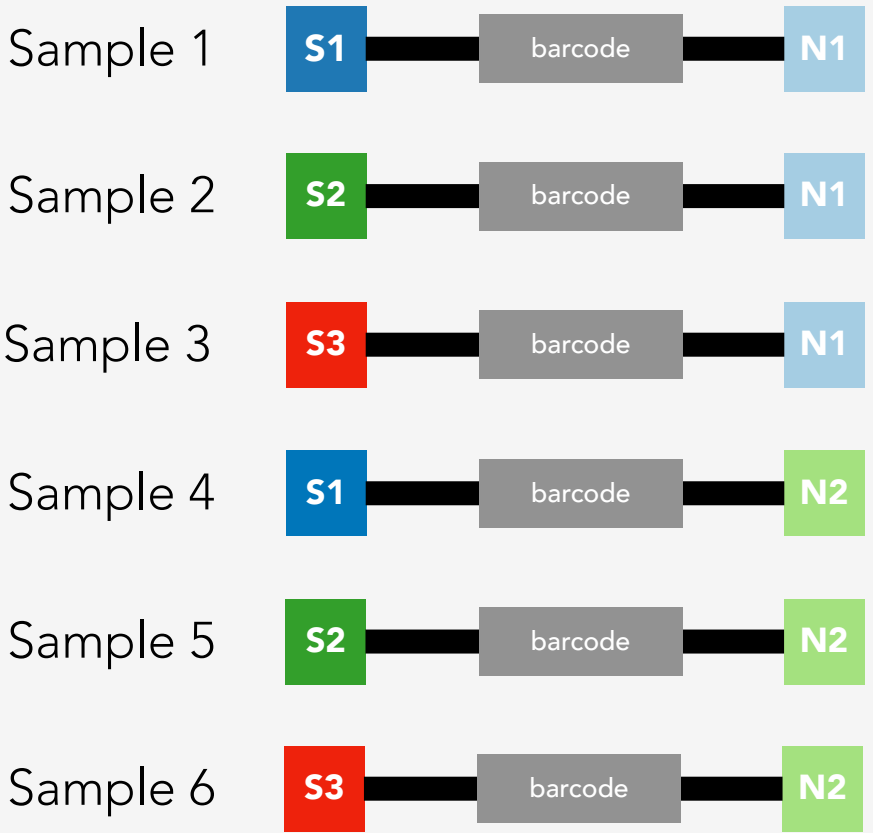


A

Combinatorial indexing

(prone to index hopping)



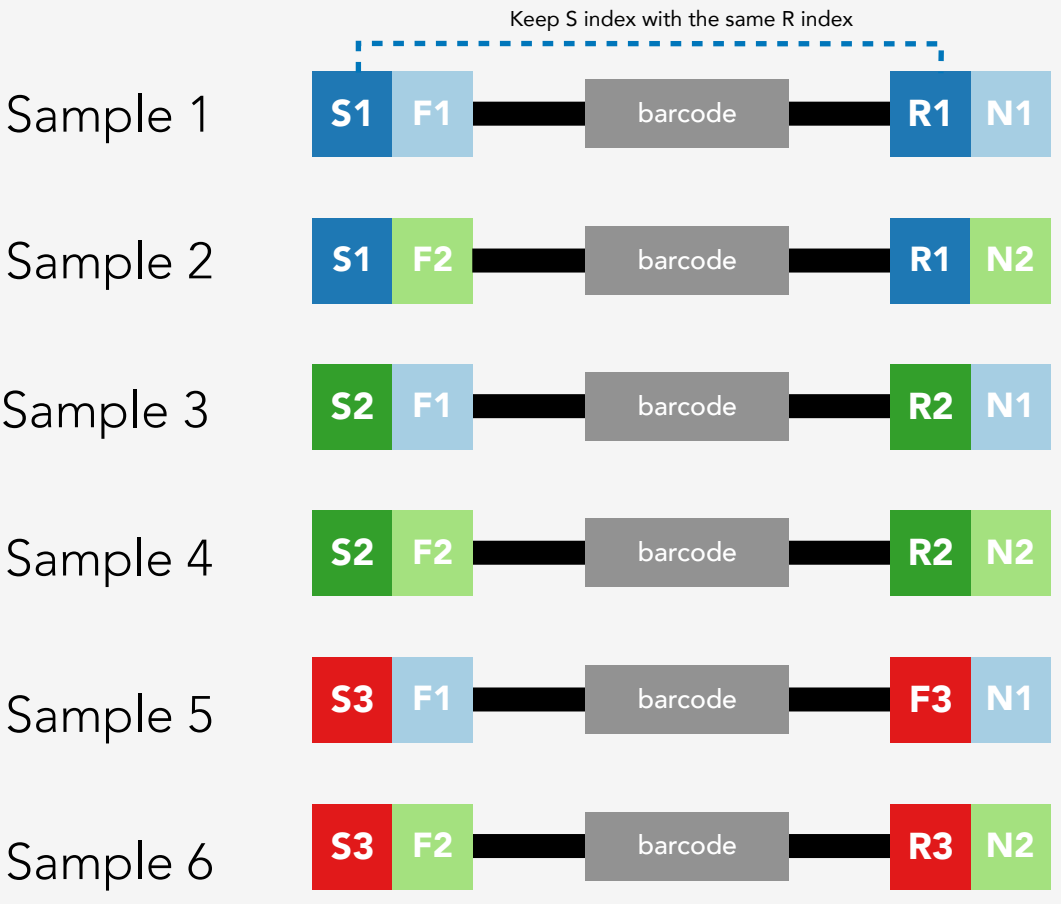
For 96 samples, need
12 forward + 8 reverse = 20 primers

