

PLEC: Transcript Report

Jake Gockley

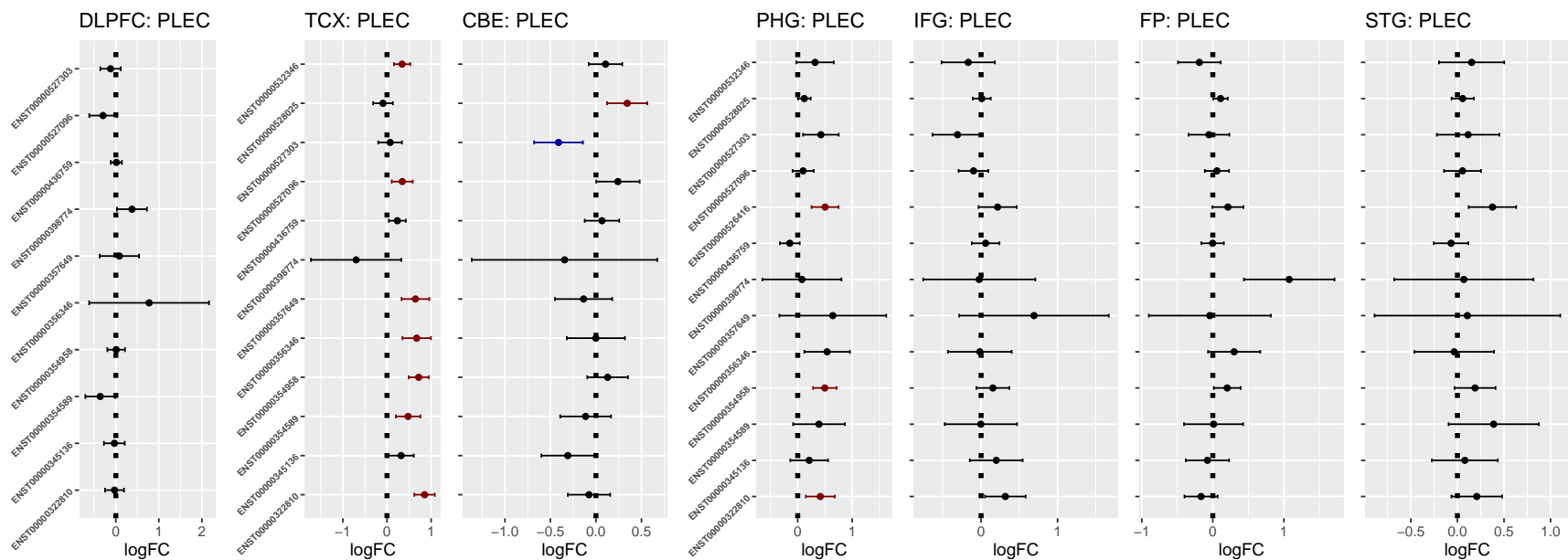
05/28/2020

Log2 Fold Change of Transcripts By Brain Region Case V. Control

Red indicates over expressed and Blue indicates under expressed in cases versus Controls

AD = CDR ≥ 1 & Braak ≥ 4 & CERAD ≥ 2

CONTROL = CDR \leq 0.5 & Braak \leq 3 & CERAD \leq 1



Log2 Fold Change of Transcripts By Cognitive Assesment

Red indicates over expressed and Blue indicates under expressed in cases versus Controls
 ROSMAP: Cogdx = 4 Versus CogDx = 1

