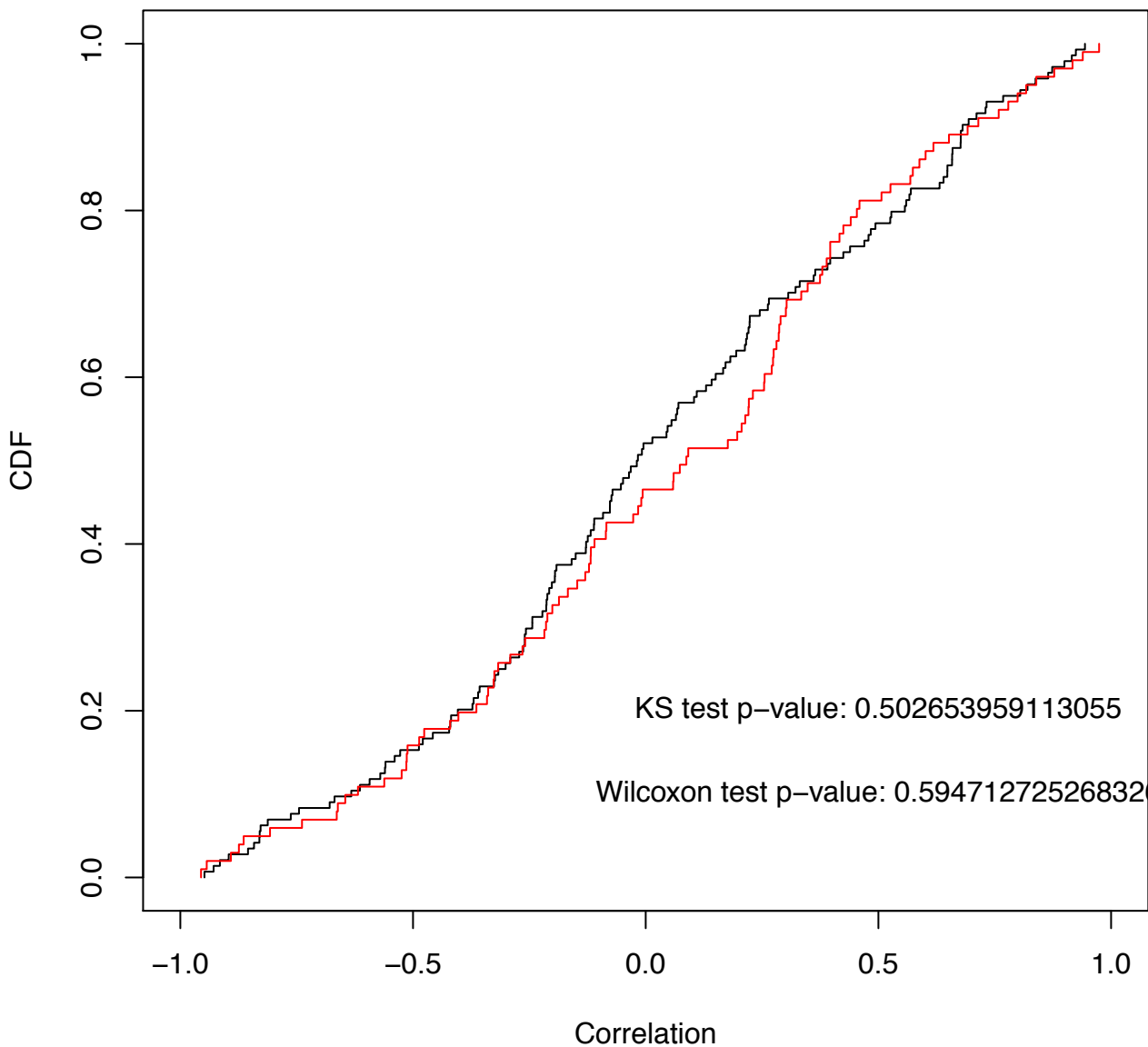
