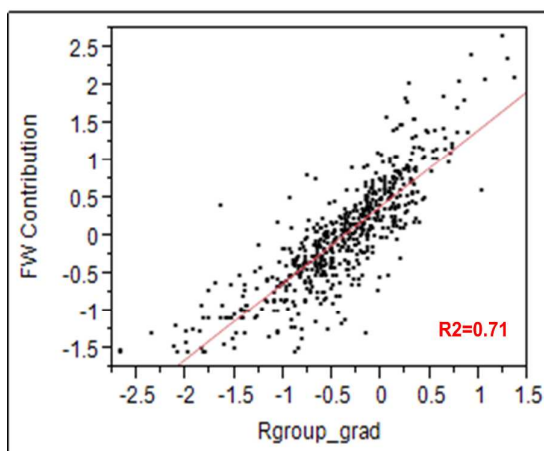
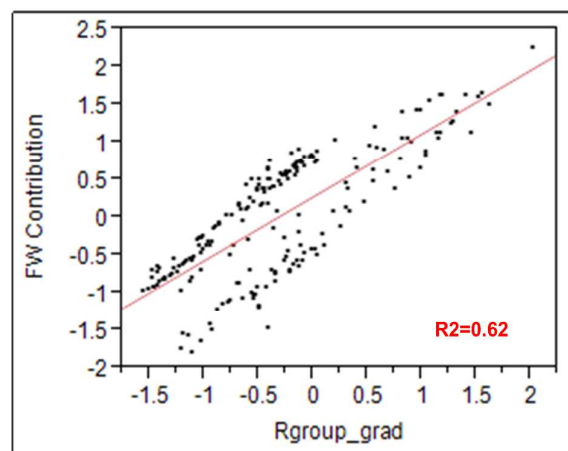


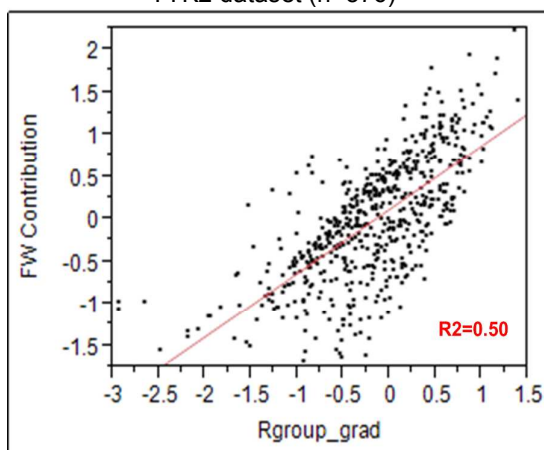
Supporting Materials



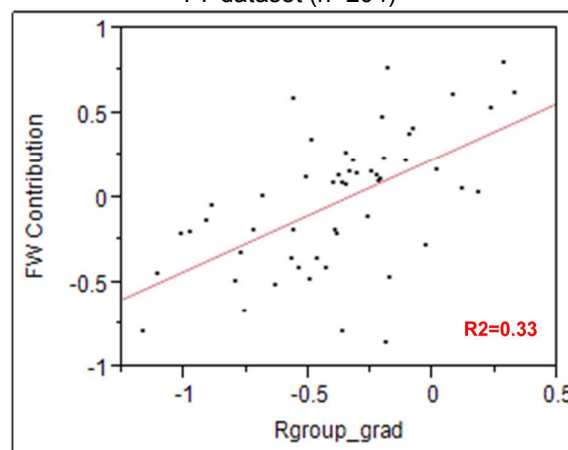
TYK2 dataset (n=576)



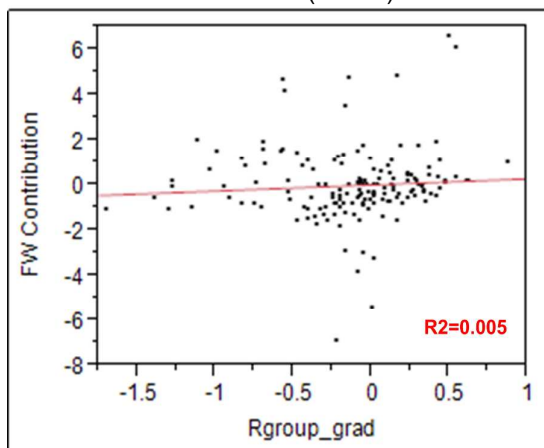
F7 dataset (n=204)



