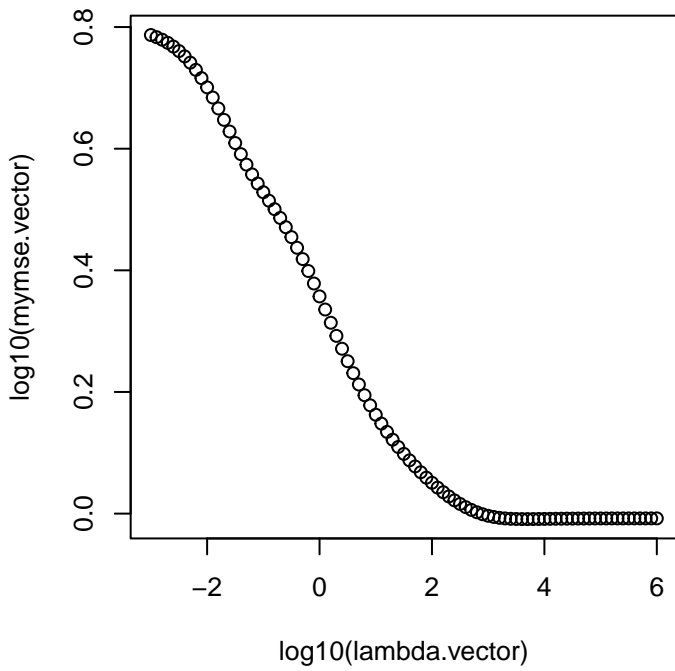
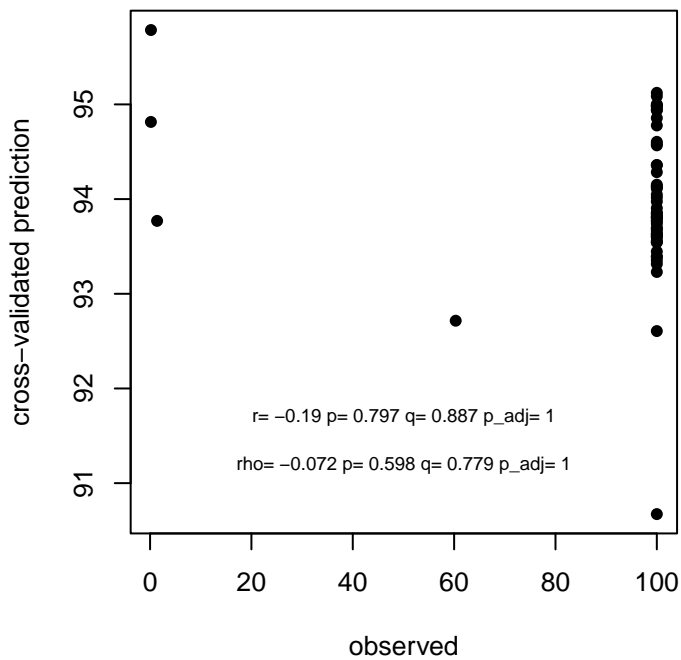


**Figure S7: Correlation plots for the predicted bioactivity using Saagar descriptors.** Each plot represents a cell-specific phenotype and reports the observed in relation to the cross-validation predictions and the corresponding correlation coefficients.

