FIGURE S1.—ROC curves for the within group variability setting $\psi = 10$. The x-axis represents the false positive rate, the y-axis represents the true positive rate. The four panels of the graph show results for each of the four simulation settings. The ROC curve for the unblocked un-replicated design (A) is in solid red, the blocked un-replicated design (B) is in dotted red, the unblocked replicated design (C) is in solid blue, and the blocked replicated design (D) is in dotted blue. The replicated designs always outperform the un-replicated designs and whenever there is a batch effect or lane effect, the blocked designs outperform their unblocked counterparts.