## **Supporting Information**

Article title: Historical biogeography across the ditch: continental vicariance and repeated independent dispersals of *Pomaderris* (Rhamnaceae) to New Zealand

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## **Supplementary Tables and Figures**

**Table S1a.** Sample outgroups included in the divergence dating phylogenetic analyses sourced from GenBank, with GenBank accession number provided.

no.	Таха	matK	trnL	trnL-trnF
1	Ampelozizyphus amazonicus			AJ390341
2	Barbeya oleoides	JF317418		AJ225795
3	Berchemia racemosa		KP299389	JN900314
4	Ceanothus americanus	AF049797		KC539715
5	Ceanothus cordulatus	AF049799		HQ325601
6	Ceanothus cuneatus	AF049823		KR083113
7	Ceanothus pumilus	AF049841		HQ325602
8	Colletia spinosissima		KP299391	AY460411
9	Colubrina asiatica	GU135023		AJ390350
10	Colubrina glandulosa			KR083117
11	Colubrina reclinata			AJ390370
12	Dallachya vitiensis			JN900333
13	Dirachma socotrana	JF317423		AJ225796
14	Elaeagnus bockii	JF317425		
15	Emmenosperma alphitonioides	KM894592		AJ390351
16	Gouania mauritiana	JF317427		AJ390344
17	Granitites intangendus			HQ325603
18	Jaffrea erubescens			KJ630949
19	Jaffrea xerocarpa			KJ630950
20	Karwinskia calderonii	JQ588888		JN900326
21	Lasiodiscus mildbraedii			AJ390353
22	Maesopsis eminii	KC627674		AJ390336
23	23 Noltea africana			AY460407
24	Paliurus spina-christi			AJ390354
25	Phylica pinea		KP299447	KC633917

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Table S1a. Continued.

no.	Таха	matK	trnL	trnL-trnF
26	Phylica rubra	KP110121	KP299454	
27	Phylica thodei			AF327611
28	Phylica villosa	JX517300	KP299462	KC633919
29	Reissekia smilacina			AJ390345
30	Rhamnella franguloides			AJ390330
31	Rhamnus utilis	JF317432		KR083470
32	Sageretia thea	KP093750		AJ225792
33	Schistocarpaea johnsonii			AJ390349
34	Scutia myrtina	KR734548		KR083140
35	Spyridium burragorang			EF528536
36	Spyridium buxifolium			EF528508
37	Spyridium cordatum			EF528530
38	Spyridium daltonii			EF528534
39	Spyridium eriocephalum			EF528522
40	Spyridium globulosum			EF528529
41	Spyridium gunnii			EF528524
42	Spyridium halmaturinum			EF528527
43	Spyridium mucronatum			EF528528
44	Spyridium nitidum			EF528531
45	Spyridium parvifolium	AF049849		EF528526
46	Spyridium scortechinii			EF528537
47	Spyridium subochreatum			EF528532
48	Spyridium thymifolium			EF528533
49	Spyridium tricolor			
50	Spyridium ulicinum			EF528523
51	Spyridium vexilliferum			
52	Spyridium waterhousei			EF528538
53	Ventilago harmandiana	AB925081		

Table S1a. Continued.

no.	Таха	rpl16	NADH	ITS
1	Ampelozizyphus amazonicus			
2	Barbeya oleoides		JF317437	
3	Berchemia racemosa	KP299297	KP299595	JN900290.1
4	Ceanothus americanus		CAU78893	AF048901.1
5	Ceanothus cordulatus		CCU78894	HQ325315.1
6	Ceanothus cuneatus		CCU78900	HQ325355.1
7	Ceanothus pumilus		CPU78902	AF048961.1
8	Colletia spinosissima	KP299300	KP299596	KP299471.1
9	Colubrina asiatica			AF328831.1
10	Colubrina glandulosa			KR083065.1
11	Colubrina reclinata			AF328832.1
12	Dallachya vitiensis			JN900300.1
13	Dirachma socotrana		JF317442	
14	Elaeagnus bockii		JF317444	AF440258.1
15	Emmenosperma alphitonioides			HQ340159.1
16	Gouania mauritiana		JF317447	
17	Granitites intangendus			HQ340160.1
18	Jaffrea erubescens			
19	Jaffrea xerocarpa			KJ630937.1
20	Karwinskia calderonii			JN900296.1
21	Lasiodiscus mildbraedii			AF328833.1
22	Maesopsis eminii			
23	Noltea africana			AF328822.1
24	Paliurus spina-christi	KP299305	KP299601	DQ146613.1
25	Phylica pinea	KP299360	KP299649	KP299521.1
26	Phylica rubra	KP299369	KP299658	KP299530.1
27	Phylica thodei	KP299374	KP299663	AF328810.1
28	Phylica villosa	KP299377	KP299666	KC633890.1
29	Reissekia smilacina			DQ146614.1
30	Rhamnella franguloides			JF980328.1
31	Rhamnus utilis		JF317452	KR083319.1
32	Sageretia thea			KP093134.1
33	Schistocarpaea johnsonii			AY911539.1
34	Scutia myrtina			KR733759.1
35	Spyridium burragorang			AY911594.1
36	Spyridium buxifolium			AY911595.1
37	Spyridium cordatum			AY911538.1
38	Spyridium daltonii			
39	Spyridium eriocephalum			AY911581.1
40	Spyridium globulosum			KR083089.1
41	Spyridium gunnii			AY911593.1

Table S1a. Continued.

no.	Таха	rpl16	NADH	ITS
42	Spyridium halmaturinum			AY911582.1
43	Spyridium mucronatum			AY911589.1
44	Spyridium nitidum			AY911584.1
45	Spyridium parvifolium			KR083090.1
46	Spyridium scortechinii			AY911596.1
47	Spyridium subochreatum			AY911585.1
48	Spyridium thymifolium			AY911586.1
49	Spyridium tricolor			AY911591.1
50	Spyridium ulicinum			AY911592.1
<b>51</b> Spyridium vexilliferum				KR083092.1
52	Spyridium waterhousei			
53	Ventilago harmandiana			