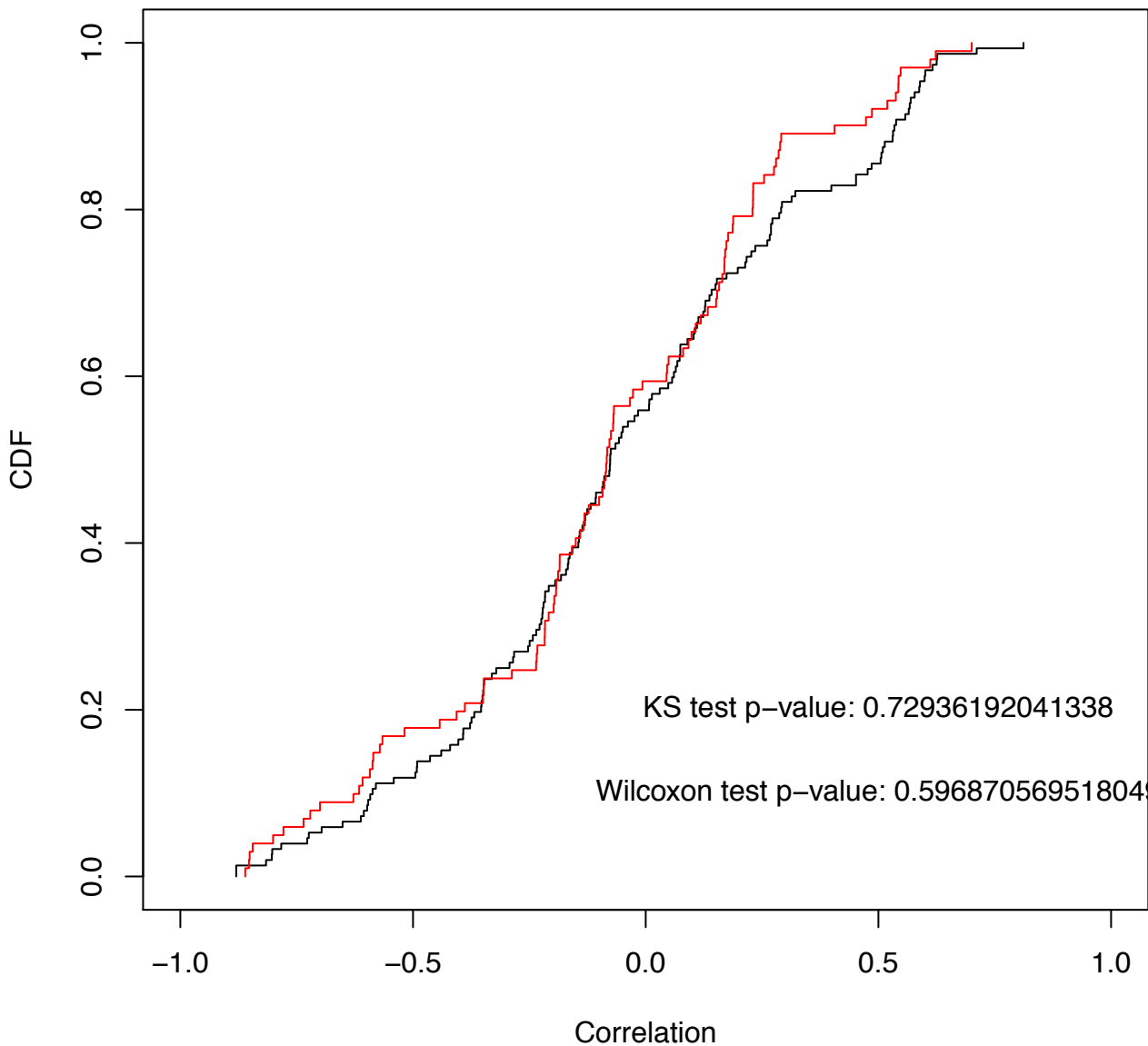


