

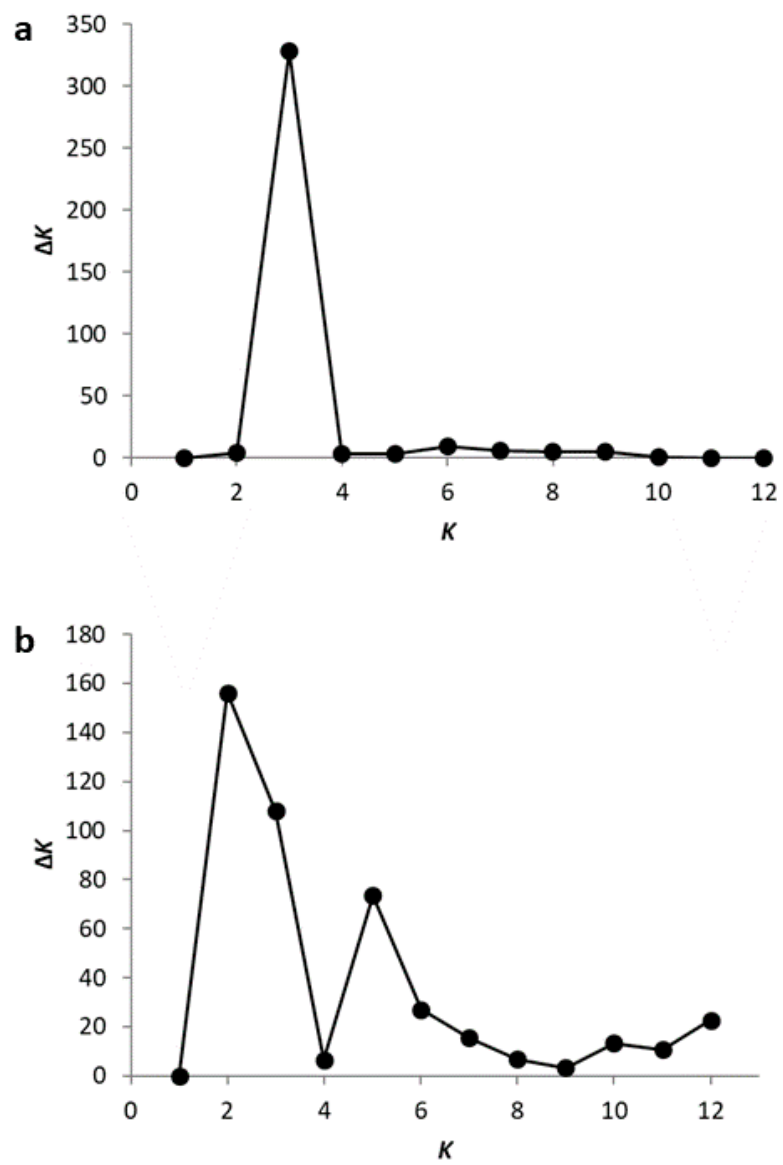


Figure S1. ΔK based on STRUCTURE analyses for *Banksia marginata* remnant and SPA trees (a) SSRs and (b) SNPs.

Table S1. Cross amplification of *Banksia marginata* samples using primer pairs developed for other *Banksia* species. + initially amplified across all samples; * data suitable for analyses.

Species	Locus	Motif	Cross amplification	Reference
<i>Banksia oblongifolia</i>	Bo3	(AG) ₁₁	No	[45]
	Bo7+	(AG) ₁₁	Yes	[45]
	Bo16	(AG) ₉	Yes	[45]
	Bo17	(AG) ₄ C(AG) ₇	Poor	[45]
	Bo22+*	(AG) ₁₀	Yes	[45]
<i>Banksia robur</i>	Br3+*	(AG) ₈ G(AG) ₈	Yes	[45]
	Br13+*	(AG) ₁₃	Yes	[45]
	Br23	(AG) ₉ AA(AG) ₃	Yes	[45]
<i>Banksia hookeriana</i>	BH-B8+*	(AG) ₂₆	Yes	[46]
	BH-A117	(GT) ₁₆	No	[46]
<i>Banksia integrifolia</i>	Bint02+*	(AAAG) ₅	Yes	[47]
	Bint03	(AAAT) ₇	Poor	[47]
	Bint05+*	(AAC) ₈	Yes	[47]
	Bint07+*	(AAG) ₅	Yes	[47]
	Bint12	(AAT) ₁₃	Yes	[47]
	Bint14	(AAT) ₉	Yes	[47]
	Bint16+	(ACGG) ₆	Yes	[47]
	Bint17	(AGG) ₁₀	Yes	[47]
	Bint19	(GGT) ₁₀	No	[47]
	Bint24+*	(AGT) ₁₁	Yes	[47]
	Bint25	(AGG) ₇	Yes	[47]
<i>Banksia sphaerocarpa</i> var. <i>caesia</i>	BsA107	(CA) ₁₃ AA(CA) ₁₂	No	[48]
	BsA108	(CA) ₂₀ (CG) ₅	No	[48]
	BsA126	(CA) ₁₃ AAA(CA) ₁₂	No	[48]
	BsB5+	(CT) ₂₈ (CA) ₇	Yes	[48]
	BsB124	(GA) ₂₀ T(GA) ₃	No	[48]
	BsB128	(CT) ₂₄	Poor	[48]
<i>Banksia candolleana</i>	BC-A104	(CA) ₁₆	No	[49]
	BC-D4	(GAT) ₁₇	Yes	[49]
<i>Banksia attenuata</i>	BA-D115+	(TC) ₁₂	Yes	[50]

Table S2. P-values for each locus indicating departure from Hardy-Weinberg equilibrium.

Locus	Chi ₂	df	p-value
Bint02	>88.0180	18	<0.001
Bint05	> 134.4180	20	<0.001
Bint07	22.1966	18	NS
Bint24	53.6334	18	<0.001
Br3	41.5950	18	0.002
Br13	8.0073	10	NS
BO22	> 92.5255	20	<0.001
BH-B8	29.1378	18	NS

Table S3. Significant P-values for each locus pair across all *Banksia marginata* populations based on Fisher's exact test . * P-value remains significant after Bonferroni correction of P=0.002 .

Locus pair	Chi2	df	P-value
Bint02 & Br3	30.148831	16	0.017
Bint02 & BO22	39.187417	16	0.001*
Bint02 & Bint24	27.897018	14	0.015
Bint07 & Br3	27.615465	14	0.016
Bint07 & Bint24	>49.381585	14	<0.0001*
Bint24 & BH-B8	>56.126413	16	<0.0001*
Br3 & BO22	>66.588385	16	<0.0001*
Br3 & Bint24	>69.157166	14	<0.0001*
Br3 & BH-B8	>50.037876	14	<0.0001*
Br13 & Bint24	19.446642	10	0.035
Br13 & BH-B8	>45.055555	10	<0.0001*
BO22 & Bint24	>61.316784	16	<0.0001*
BO22 & BH-B8	>49.156697	16	<0.0001*