Supplement 2: Analysis of Simulated Data Using $\widehat{PFER}$ as the Equalizer

The results displayed in Supplementary Figures 1-5 were obtained using $\widehat{PFER}$ as the equalizer. The experimental design was identical to that based on equalizing the estimated FDR (Figures 1-3 in the main text).

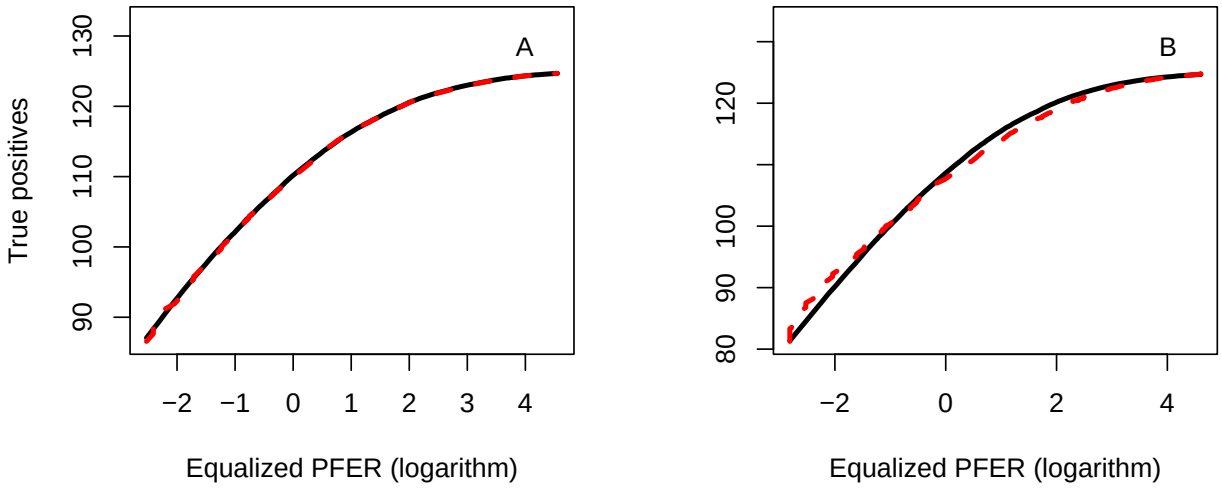

Figure 1: The mean number of true discoveries produced by $Bonf^{\gamma}$ and BH^{β} with $\widehat{PFER}$ as the equalizer. A – independent data, B – correlated data, solid line: $Bonf^{\gamma}$, dashed line: BH^{β}