**Table S1b.** Newly sequenced *Pomaderris* and outgroup samples in this study, from herbarium specimens.

Collector's no.	Taxon	Voucher
FN 950	Pomaderris halmaturina subsp. halmaturina	AD 155887
FN 944	Pomaderris paniculosa subsp. paniculosa	AD 169208
FN 940	Pomaderris paniculosa subsp. paniculosa	AD 183300
FN 936	Pomaderris paniculosa subsp. paniculosa	AD 187632
FN 942	Pomaderris paniculosa subsp. paniculosa	AD 187999
FN 918	Pomaderris halmaturina subsp. halmaturina	AD 193158
FN 939	Pomaderris paniculosa subsp. paniculosa	AD 197379
FN 943	Pomaderris paniculosa subsp. paniculosa	AD 240132
FN 931	Pomaderris paniculosa subsp. paniculosa	AD 256764
FN 947	Pomaderris paniculosa subsp. paniculosa	AD 259848
FN 946	Pomaderris paniculosa subsp. paniculosa	AD 259850
FN 809	Stenanthemum notiale subsp. notiale	AD 269303
FN 919	Pomaderris halmaturina subsp. continentalis	AD 99550046
FN 935	Pomaderris paniculosa subsp. paniculosa	AD 99702537
FN 933	Pomaderris paniculosa subsp. paniculosa	AD 99704209
JK 390	Siegfriedia darwinioides	AD 213387
JK 403	Cryptandra congesta	AD 213398
JK 175	Cryptandra pungens	AD 213408
JK 182	Polianthion wichurae	AD 213411
JK 204	Stenanthemum notiale subsp. notiale	AD 213424
JK 210	Cryptandra arbutiflora var. arbutiflora	AD 213428
JK 223	Cryptandra arbutiflora var. borealis	AD 213433
JK 226	Blackallia nudiflora	AD 213436
JK 235	Stenanthemum pomaderroides	AD 213439
JK 247	Stenanthemum intricatum	AD 213442
JK 248	Cryptandra myriantha	AD 213443
JK 255	Cryptandra multispina	AD 213445
JK 267	Stenanthemum complicatum	AD 213450
JK 269	Cryptandra intermedia	AD 213452
JK 273	Trymalium daphnifolium	AD 213455
JK 275	Papistylus grandiflorus	AD 213456
JK 279	Cryptandra inconspicua	AD 213459
JK 280	Cryptandra nutans	AD 213460
JK 286	Stenanthemum pomaderroides	AD 213464
JK 287	Cryptandra micrantha	AD 213465
JK 289	Cryptandra stellulata	AD 213467
JK 291	Cryptandra dielsii	AD 213468
JK 318	Cryptandra myriantha	AD 213476
JK 330	Cryptandra minutifolia subsp. brevistyla	AD 213482
JK 335	Cryptandra apetala	AD 213485
JK 354	Cryptandra wilsonii	AD 213495
JK 360	Cryptandra minutifolia subsp. minutifolia	AD 213496
JK 368	Cryptandra recurva	AD 213499
JK 374	Cryptandra myriantha	AD 213504
JK 375	Cryptandra pungens	AD 213505

Table S1b. Continued.

Collector's no.		Vousbor
	Taxon	Voucher
JK 300	Stenanthemum nanum	AD 213513
JK 262	Serichonus gracilipes	AD 219564
JK 508	Stenanthemum leucophractum	AD 232572
FN 344	Pomaderris grandis	PERTH 07757441
FN 345	Trymalium daphnifolium	PERTH 05866006
FN 347	Trymalium monospermum	PERTH 08008248
FN 348	Trymalium spathulatum	PERTH 06762840
FN 349	Trymalium urceolare	PERTH 08161216
FN 351	Trymalium ledifolium var. ledifolium	PERTH 07890508
FN 410	Cryptandra intratropica	PERTH 08685487
FN 412	Cryptandra arbutiflora var. pygmaea	PERTH 07188617
FN 414	Cryptandra craigiae	PERTH 0780474
FN 415	Cryptandra crispula	PERTH 08414122
FN 416	Cryptandra glabriflora	PERTH 08858373
FN 417	Crytandra monticola	PERTH 07197675
FN 418	Crytandra mutila	PERTH 05789354
FN 455	Pomaderris adnata	MEL 2369173
FN 456	Pomaderris hamiltonii	MEL 2036073
FN 457	Pomaderris vellea	MEL 2172168
FN 458	Pomaderris tropica	MEL 2339497
FN 459	Pomaderris sericea	MEL 2113669
FN 460	Pomaderris queenslandica	MEL 2407248
FN 461	Pomaderris precaria	MEL 2330228
FN 462	Pomaderris pauciflora	MEL 2385078
FN 463	Pomaderris mediora	MEL 2365573
FN 464	Pomaderris ledifolia	MEL 2357374
FN 465	Pomaderris graniticola	MEL 2150341
FN 466	Pomaderris gilmourii	MEL 1620663
FN 467	Pomaderris elachophylla	MEL 2379943
FN 468	Pomaderris kumeraho	MEL 2036069
FN 709	Stenanthemum bremerense	PERTH 08800979
FN 710	Stenanthemum divaricatum	PERTH 06101518
FN 711	Stenanthemum liberum	PERTH 07408838
FN 712	Stenanthemum limitatum	PERTH 07934424
FN 713	Stenanthemum poicilum	PERTH 07889445
FN 714	Stenanthemum pumilum subsp. majus	PERTH 08172641
FN 715	Stenanthemum stipulosum	PERTH 08514046
FN 716	Stenanthemum sublineare	PERTH 08742553
FN 717	Stenanthemum yorkense	PERTH 08893020
FN 718	Stenanthemum mediale	PERTH 08505683
FN 719	Stenanthemum newbeyi	PERTH 07979665
FN 720	Stenanthemum patens	PERTH 08584931
FN 721	Stenanthemum petraeum	PERTH 08726108
FN 722	Polianthion biloculare	PERTH 08726108
FN 723	Polianthion collinum	PERTH 07341539

Table S1b. Continued.

Table S1b. Co		Marrahan
Collector's no.	Taxon	Voucher
FN 724	Cryptandra distigma	PERTH 07758995
FN 725	Cryptandra graniticola	PERTH 08656924
FN 726	Cryptandra aridicola	PERTH 08656924
FN 727	Cryptandra connata	PERTH 08429855
FN 728	Cryptandra imbricata	PERTH 05329566
FN 729	Cryptandra polyclada subsp. aequabilis	PERTH 08275882
FN 730	Cryptandra apetala var. apetala	PERTH 08198209 PERTH 08619875
FN 731 FN 732	Cryptandra arbutiflora var. tubulosa	PERTH 08619875 PERTH 05913837
FN 732 FN 733	Cryptandra everleyensis	PERTH 03913837 PERTH 08568782
FN 734	Cryptandra exserta	PERTH 05809002
FN 735	Cryptandra intonsa	PERTH 03809002 PERTH 08591261
FN 736	Cryptandra nola	PERTH 08391201 PERTH 08157898
FN 737	Cryptandra pendula Cryptandra polyclada subsp. polyclada	PERTH 08137898 PERTH 08986282
FN 737	Cryptandra scoparia	PERTH 07345763
FN 739	Cryptandra spyridioides	PERTH 08603936
FN 828	Pomaderris vellea	AQ 797156
FN 829	Pomaderris argyrophylla	AQ 826240
FN 830	Pomaderris argyrophylla	AQ 820827
FN 831	Pomaderris clivicola	AQ 756302
FN 832	Pomaderris canescens	AQ 915833
FN 858	Pomaderris coomingalensis	AQ 838373
FN 859	Pomaderris crassifolia	AQ 839237
FN 860	Pomaderris angustifolia	NSW 1001931
FN 861	Pomaderris prunifolia var. prunifolia	NSW 930741
FN 862	Pomaderris ferruginea	NSW 987296
FN 863	Pomaderris eriocephala	NSW 989466
FN 864	Pomaderris eriocephala	NSW 496339
FN 865	Pomaderris ferruginea	NSW 908147
FN 866	Pomaderris intermedia	NSW 993031
FN 867a	Pomaderris lanigera	NSW 496446
FN 867b	Pomaderris langiera	NSW 858975
FN 868	Pomaderris ligustrina	NSW 467331
FN 869	Pomaderris gilmourii	NSW 924071
FN 870	Pomaderris pilifera subsp. pilifera	NSW 929775
FN 920	Pomaderris rugosa	AK 297571
FN 921	Pomaderris prunifolia var. edgerleyi	AK 306898
FN 922	Pomaderris amoena	AK 360833
FN 923	Pomaderris paniculosa subsp. novae-zelandiae	AK 284497
FN 924	Pomaderris paniculosa subsp. novae-zelandiae	AK 319472
FN 925	Pomaderris kumeraho	AK 368458
FN 926	Pomaderris kumeraho	AK 330063
FN 927	Pomaderris hamiltonii	AK 309603
FN 928	Pomaderris hamiltonii	AK 328641
FN 929	Pomaderris apetala subsp. maritima	AK 308966
FN 930	Pomaderris apetala subsp. maritima	AK 367915

**Table S1c.** Newly sequenced *Pomaderris* and outgroup samples in this study, from fresh-collected material. Vouchers are all accessioned at the State Herbarium of South Australia (AD).

