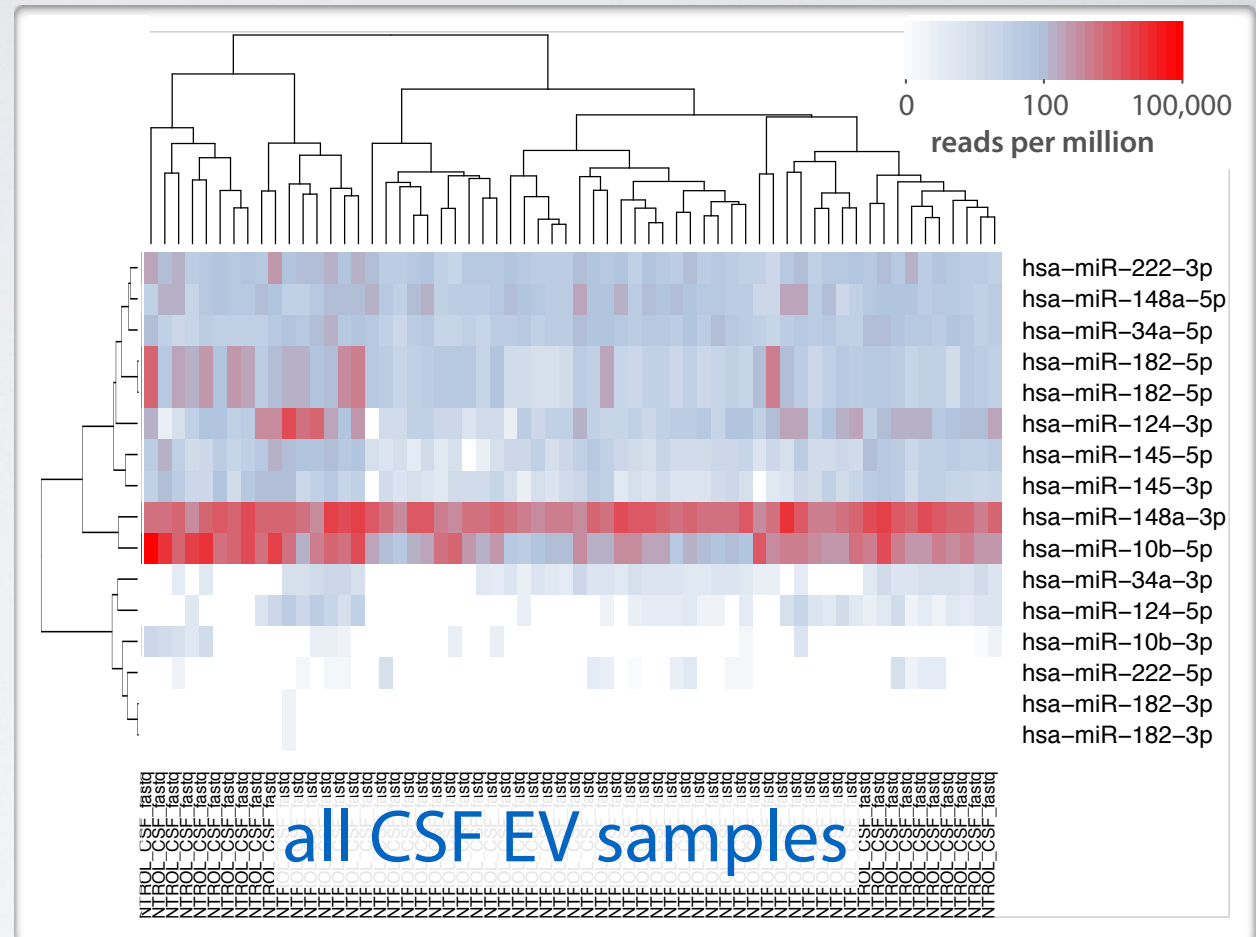
cellular miRNA biomarkers detected in CSF



Table 2 – MicroRNAs associated with survival using the LASSO regression test. Significant ($p < 0.05$) results are shown in bold. Nine microRNAs were reported as non-zero coefficients, five were negatively associated with survival and four were positively associated with survival. Seven were differentially expressed in unmatched non-tumor samples compared to glioblastoma samples.

Mirna	LASSO penalized coefficient for risk score (log 2)	Fold change in GBM compared to non-tumor
miR-124a	0.062	0.032
miR-10b	0.015	10.005
miR-222	0.162	0.278
miR-34a	0.005	3.121
miR-182	-0.021	3.708
miR-148a	0.092	2.752
miR-145	-0.066	0.541
miR-370	-0.044	1.274
miR-9	-0.032	0.863

TCGA: glioblastoma vs. control
Hayes et al. 2014



CSF data courtesy of
the Jensen lab @ TGen

- miR-148a clearly and consistently abundant in human cerebrospinal fluid
- detectable in other biofluids (esp. blood)?