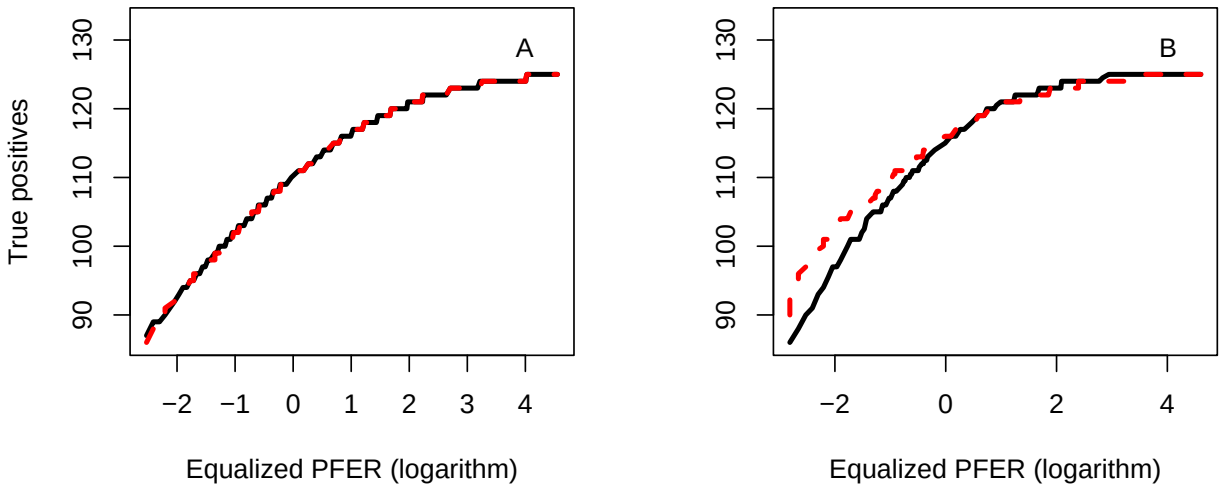

Figure 2: The median number of true discoveries produced by $Bonf^{\gamma}$ and BH^{β} with $\widehat{PFER}$ as the equalizer. A – independent data, B – correlated data, solid line: $Bonf^{\gamma}$, dashed line: BH^{β}

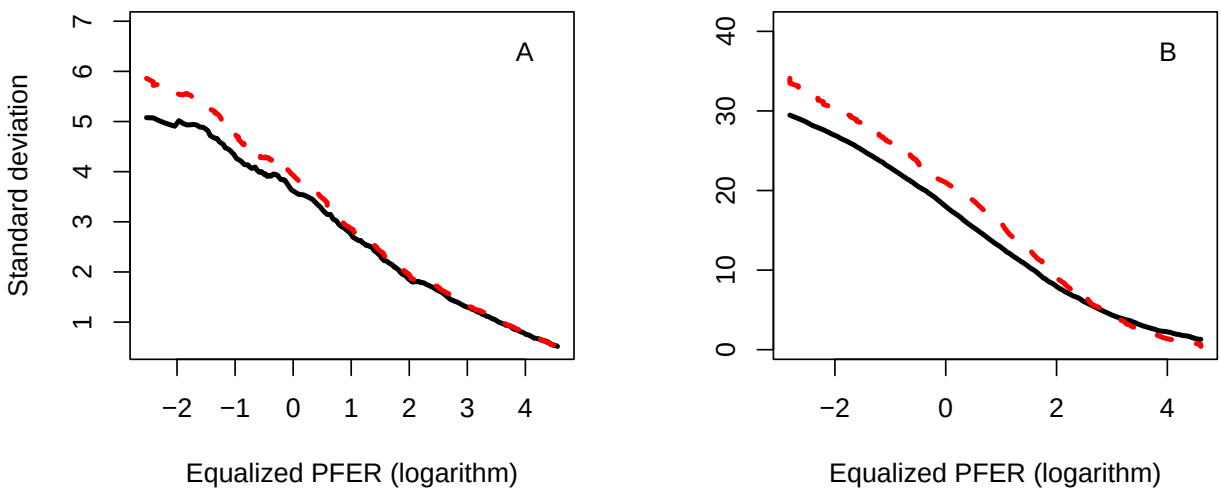

Figure 3: The standard deviation of true discoveries produced by $Bonf^{\gamma}$ and BH^{β} with $\widehat{PFER}$ as the equalizer. A – independent data, B – correlated data, solid line: $Bonf^{\gamma}$, dashed line: BH^{β}