FN 200 Trymalium wayi to be vouchered FN 201 Pomaderris paniculosa to be vouchered FN 203 Spyridium subochreatum to be vouchered FN 204 Pomaderris paniculosa subsp. paniculosa to be vouchered FN 204 Pomaderris paniculosa subsp. paniculosa to be vouchered FN 260 Trymalium odoratissimum subsp. odoratissimum AD279950 FN 261 Trymalium angustifolium AD279951 AD280027 AD280029 AD28029 AD28	Collector's	Taxon	Voucher
FN 201  Pomaderris paniculosa to be vouchered FN 203  Spyridium subochreatum to be vouchered FN 204  Pomaderris paniculosa subsp. paniculosa to be vouchered FN 260  Trymalium adoratissimum subsp. odoratissimum AD279950 FN 261  Trymalium delifolium var. rosmarinifolium AD280027 FN 261  Trymalium angustifolium AD280027 FN 264  Trymalium leachophylum AD279944 FN 277  Trymalium leachophylum AD279941 FN 278  Trymalium elachophylum AD279941 FN 278  Trymalium myrtillus subsp. pungens AD279946 FN 289  Pomaderris provilola AD279946 FN 289  Pomaderris provilola AD279939 FN 294  Pomaderris provilola AD279939 FN 295  Trymalium myrtillus subsp. myrtillus AD279939 FN 296  Trymalium myrtillus subsp. myrtillus AD279939 FN 303  Trymalium adoratissimum subsp. trifidum AD279948 FN 360  Pomaderris racemosa to be vouchered FN 361  Pomaderris apetala AD284750 FN 363  Pomaderris apetala AD284750 FN 366  Pomaderris apetala AD284751 FN 366  Pomaderris apetala to be vouchered FN 372  Pomaderris angustifolia to be vouchered FN 372  Pomaderris discolor to be vouchered FN 374  Pomaderris discolor FN 381  Pomaderris discolor FN 382  Pomaderris andromedifolia AD284759 FN 383  Pomaderris eriocephala AD284750 FN 386  Pomaderris eriocephala AD284760 FN 386  Pomaderris sapera AD284761 FN 386  Pomaderris sapera AD284761 FN 386  Pomaderris superisae to be vouchered FN 387  Pomaderris superisae to be vouchered FN 398  Pomaderris superisae to be vouchered FN 399  Pomaderris parrisiae to be vouchered FN 390  Pomaderris parrisiae to be vouchered FN 391  Pomaderris matermedia (not typical form) to be vouchered FN 391  Pomaderris rapera AD284765 FN 392  Pomaderris rapera AD284765 FN 393  Pomaderris rapera AD284765 FN 394  Pomaderris raposa AD284765 FN 395  Pomaderris raposa AD284765 FN 396  Pomaderris raposa AD284765 FN 397  Pomaderris raposa AD284765 FN 398  Pomaderris raposa AD284765 FN 399  Pomaderris raposa AD284765 FN 390  Pomaderris raposa AD284765 FN 391  Pomaderris raposa AD284765 FN 393  Pomaderris raposa AD284765 FN 394  Pomaderris raposa AD28	no.		
FN 203 Spyridium subochreatum to be vouchered FN 204 Pomaderris paniculosa subsp. paniculosa to be vouchered FN 260 Trymalium odoratissimum subsp. odoratissimum AD279950 FN 261 Trymalium ledifolium var. rosmarinifolium AD279951 FN 264 Trymalium angustifolium AD279951 FN 264 Trymalium angustifolium AD279944 FN 271 Trymalium litorale AD279944 FN 277 Trymalium elachophyllum AD279941 FN 278 Trymalium myrtillus subsp. pungens AD279942 FN 279 Pomaderris myrtilloides AD279946 FN 289 Pomaderris paniculosa subsp. paniculosa AD280030 FN 294 Pomaderris praniculosa subsp. paniculosa AD279939 FN 296 Trymalium myrtillus subsp. myrtillus AD279948 FN 303 Trymalium odoratissimum subsp. trifidum AD279948 FN 360 Pomaderris apetala AD284750 FN 361 Pomaderris apetala AD284750 FN 363 Pomaderris apetala AD284751 FN 366 Pomaderris apusifolia var. prunifolia to be vouchered FN 376 Pomaderris angustifolia to be vouchered FN 376 Pomaderris ferruginea AD284758 FN 381 Pomaderris ferruginea AD284758 FN 382 Pomaderris andromedifolia AD284759 FN 383 Pomaderris andromedifolia AD284760 FN 384 Pomaderris ariocephala AD284760 FN 385 Pomaderris apera AD284760 FN 386 Pomaderris apera AD284760 FN 387 Pomaderris apera AD284760 FN 388 Pomaderris apera AD284760 FN 390 Pomaderris aportisiae to be vouchered FN 391 Pomaderris andromedifolia AD284760 FN 392 Pomaderris andromedifolia to be vouchered FN 393 Pomaderris andromedifolia to be vouchered FN 390 Pomaderris prunifolia subsp. ericoides (smaller leaves) FN 391 Pomaderris intermedia (not typical form) to be vouchered FN 392 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 393 Pomaderris andromedifolia Subsp. andromedifolia to be vouchered FN 394 Pomaderris andromedifolia Subsp. andromedifolia to be vouchered FN 395 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 396 Pomaderris andromedifolia Subsp. andromedifolia to be vouchered FN 397 Pomaderris andromedifolia Subsp. andromedifolia to be vouchered FN 398 Pomaderris andromedifolia Subsp. andromedifolia to be voucher	FN 200	Trymalium wayi	to be vouchered
FN 204 Pomaderris paniculosa subsp. paniculosa to be vouchered FN 260 Trymalium adaratissimum subsp. odaratissimum AD279950 FN 261 Trymalium angustifolium AD280027 FN 261 Trymalium angustifolium AD280027 FN 271 Trymalium litorale AD279944 FN 277 Trymalium litorale AD279941 FN 278 Trymalium myrillus subsp. pungens AD279942 FN 279 Pomaderris myrilloides AD279946 FN 289 Pomaderris paniculosa subsp. paniculosa AD280030 FN 294 Pomaderris brevifolia AD279939 FN 296 Trymalium myrillus subsp. myrtillus AD279994 FN 303 Trymalium odoratissimum subsp. trifidum AD279948 FN 303 Trymalium odoratissimum subsp. trifidum AD279948 FN 361 Pomaderris apetala AD284750 FN 363 Pomaderris apetala AD284751 FN 366 Pomaderris apustifolia to be vouchered FN 376 Pomaderris angustifolia to be vouchered FN 377 Pomaderris angustifolia to be vouchered FN 381 Pomaderris angustifolia AD284759 FN 382 Pomaderris andromedifolia AD284759 FN 383 Pomaderris eriocephala AD284750 FN 384 Pomaderris andromedifolia AD284750 FN 385 Pomaderris andromedifolia AD284760 FN 386 Pomaderris angustifolia to be vouchered FN 387 Pomaderris andromedifolia AD284760 FN 388 Pomaderris andromedifolia AD284761 FN 390 Pomaderris aperaiae to be vouchered FN 391 Pomaderris aperaiae to be vouchered FN 392 Pomaderris andromedifolia Subsp. ericoides (smaller leaves) FN 391 Pomaderris andromedifolia subsp. ericoides (smaller leaves) FN 392 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 393 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 394 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 395 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 396 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 397 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 398 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 399 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 396 Pomaderris andromedifolia subsp. andromedifolia FN 397 Pomaderris andromedifolia sub	FN 201	Pomaderris paniculosa	to be vouchered