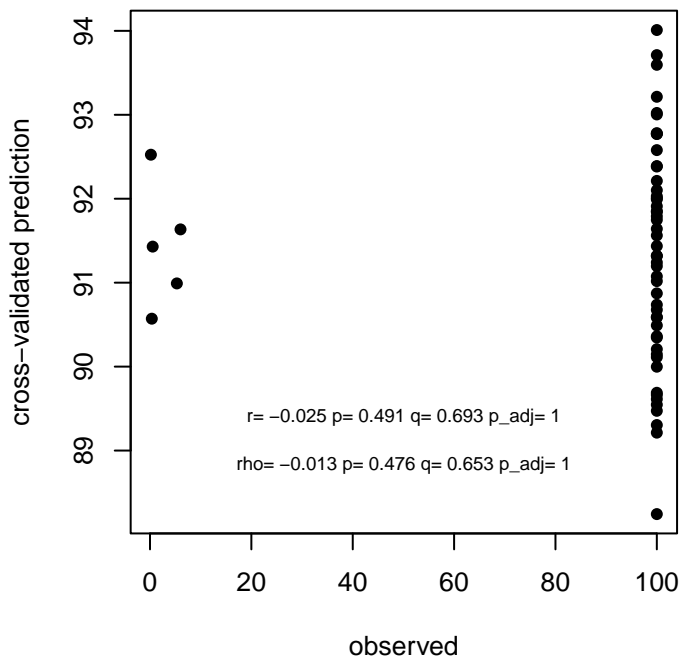
$\log_{10}(\text{lambdamin})=3.7$



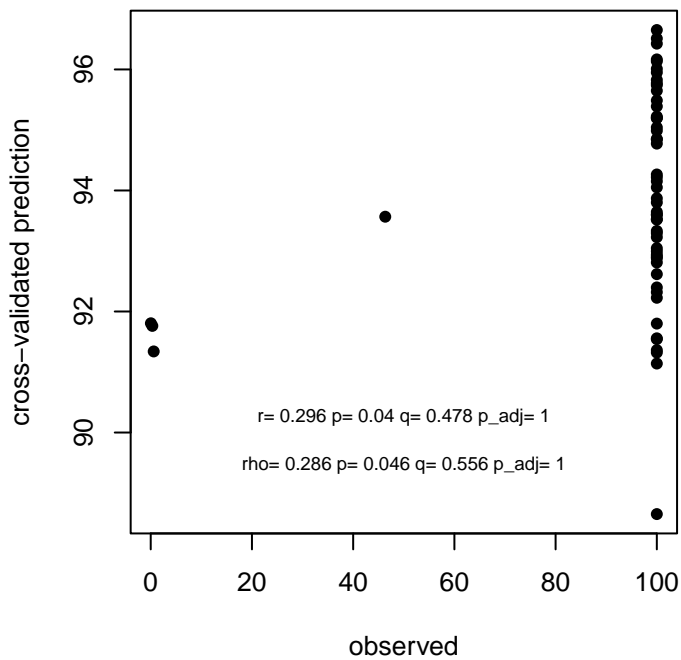
### CARDIO\_90min\_qtprolongation



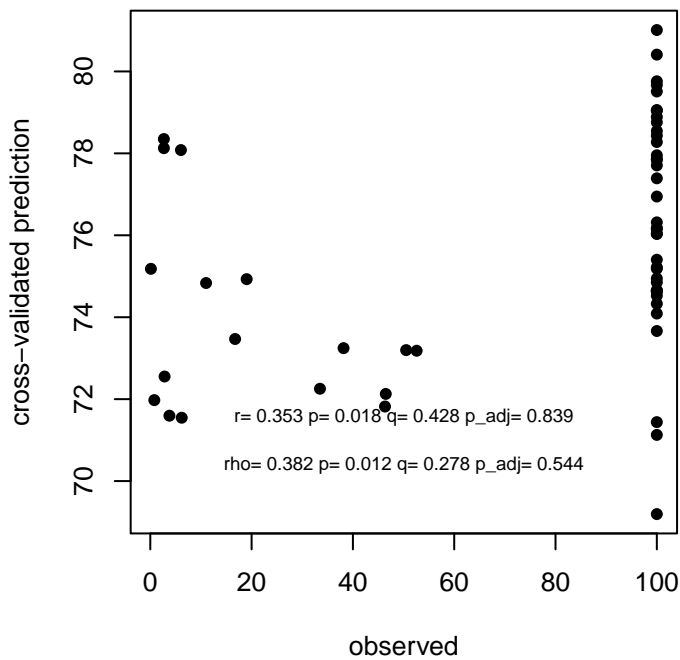
### CARDIO\_90min\_totalcells



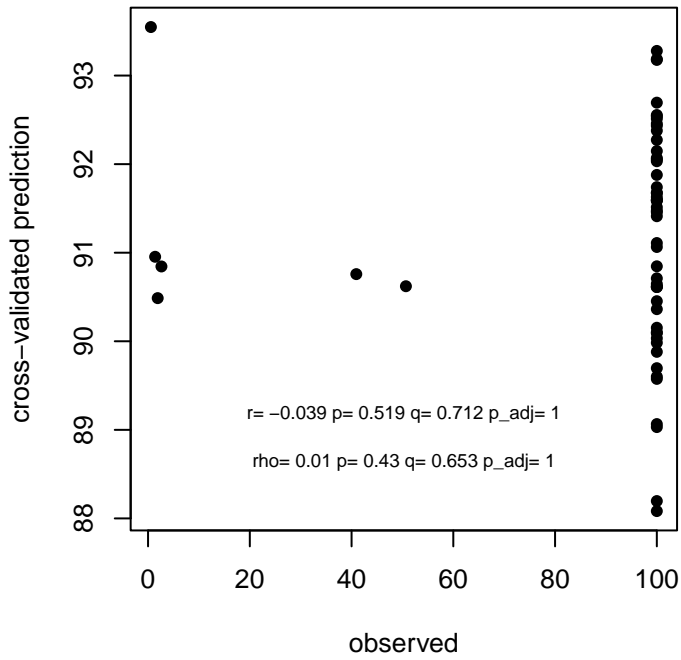
### CARDIO\_90min\_positivechronotrope



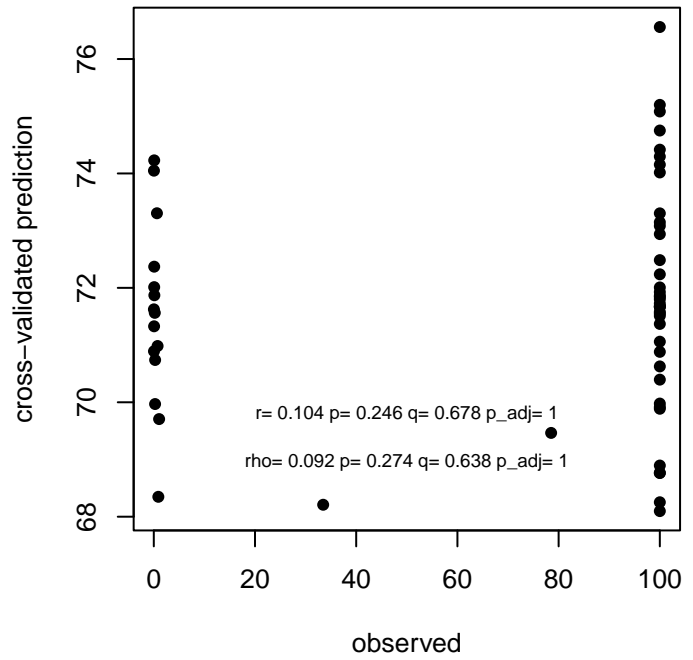
### CARDIO\_90min\_negativechronotrope



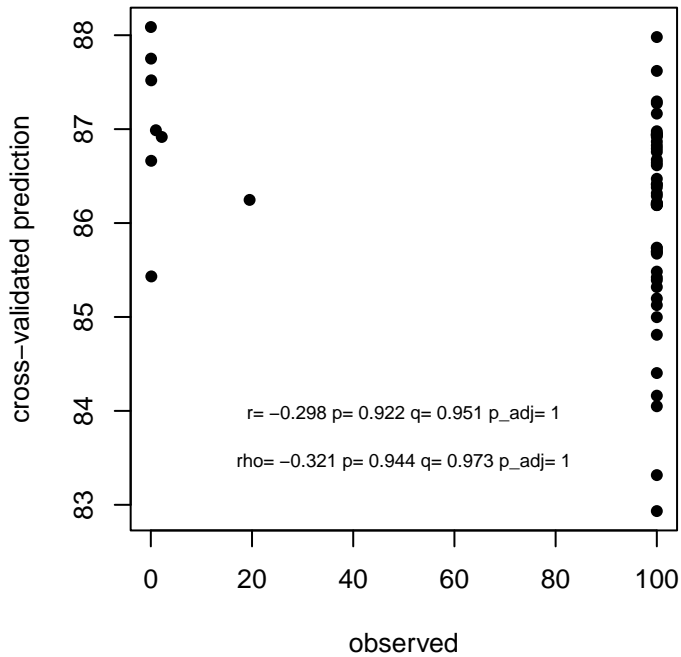
### HUVEC\_48hr\_meantubelength



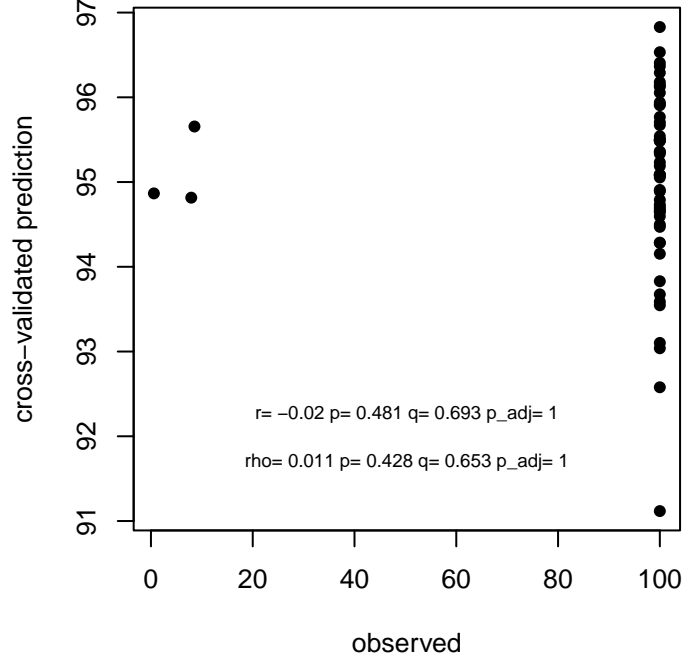