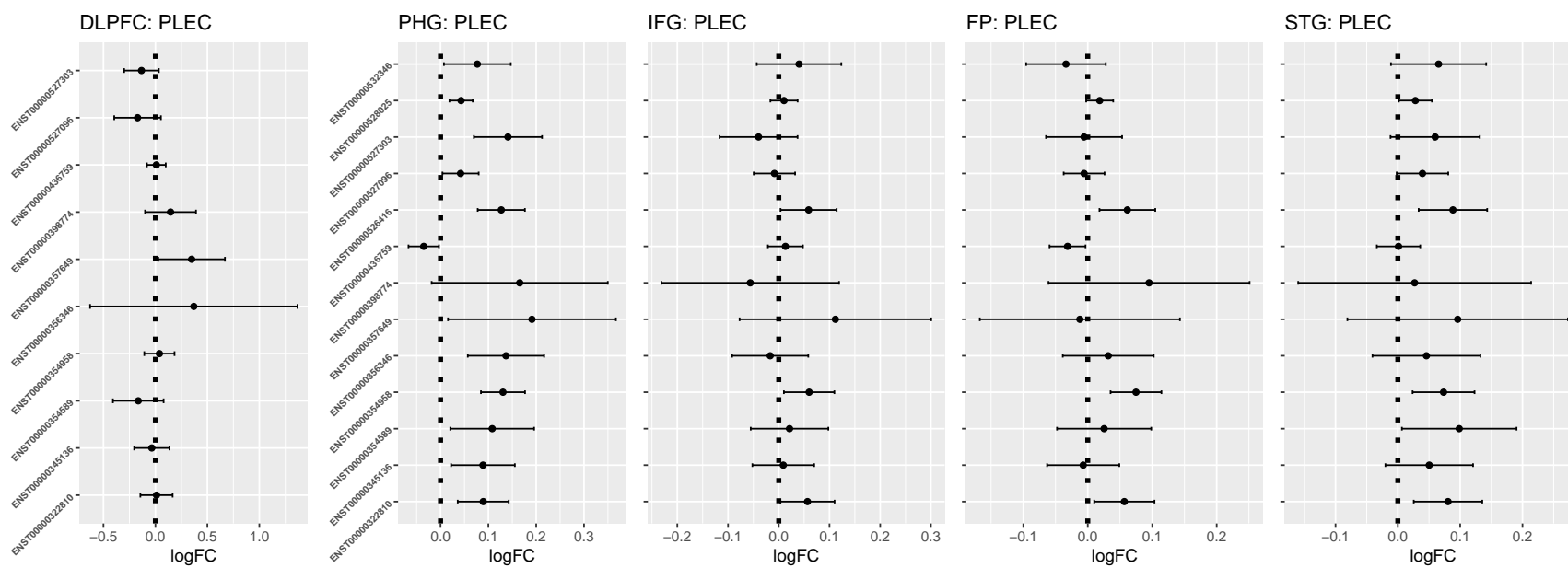
Cogdx = 4: AD: Alzheimer's dementia and NO other cause of CI (NINCDS PROB AD)

Cogdx = 1: NCI: No cognitive impairment (No impaired domains)

MSBB: CDR = 5 Versus CDR = 0

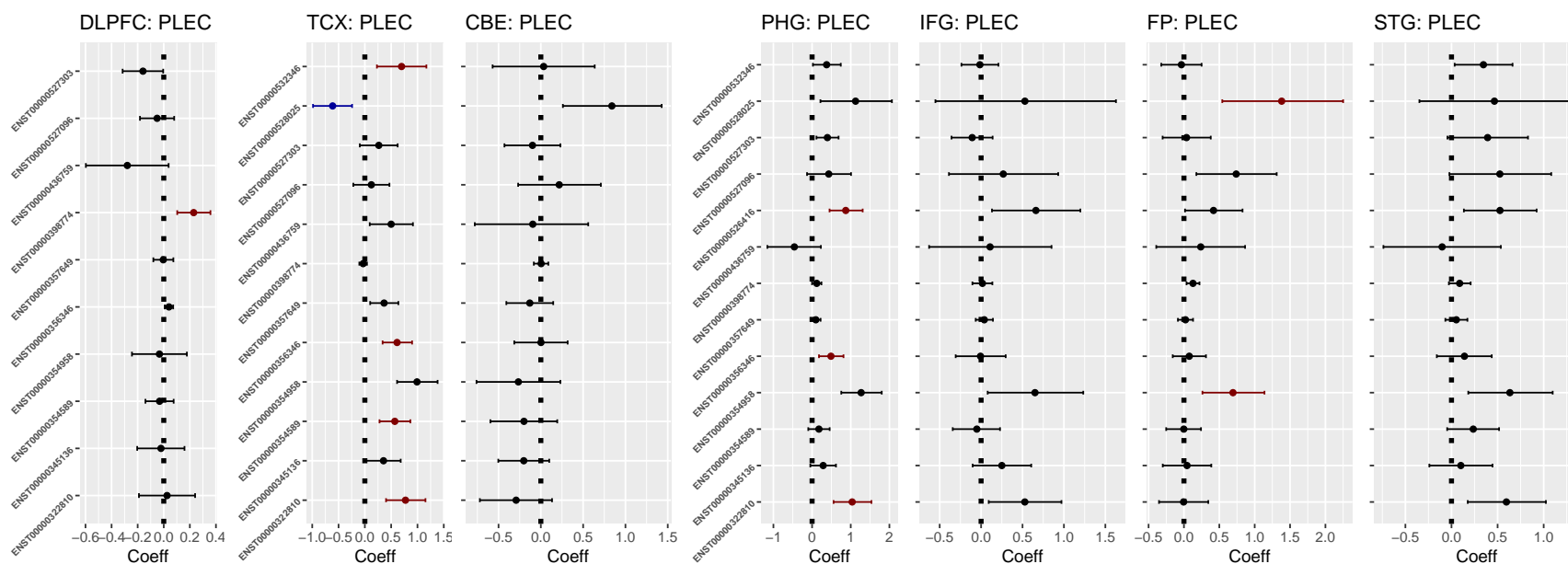
CDR = 5: Severe cognitive decline

CDR = 0: No cognitive decline



Neuropathology Associations

All associations are logistic ordinal regression models preformed on Braak Score with P-Values correct to the total number of transcripts belonging to the user input gene list expressed in the respective tissue.

