Gene expression analysis in Puleo seq

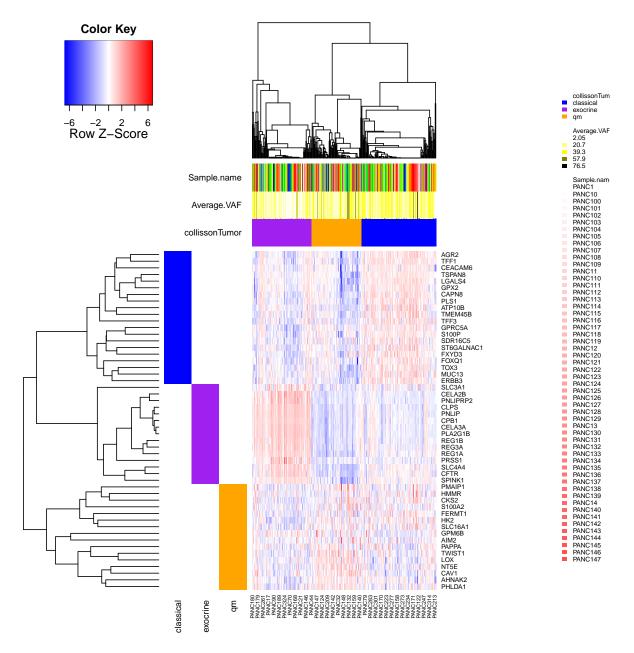
Ryan Kawalerski

May 3, 2019

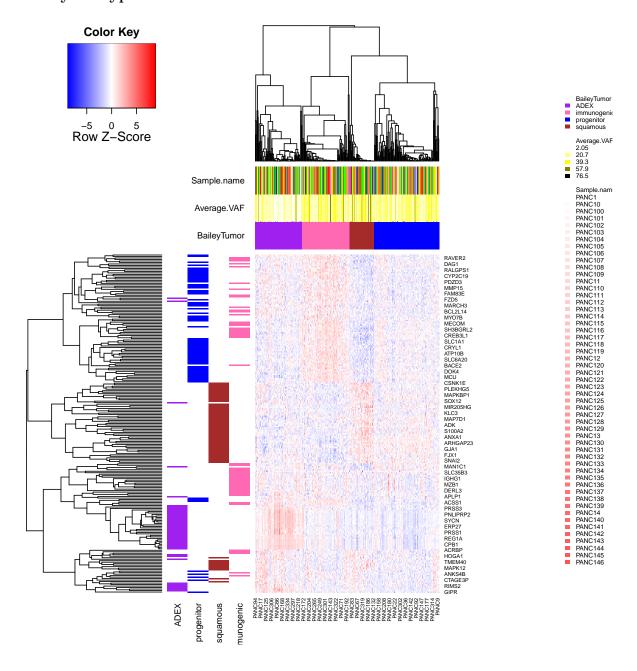
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Assign dataset and remove nonvariant genes	
Add genesets to dataset sample info	
Consensus clustering	