### HUVEC\_48hr\_totaltubelength



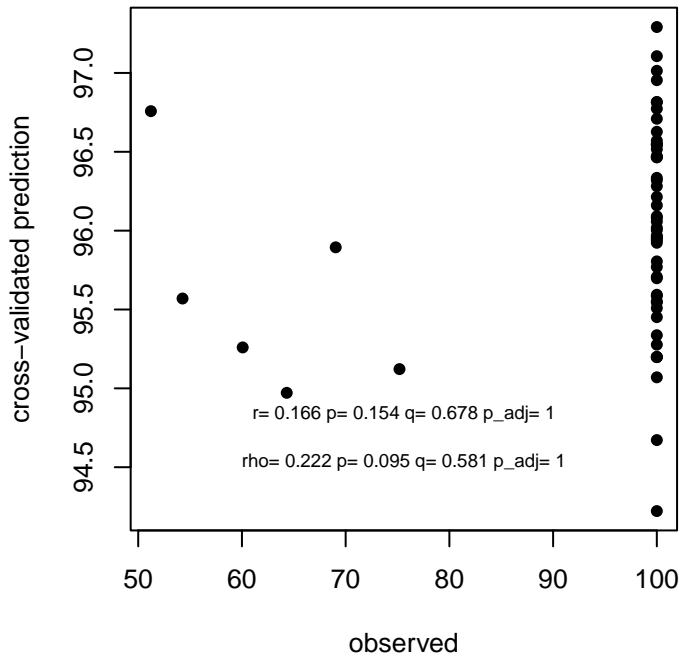
### HUVEC\_48hr\_totaltubearea



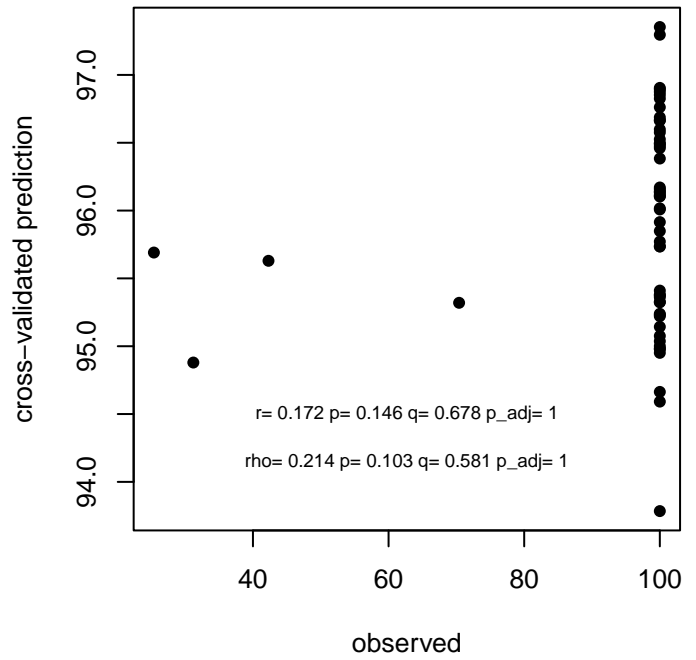
### HUVEC\_48hr\_atpproduction



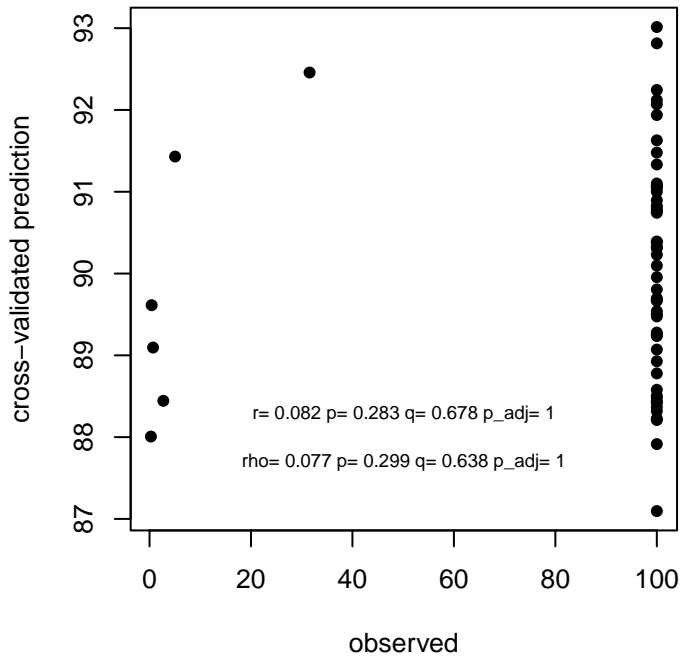
### HUVEC\_48hr\_totalcells



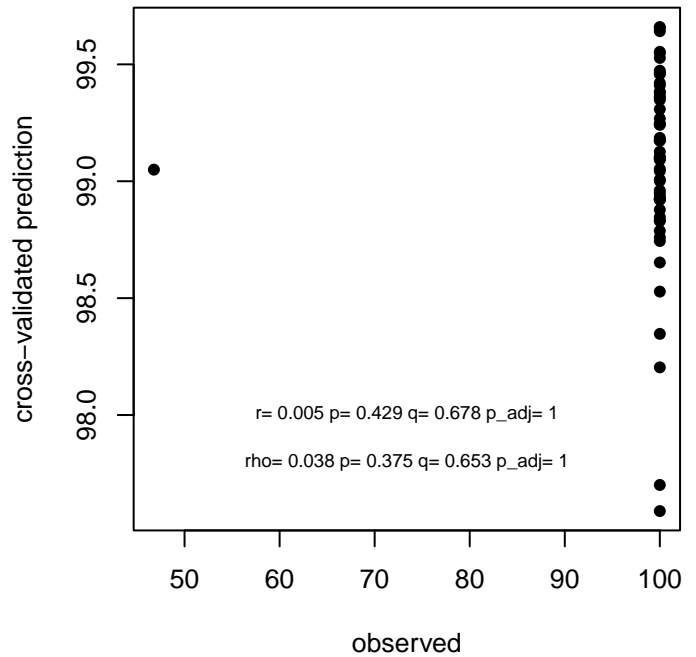
### HUVEC\_48hr\_cytoplasmicintegrity



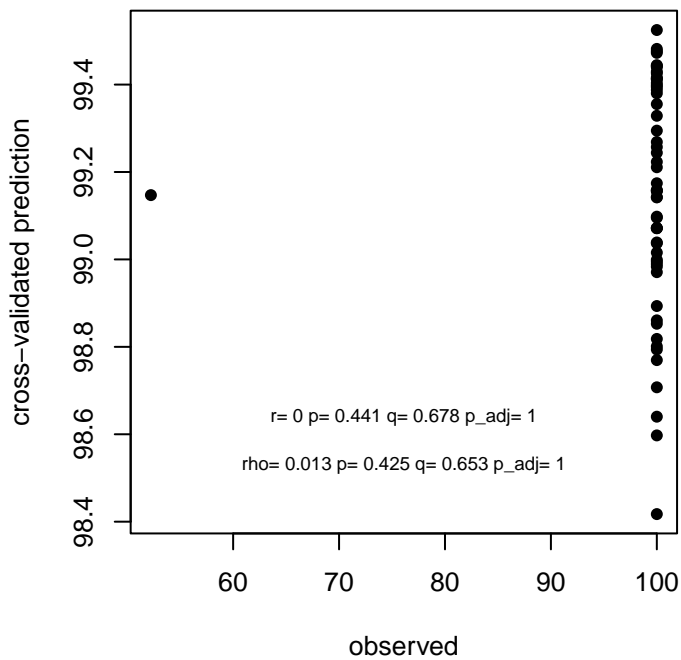
### HUVEC\_48hr\_mitochondrialintegrity



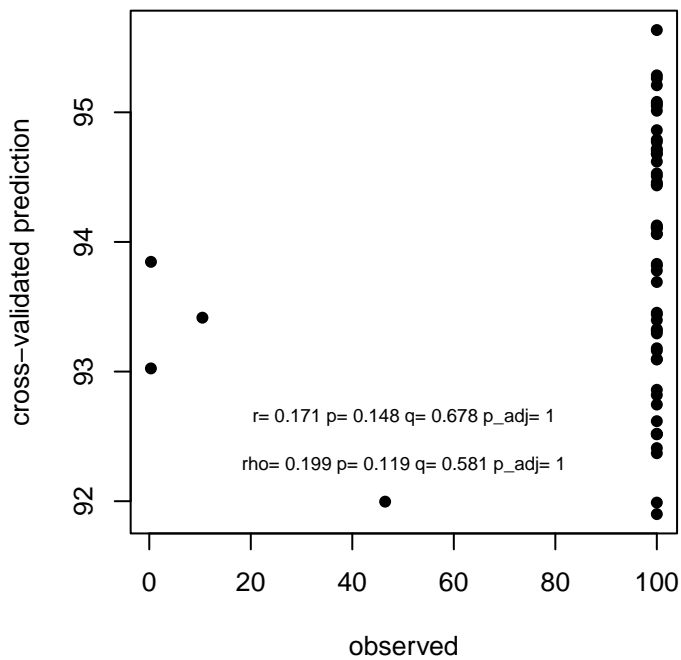
