

**Bosch et al., Supplementary Figure: Calculation of minimum and maximum gene conversion rates**

times in generations from Hammer and Zegura	no. of prox-to dist events seen	total no. of chrs analyzed	max elapsed time (to yield minimum rate)	min elapsed time (to yield maximum rate)
Y 3617 (2813-4421) A	6	4	4 x 4421	2813+3
BR 3280 (2600-3960) B	2	4	4 x 3960, +1821	2600+3, +0
CR 2740 (2499-2981) C	4	2	9 x 2981, +1461	2499+1
Y-BR 337 (0-1821*) CR 2740 (2499-2981) E	4	7		2499+6
BR-CR 540 (0-1461) F 2012 (1752-2282) G	0	1	2x2282, +1229	2x1752, +217
F 2012 (1752-2282) H	0	1		
CR-F 728 (217-1229) K 1424 (1184-1644) N	1	3	5x1644, +1098	1184+2
F-K 588 (108-1098) K 1424 (1184-1644) O	1	2		1184+1
P 1196 (1028-1364) Q	2	2	8x1364, + 616	1028+1
K-P 228 (0-616) P 1196 (1028-1364) R	2	6		1028+5
<b>totals</b>	<b>22</b>	<b>32</b>	<b>90274</b>	<b>18686</b>

\*e.g. - Range calculated as (minimum age of Y minus maximum age of BR) to (maximum age of Y minus minimum age of BR)

prox-to-dist	rates (events/generation)	$22/90274 = 2.4 \times 10^{-4}$	$22/18686 = 1.2 \times 10^{-3}$
	rates (events/bp/generation) [divided by 622bp - inclusive distance between outermost PSVs]	$3.9 \times 10^{-7}$	$1.9 \times 10^{-6}$
dist-to-prox (1 event in same time)	rates (events/generation)	$1/90274 = 1.1 \times 10^{-5}$	$1/18686 = 5.3 \times 10^{-5}$
	rates (events/bp/generation)	$1.7 \times 10^{-8}$	$8.6 \times 10^{-8}$
overall rate (=sum)	rates (events/generation)	$2.5 \times 10^{-4}$	$1.3 \times 10^{-3}$
	rates (events/bp/generation)	$4.1 \times 10^{-7}$	$2.0 \times 10^{-6}$