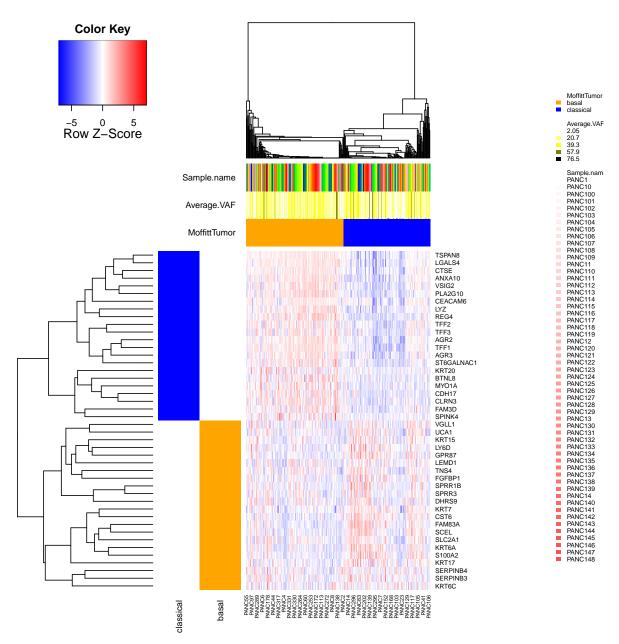
Collisson subtypes



Bailey subtypes



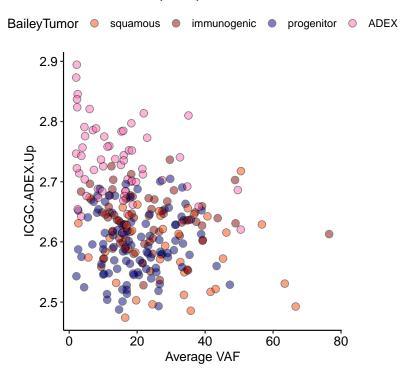
Moffitt subtypes



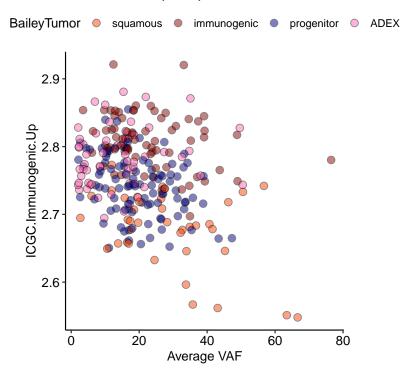
Gene signature expression by purity and subtypes