### HUVEC\_48hr\_allnucleimeanarea



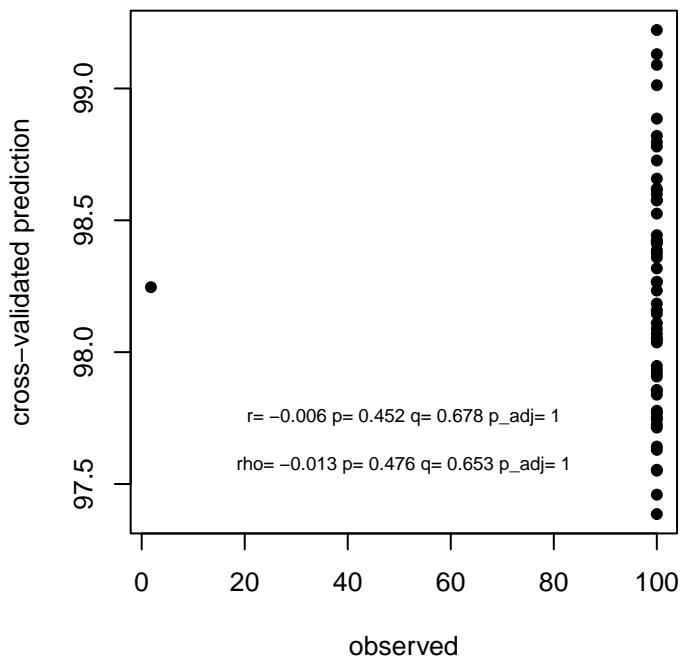
### NEURONS\_72hr\_totalcells



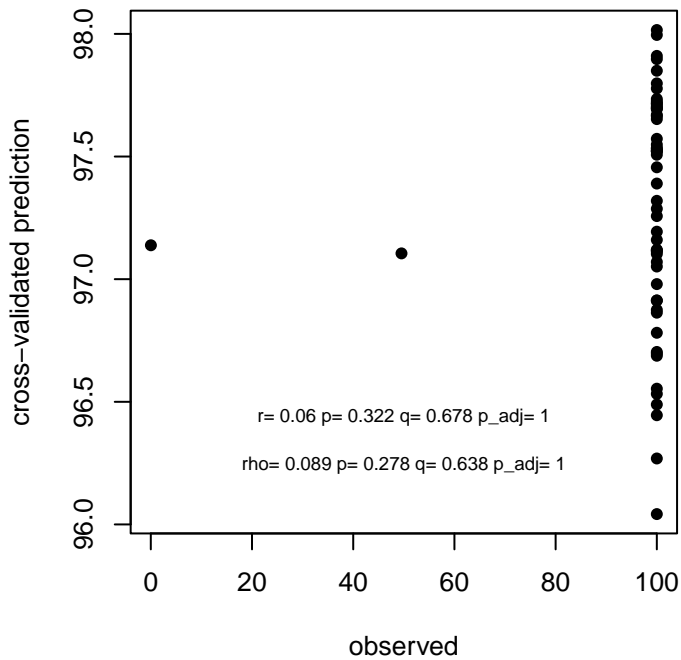
### NEURONS\_72hr\_cytoplasmicintegrity



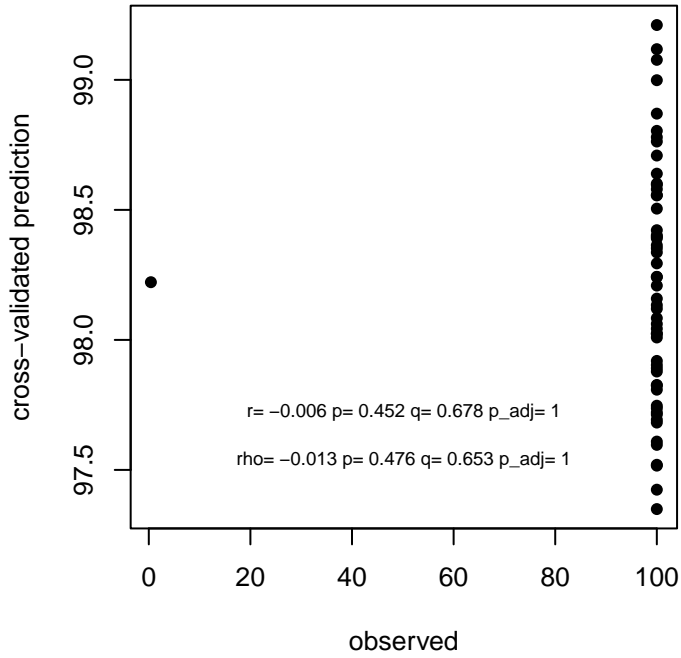
### NEURONS\_72hr\_totaloutgrowth



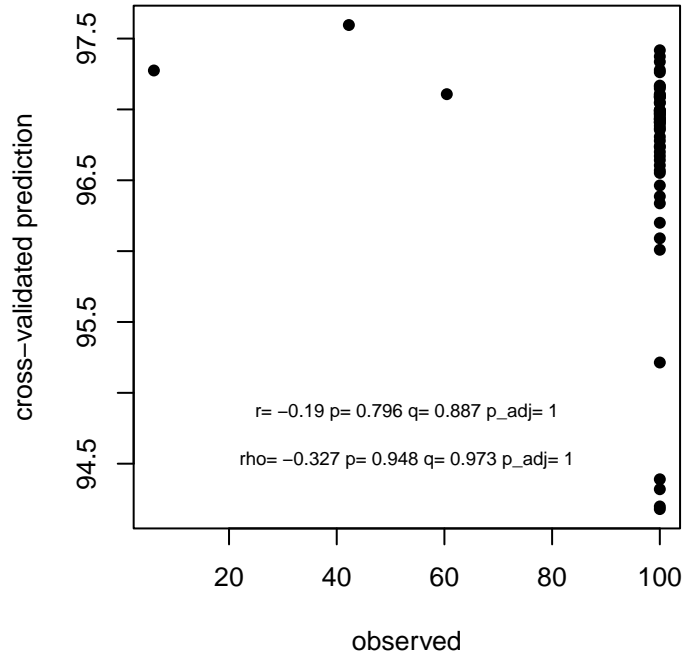
### NEURONS\_72hr\_totalprocess



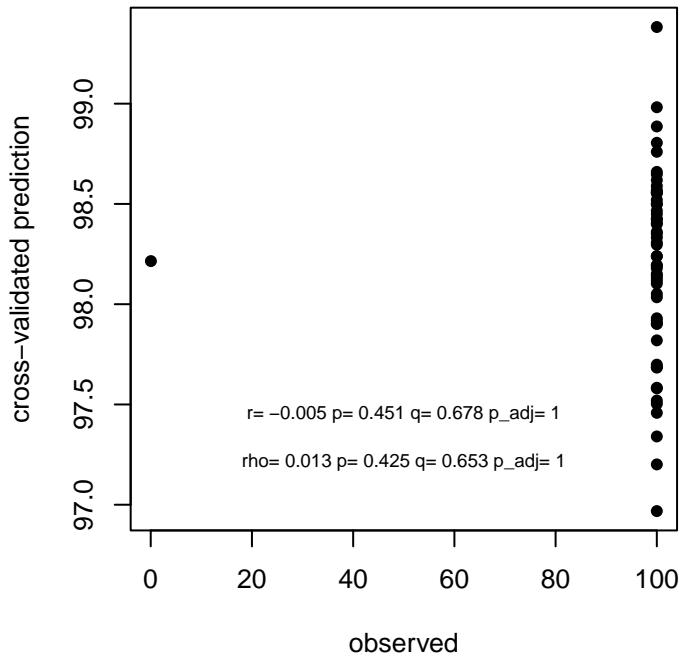
### NEURONS\_72hr\_totalbranches



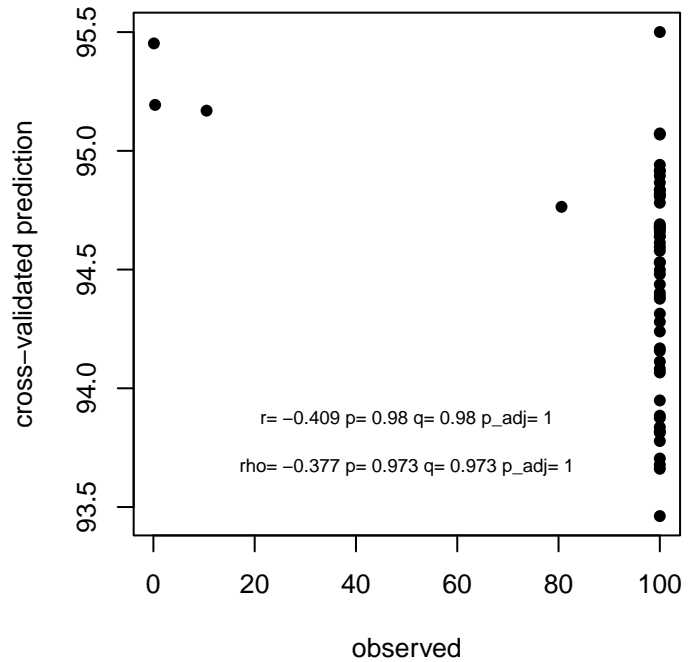
### NEURONS\_72hr\_cellsiwithsignificantgrowth