Unique Dual Indexing



For 96 samples, need
96 forward + 96 reverse = 192 primers

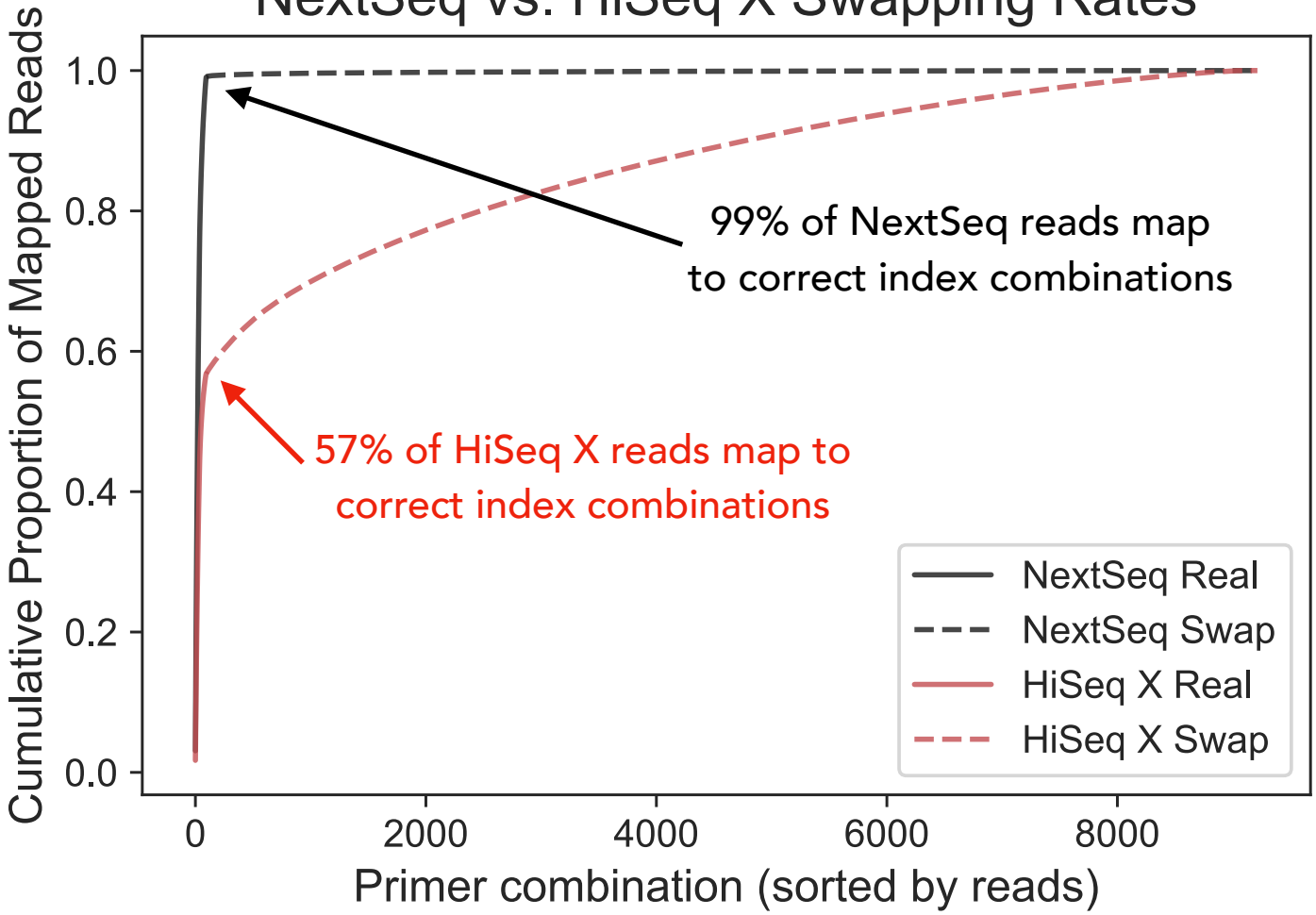
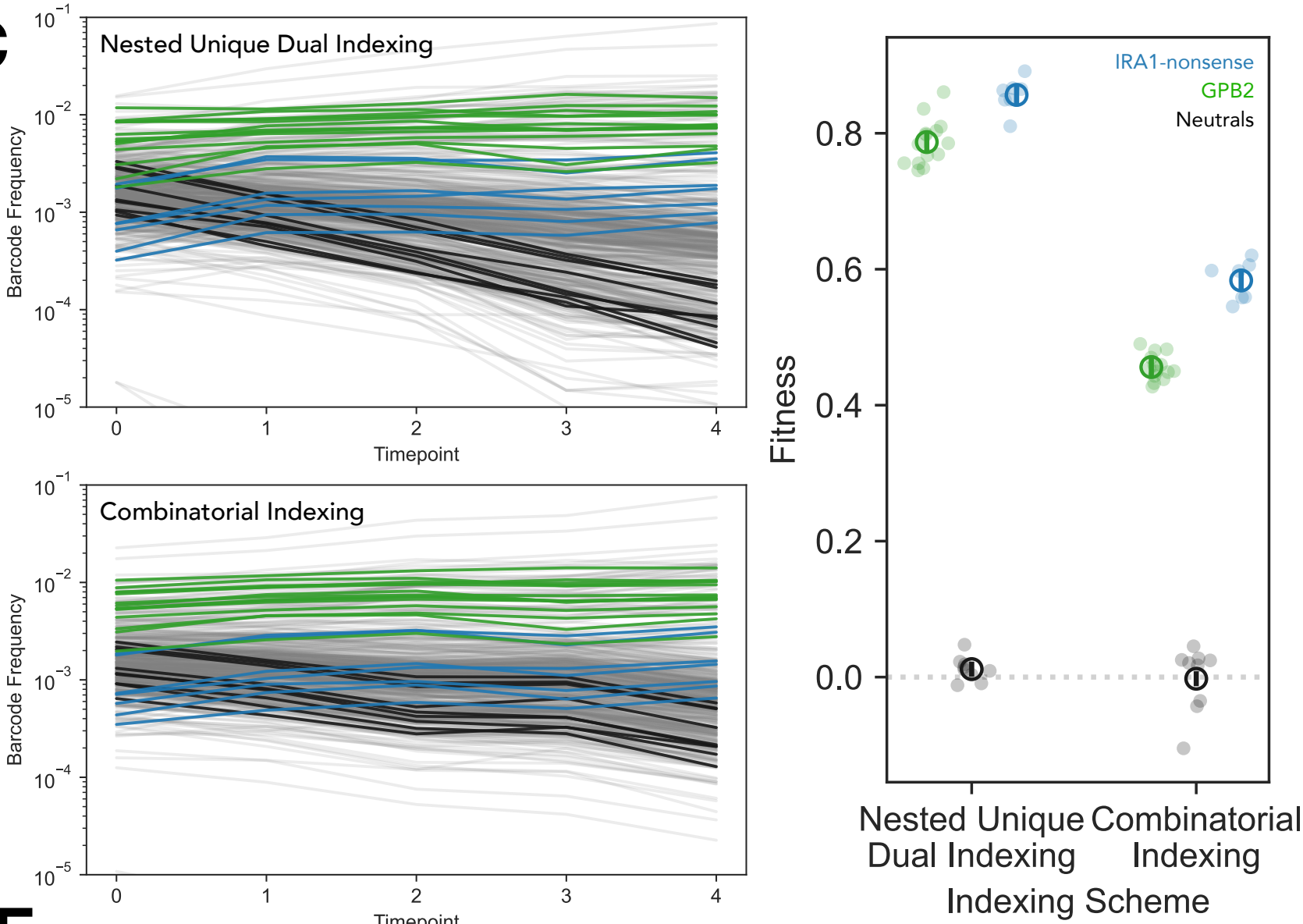
Nested unique dual indexing