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FN 376  Pomaderris discolor  to be vouchered FN 381  Pomaderris ferruginea  AD284758 FN 382  Pomaderris andromedifolia  AD284759 FN 383  Pomaderris eriocephala  AD284760 FN 384  Pomaderris elliptica  AD284761 FN 385  Pomaderris parrisiae  to be vouchered FN 386  Pomaderris aspera  AD284762 FN 390  Pomaderris phylicifolia subsp. ericoides (smaller leaves) FN 391  Pomaderris intermedia (not typical form)  to be vouchered FN 392  Pomaderris andromedifolia subsp. andromedifolia  to be vouchered FN 393  Pomaderris eriocephala  to be vouchered FN 396  Pomaderris paniculosa  AD284765 FN 432  Pomaderris virgata  from Neville Walsh cultivated material FN 434  Pomaderris rugosa  RBGV garden collections FN 435  Pomaderris angustifolia (Mitta Mitta)  RBGV garden collections	FN 366	Pomaderris prunifolia var. prunifolia	to be vouchered
FN 381  Pomaderris ferruginea  AD284758 FN 382  Pomaderris andromedifolia  AD284759 FN 383  Pomaderris eriocephala  AD284760 FN 384  Pomaderris elliptica  AD284761 FN 385  Pomaderris parrisiae  to be vouchered FN 386  Pomaderris aspera  AD284762 FN 390  Pomaderris phylicifolia subsp. ericoides (smaller leaves) FN 391  Pomaderris intermedia (not typical form)  to be vouchered FN 392  Pomaderris andromedifolia subsp. andromedifolia  to be vouchered FN 393  Pomaderris eriocephala  to be vouchered FN 396  Pomaderris paniculosa  AD284765 FN 432  Pomaderris virgata  from Neville Walsh cultivated material FN 434  Pomaderris rugosa  RBGV garden collections FN 435  Pomaderris angustifolia (Mitta Mitta)  RBGV garden collections	FN 372	Pomaderris angustifolia	to be vouchered
FN 382 Pomaderris andromedifolia AD284759 FN 383 Pomaderris eriocephala AD284760 FN 384 Pomaderris elliptica AD284761 FN 385 Pomaderris parrisiae to be vouchered FN 386 Pomaderris aspera AD284762 FN 390 Pomaderris phylicifolia subsp. ericoides (smaller leaves) FN 391 Pomaderris intermedia (not typical form) to be vouchered FN 392 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 393 Pomaderris eriocephala to be vouchered FN 396 Pomaderris paniculosa AD284765 FN 432 Pomaderris virgata from Neville Walsh cultivated material FN 434 Pomaderris rugosa RBGV garden collections FN 435 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections FN 436 Pomaderris angustifolia (Mitta Mitta)	FN 376	Pomaderris discolor	to be vouchered
FN 383 Pomaderris eriocephala AD284760 FN 384 Pomaderris elliptica AD284761 FN 385 Pomaderris parrisiae to be vouchered FN 386 Pomaderris aspera AD284762 FN 390 Pomaderris phylicifolia subsp. ericoides (smaller leaves) FN 391 Pomaderris intermedia (not typical form) to be vouchered FN 392 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 393 Pomaderris eriocephala to be vouchered FN 396 Pomaderris paniculosa AD284765 FN 432 Pomaderris virgata from Neville Walsh cultivated material FN 434 Pomaderris rugosa RBGV garden collections FN 435 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections FN 436 Pomaderris angustifolia (Mitta Mitta)	FN 381	Pomaderris ferruginea	AD284758
FN 384  Pomaderris elliptica	FN 382	Pomaderris andromedifolia	AD284759
FN 385	FN 383	Pomaderris eriocephala	AD284760
FN 386  Pomaderris aspera  AD284762 FN 390  Pomaderris phylicifolia subsp. ericoides (smaller leaves) FN 391  Pomaderris intermedia (not typical form) to be vouchered FN 392  Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 393  Pomaderris eriocephala to be vouchered FN 396  Pomaderris paniculosa AD284765 FN 432  Pomaderris virgata from Neville Walsh cultivated material FN 434  Pomaderris rugosa RBGV garden collections FN 435  Pomaderris costata RBGV garden collections FN 436  Pomaderris angustifolia (Mitta Mitta) RBGV garden collections	FN 384	Pomaderris elliptica	AD284761
FN 390  Pomaderris phylicifolia subsp. ericoides (smaller leaves)  FN 391  Pomaderris intermedia (not typical form)  FN 392  Pomaderris andromedifolia subsp. andromedifolia  FN 393  Pomaderris eriocephala  FN 396  Pomaderris paniculosa  FN 432  Pomaderris virgata  FN 434  Pomaderris rugosa  FN 435  Pomaderris costata  FN 436  Pomaderris angustifolia (Mitta Mitta)  To be vouchered  to be vouchered  AD284765  from Neville Walsh cultivated  material  RBGV garden collections  RBGV garden collections	FN 385	Pomaderris parrisiae	to be vouchered
leaves)  FN 391	FN 386	Pomaderris aspera	AD284762
FN 392 Pomaderris andromedifolia subsp. andromedifolia to be vouchered FN 393 Pomaderris eriocephala to be vouchered FN 396 Pomaderris paniculosa AD284765 FN 432 Pomaderris virgata from Neville Walsh cultivated material FN 434 Pomaderris rugosa RBGV garden collections FN 435 Pomaderris costata RBGV garden collections FN 436 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections	FN 390	. , , , , , , , , , , , , , , , , , , ,	to be vouchered
FN 393 Pomaderris eriocephala to be vouchered FN 396 Pomaderris paniculosa AD284765 FN 432 Pomaderris virgata from Neville Walsh cultivated material FN 434 Pomaderris rugosa RBGV garden collections FN 435 Pomaderris costata RBGV garden collections FN 436 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections	FN 391	Pomaderris intermedia (not typical form)	to be vouchered
FN 396 Pomaderris paniculosa  FN 432 Pomaderris virgata  FN 434 Pomaderris rugosa  FN 435 Pomaderris costata  FN 436 Pomaderris angustifolia (Mitta Mitta)  AD284765  from Neville Walsh cultivated material  RBGV garden collections  RBGV garden collections  RBGV garden collections	FN 392	Pomaderris andromedifolia subsp. andromedifolia	to be vouchered
FN 432  Pomaderris virgata  from Neville Walsh cultivated material  FN 434  Pomaderris rugosa  RBGV garden collections  FN 435  Pomaderris costata  RBGV garden collections  FN 436  Pomaderris angustifolia (Mitta Mitta)  RBGV garden collections	FN 393	Pomaderris eriocephala	to be vouchered
FN 434 Pomaderris rugosa RBGV garden collections FN 435 Pomaderris costata RBGV garden collections FN 436 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections	FN 396	Pomaderris paniculosa	AD284765
FN 435 Pomaderris costata RBGV garden collections FN 436 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections	FN 432	Pomaderris virgata	
FN 435 Pomaderris costata RBGV garden collections FN 436 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections	FN 434	Pomaderris rugosa	RBGV garden collections
FN 436 Pomaderris angustifolia (Mitta Mitta) RBGV garden collections	FN 435	Pomaderris costata	
-	FN 436	Pomaderris angustifolia (Mitta Mitta)	5
FN 437 Pomaderris lanigera RBGV garden collections	FN 437	Pomaderris lanigera	RBGV garden collections
FN 438 Pomaderris elliptica subsp. diemenica RBGV garden collections	FN 438	Pomaderris elliptica subsp. diemenica	
FN 439 Pomaderris oblongifolia RBGV garden collections	FN 439	Pomaderris oblongifolia	_
FN 440 Pomaderris elliptica subsp. ellitpica RBGV garden collections	FN 440	Pomaderris elliptica subsp. ellitpica	
FN 441 Pomaderris helianthemifolia subsp. RBGV garden collections helianthemifolia	FN 441	· · · · · · · · · · · · · · · · · · ·	_
FN 442 Pomaderris oraria subsp. calcicola RBGV garden collections	FN 442		RBGV garden collections

