B A Seeding approaches Modelling seed entropy 100 125 **25 50** *k*-mers (k=4) k-mers (k = 30) S G C - $P(X_2|Y_0 = 1) = 1$ j = 0Seeds $P(X_2|Y_1 = 1) = 0$ 13 38 **54** 82 i = 1 Mutation positions Reference i = 2i = 0i = 1 р w = 64, m = 4, k = 30altstrobes (2,10/20, 25, 50) randstrobes (2, 15, 25, 50) randstrobes (2,2,3,5) $P(X_2|Y_0=1)=2/3$ Seeds j=0 Reference i = 0i = 2i = 1 р Matching Not matching