For 96 samples, need
12 F + 12 N + 8 R + 8 S = 40 primers

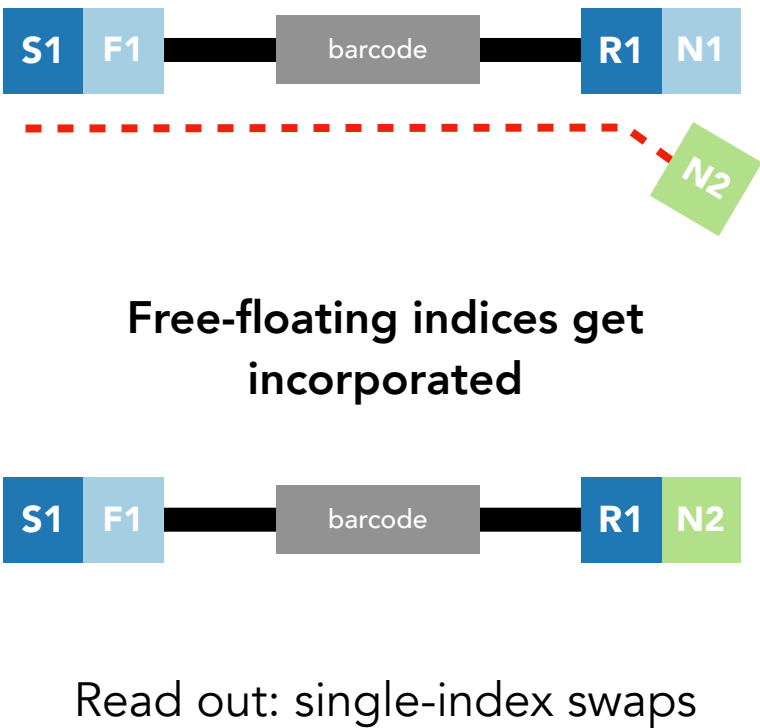
B

NextSeq vs. HiSeq X Swapping Rates

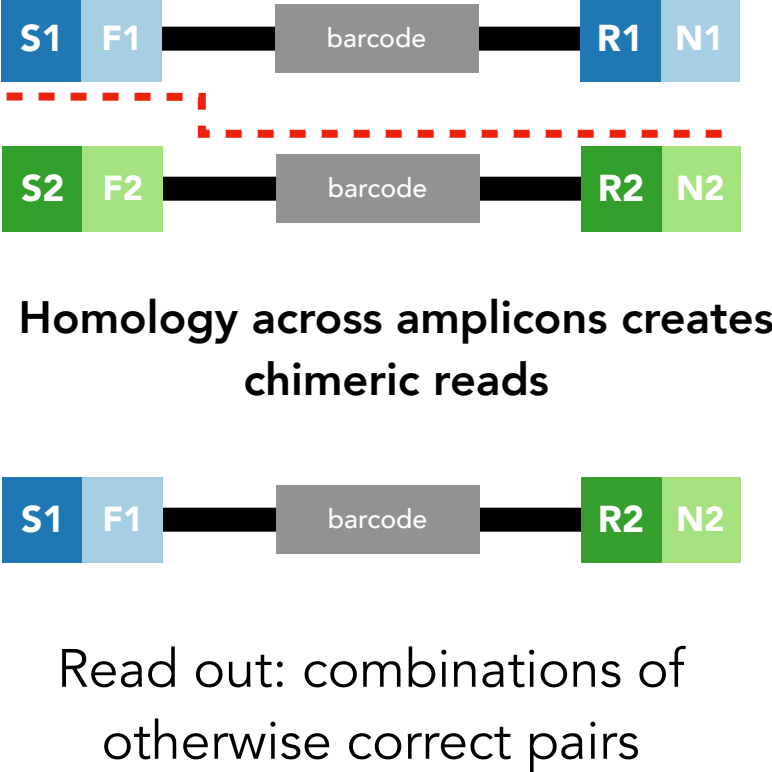
**C****D**

Mechanisms for index mis-assignment

"Index Hopping"



"Template Swapping"

**E**