Table S1c. Continued.

Collector's no.	Taxon	Voucher
FN 443	Pomaderris aurea	RBGV garden collections
FN 444	Pomaderris subplicata	RBGV garden collections
FN 445	Pomaderris cocoparrana	RBGV garden collections
FN 447	Pomaderris reperta	RBGV garden collections
FN 448	Pomaderris betulina subsp. betulina	RBGV garden collections
FN 449	Pomaderris apetala subsp. maritima	RBGV garden collections
FN 451	Pomaderris buchanensis	RBGV garden collections
FN 452	Pomaderris briagolensis	RBGV garden collections
FN 453	Pomaderris subcapitata	RBGV garden collections
FN 563	Stenanthemum humile	AD284767
FN 564	Stenanthemum reissekii	AD284768
FN 580	Stenanthemum radiatum	AD284769
FN 596	Stenanthemum notiale	AD284770
FN 621	Stenanthemum tridentatum	AD284771
FN 632	Stenanthemum coronatum	AD284772
FN 636	Stenanthemum emarginatum	AD284773
FN 684	Stenanthemum pumilum subsp. pumilum	AD284774
FN 696	Cryptandra leucopogon	AD284775
FN 756 A	Pomaderris paniculosa	AD284820
FN 780	Pomaderris flabellaris	AD284821
FN 782	Pomaderris paniculosa	AD284822
FN 814	Cryptandra amara	Tasmanian cultivated material
FN 815	Pomaderris apetala	Tasmanian cultivated material
FN 816	Pomaderris elliptica	Tasmanian cultivated material
JK 655	Stenanthemum leucophractum	to be vouchered
JK 659	Cryptandra tomentosa typical	to be vouchered
JK 679	Cryptandra sp. 'Recurved apex'	to be vouchered
JK 743	Stenanthemum leucophractum	to be vouchered
JK 746	Cryptandra tomentosa typical	to be vouchered
JK 750	Cryptandra sp. 'Hiltaba'	to be vouchered
CANB 885463	Pomaderris andromedifolia	from ANBG living collections
CANB J E Ward 22	Pomaderris betulina subsp. actensis	from ANBG living collections
CANB J McAuliffe 1955	Pomaderris bodalla	from ANBG living collections
CANB 8702729 or	Pomaderris brogoensis	from ANBG living collections
8702731	Domadorris brusasa	from ANDC living as II all a
CANB JL Percival 120 CANB J McAuliffe 1767	Pomaderris brunnea Pomaderris cinerea	from ANBG living collections
		from ANBG living collections
CANB J McAuliffe 1805 CANB J McAuliffe 1966	Pomaderris cotoneaster Pomaderris delicata	from ANBG living collections
CANB J McAuliffe 1734		from ANBG living collections
CC 544 (Cat Clowes)	Pomaderris elliptica var. elliptica Pomaderris forrestiana	from ANBG living collections
CC 344 (Cat Clowes)	romaderns jorrestiana	from Cat Clowes Melbourne Uni
CANB Jo McAuliffe 1602	Pomaderris helianthemifolia subsp. hispida	from ANBG living collections
CANB JL Pescival 123	Pomaderris ligustrina subsp. ligustrina	from ANBG living collections

Table S1c. Continued.

Collector's no.	Taxon	Voucher
CANB 631012	Pomaderris obcordata	from ANBG living collections
CANB 67559	Pomaderris oraria	from ANBG living collections
CANB ML Henery 44	Pomaderris pallida	from ANBG living collections
CANB Burns 453 CANB	Pomaderris pilifera subsp. talpicutica	from ANBG living collections
CANB CM Canning 5628	Pomaderris paniculosa var. paralia	from ANBG living collections
CANB EM Canning 5661	Pomaderris racemosa	from ANBG living collections
CC 541 (Cat Clowes)	Pomaderris rotundifolia	from Cat Clowes Melbourne Uni
CC 378 (Cat Clowes)	Pomaderris vaccinifolia	from Cat Clowes Melbourne Uni
CANB J McAuliffe 1754	Pomaderris velutina	from ANBG living collections
CANB S Pedessen 1407	Pomaderris walshii	from ANBG living collections

Table S2. The thirty nuclear orthologs used in this study.

