

McCoy *et al.* - Supplementary Table 2

Type of amber	Group	Age	Site	Taxon	int	Method	Notes	References <sup>1</sup>
Chiapas amber, Mexico	D	Late Oligocene to Middle Miocene	Simojovel de Allende	<i>Scolopocryptops simojovelensis</i>	yes	Synchrotron analysis	Details about preservation not given	Edgecombe <i>et al.</i> 2012; this paper
			Totolapa deposit, Salt River Mine	<i>Azteca</i> sp.	no	CT scanning	Specimens not identified to the species level; internal structures are assumed to be present when the specimen is denser than the amber, and absent when it is less dense than the amber.	Coty <i>et al.</i> 2014
				<i>Azteca</i> sp.	yes			
				<i>Azteca</i> sp.	yes			
				<i>Nasutitermes</i> sp.	no			
				<i>Nasutitermes</i> sp.	no			
				<i>Nasutitermes</i> sp.	yes			
				<i>Nasutitermes</i> sp.	yes			
<i>Neivamyrmex</i> sp.	no							
Lebanese amber	A	Lower Cretaceous	Jezzine dar al baidha	<i>Rhizophthoma elateroides</i>	yes	Synchrotron analysis	Musculature and internal anatomy of the eyes are preserved	This paper; Kirejtshuk <i>et al.</i> 2009
				Eobelinae	yes	Amber cracked open	Details about preservation not given	Poinar 1993
Charentes amber, France	A	Mid Cretaceous	Archingeay-Les Nouillers, subunit A1s12	<i>Electrohemiphlebia barucheli</i>	no	Synchrotron analysis	Internal structures are not usually preserved	This paper; Lak & Nel 2009
				<i>Batola nikolai</i>	no	Synchrotron analysis		This paper; Vrřanský 2009
				<i>Sivis odpo</i>	no	Synchrotron analysis		This paper; Choufani <i>et al.</i> 2011
			Font-de-Benon quarry near Archingeay-Les Nouillers, A1s1-A (A1s11)	<i>Leptoconops daugeroni</i>	no	Synchrotron analysis		This paper, Engel <i>et al.</i> 2011
				<i>Syagrioterme salomeae</i>	no	Synchrotron analysis		This paper, Engel <i>et al.</i> 2011
				<i>Gallinympha walleri</i>	no	Synchrotron analysis		This paper; Perrichot <i>et al.</i> 2011
				<i>Orchestina gappi</i>	no	Synchrotron analysis		This paper; Saupe <i>et al.</i> 2012
				<i>Stephanopachys vetus</i>	no	Synchrotron analysis		This paper; Peris <i>et al.</i> 2014b
				<i>Prioriphora schroederhohenwarthi</i> specimen 1	no	Synchrotron analysis		This paper; Solrzano <i>et al.</i> 2011
				<i>Prioriphora schroederhohenwarthi</i> specimen 2	no			
				<i>Stephanopachys vetus</i>	no	Synchrotron analysis		Peris <i>et al.</i> 2014b
				<i>Emilianovelia audax</i>	no	Synchrotron analysis		This paper; Solrzano <i>et al.</i> 2014
				<i>Malenavelia videris</i> specimen 1				
				<i>Malenavelia videris</i> specimen 2				
				<i>Malenavelia videris</i> specimen 3				
				<i>Arcantivelia petraudi</i> specimen 1				
				<i>Arcantivelia petraudi</i> specimen 2	no	Synchrotron analysis		This paper; Peris <i>et al.</i> 2014a
			<i>Antiquis opaque</i>					
			<i>Duocalcar geminum</i>					
			<i>Synchrotronia idineteena</i>	no	Synchrotron analysis	Soriano <i>et al.</i> 2013		
La Buzinie near Champniers (b2 subunit)	<i>Diapriidae</i> genus and species indet.	no	Synchrotron analysis	Lak & Nel 2009; This paper				
	<i>Trichomyia lengleti</i>	no	Synchrotron analysis	Lak <i>et al.</i> 2008; This paper				
Oise amber, France	?	Eocene	no specific locality information	Pireninae	yes	Synchrotron analysis	Poorly preserved internal organs and cuticle	Van <i>et al.</i> 2014
				Eumeninae			Well preserved internal organs; poorly preserved cuticle	
			Paris Basin, Le Quesnoy, Cheviere, region of Creil	<i>Cenotextricella simoni</i>	yes	CT scanning	Details about preservation not given	Penney <i>et al.</i> 2007