Signatures and average VAF colored by Bailey subtypes

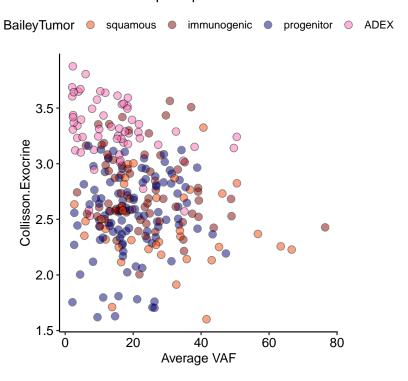
Puleo RNAseq samples

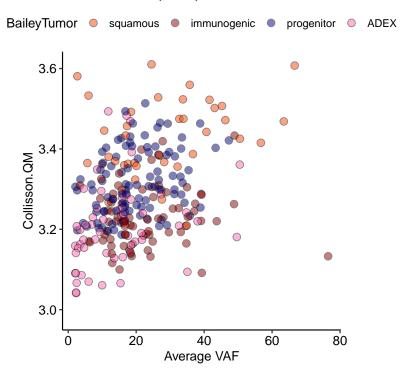


[1] -0.27207 ## [1] 6.22e-06



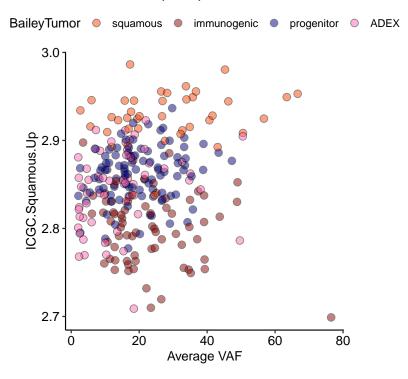
[1] -0.27956 ## [1] 3.35e-06



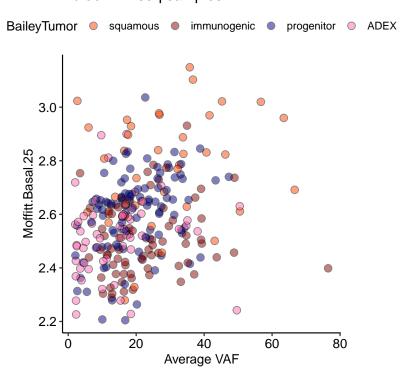


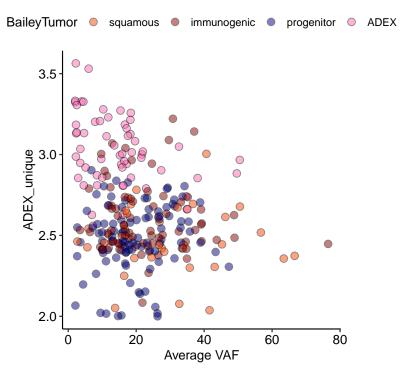
[1] 0.32705

[1] 4e-08



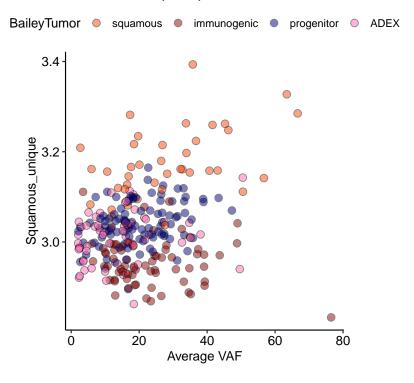
[1] 0.13103 ## [1] 0.03201589



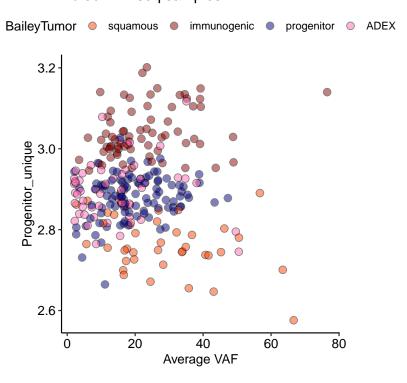


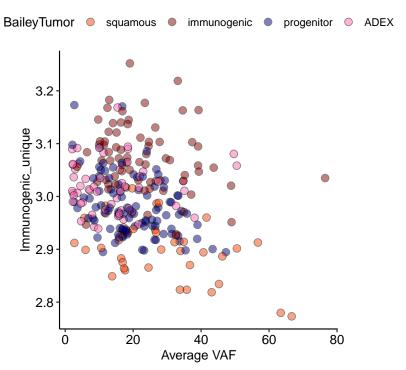
[1] -0.22488

[1] 0.00020575

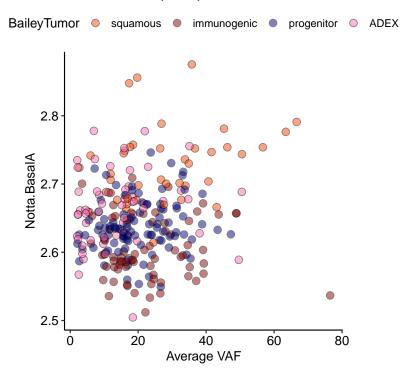


[1] 0.24632 ## [1] 4.571e-05

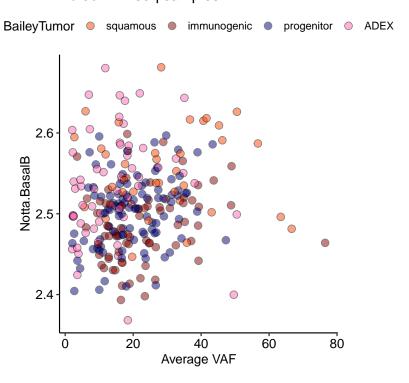




[1] -0.26057 ## [1] 1.555e-05

