

Step 1: Simulate genotypes

Repeat for each simulation replicate

	Locus 1	Locus 2	Locus 3	Locus 4
Individual 1	110/112	200/200	150/158	281/283
Individual 2	110/114	202/204	152/158	279/283
Individual 3	118/118	200/210	154/158	281/285
Individual 4	112/114	202/206	154/154	281/283

17 total alleles simulated in this example population



Step 2: Generate and sample seeds

Repeat for each pollen donor type

Step 2a: Select parents

Repeat for each maternal plant sampled

	Locus 1	Locus 2	Locus 3	Locus 4
♀ Individual 1	110/112	200/200	150/158	281/283
♂ Individual 2	110/114	202/204	152/158	279/283
Individual 3	118/118	200/210	154/158	281/285
Individual 4	112/114	202/206	154/154	281/283

Step 2b: Cross parents to make seed sets

Repeat for each seed sampled from each plant

	Locus 1	Locus 2	Locus 3	Locus 4
Individual 1	110/112	200/200	150/158	281/283
Individual 2	110/114	202/204	152/158	279/283



Seed 1	110/112	200/202	152/158	281/283
Seed 2	110/114	200/202	158/158	283/283



11 alleles conserved in sampling



Step 3: Calculate proportion of alleles conserved

Divide number of alleles captured in sampling by the total number of alleles in the simulated population

11 alleles conserved / 17 total (64.7%) through sampling