Figure 2. Distribution of mRNA-protein correlations for differentially expressed and non-differentially expressed mRNA profiles. The empirical cumulative distribution functions (CDF) over correlation coefficients between mRNA and protein values in a condition are plotted for differentially expressed mRNA profiles (DE) and non-differentially expressed mRNA profiles (Non-DE). Each individual correlation coefficient is based on $n = 5$ time points within a condition. Inset shows bean plots with ticks for each correlation value inside of density envelopes; bars represented medians for each group. Differentially expressed mRNA profiles are shifted significantly to higher correlations (Kolmogorov-Smirnov test, $p = 0.008$) and have a higher median (Wilcoxon test, $p = 0.03$).

Empirical Correlation CDFs (DE=black, nonDE=red)
cor(differential_gene_expr, differential_prot_expr)

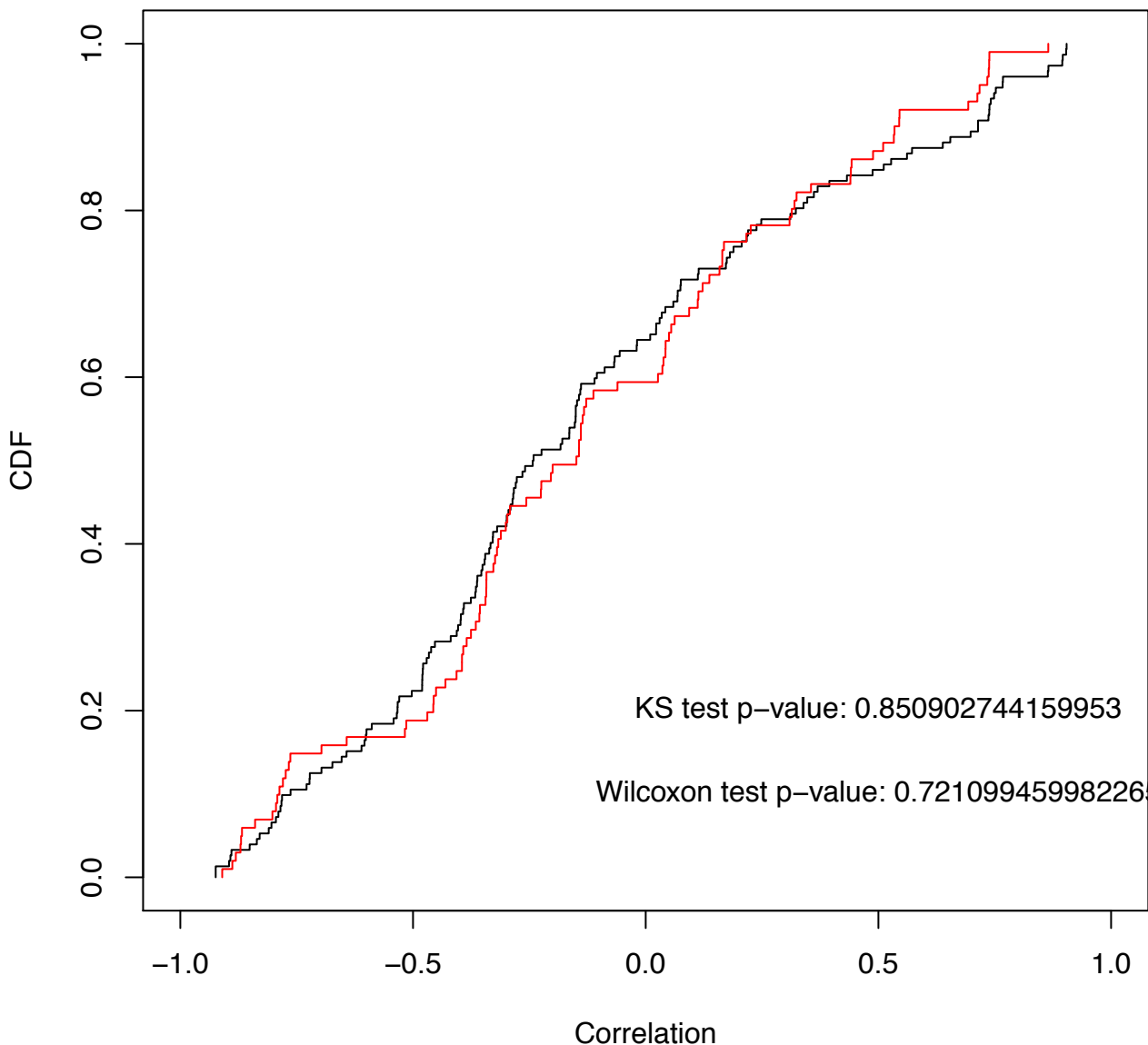


Empirical Correlation CDFs (DE=black, nonDE=red)
cor(differenced_differential_gene_expr, differenced_differential_prot_exp)