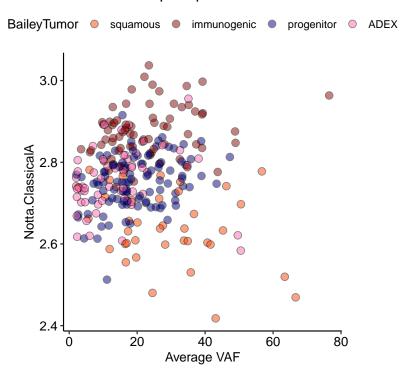


[1] 0.13884 ## [1] 0.02300767

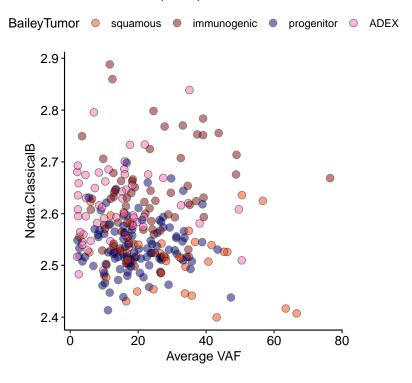


[1] 0.1301 ## [1] 0.03326556

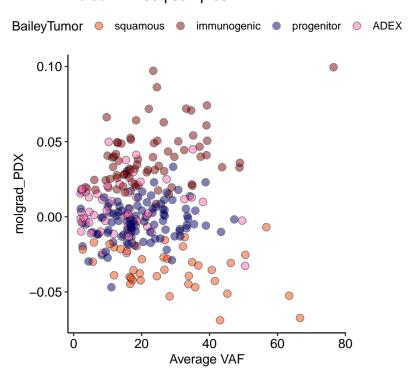
Puleo RNAseq samples

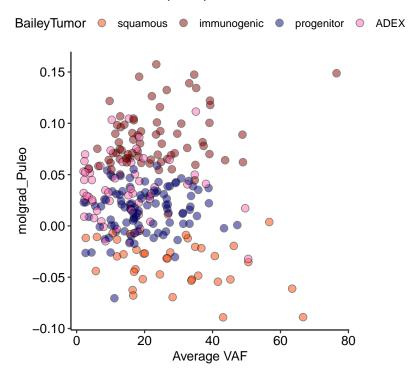


[1] 0.02893 ## [1] 0.6373474

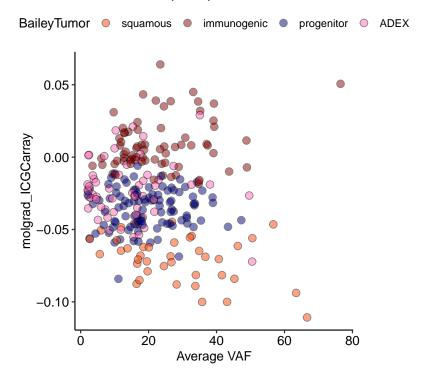


[1] -0.02574 ## [1] 0.6748186

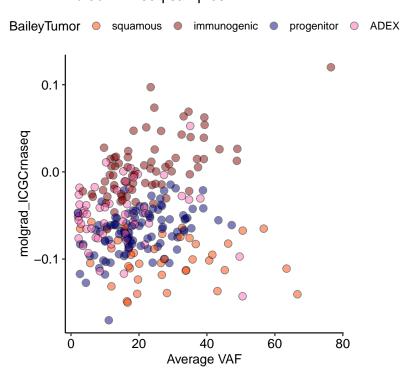


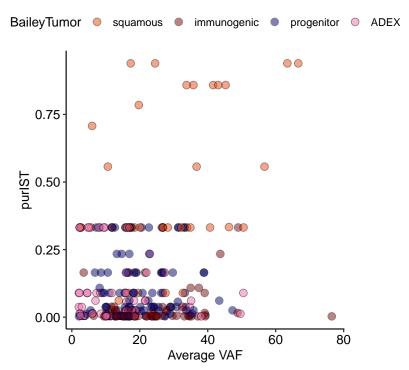


[1] -0.0429 ## [1] 0.4843792



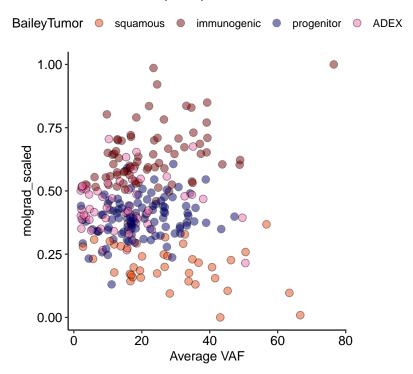
[1] -0.07827 ## [1] 0.2014654





[1] 0.25157

[1] 3.095e-05

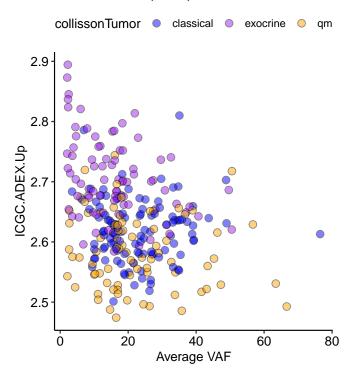


[1] 0.00755

[1] 0.9021067

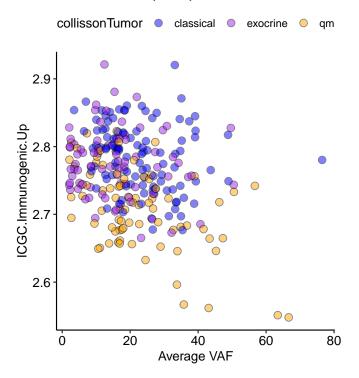
Signatures and average VAF colored by Collisson subtypes

