

Supplementary Table 5.1. Selected fossil occurrences of Magnoliids

clade	taxon	organ	source	minimum age estimate (Mya)	reference
Magnoliales	<i>Protomonimia kasai-nakajhongii</i>	fruits	Late Cretaceous (Coniacian–Santonian) of Hokkaido, Japan	86	Nishida and Nishida 1988
Magnoliales	<i>Archaeanthus, Liriophyllum</i>	flower, fruits, leaves	Early Cretaceous (Late Albian) of Kansas	101	Dilcher and Crane 1984
Annonaceae	<i>Futabanthus asamigawaensis</i>	flower	Late Cretaceous (Early Coniacian) Kamikitaba locality, northeastern Honshu, Japan	87	Takahashi et al. 2008b
Annonaceae	<i>Anonaspermum</i>	seed casts with characteristic rumination for the family	Late Cretaceous (Maastrichtian), Nigeria	67	Chesters 1955
Myristicaceae	<i>Myristicacarpum chandlerae</i>	Seed cast with characteristic rumination	Early Eocene London Clay, England	50	Doyle et al 2008
Magnoliaceae	<i>Magnolia</i>	seeds	Early Eocene London Clay	50	Reid and Chandler 1933
Calycanthaceae [stem group?]	<i>Virginianthus calycanthoides</i>	flowers	Early Cretaceous (Early–Middle Albian) Puddledock flora, Virginia	109	Friis et al. 1994a
Calycanthaceae [stem group?]	<i>Jerseyanthus calycanthoides</i>	flowers	Late Cretaceous (Turonian) Old Crossman locality, New Jersey, USA	90	Crepet et al. 2005
Lauraceae	<i>Mauldinia</i> spp.	flowers	Early Cenomanian, Maryland, USA, Middle Cenomanian Czech Republic, <i>M. hirsuta</i> from the Cenomanian–Turonian of Kazakhstan	100-90	Drinnan et al., 1990; Eklund and Kvaček, 1998; Frumin et al., 2004
Lauraceae	<i>Perseanthus crossmanensis</i>	flower	Late Cretaceous (Turonian) Old Crossman locality, New Jersey, USA	90	Herendeen et al. 1994
Lauraceae	<i>Lauranthus futabensis</i>	flower	Late Cretaceous (Early Coniacian) flora of the Kamikitaba locality, northeastern Honshu, Japan	87	Takahashi et al. 2001
Hernandiaceae	<i>Illigera eocenica</i>	winged fruits	Middle Eocene of Oregon, Utah, Colorado	46-48	Manchester and O'leary 2010
Winteraceae	<i>Walkeripollis</i>	pollen tetrads	Late Barremian –	126	Doyle et al. 1990

			Early Aptian of Gabon and Late Aptian–Albian Israel		
Saururaceae	<i>Saururus tuckerae</i>	inflorescence axes with attached flowers and fruits	Middle Eocene Princeton Chert, British Columbia, Canada	49	Smith and Stockey, 2007b
Chloranthaceae	<i>Asteropollis asteroides</i>	Distinctive pollen very similar to extant <i>Hedyosmum</i>	Early and mid-Cretaceous palynofloras from both the Northern and the Southern Hemisphere	120-100	Hedlund and Norris 1968
	<i>Chloranthistemon endressii</i>	trilobed androecia	Late Cretaceous (Late Santonian–Early Campanian) flora of Åsen, Sweden	84	Crane et al. 1989b
	<i>Chloranthistemon crossmanensis</i>		Late Cretaceous (Turonian) New Jersey	90	Herendeen et al. 1993