

Table S3: Not considering R=0.125: minimum number of SNP and/or STR loci required per category for a relatedness category assignment with a >95% (>80%) correct classification rate without considering the category R=0.125.

Mating System	Marker	MAF	PO	FS	R=0.25	Unrel ¹
Monogamy	SNP	0.05	3200	(800)	1600	(800)
		0.25	200	(100)	200	200
		0.5	100	(100)	200	(100)
	STR	n/a	80	(40)	80	(40)
		0.05	800	(100)	400	(100)
		0.25	100	(50)	200	(50)
	SNP&STR ²	0.5	100	(50)	100	(50)
		0.05	1600	(400)	3200	(1600)
		0.25	200	(100)	400	(400)
Polygyny	SNP	0.5	100	(100)	400	200
		0.05	n/a	80	(40)	-
		0.25	200	(100)	-	(80)
	STR	0.5	100	(100)	400	50
		0.05	400	(100)	1600	(800)
		0.25	100	(50)	400	(200)
	SNP&STR	0.5	50	(50)	400	(200)
		0.05	800	(400)	-	-
		0.25	200	(100)	-	-
Promiscuity	SNP	0.5	100	(100)	-	-
		0.05	n/a	40	(40)	-
		0.25	200	(50)	-	-
	STR	0.5	100	(100)	-	-
		0.05	200	(50)	-	-
		0.25	50	(50)	-	-
	SNP&STR	0.5	50	(50)	-	-
		0.05	800	(400)	-	-
		0.25	200	(100)	-	-

Dashes indicate that the category could not be assigned with a >95% (80%) correct classification rate with the simulated number of loci. MAF minor allele frequency, PO parent-offspring, FS full siblings, R=0.25 avuncular, half sibs, grand-parent-grand offspring, unrelated unrelated. ¹Note that with the population size and parameters used, more than >95% of individuals are unrelated, so even if all dyads were assigned to the category 'unrelated' the correct classification rate might be >95%. ²Number of SNP loci required when combined with 20 STR loci.