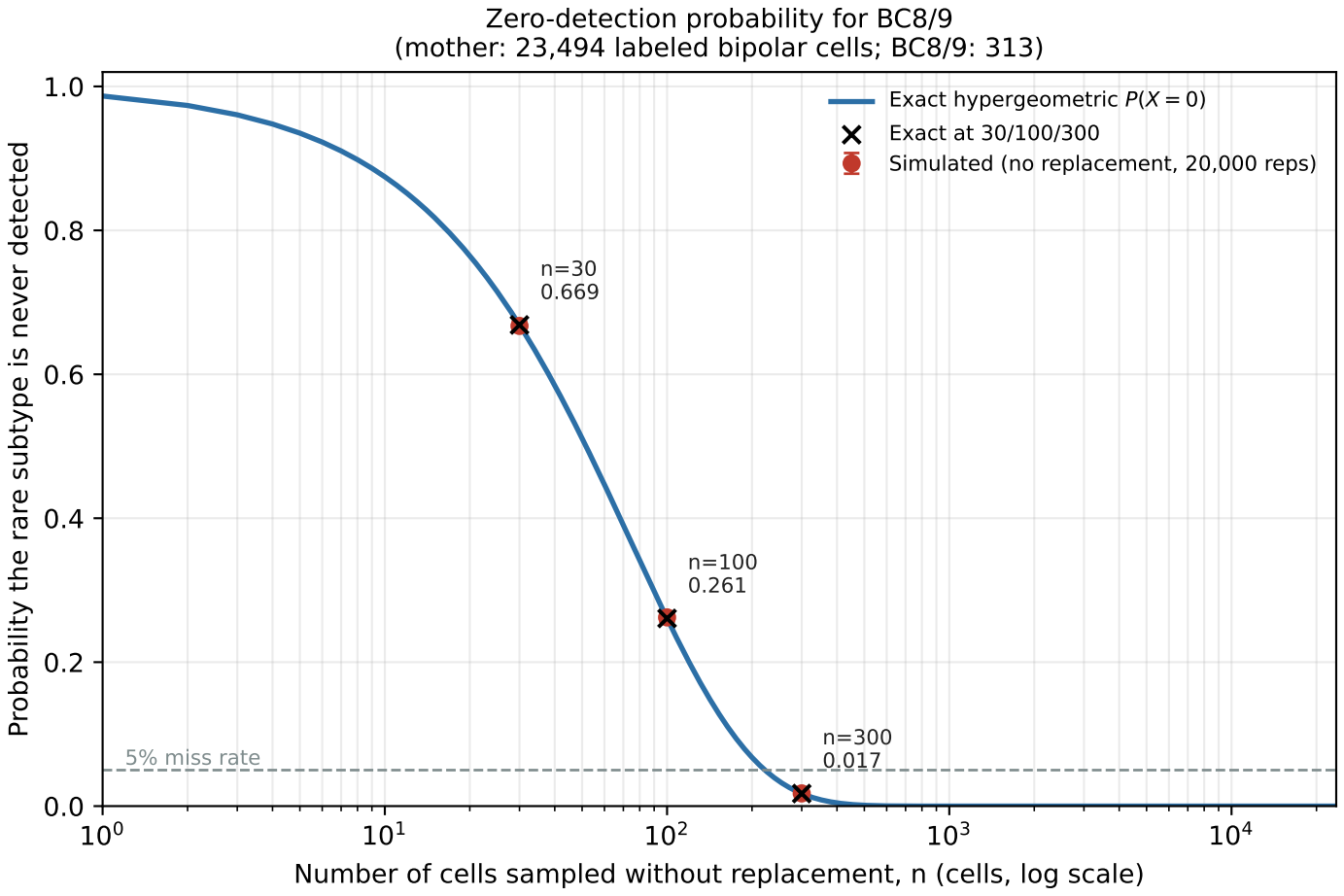

Zero-detection probability for BC8/9
(mother: 23,494 labeled bipolar cells; BC8/9: 313)
Exact hypergeometric $P(X = 0)$
Exact at 30/100/300
Simulated (no replacement, 20,000 reps)
n=30
0.669
n=100
0.261
n=300
0.017
5% miss rate
Probability the rare subtype is never detected
Number of cells sampled without replacement, n (cells, log scale)
1.0
0.8
0.6
0.4
0.2
0.0
10^0
10^1
10^2
10^3
10^4