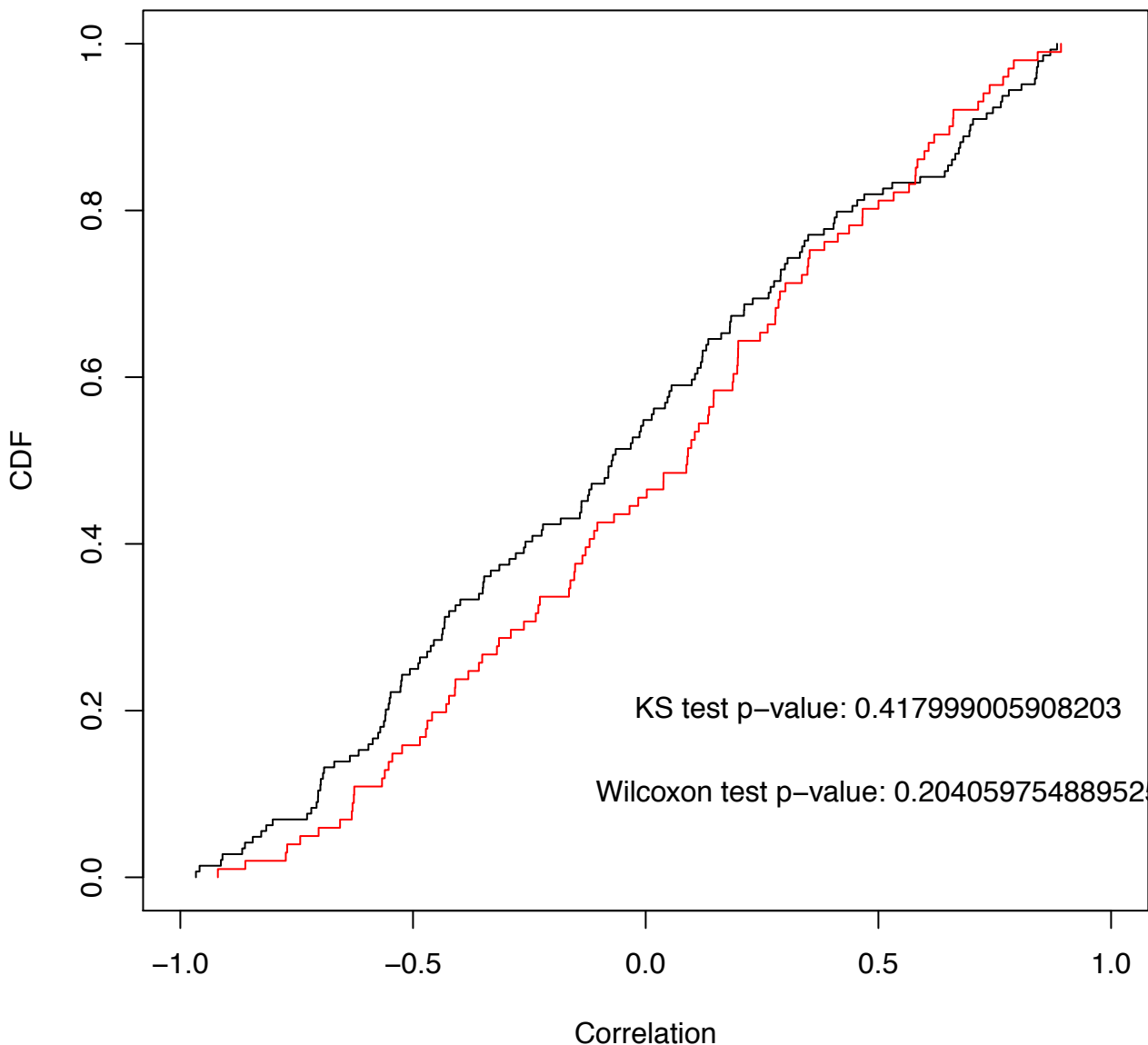


n:162 m:0

Empirical Correlation CDFs (DE=black, nonDE=red)
cor(differenced_differential_gene_expr, differential_prot_expr)



Empirical Correlation CDFs (DE=black, nonDE=red)
cor(differential_gene_expr, differenced_differential_prot_expr)



