FREGENE datasets: 'Population A'

SUMMARY OF MODELLING ASSUMPTIONS USED TO SIMULATE THE PANMICTIC POPULATION.

Population A mimics the evolution of 10.5K diploid individuals along 200K generations. Each sequence is 20 Mb long. Two simulations are available: one neutral (see results in Output_neutral) and one with selection (see results in Output_selected). Scripts used to generate these simulations are also provided (fregene_POPNA_neutral.sh and fregene_POPNA_sel.sh respectively). Modelling assumptions are recorded in the input files (in Input directory) and summarized below. Finally some R scripts that generate figures describing these simulations can be found in R_Scripts together with the corresponding figures (in Figures).

20 Mb	
200,000	
21,000	
2.3×10^{-8}	
1.1×10^{-8}	
4.5×10^{-9}	
80%	
2.0kb	
0.5kb	
8.5kb	
Selection parameters (if applicable)	
5×10^{-4}	
0.5	
50,000	
$s \sim 0.1 \times \mathcal{N}(0.005, 0.05^2)$	
$+0.9 \times \mathcal{N}(-0.01, 0.005^2)$	
$h \sim 0.8 \times \mathcal{N}(0.5, 0.2)$	
$+0.3 \times \mathcal{N}(1.2, 0.2^2)$	