Puleo RNAseq samples

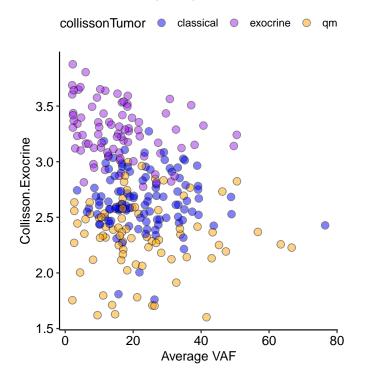


[1] -0.27207

[1] 6.22e-06

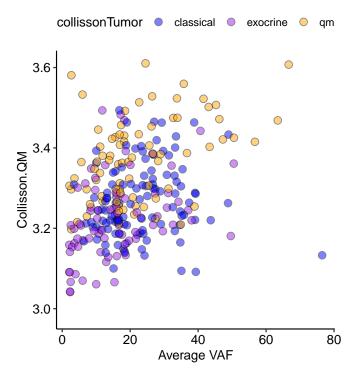


[1] -0.27956 ## [1] 3.35e-06



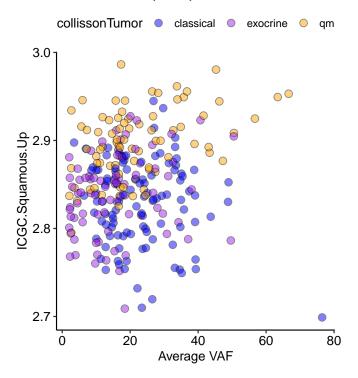
[1] -0.23084 ## [1] 0.00013729

Puleo RNAseq samples

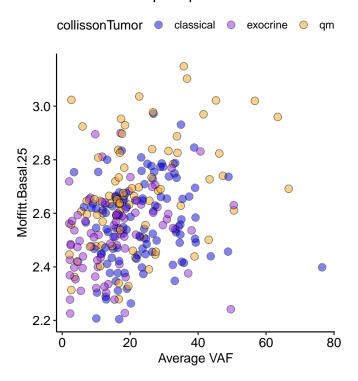


[1] 0.32705

[1] 4e-08

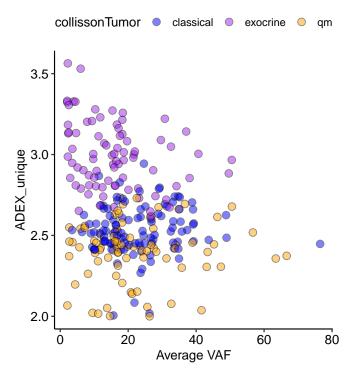


[1] 0.13103 ## [1] 0.03201589

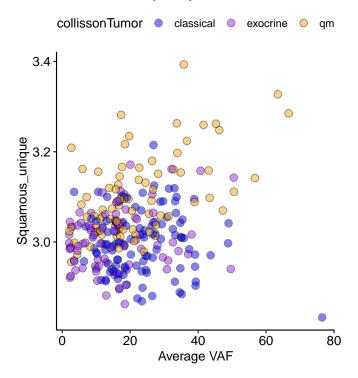


[1] 0.28846 ## [1] 1.56e-06

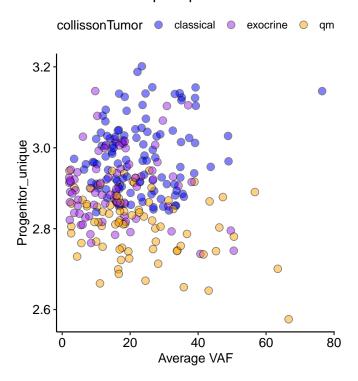
Puleo RNAseq samples



[1] -0.22488 ## [1] 0.00020575

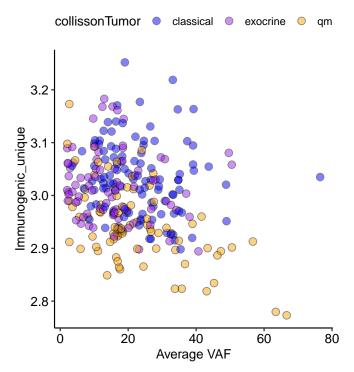


[1] 0.24632 ## [1] 4.571e-05

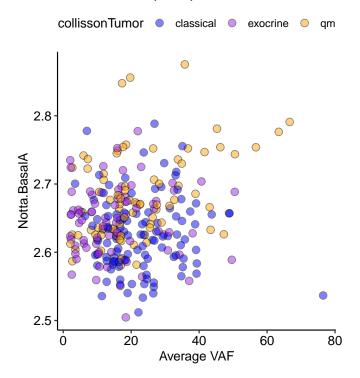


[1] -0.00409 ## [1] 0.9468884

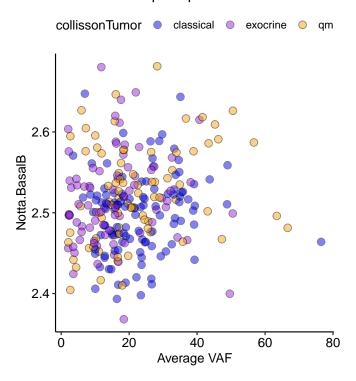
Puleo RNAseq samples