contig	Arabidopsis thaliana	gene name	NCBI Reference sequence (position on refseq)
contig	AT1G49540.2	elongator protein 2	XM_016021267.2
5			(7481,943)
contig	AT3G01660.1	S-adenosyl-L-methionine-dependent	XM_016023528.2
121		methyltransferases superfamily protein	(1361,048)
contig	AT2G38270.1	CAX-interacting protein 2	XM_016041750.2
17			(4691,008)
contig 171	AT2G22650.1	FAD-dependent oxidoreductase family protein	XM_016037427.2 (9751,430)
contig	AT2G40570.1	initiator tRNA phosphoribosyl transferase family	XM_016035496.2 (70186)
179	711201007012	protein	,e_eee, .ee (, eee,
contig	AT1G77930.1	Chaperone DnaJ-domain superfamily protein	XM_025076062.1 (141477)
186		chaperone 2 has domain capenianny process	/o_oo_oo (,
contig	AT5G39410.1	Saccharopine dehydrogenase	XM_021602434.2 (395952)
208	711000012012		/oo,
contig	AT1G12370.2	photolyase 1	XM_016041072.2
229		p	(2721,103)
contig	AT1G49380.1	cytochrome c biogenesis protein family	XM_016047385.2 (552757)
25	7110 13300.1	cycocin onic e biogenesis protein family	////_0100 1/303.2 (332/3/)
contig	AT1G05055.1	general transcription factor II H2	XM_031106615.1
26			(7131,303) Quercus lobata
contig	AT5G56740	histone acetyltransferase of the GNAT family 2	XM 025076092.1
27		,	
contig	AT1G07970.1	PTHR21780:SF0 - TRANSMEMBRANE PROTEIN	XM 016022952.2
282		209	_ (7641,976)
contig 301	AT3G15290.1	3-hydroxyacyl-CoA dehydrogenase family protein	XM_016031844.2 (677793)
contig	AT4G03200.1	PTHR12145:SF11 - SPERMATOGENESIS-	XM_025077671.1
340		ASSOCIATED PROTEIN 20	(1,1941,306)
contig	AT3G09180.1	K15170 - mediator of RNA polymerase II	XM_025067131.1 (287750)
356		transcription subunit 27 (MED27)	_ ` ` '
contig	AT3G17040.1	high chlorophyll fluorescent 107	XM 025073955.1
377			
contig	AT5G65860.1	ankyrin repeat family protein	XM 016029545.2
378		<i>,</i>	
contig	AT2G31840.1	Thioredoxin superfamily protein	XM_016024034.2
459			
contig	AT1G15390.1	peptide deformylase 1A	XM_016015676.2
498			
contig	AT1G21370.1	KOG4533 - Uncharacterized conserved protein	XM_016030909.2
585		•	(1,0001,371)
contig 606	AT3G26580.1	Tetratricopeptide repeat (TPR)-like superfamily protein	XM_016039159.2 (586717)
contig	AT4G36390.1	Methylthiotransferase	XM 016034390.2
61	A14030330.1	iviculyiumou ansierase	(4072,135)
	AT4G26980.1	RNI-like superfamily protein	XM_016044316.2
contig 62	A140Z0300.1	Martine superfamily protein	(8201,247)
contig	AT4G33030.1	sulfoquinovosyldiacylglycerol 1	XM 025074823.1
66	A14033030.1	Sunoquinovosyiulacyigiyceioi 1	(7221,278)
contig	AT1G74640.1	alpha/beta-Hydrolases superfamily protein	XM_016012577.2
68	A110/4040.1	aipiia/beta-riyarolases superraillily proteill	—
00			(8321,380)

	contig 714	AT5G10920.1	L-Aspartase-like family protein	XM_016030483.2 (8551,005)
	contig 773	AT4G35910.1	Adenine nucleotide alpha hydrolases-like superfamily protein	XM_016042688.2 (727816)
	contig 78	AT2G04560.1	transferases, transferring glycosyl groups	XM_016026012.2 (5871,136)
	contig 87	AT5G64150.1	RNA methyltransferase family protein	XM_025075431.1 (2331,113)
	contig 98	AT2G02590.1	PF06695 - Putative small multi-drug export protein (Sm_multidrug_ex)	XM_016039395.2 (9861,579)
-	30		protein (Sin_inditionag_ex)	(9801,379)

**Table S3.** Summary statistics and AIC scores for all 20 models in this study across the different scenarios for the continent-wide analysis. AIC scores from BAYAREA models were excluded from model selection as these models do not account for vicariance. The model with the lowest score is highlighted in red.

		numparam									
	LnL	S	d	е	j	Х	AIC	AIC wt			
Default parameters with no time stratification and distance											
DEC	-66.8	2	0.0068	1.00E-12	0	n/a	137.6	0.0073			
DEC+J	-61.11	3	0.0034	1.00E-12	0.011	n/a	128.2	0.8			
DIVALIKE	-70.59	2	0.0086	1.00E-12	0	n/a	145.2	0.0002			
DIVALIKE+J	-62.64	3	0.0039	1.00E-12	0.012	n/a	131.3	0.17			
BAYAREALIK											
E	-94.99	2	0.01	0.01	0	n/a	194	4.20E-15			
BAYAREALIK E+J	-64.77	3	0.0028	1.00E-07	0.015	n/a	135.5	0.021			
Scenario 1: cur						11/ 4	133.3	0.021			
stratification											
DEC	-64.75	3	0.0014	1.00E-12	0	0.24	130.4	0.018			
DEC+J	-57.96	4	0.0005	1.00E-12	0.0018	0.29	122.8	0.81			
DIVALIKE	-67.21	3	0.0013	1.00E-12	0	0.28	141.3	8.10E-05			
DIVALIKE+J BAYAREALIK	-58.98	4	0.0006	1.00E-12	0.0018	0.29	126	0.17			
E BAYAREALIK	-87.01	3	0.0019	0.033	0	0.2	181.9	1.20E-13			
E+J	-63.09	4	0.0021	1.00E-07	0.0083	0.077	192.3	6.80E-16			
Scenario 2: gra		of W, E, N an	d expansion o	f the arid inte	rior (A) from 4	10 Ma stratific	ed at 10				
Ma time interv											
DEC	-64.89	3	0.0015	1.00E-12	0	0.23	135.8	0.0027			
DEC+J	-58.18	4	0.0005	1.00E-12	0.0019	0.28	124.4	0.81			
DIVALIKE	-68.01	3	0.0019	1.00E-12	0	0.23	142	0.0001			
DIVALIKE+J BAYAREALIK	-59.8	4	0.0008	1.00E-12	0.0025	0.25	127.6	0.16			
E BAYAREALIK	-87.08	3	0.002	0.033	0	0.2	180.2	6.20E-13			
E+J	-61.73	4	0.0005	1.00E-07	0.0029	0.26	131.5	0.023			
Scenario 3: sim between areas		rio 2 but with	n distances sca	aled relative to	the geograph	nic distance					
DEC DEC	-66.47	3	0.0025	1.00E-12	0	0.42	138.9	0.0053			
DEC+J	-60.41	3 4	0.0023	1.00E-12 1.00E-12	0.003	0.42	128.8	0.0052 0.81			
DIVALIKE	-70.18	3	0.0033	1.00E-12	0	0.4	146.4	0.0001			
DIVALIKE+J BAYAREALIK	-62.03	4	0.0011	1.00E-12	0.0036	0.51	132.1	0.16			
E BAYAREALIK	-88.05	3	0.0026	0.034	0	0.4	182.1	2.20E-12			
E+J Scenario 4: sim	-64	4 rio 3 with sca	0.0007	1.00E-07	0.004	0.56	136	0.022			
New Zealand	ar to scena	o o with sta	iica aistailtes	CACIGUIIIS							
DEC	-64.76	3	0.013	1.00E-12	0	-0.33	135.5	0.0032			
DEC+J	-58.25	4	0.0069	1.00E-12	0.024	-0.4	124.5	0.8			
DIVALIKE	-67.59	3	0.017	1.00E-12	0	-0.37	141.2	0.0002			
DIVALIKE+J BAYAREALIK	-59.72	4	0.008	1.00E-12	0.023	-0.36	127.4	0.18			
E BAYAREALIK	-87.23	3	0.012	0.033	0	-0.27	180.5	5.60E-13			
E+J	-62.06	4	0.0054	1.00E-07	0.029	-0.35	132.1	0.018			

**Table S3.** Summary statistics and AIC scores for the 8 models in this study across the different scenarios for the SEA subset analysis. AIC scores from BAYAREA models were excluded from model selection as these models do not account for vicariance. The model with the lowest score is highlighted in red.

