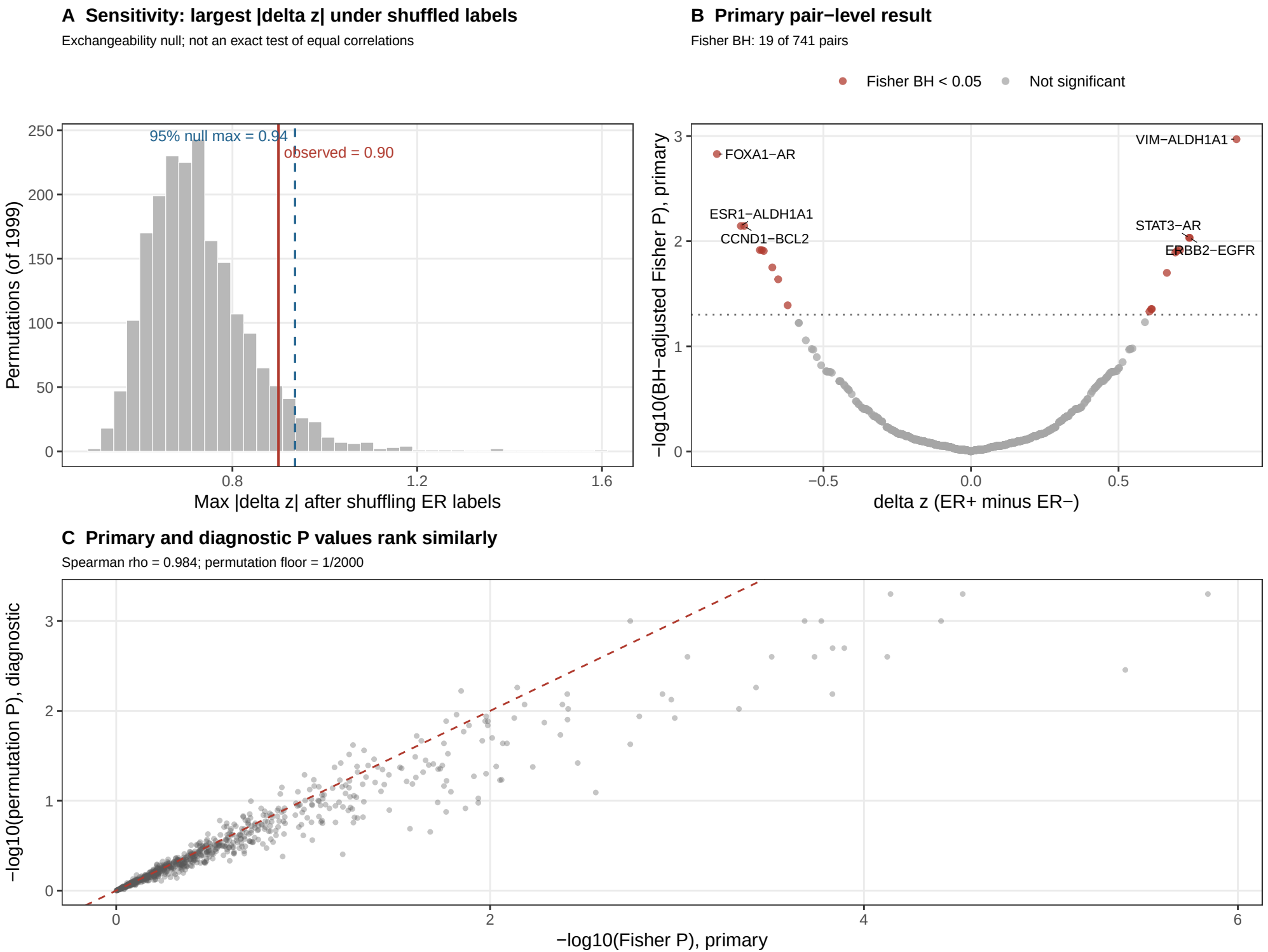

A Sensitivity: largest |delta z| under shuffled labels
Exchangeability null; not an exact test of equal correlations
95% null max = 0.94
observed = 0.90
Permutations (of 1999)
Max |delta z| after shuffling ER labels
B Primary pair−level result
Fisher BH: 19 of 741 pairs
Fisher BH < 0.05
Not significant
FOXA1−AR
ESR1−ALDH1A1
CCND1−BCL2
VIM−ALDH1A1
STAT3−AR
ERBB2−EGFR
−log10(BH−adjusted Fisher P), primary
delta z (ER+ minus ER−)
C Primary and diagnostic P values rank similarly
Spearman rho = 0.984; permutation floor = 1/2000
−log10(permutation P), diagnostic
−log10(Fisher P), primary
Permutation panels are sensitivity diagnostics: they assume exchangeable joint distributions between ER groups.