n:104 m:0

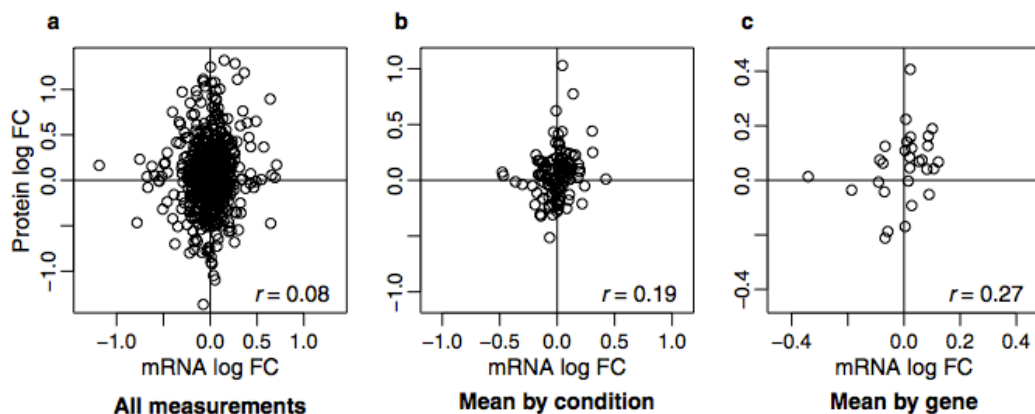
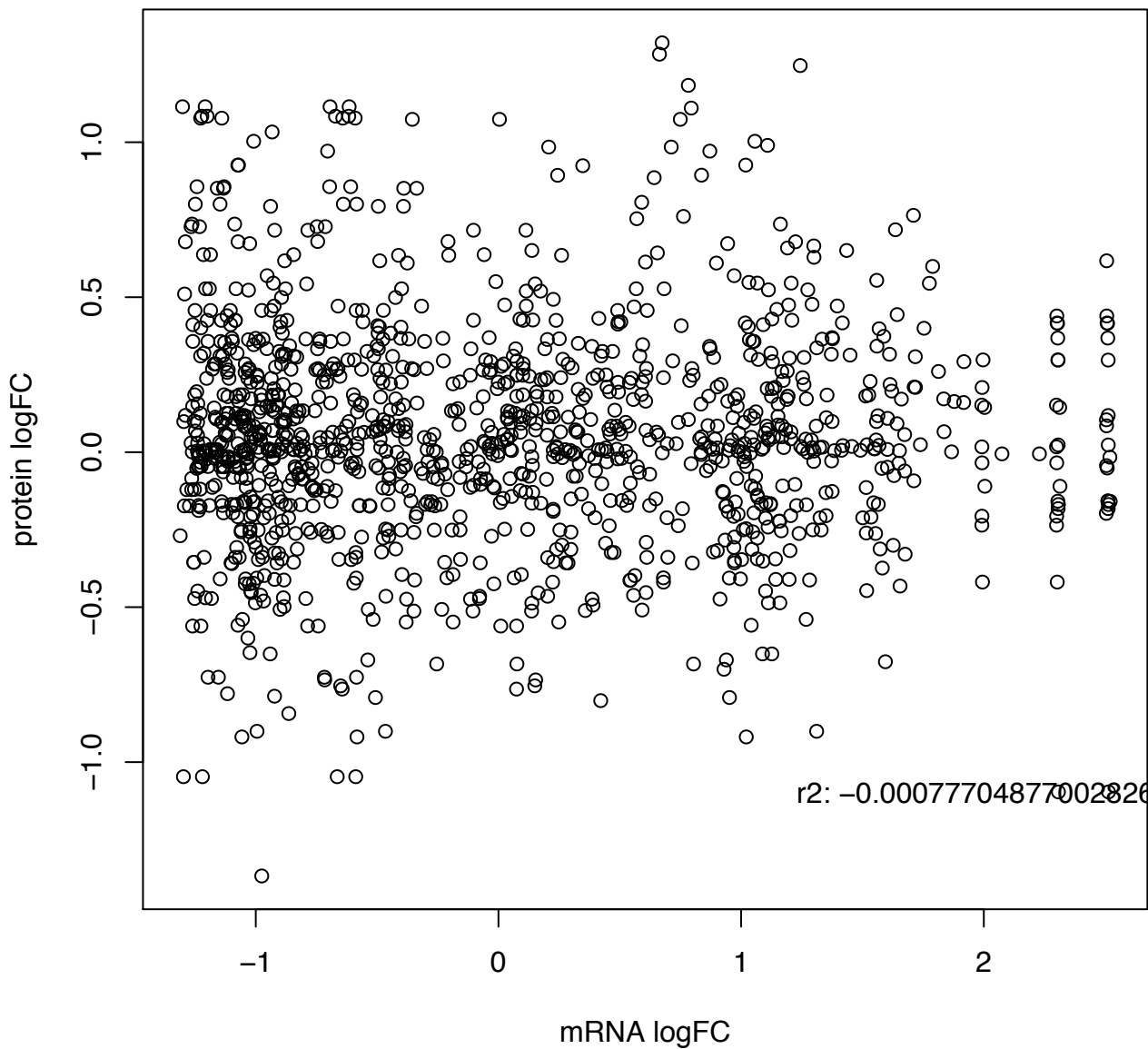


Figure 4. Genome-wide correlations for mRNA and protein expression. Scatterplots with associated correlation coefficients (r) for (a) all measurements taken ($n = 579$), (b) means by condition ($n = 116$), and (c) means by gene ($n = 29$).

All Measurements



Averaging over genes