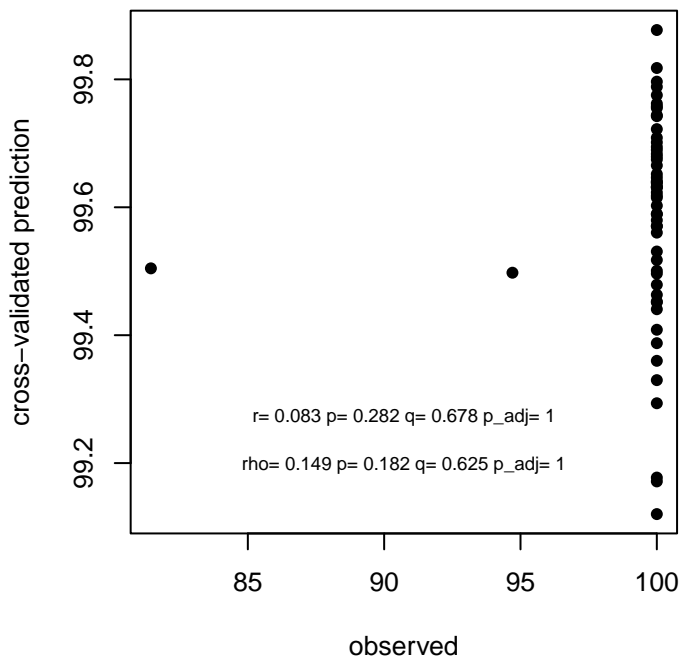
### HEPATOCYTES\_48hr\_totalgranulearea



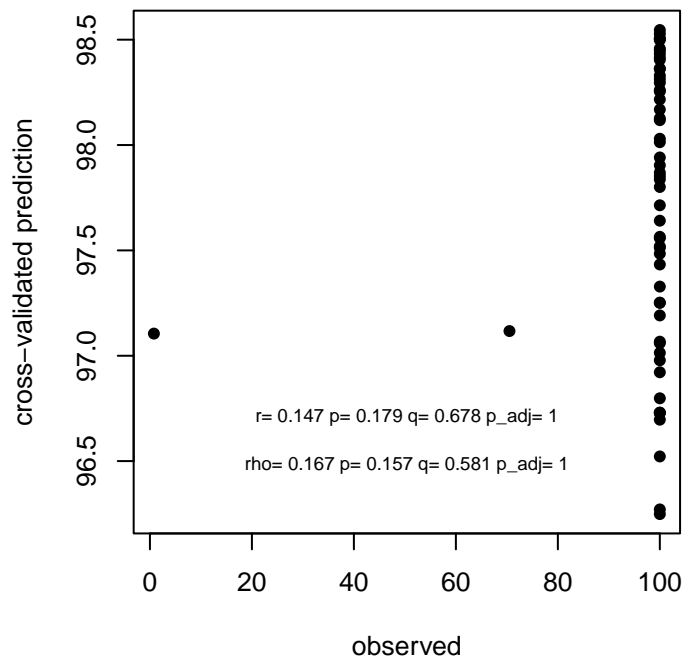
### HEPATOCYTES\_48hr\_granularity



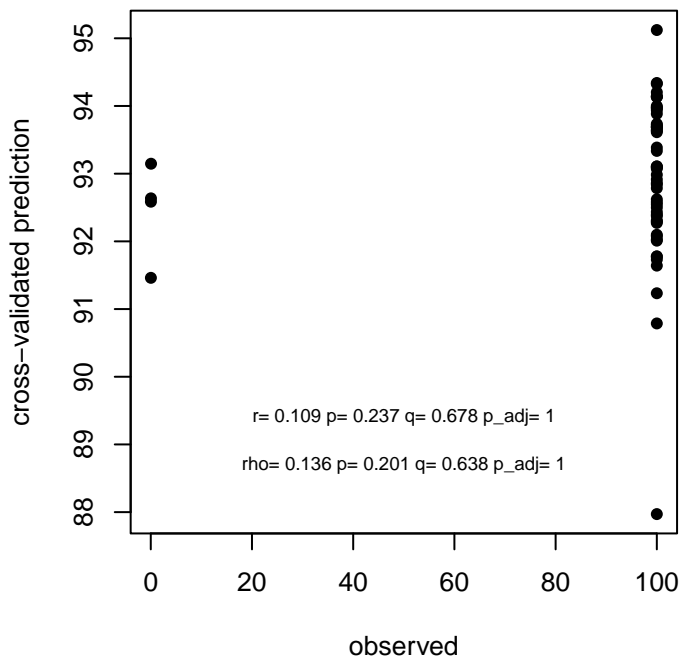
### HEPATOCYTES\_48hr\_totalcells



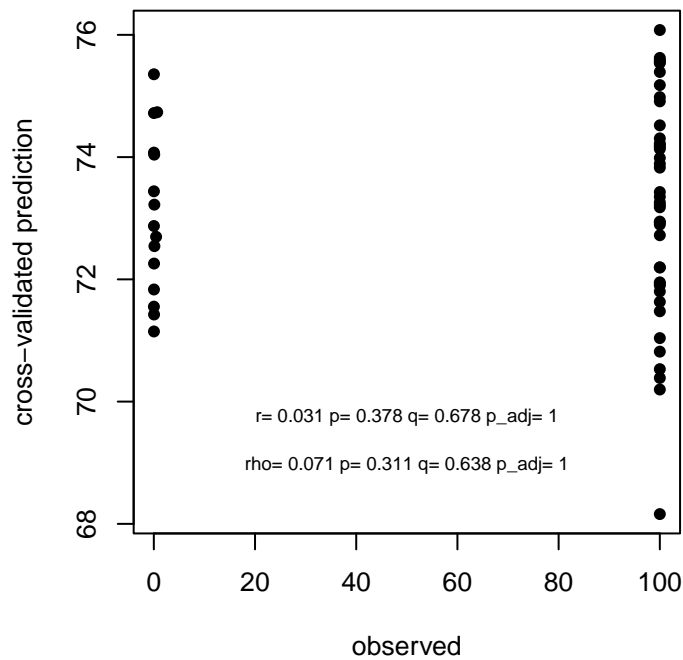
### HEPATOCYTES\_48hr\_allcellsmeanarea



### HEPATOCYTES\_48hr\_cytoplasmicintegrity

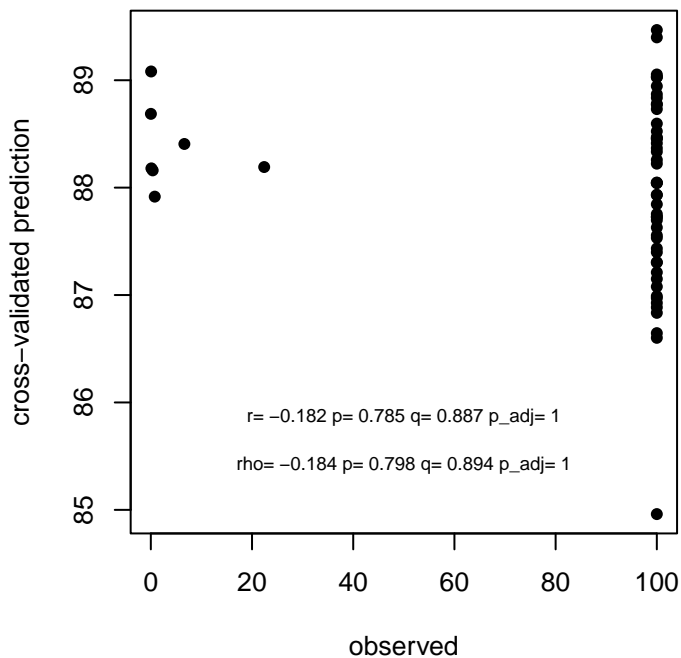


### HEPATOCYTES\_48hr\_mitochondrialintegrity

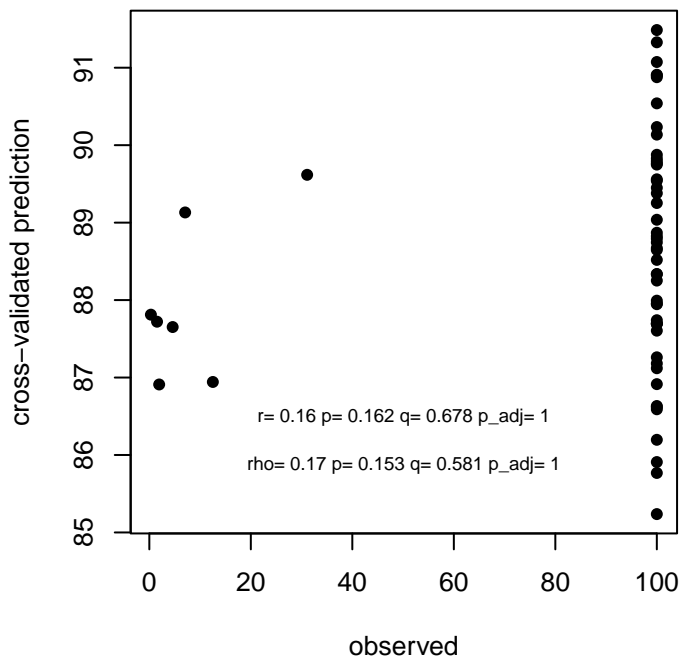




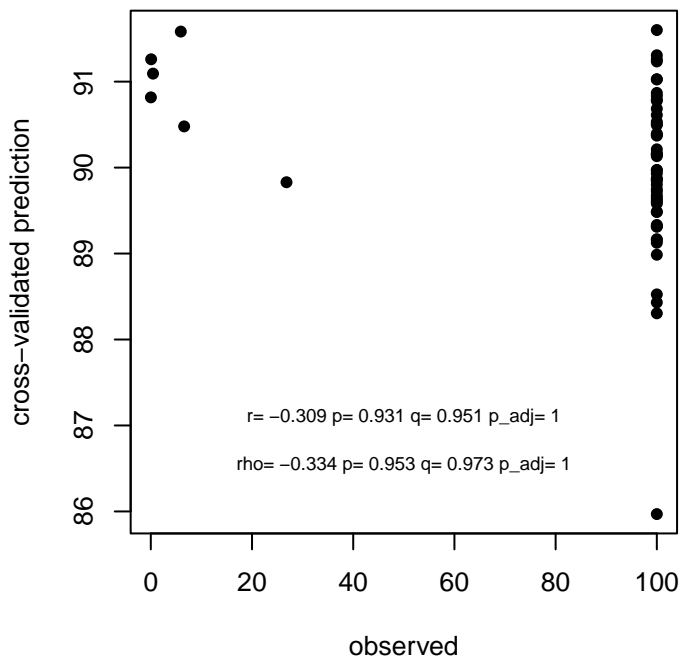
### HEPATOCYTES\_48hr\_mitochondrialintensity