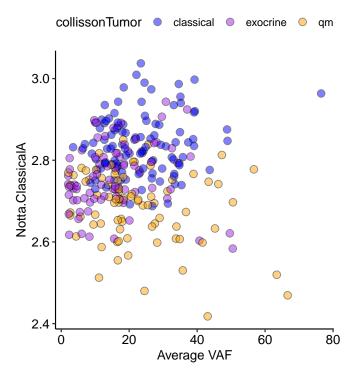


[1] -0.26057 ## [1] 1.555e-05

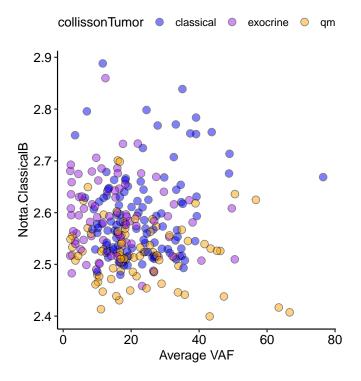


[1] 0.13884 ## [1] 0.02300767

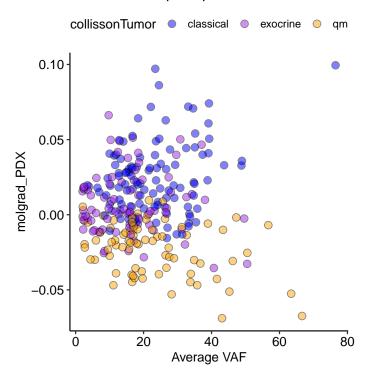


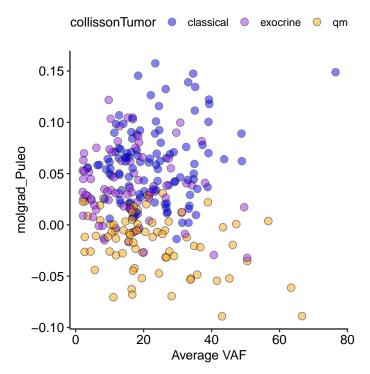


[1] 0.02893 ## [1] 0.6373474

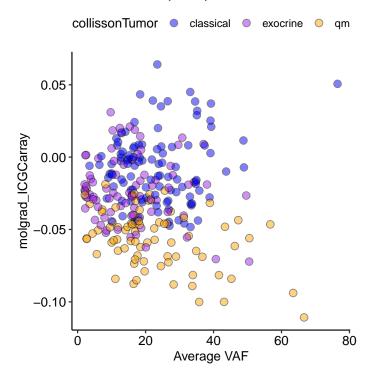


[1] -0.02574 ## [1] 0.6748186

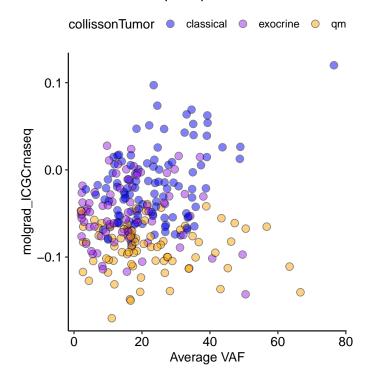




[1] -0.0429 ## [1] 0.4843792

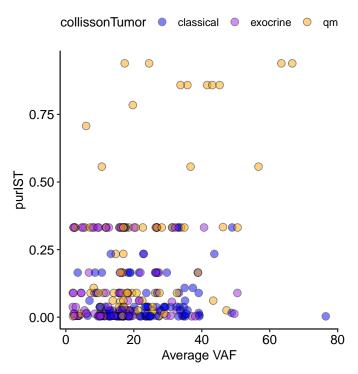


[1] -0.07827 ## [1] 0.2014654

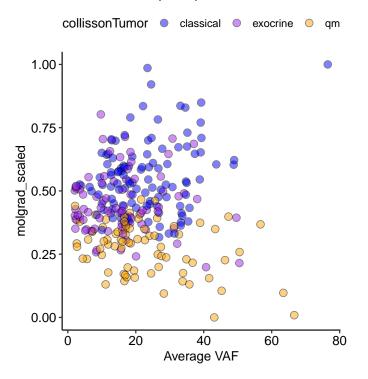


[1] 0.13805 ## [1] 0.02380719

Puleo RNAseq samples



[1] 0.25157 ## [1] 3.095e-05

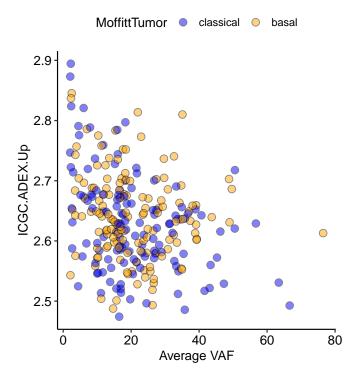


[1] 0.00755

[1] 0.9021067

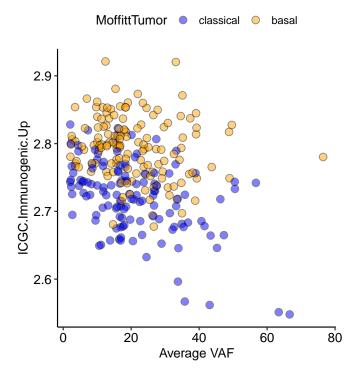
Signatures and average VAF colored by Moffitt subtypes