	LnL	numparams	d	е	j	х	AIC	AIC wt		
Default parameters with no time stratification and distance metric										
DEC	-242.1	2	0.023	1.00E-12	0		488.2	1.70E-14		
DEC+J	-238.2	3	0.021	1.00E-12	0.012		482.4	3.20E-13		
DIVALIKE	-254.3	2	0.027	1.00E-12	0		512.6	8.60E-20		
DIVALIKE+J	-248.6	3	0.023	1.00E-12	0.016		503.2	9.60E-18		
BAYAREALIKE	-229.9	2	0.012	0.12	0		463.9	3.20E-09		
BAYAREALIKE+J	-209.4	3	0.0069	0.063	0.02		424.8	1		
Scenario 1: current	relative dista	nce (x) between r	egions with	no time strati	fication					
DEC	-213	3	0.29	1.00E-12	0	-2.11	432.1	0.0084		
DEC+J	-209.7	4	0.33	1.00E-12	0.16	-2.33	427.4	0.086		
DIVALIKE	-225.9	3	0.27	1.00E-12	0	-1.8	457.8	2.20E-08		
DIVALIKE+J	-221.3	4	0.23	1.00E-12	0.12	-1.78	450.5	8.20E-07		
BAYAREALIKE	-227.8	3	0.12	0.12	0	-1.81	461.5	3.40E-09		
BAYARFALIKF+I	-207.4	4	0.023	0.053	0.06	-0.75	422.7	0.91		

**Table S4a.** Average number and directionality of range-expansion events estimated for *Pomaderris* over 50 biogeographical stochastic mapping (BSM) events of continent-wide analysis. Number includes total number of dispersal events (from found and range expansion events). Colour indicates frequency of events (red–green, highest–lowest). Area names in first row indicate source areas (where lineages dispersed from) and names in first column indicate sink areas (where lineages dispersed to). Area names are southwest Australia (W), eastern Australia (E), central arid Eremaean zone (A), northern Australia (N), and New Zealand (Z).

	W	Е	Α	N	Z	total	% source
W	0	0.14	0.98	0	0	1.12	23.9
Е	0.12	0	0.98	0	2.1	3.2	68.4
Α	0	0.02	0	0	0	0.02	0.4
N	0	0	0	0	0	0	0.0
Z	0	0.34	0	0	0	0.34	7.3
total	0.12	0.5	1.96	0	2.1	4.68	
% sink	2.6	10.7	41.9	0.0	44.9		

**Table S4b.** Average number and directionality of founder events estimated for *Pomaderris* over 50 biogeographical stochastic mapping (BSM) events of continent-wide analysis. Number includes total number of dispersal events (from found and range expansion events). Colour indicates frequency of events (red–green, highest–lowest). Area names in first row indicate source areas (where lineages dispersed from) and names in first column indicate sink areas (where lineages dispersed to). Area names are southwest Australia (W), eastern Australia (E), central arid Eremaean zone (A), northern Australia (N), and New Zealand (Z).

	W	E	Α	N	Z	total	% source
W	0	0.36	0	0	0	0.36	5.7
E	0.82	0	0.04	0	4.18	5.04	79.7
Α	0	0	0	0	0	0	0.0
N	0	0	0	0	0	0	0.0
Z	0	0.58	0	0	0	0.58	9.2
total	0.82	0.94	0.04	0	4.18	5.98	
% sink	13.0	14.9	0.6	0.0	66.1		

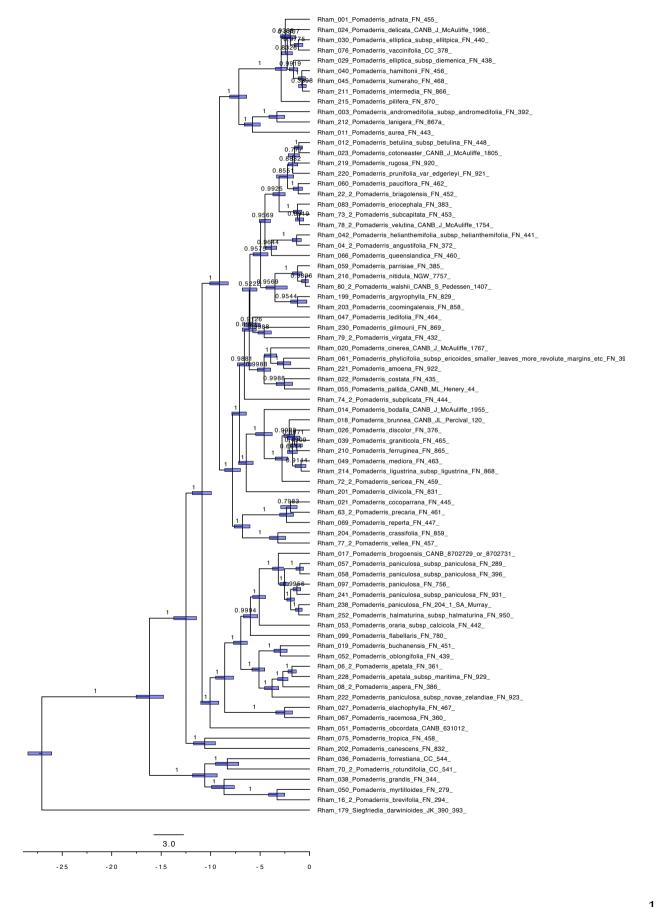
**Table S5a.** Average number and directionality of range expansion events estimated for *Pomaderris* over 50 biogeographical stochastic mapping (BSM) events of SEA subset analysis. Number includes total number of dispersal events (from found and range expansion events). Colour indicates frequency of events (red–green, highest–lowest). Area names in first row indicate source areas (where lineages dispersed from) and names in first column indicate sink areas (where lineages dispersed to). Area names are South Australia (S), Victoria (V), Tasmania (T), South-eastern (E), Eastern Queensland (Q), Atherton tropics (A), and non-SEA (O).