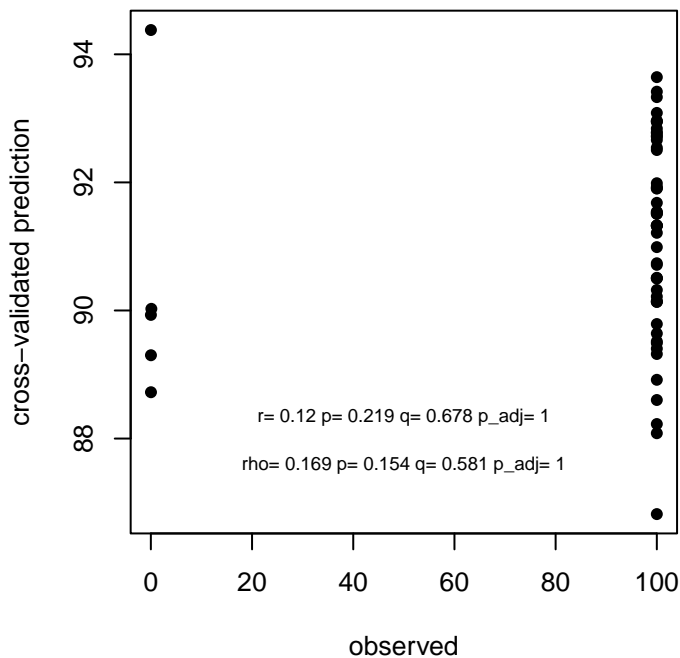
### HEPATOCYTES\_48hr\_nucleiintensity



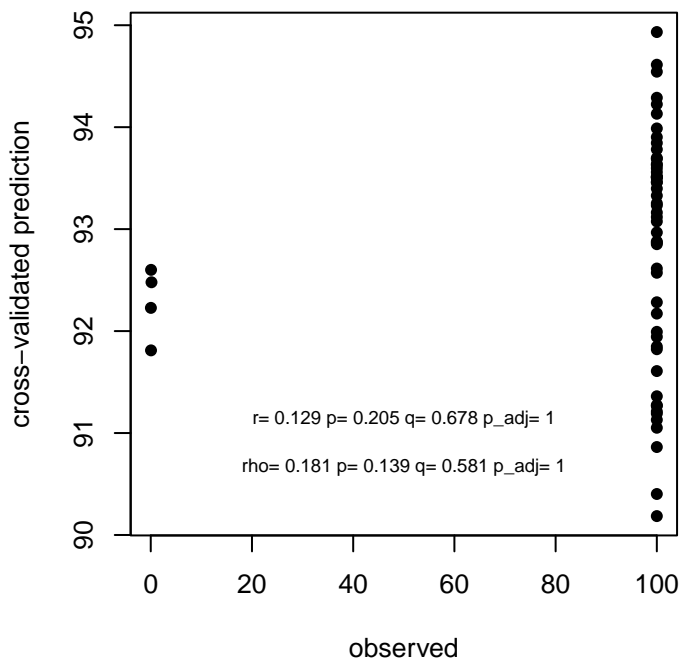
### PHHs\_48hr\_totalgranulearea



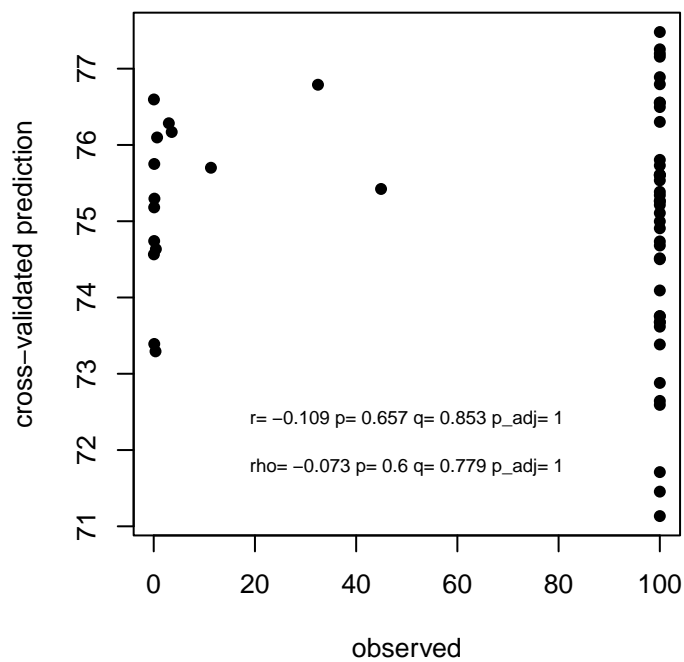
### PHHs\_48hr\_granularity



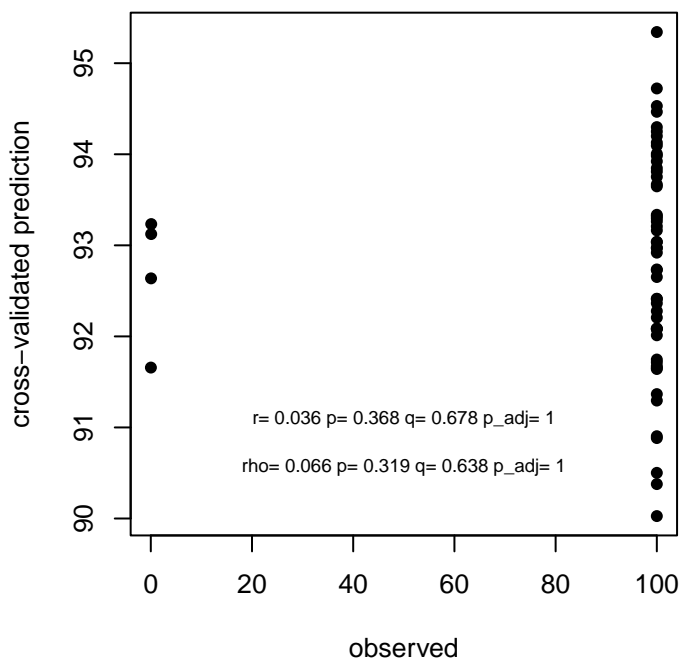
**PHHs\_48hr\_totalcells**



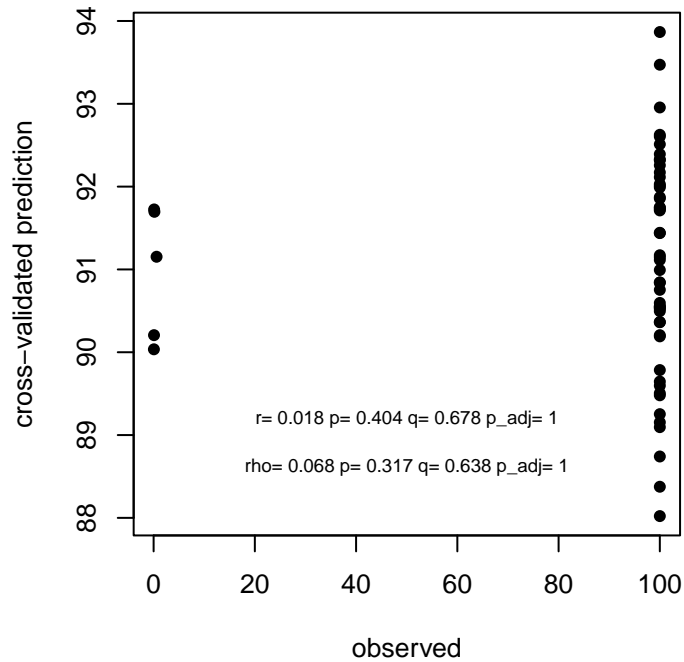
**PHHs\_48hr\_allcellsmeanarea**



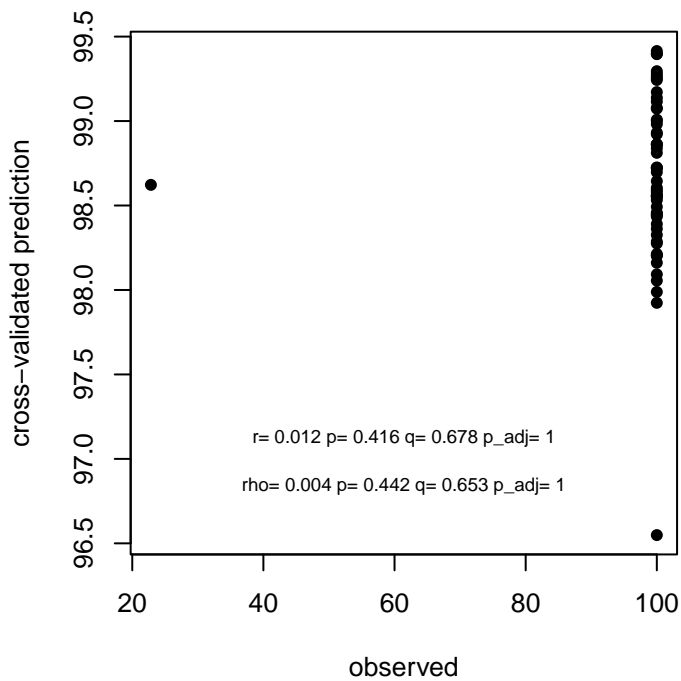
**PHHs\_48hr\_cytoplasmicintegrity**



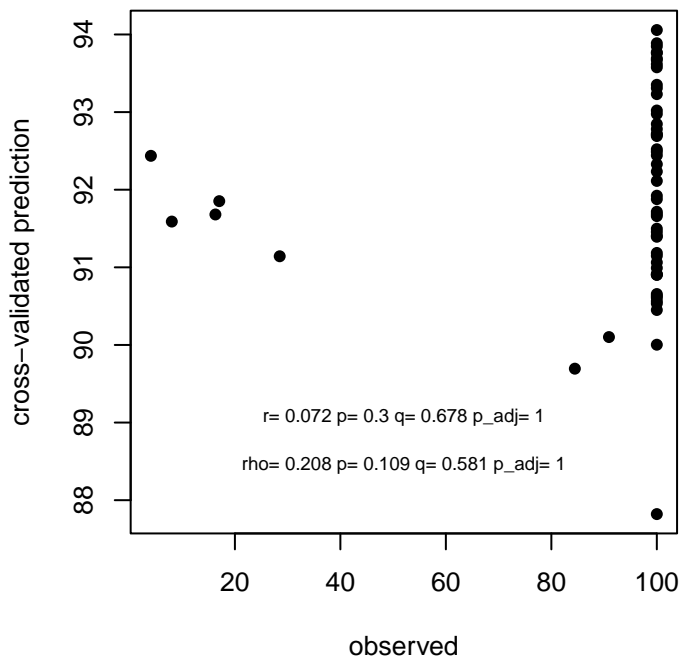