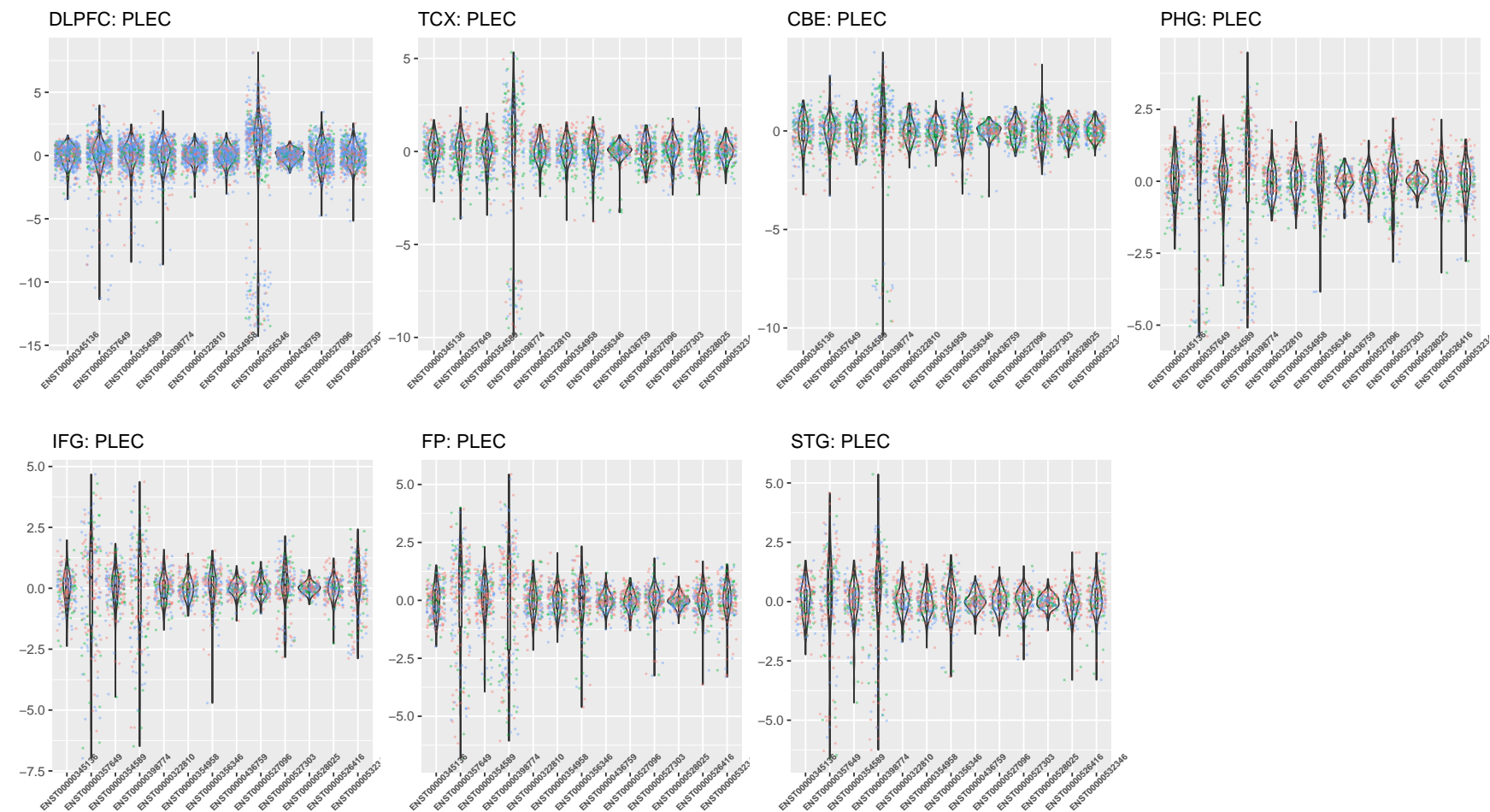


Transcript Expression Level Boxplot Case V. Control

AD = CDR ≥ 1 & Braak ≥ 4 & CERAD ≥ 2 - Red

CONTROL = CDR ≤ 0.5 & Braak ≤ 3 & CERAD ≤ 1 - Blue

Other - Green



Gene Model

Only expressed transcripts i.e. those in the analysis above are used in the gene model.