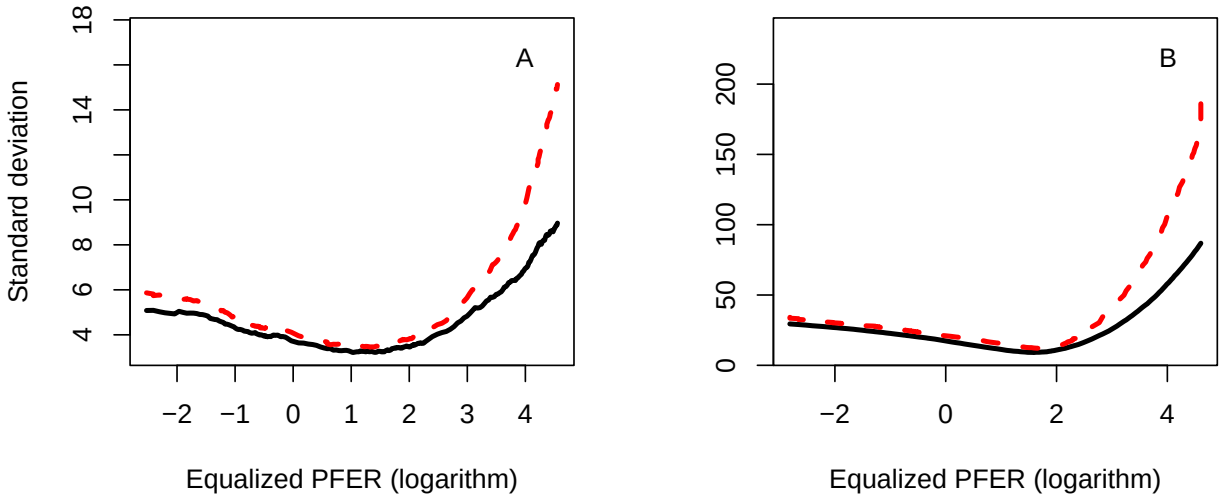

Figure 4: The standard deviation of the total number of discoveries produced by $Bonf^{\gamma}$ and BH^{β} with $\widehat{PFER}$ as the equalizer. A – independent data, B – correlated data, solid line: $Bonf^{\gamma}$, dashed line: BH^{β}

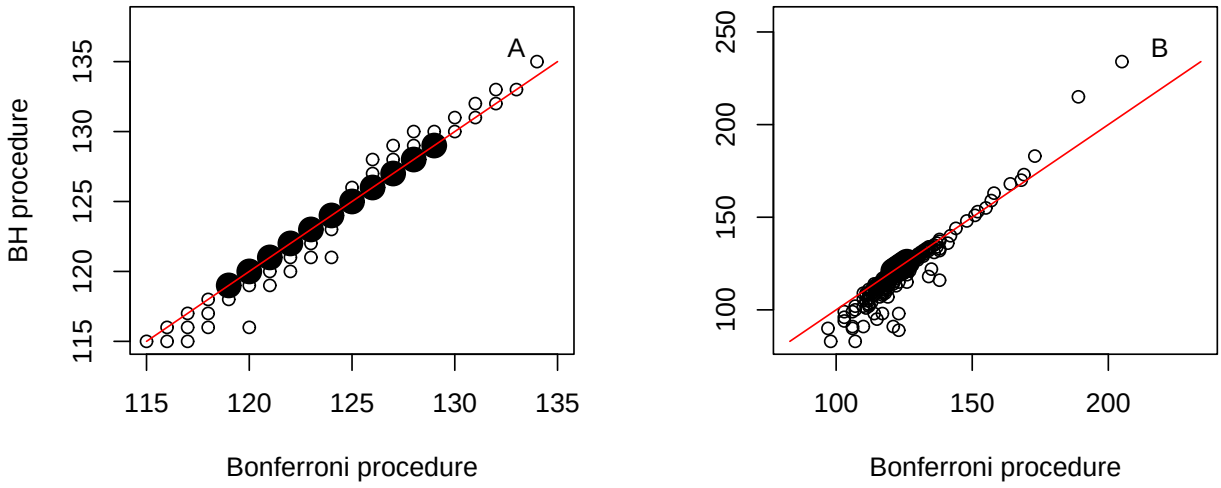

Figure 5: The scatterplot of total discoveries for $Bonf^{\gamma}$ versus BH^{β} with $\widehat{PFER}$ as the equalizer. A – independent data, B – correlated data, solid line: $Bonf^{\gamma}$, dashed line: BH^{β} Closed circles represent those outcomes that occur in at least ten simulated samples.