

Green: Ramirez-Borahona et al. (2020)

Orange: Nehrke et al. Manuscript

Yellow: Extra Li et al. (2020) – not in Ramirez-Borahona et al. (2020)

Blue: Specimens already included for another fossil

Fossils for Beilscmiedia tree calibration							
Fossil	Fossil source	Age (Myr)	Assignment	Clade	Species	Data source	Included
Araria florifera	Mohr & Eklund (2003)	113	Stem Laurales	Myristicaceae (Magnoliales)	Myristica fragrans	OneKP	
				Magnolia (Magnoliales)	Magnolia grandiflora		
				Calycanthaceae	Calycanthus floridus	OneKP	
					Idiospermum australiense	OneKP	
				Siparunaceae	Siparuna guianensis	PAFTOL	
				Gomortegaceae	Gomortega keule	OneKP	
				Atherospermataceae	Laurelia sempervirens 18273	OneKP	
					Atherosperma moschatum 14077	PAFTOL	
				Hernandiaceae	Hernandia nymphaeifolia	PAFTOL	
					Sparattanthelium botocudorum 11587	PAFTOL	

				Monimiaceae (subclade 1)	Peumus boldus 17635	PAFTOL	
					Monimia rotundifolia 11549	PAFTOL	
				Monimiaceae (subclade 2)	Tambourissa trichophylla	PAFTOL	
					Mollinedia gilgiana	PAFTOL	
Cohongarootonia hispida	Von Balthazar et al. (2011)	107.7	Crown core Laurales		Specimens included in Monimiaceae, Hernandiaceae and Lauraceae	Redundant having two fossils ? (cited for the same)	Not included
Virginianthus calycanthoides	Von Balthazar et al. (2011)	107.7	Crown Laurales	Calycanthaceae	Calycanthus floridus	OneKP	
					Idiospermum australiense	OneKP	
				Siparunaceae	Siparuna guianensis	PAFTOL	
				Gomortegaceae	Gomortega keule	OneKP	
				Atherospermataceae	Laurelia sempervirens 18273	OneKP	
					Atherosperma moschatum 14077	PAFTOL	
				Hernandiaceae	Hernandia nymphaeifolia	PAFTOL	
					Sparattanthelium botocudorum 11587	PAFTOL	

				Monimiaceae (subclade 1)	Peumus boldus 17635	PAFTOL	
					Monimia rotundifolia 11549	PAFTOL	
				Monimiaceae (subclade 2)	Tambourissa trichophylla	PAFTOL	
					Mollinedia gilgiana	PAFTOL	
				Lauraceae (subclade 1)	Cryptocarya alba	Rohwer	
					Beilschmiedia sp.	Rohwer	
				Lauraceae (subclade 2)	Neocinnamomum caudatum	PAFTOL	
					Laurus nobilis	SRA	
Potomacanthus lobatus	von Balthazar et al (2007) Kondraskov et al. (2015)	106.8	Stem Lauraceae	Hypodaphnis	NA		Not included
				Cryptocarya group	Cryptocarya alba	Rohwer	
				Cassytha	Cassytha filiformis 18269	OneKP	
				Neocinnamomum	Neocinnamomum caudatum	PAFTOL	
				Caryodaphnopsis	Caryodaphnopsis tonkinensis	SRA	
				Mezilaurus group	Mezilaurus ita-uba 11671	PAFTOL	
				Persea group	Persea borbonia 18295	OneKP	
				Laureae	Laurus nobilis	SRA	
				Cinnamomeae	Cinnamomum camphorum	OneKP	
Jerseyanthus calycanthoides	Crepet et al (2005)	85.8	Crown Calycanthoideae	Calycanthus	Calycanthus floridus	OneKP	

			(Calycanthaceae, Laurales)		Idiospermum australiense	OneKP	
				Chimonanthus	NA - Chimonanthus salicifolius 31858		
Neusenien tetrasporangiat	Eklund (2000)	83.6	Stem Neocinnamomum	Neocinnamomum	Neocinnamomum caudatum	PAFTOL	
				Caryodaphnopsis etc.	Caryodaphnopsis tonkinensis	SRA	
					Williamodendron glaucophyllum	PAFTOL	
Monimiophyllum callidentatum	Knight & Wilf (2013)	52.22	Crown Monimiaceae	Monimiaceae (subclade 1)	Peumus boldus 17635	PAFTOL	
					Monimia rotundifolia 11549	PAFTOL	
				Monimiaceae (subclade 2)	Tambourissa trichophylla	PAFTOL	
					Mollinedia gilgiana	PAFTOL	
Illigera eocenica	Manchester & O'Leary (2010)	41.2	Crown Hernandiaceae	Hernandiaceae	Hernandia nymphaeifolia	PAFTOL	
					Sparattanthelium botocudorum 11587	PAFTOL	
Cryptocaryoxylon gippslandicum	Leismann (1986)	39	Crown clade C. aristata, C. conduplicata, C. pluricostata and C. rhodosperma	Cryptocarya clade	Cryptocarya rhodosperma, Cryptocarya	Rohwer	

Alseodaphne changchangensis	Jin & Li	37-48 (43)	Crown Persea group	Persea	Persea borbonia 18295	OneKP	Do you think this is okay to include? Also does Appolonias anyway perhaps belong to Persea?
				Alseodaphne	Alseodaphne semicarpifolia	PAFTOL	
				Alseodaphnopsis	Alseodaphnopsis petiolaris	SRA	
				Apollonias	NA		
				Dehaasia	Dehaasia hainanensis	SRA	
				Machillus	Machilus salicina	SRA	
				Nothaphoebe	Nothaphoebe umbelliflora	PAFTOL	
Machilus maomingensis	Tang et al. (2016)	33.7-33.9	Stem Machilus	Phoebe	Phoebe lanceolata	PAFTOL	
				Machilus	Machilus salicina	SRA	
				Alseodaphnopsis	Alseodaphnopsis petiolaris	SRA	

Outgroup specimens to include			
Specimen	Genes recovered	BP recovered	Outgroup?
Myristica fragrans	344	267,932	Yes
Magnolia grandiflora	345	257,032	Yes
Calycanthus floridus	341	262,148	Yes
Idiospermum australiense	341	231,852	Yes
Siparuna guianensis	328	102,093	Yes
Gomortega keule	346	247,184	Yes
Laurelia sempervirens	346	262,703	Yes
Atherosperma moschatum	263	56,232	Yes
Hernandia nymphaeifolia	343	179,154	Yes
Sparattanthelium botocudorum	291	72,867	Yes

Peumus boldus	342	221,919	Yes
Monimia rotundifolia	328	109,149	Yes
Tambourissa ficus	347	195,567	Yes
Mollinedia gilgiana	348	197,439	Yes
Neocinnamomum caudatum	331	133,221	Yes
Laurus nobilis	350	262,392	Yes
Cassytha filiformis	342	274,863	Yes
Caryodaphnopsis tonkinensis	349	251,397	Yes
Williamodendron glaucophyllum	345	179,262	Yes
Alseodaphne semecarpifolia	314	76,851	Yes
Alseodaphnopsis petiolaris	350	256,314	Yes
Dehaasia hainanensis	348	252,150	Yes
Machilus salicina	350	260,811	Yes
Nothaphoebe umbelliflora	324	86,076	Yes
Phoebe lanceolata	346	176,718	Yes