**PHHs\_48hr\_mitochondrialintegrity**



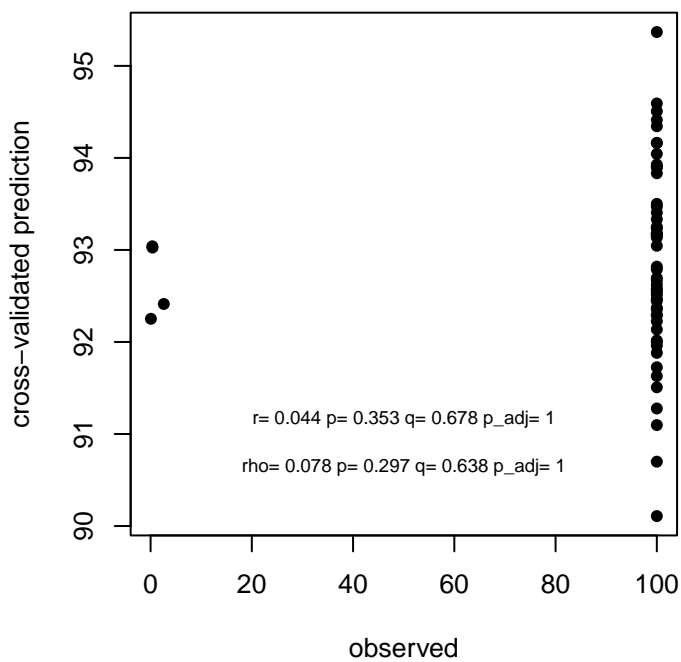
### PHHs\_48hr\_mitochondrialintensity



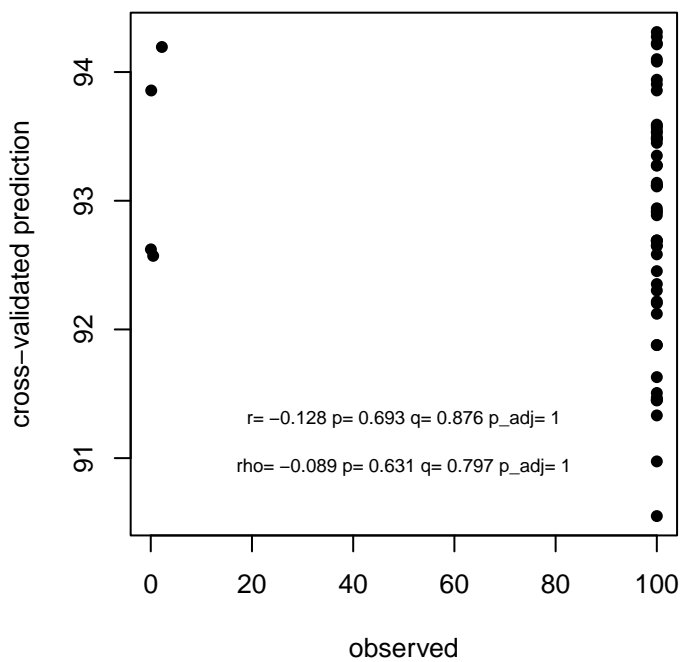
### PHHs\_48hr\_nucleiintensity



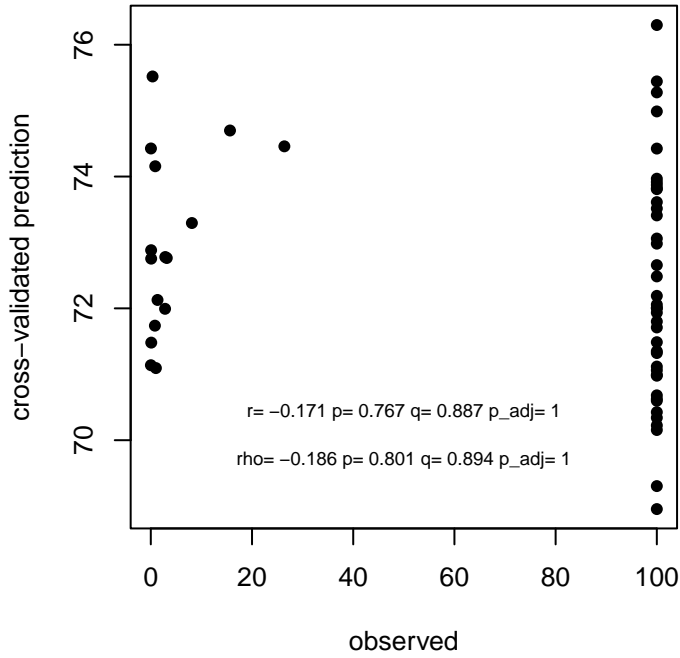
### HepG2\_48hr\_granularity



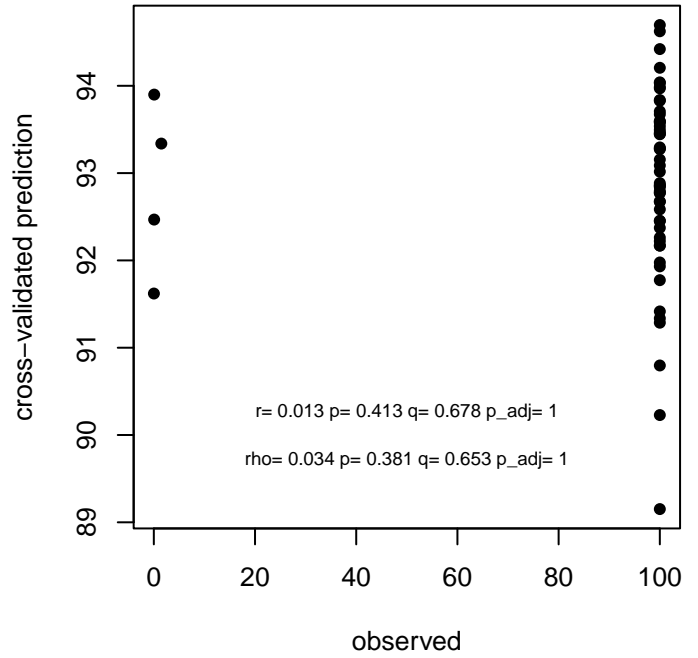
### HepG2\_48hr\_totalcells



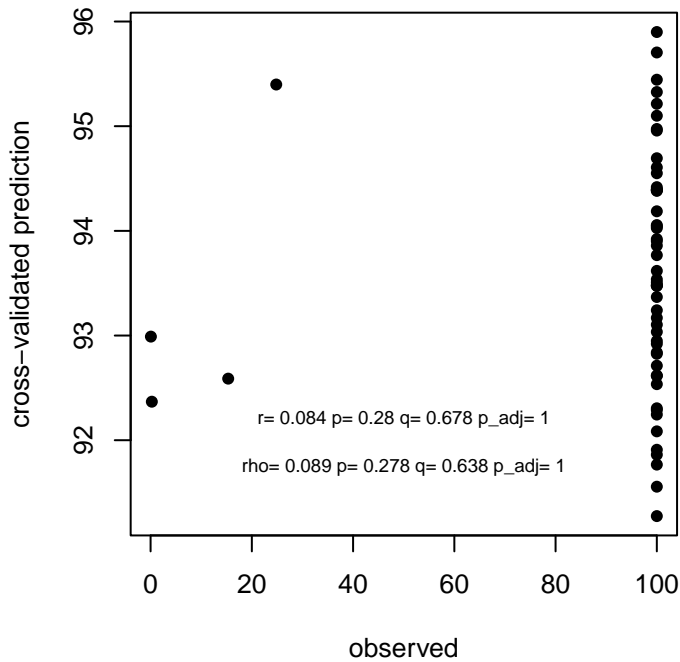
### HepG2\_48hr\_allcellsmeanarea



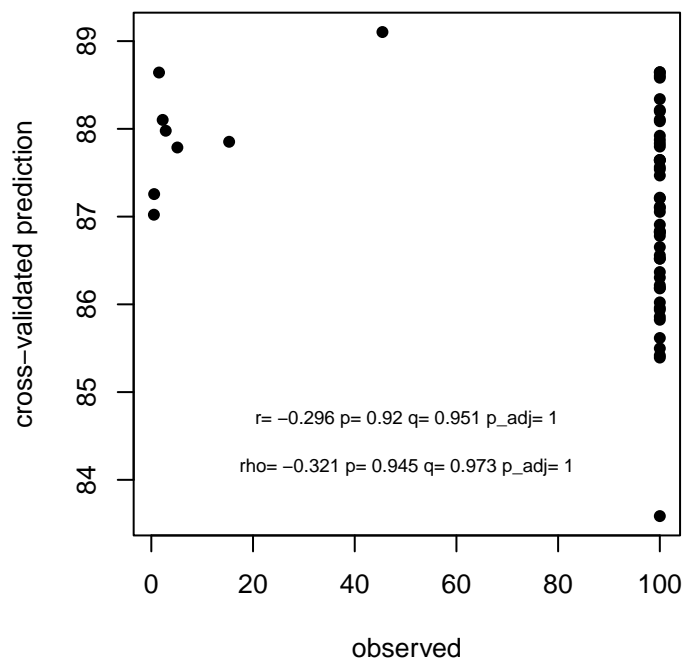
### HepG2\_48hr\_cytoplasmicintegrity



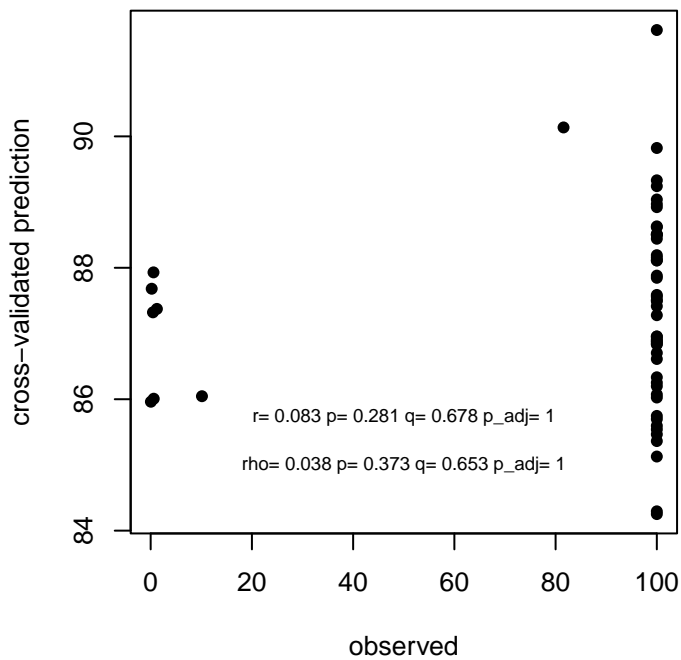
