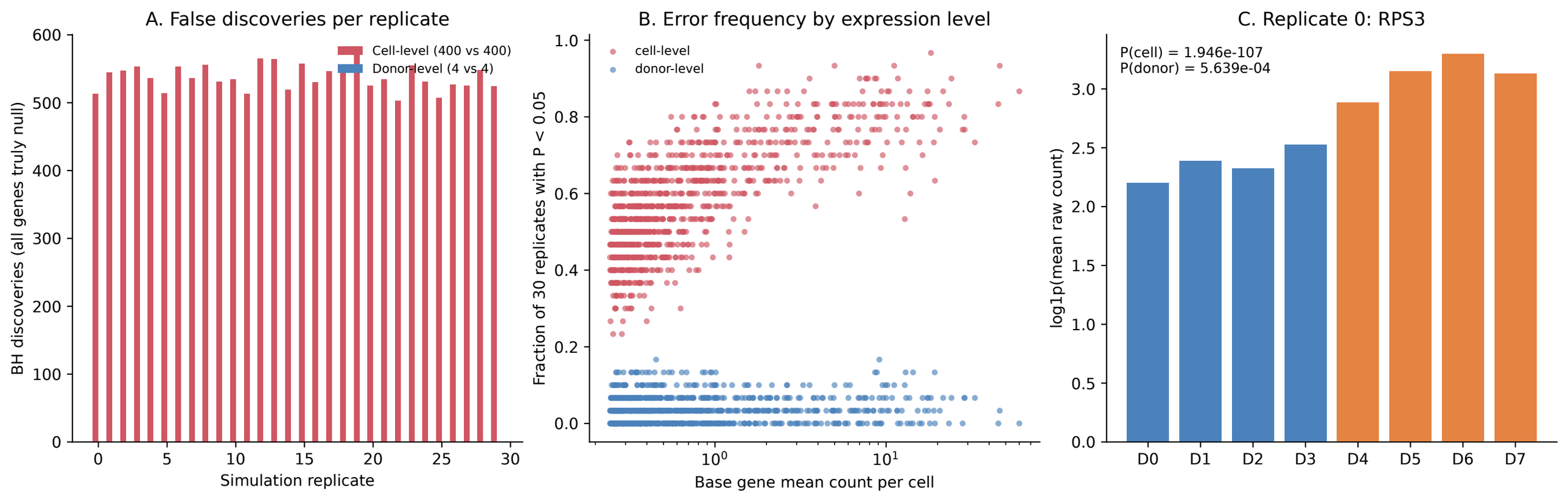
A. False discoveries per replicate
Cell-level (400 vs 400)
Donor-level (4 vs 4)
BH discoveries (all genes truly null)
Simulation replicate
B. Error frequency by expression level
cell-level
donor-level
Fraction of 30 replicates with P < 0.05
Base gene mean count per cell
C. Replicate 0: RPS3
P(cell) = 1.946e-107
P(donor) = 5.639e-04
log1p(mean raw count)
D0
D1
D2
D3
D4
D5
D6
D7