Lab meeting

Luke Hayden

14th November 2018

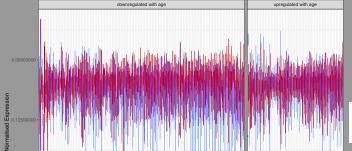
Did everybody get their bun?

Project

Examine the effect of regeneration on the molecular age profile of *Parhyale* limbs

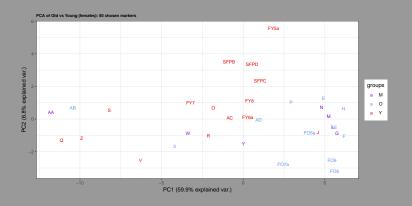
Designing codeset

- *Nanostring as method to quantify gene expression
- *200 genes in codeset
- -195 genes chosen on the basis of differential expression analysis
- -5 control genes: do not vary in expression between conditions

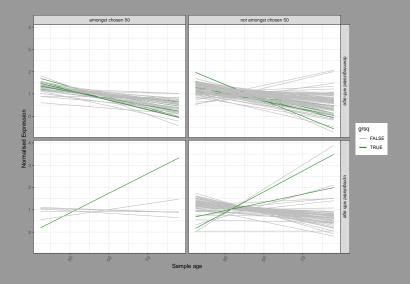


type

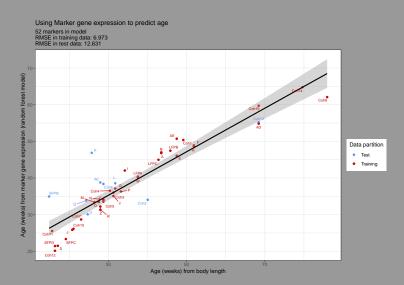
Young vs old separation: PCA old vs young



Expression/length relationship

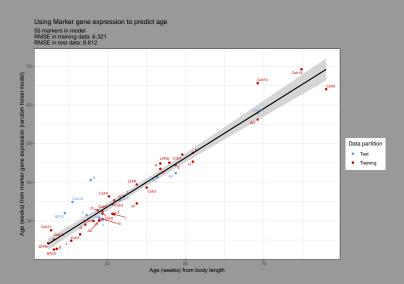


Old RF model

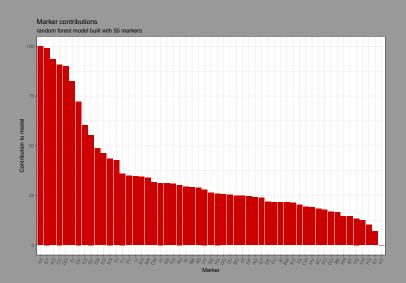


Quality thresholds

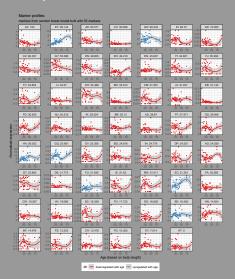
40-fold cross-validation



Contributions to model

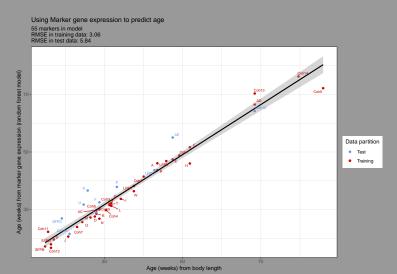


Marker profiles

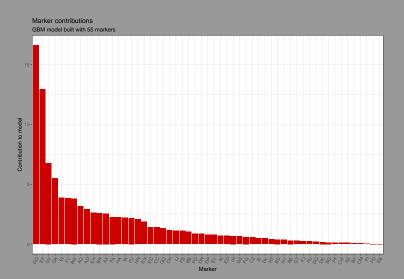


It looks like some optimisation on the basis of these profiles may

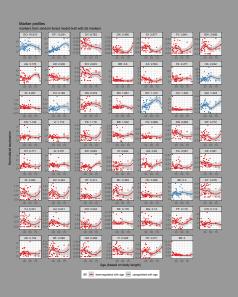
GBM



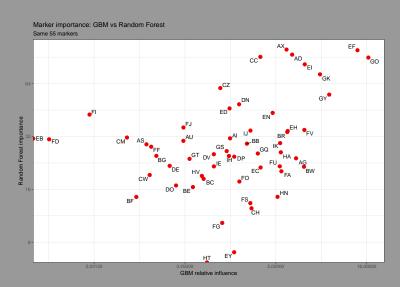
Marker contributions

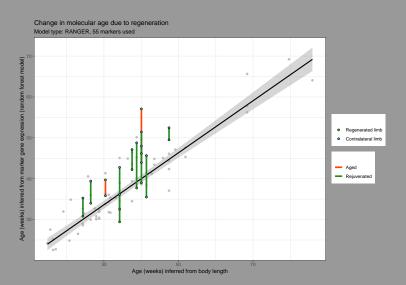


Marker contributions and profiles

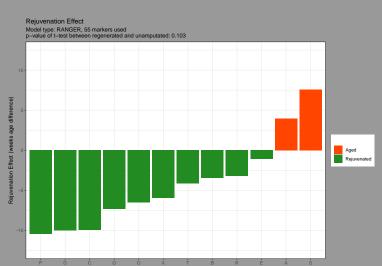


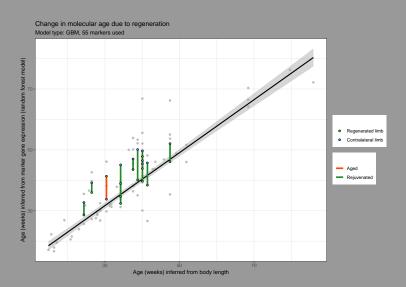
GBM vs Random Forest





[1] 0.114





[1] 0.319