Puleo RNAseq samples

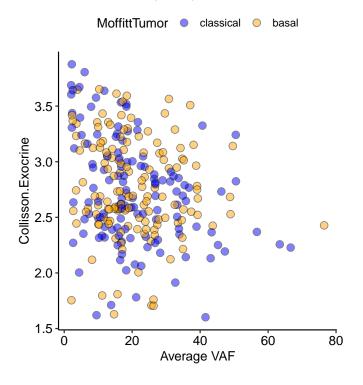


[1] -0.27207

[1] 6.22e-06

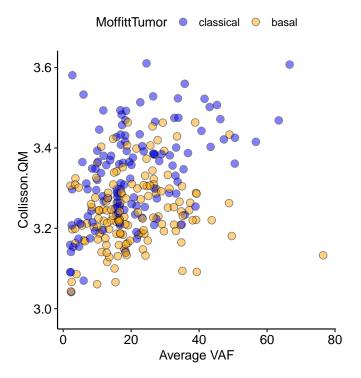


[1] -0.27956 ## [1] 3.35e-06



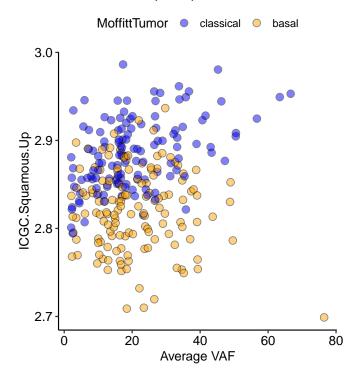
[1] -0.23084 ## [1] 0.00013729

Puleo RNAseq samples

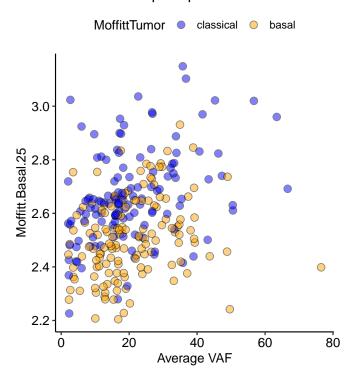


[1] 0.32705

[1] 4e-08

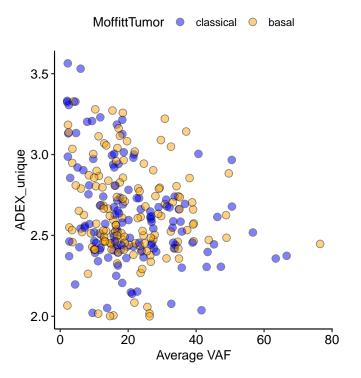


[1] 0.13103 ## [1] 0.03201589

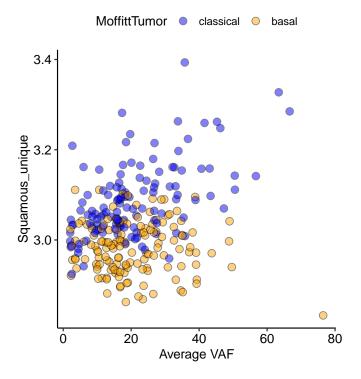


[1] 0.28846 ## [1] 1.56e-06

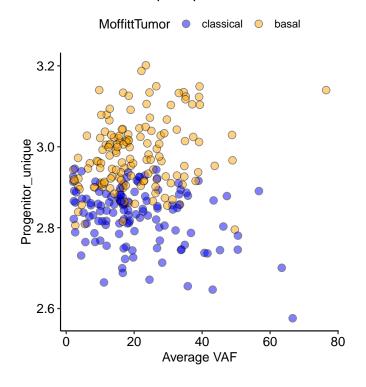
Puleo RNAseq samples

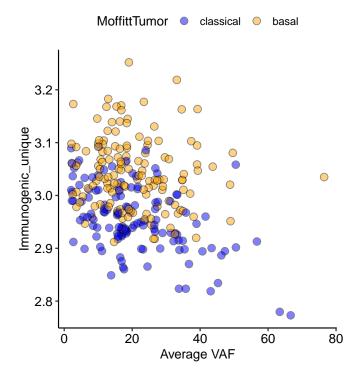


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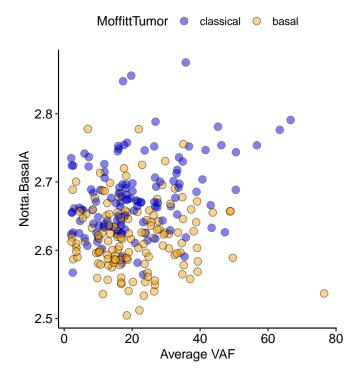


