GOEAs recovering Humoral Response (HR) GO IDs 1.00 **B**1 100% Null 0.075 Genes 0.75 0.050 0.50 0.025 0.25 0.000 0.00 1.00 0.075 0.050 0.025 of General Population 0.75 0.50 0.25 5% 0.000 0.00 1.00 **B**3 50% Null 0.075 0.75 0.050 0.50 0.025 0.25 0.000 0.00 1.00 25% Null 0.075 0.75 0.050 0.50 0.025 0.25 0.000 0.00 Percentage 1.00 **B**5 0.075 0.050 0.025 0.075 0.75 0.50 0.25 0.000 0.00 16 20 48 64 ∞ 4 & 48 80 FDR Sensitivity Specificity Number of Genes in a Study Group