

This is an electronic appendix to the paper by Chat *et al.* 2003 A one-step organelle capture: gynogenetic kiwifruits with paternal chloroplasts. *Proc. R. Soc. Lond. B* 270, 783—789. (DOI 10.1098/rspb.2002.2285.)

Electronic appendices are refereed with the text. However, no attempt has been made to impose a uniform editorial style on the electronic appendices.

Electronic Appendix A

Table 2. Probability to observe the occurrence of four trihaploids of genotype [-] considering syngamy following by random elimination of three sets of chromosomes among the six ones inherited by the zygote ($2n=6x$).

Locus No.	Name	No. of paternal-specific alleles per locus (n)	Probability	
			of the trihaploid to be [-] after random elimination of 3 chromosomes (Q_{it})	of one trihaploid to be [-] for all the n paternal-specific alleles at the l locus ($P_{it} \times Q_{it}$)
1	UDK96-001	1	1	1/2
			i=0: 1/2 i=1: 1/2	1/4
2	UDK96-030	3	1	1/20
			i=0: 1/20 i=1: 9/20 i=2: 9/20 i=3: 1/20	9/40 36/400 1/400
				$\sum_{i=0}^{i=n} (P_{it} \times Q_{it}) = 3/4$
3	721	4	1/2 4/20 1/20	1/10 12/100 1/100
			i=1: 1/5 i=2: 3/5 i=3: 1/5	$\sum_{i=0}^{i=n} (P_{it} \times Q_{it}) = 147/400$
4	722	3	1 1/2	1/20 9/40
			i=0: 1/20 i=1: 9/20	$\sum_{i=0}^{i=n} (P_{it} \times Q_{it}) = 23/100$

i=2: 9/20
i=3: 1/20

4/20
1/20

36/400
1/400

$$\sum_{i=0}^{i=n} (P_{il} \times Q_{il}) = 147 / 400$$

Probability for the four trihaploids to be [-] for all the 11 paternal-specific alleles at the four SSR loci examined: $\left(\prod_{l=1}^{l=4} \sum_{i=0}^{i=n} P_{il} \times Q_{il} \right)^4 = 2.9 \times 10^{-7}$