[1] 0.24632 ## [1] 4.571e-05

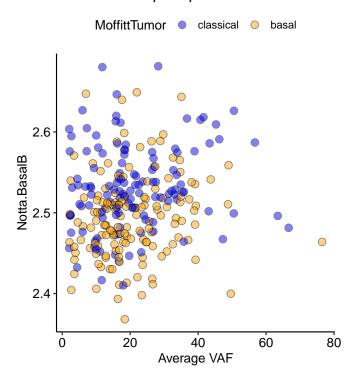


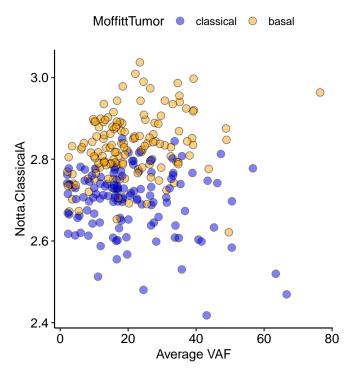


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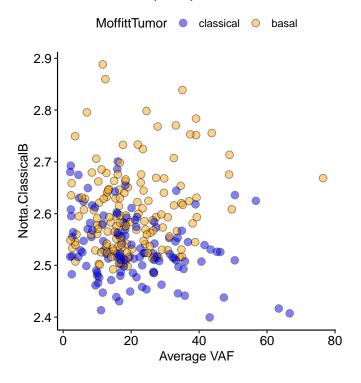


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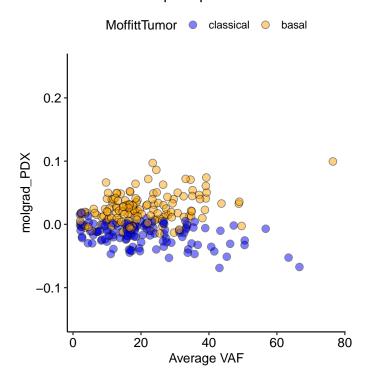


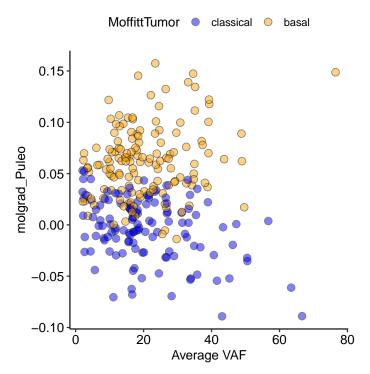


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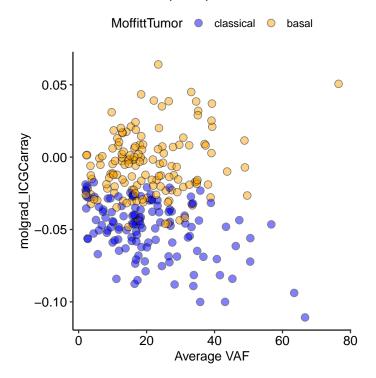


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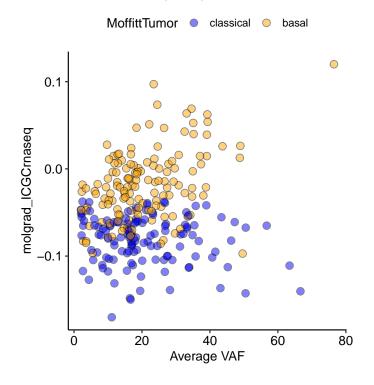




[1] -0.0429 ## [1] 0.4843792

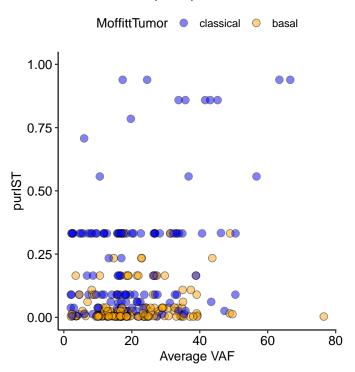


[1] -0.07827 ## [1] 0.2014654



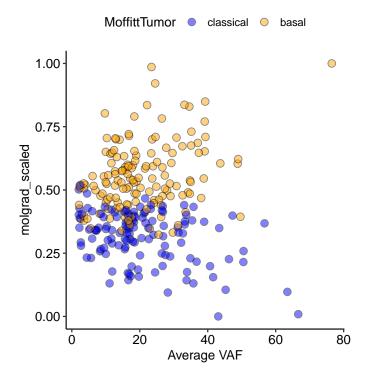
[1] 0.13805 ## [1] 0.02380719

Puleo RNAseq samples



[1] 0.25157

[1] 3.095e-05



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[1] 0.9021067