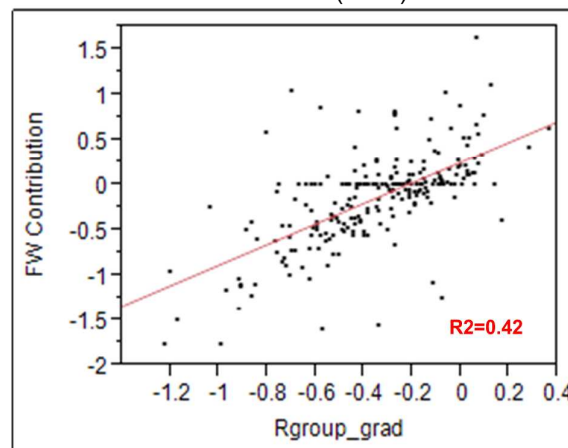
JAK1 dataset (n=573)



CDK5 dataset (n=53)



GNRHR dataset (n=157)



IL4 dataset (n=241, outliers=11)

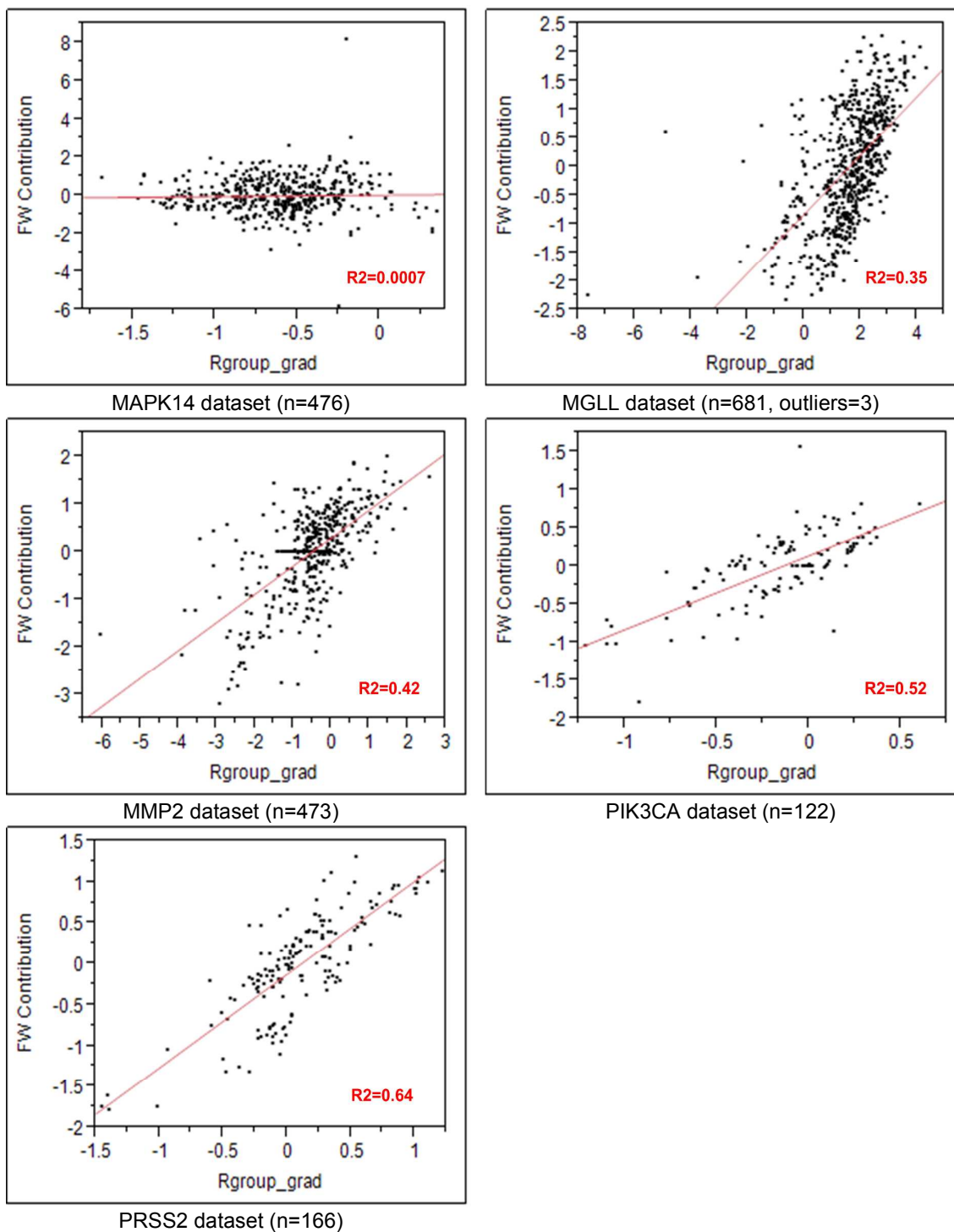


Figure S1. The correlations between R-group contributions from Free-Wilson models and R-group signature models among eleven datasets. The y axis shows the R-group contribution of the Free-Wilson model and the x axis shows the R-group contribution of the signature

model. For IL4 and MGLL dataset, the correlation is done after 11 and 3 outliers have been removed respectively.