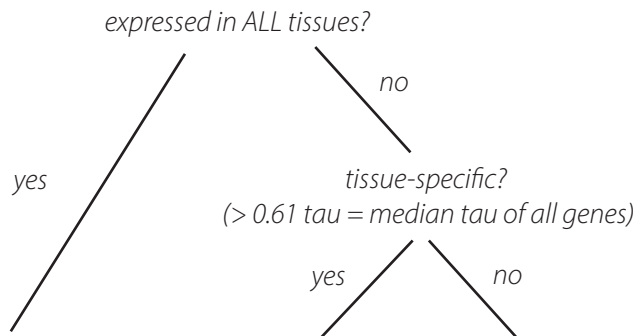


## A CATEGORIZE GENES BY REGULATORY SPECIFICITY

Data input:

- 1) expression level of all genes in many tissues
- 2) calculated tau (tissue specificity index)
- 3) phylogenetic ages of all genes



Group 1:  
Constitutively active

Group 2:  
Tissue-specific

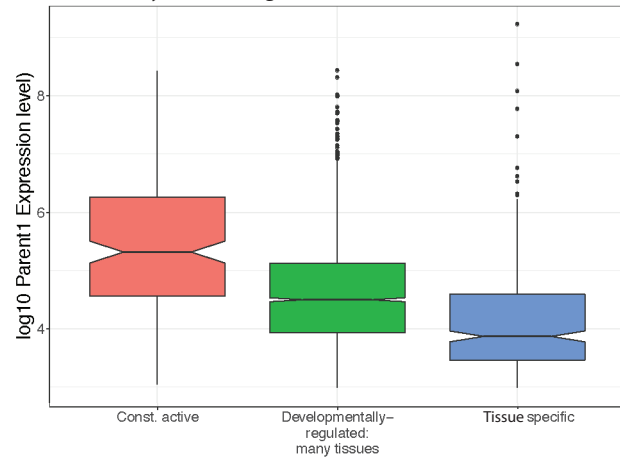
Group 3:  
Developmentally-  
regulated  
MANY tissues

Filter only genes pan-Drosophilid & older

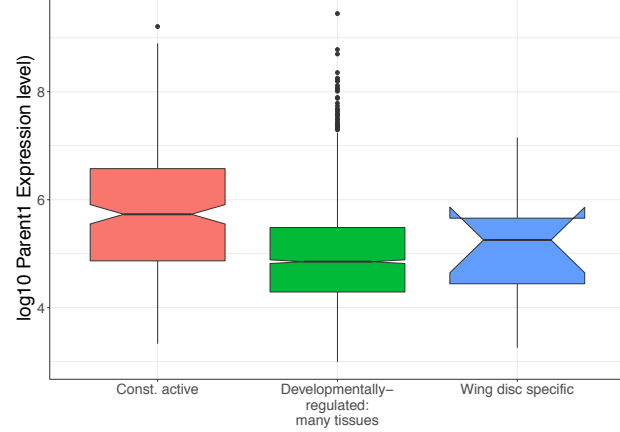


## B

whole body *D. melanogaster* - North American

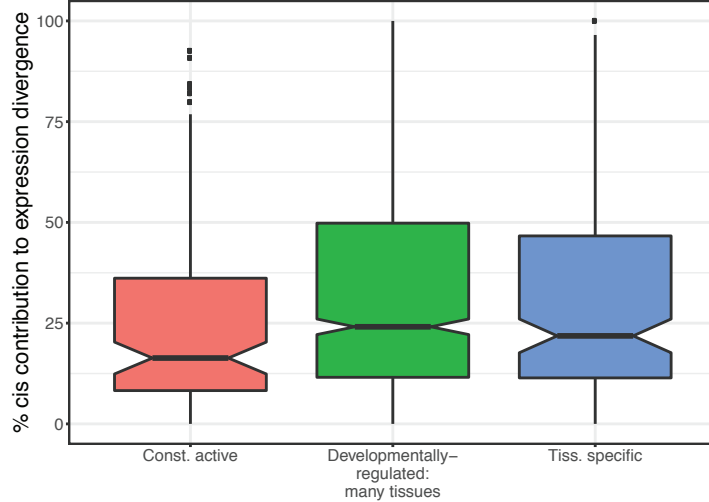


imaginal wing disc *D. melanogaster* - North American

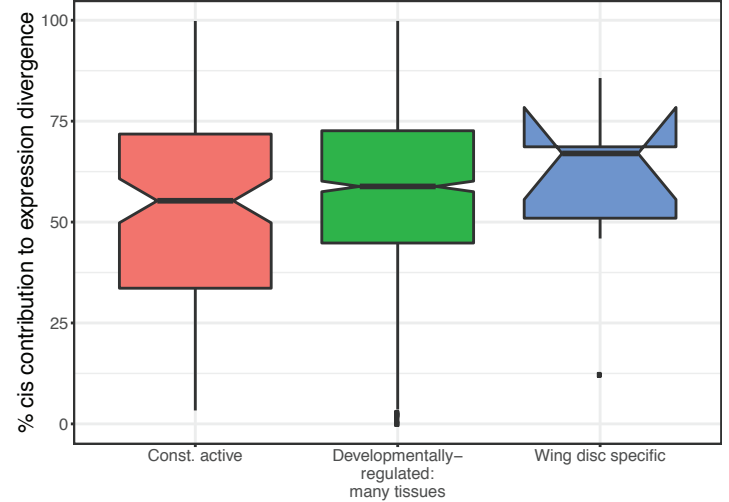


## C

whole body *D. melanogaster* - N. American x African



imaginal wing disc *D. melanogaster* - North American x African



## D