	S	V	Т	E	Q	Α	0	total	% source
S	0	1.38	0.7	0.96	0.02	0	0.62	3.68	7
V	2.28	0	4.22	6	0.74	0.04	0.4	13.68	26
T	1.14	2.06	0	0.7	0	0.02	0.76	4.68	9
Ε	1.04	17.88	2.2	0	4.64	0.26	0.66	26.68	51
Q	0	0.34	0.04	0.74	0	1	0	2.12	4
Α	0	0.02	0	0.02	0.96	0	0	1	2
0	0.04	0.02	0.16	0.04	0	0.02	0	0.28	1
total	4.5	21.7	7.32	8.46	6.36	1.34	2.44	52.12	100
% sink	9	42	14	16	12	3	5		0

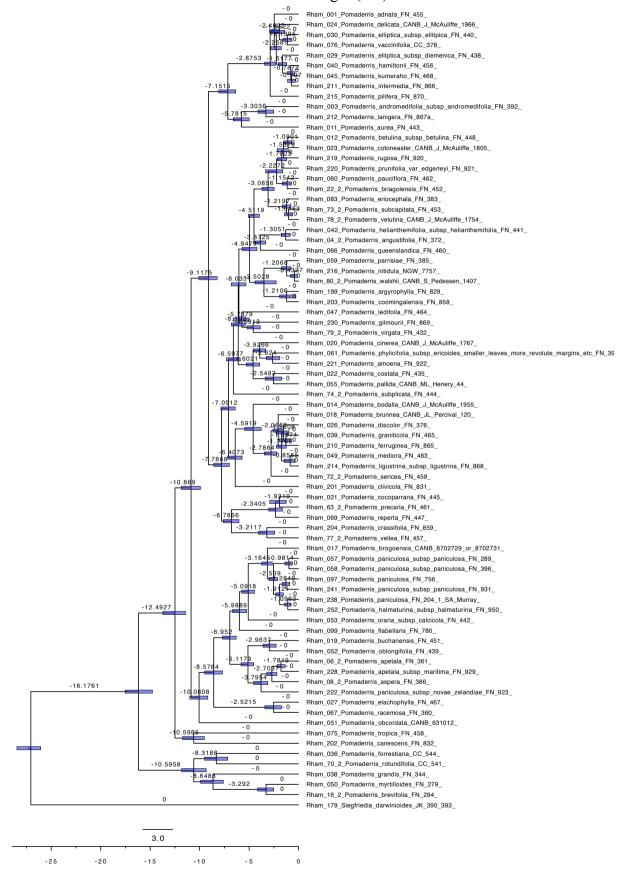
**Table S5b.** Average number and directionality of founder events estimated for *Pomaderris* over 50 biogeographical stochastic mapping (BSM) events of SEA subset analysis. Number includes total number of dispersal events (from found and range expansion events). Colour indicates frequency of events (red–green, highest–lowest). Area names in first row indicate source areas (where lineages dispersed from) and names in first column indicate sink areas (where lineages dispersed to). Area names are South Australia (S), Victoria (V), Tasmania (T), South-eastern (E), Eastern Queensland (Q), Atherton tropics (A), and non-SEA (O).

	S	V	Т	Е	Q	Α	0	total	% source
S	0	0.54	0.14	0.44	0	0	0.62	1.74	23
V	0.1	0	0.06	0.24	0.06	0	0.3	0.76	10
T	0	0	0	0	0	0	0.4	0.4	5
Е	0.02	1.18	0.22	0	1.44	0	1.12	3.98	53
Q	0	0	0	0.16	0	0.08	0	0.24	3
Α	0	0	0	0	0	0	0	0	0
0	0.16	0	0.18	0	0	0	0	0.34	5
total	0.28	1.72	0.6	0.84	1.5	0.08	2.44	7.46	100
% sink	4	23	8	11	20	1	33		

**Fig. S1a.** Calibrated BEAST chronogram of *Pomaderris* based on 30 loci, with branch lengths scaled according to time (Ma). Blue bars indicate the 95% confidence interval of the node age estimates. Numbers for each node indicate the posterior probability support values.

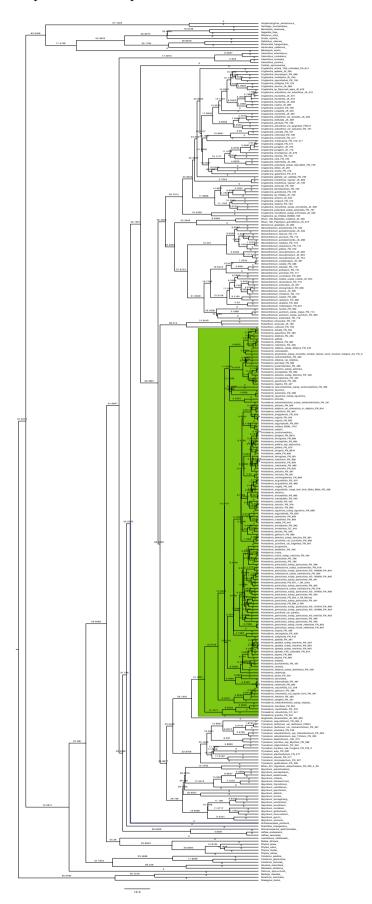


**Fig. S1b.** Calibrated BEAST chronogram of *Pomaderris* based on 30 loci, with branch lengths scaled according to time (Ma). Blue bars indicate the 95% confidence interval of the node age estimates. Numbers for each node indicate node ages (Ma).

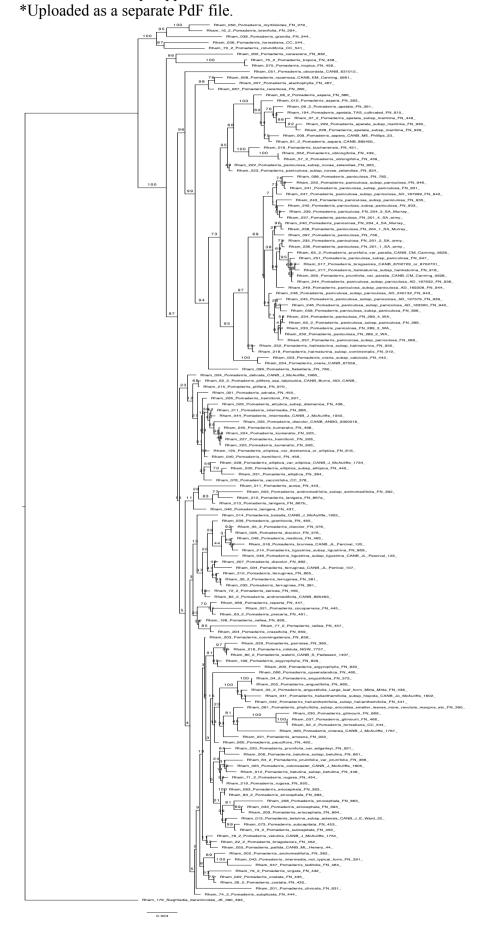


**Fig. S2.** Calibrated BEAST chronogram of *Pomaderris* and outgroups based on five chloroplast and one nuclear loci, with an additional calibration point at the stem of *Pomaderris* based on the leaf fossil found in New Zealand (Campbell, 2002).

\*Uploaded as a separate PdF file.



**Fig. S3.** Maximum likelihood (RAxML) topology of *Pomaderris* based on 30 nuclear loci. Support values are bootstrap support.



## References

Campbell, J., 2002. Angiosperm fruit and leaf fossils from Miocene silcrete, Landslip Hill, northern Southland, New Zealand. Journal of the Royal Society of New Zealand 32, 149–154.