### HepG2\_48hr\_mitochondrialintegrity



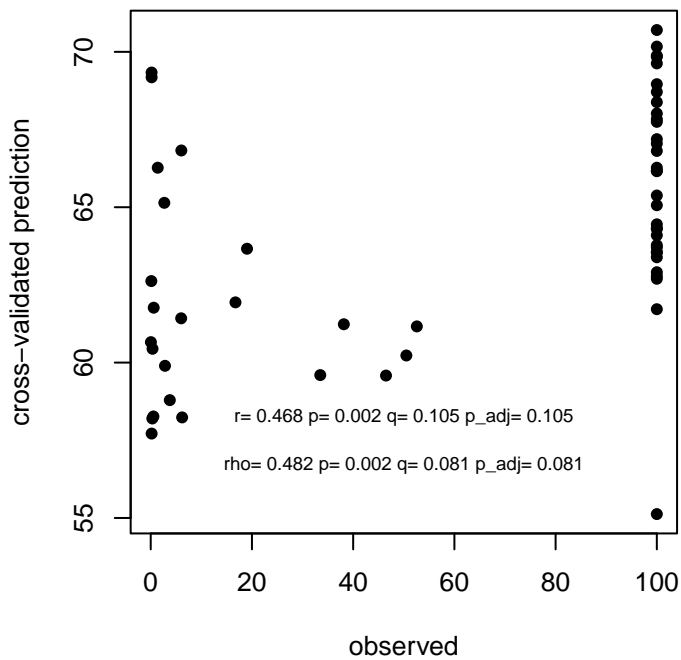
### HepG2\_48hr\_mitochondrialintensity



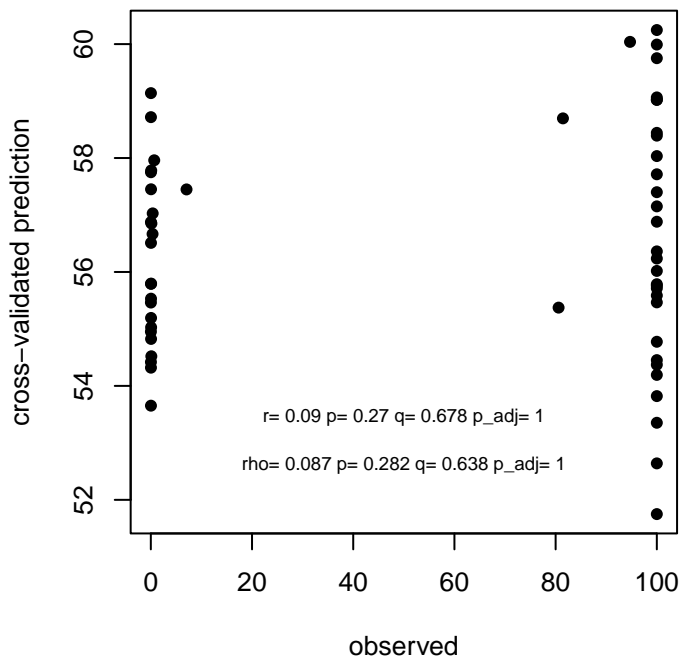
### HepG2\_48hr\_nucleiintensity



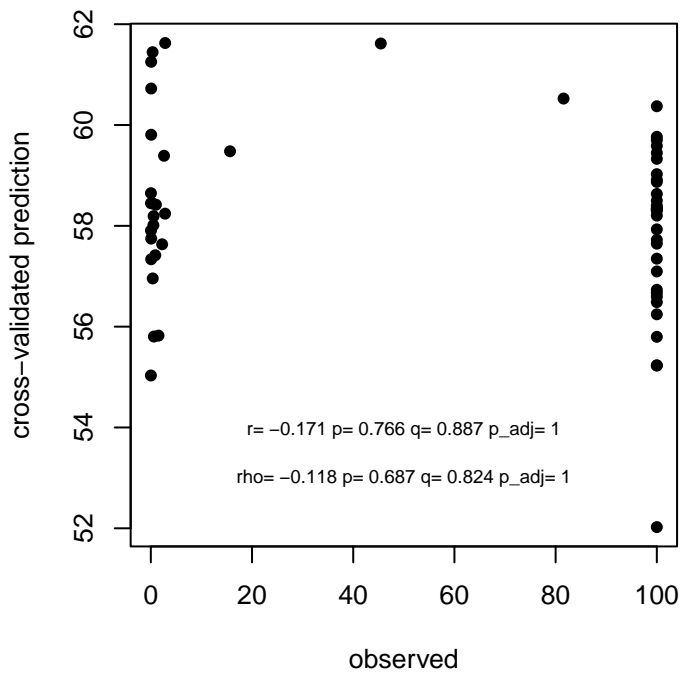
### CARDIO



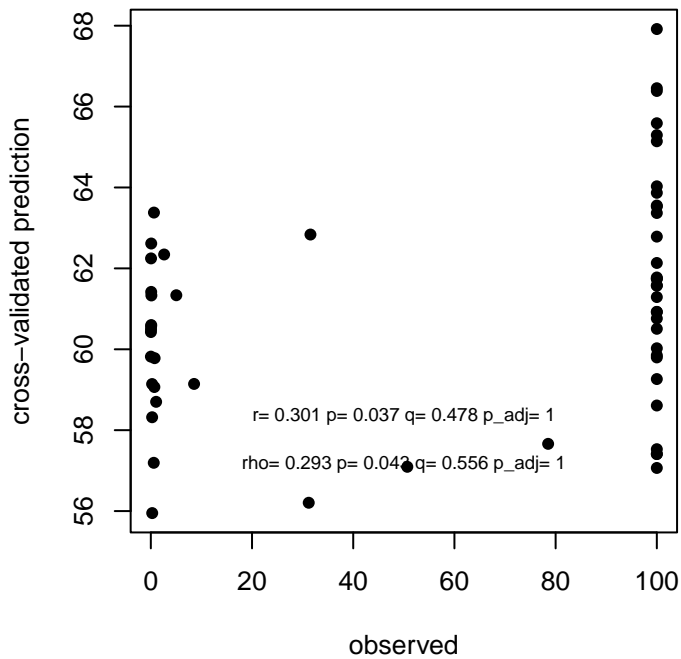
### HEPATOCYTES



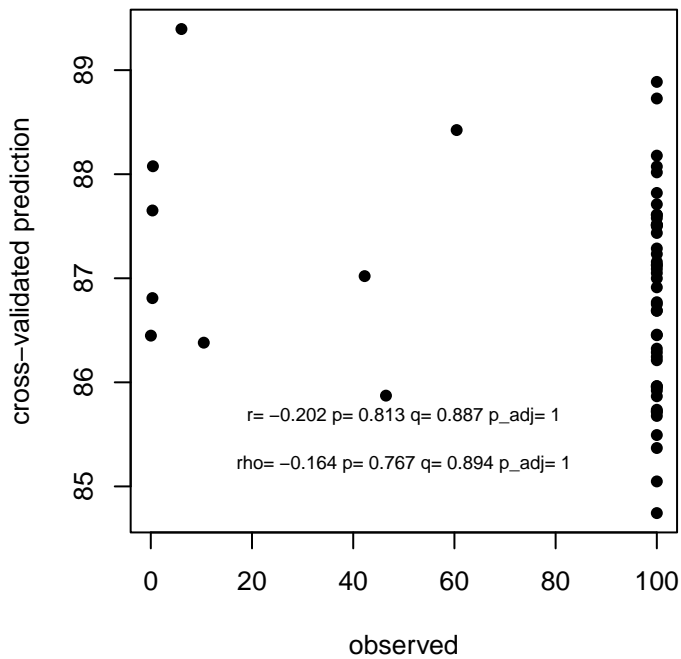
### HepG2



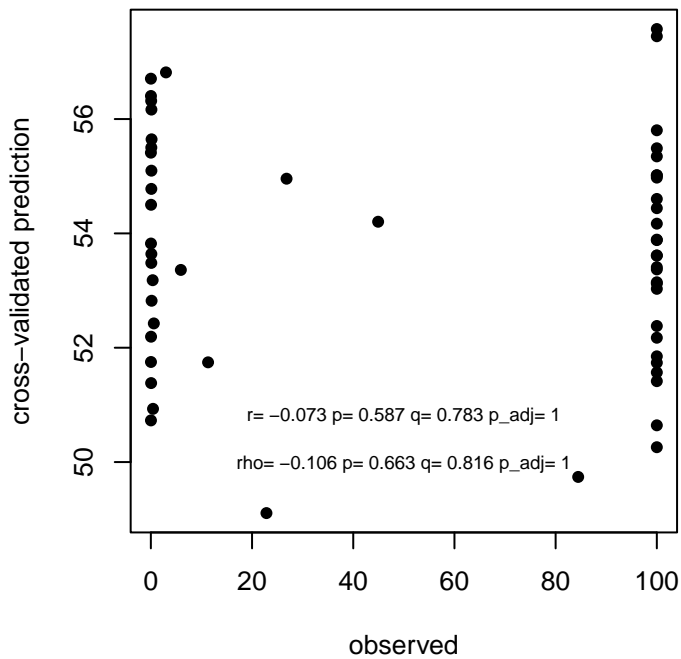
### HUVEC



### NEURONS



### PHHs



### minPOD