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New Jersey amber	A	Cretaceous	Sayresville	<i>Spathopria sayrevillensis</i>	no	Synchrotron analysis	Details about preservation not given	Engel <i>et al.</i> 2013; This paper	
				<i>Sayrevilleus grimaldii</i>	no	Synchrotron analysis		Riedel <i>et al.</i> 2012	
				<i>Stegobium raritanensis</i>	no	Synchrotron analysis	Details about preservation not given	Peris <i>et al.</i> 2015; This paper	
				<i>Stegobium raritanensis</i>	no	Synchrotron analysis	Details about preservation not given	Peris <i>et al.</i> 2015; This paper	
				<i>Stegobium raritanensis</i>	no	Synchrotron analysis	Details about preservation not given	Peris <i>et al.</i> 2015; This paper	
			<i>Stegobium raritanensis</i>	no	Synchrotron analysis	Details about preservation not given	Peris <i>et al.</i> 2015; This paper		
			East Brunswick, Sunrise Landing site	<i>Phloeocaris agerata</i>	no	Synchrotron analysis	Details about preservation not given	Chatzimanolis <i>et al.</i> 2013	
Burmese amber	A	Cretaceous	Hukawng valley	<i>Leptoconops ellenbergeri</i>	no	Light microscopy	Poorly preserved without internal organs	Szadziewski <i>et al.</i> 2015	
				<i>Burmacoccus danyi</i>	yes	Light microscopy	some internal structures visible to the naked eye	Koteja 2004	
				<i>Halitherses grimaldii</i>	yes	CT scanning	possible muscle tissue	Dunlop <i>et al.</i> 2016	
Spanish amber	?	Early Cretaceous	San Just outcrop	<i>Arra legalovi</i>	yes	Synchrotron analysis	digestive tract	This paper; Peris <i>et al.</i> 2014a	
				<i>Orchestina</i> sp.	yes	Synchrotron analysis	Partial musculature preserved	This paper; Saupe <i>et al.</i> 2012	
				<i>Actenobius magneoculus</i>	no	Synchrotron analysis	Details about preservation not given	Peris <i>et al.</i> 2015; This paper	
			Penacerrada 1	<i>Galloromma</i> sp.	no	Synchrotron analysis	Details about preservation not given	This paper, Soriano <i>et al.</i> 2010	
Dominican amber	D	Miocene	unidentified mine, Altamira facies, El-Mamey Formation	<i>Neoliodes dominicus</i>	yes	Synchrotron analysis	poorly preserved, only small parts of internal anatomy	This paper; Heethoff <i>et al.</i> 2009	
			La Bucara mine	<i>Proplebeia adbita</i>	yes	Diagnostic radioentomology	well-preserved internal soft tissues	Greco <i>et al.</i> 2011	
				<i>Craspedisia yapchoontecki</i>	?	CT scanning	Details about preservation not given	Penney <i>et al.</i> 2012a	
				<i>Borinquena parva</i> <i>?Sphyrotheca</i> sp.	? ?	CT scanning	Details about preservation not given	Penney <i>et al.</i> 2012b	
			La Toca Mine	<i>Proplebia dominicana</i> <i>Proplebia dominicana</i> <i>Proplebia dominicana</i> <i>Proplebia dominicana</i>	yes	Amber cracked open	Amber cracked open and tissues dissected	Stankiewicz <i>et al.</i> 1998	
				no specific locality information	<i>Proplebeia dominicana</i> <i>Proplebeia dominicana</i> <i>Proplebeia dominicana</i> <i>Reticulitermes</i> sp. <i>Reticulitermes</i> sp. Platypodid Platypodid <i>Mycetophila</i> sp. <i>Mycetophila</i> sp. <i>Mycetophila</i> sp. <i>Megaselia</i> sp. <i>Megaselia</i> sp.	yes	Amber cracked open, tissues examined with TEM and SEM	The details of which internal structures are preserved varies between the specimens, although details aren't given.	Grimaldi <i>et al.</i> 1994
					Cerocephalinae	no	Synchrotron analysis	cuticle also poorly preserved	Van <i>et al.</i> 2014

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Baltic amber	C	Eocene	Jantarny near Kalingrad	<i>Catops nathani</i>	yes	Synchrotron analysis	Details about preservation not given	Perreau & Perkovsky 2014; This paper		
				<i>Sayrevilleus grimaldii</i>	no	Synchrotron analysis	cuticle poorly preserved	Riedel <i>et al.</i> 2012		
				<i>Baltocar groehni</i>						
				<i>Baltocar hoffeinsorum</i>						
				<i>Catops perkovskiyi</i>	yes	Synchrotron analysis	not clear if internal soft tissues are preserved,	Perreau 2012		
				<i>Tafforeus cainosternus</i>	yes	synchrotron analysis	some organ remains, no original structure	Van <i>et al.</i> 2014		
				Pteromalidae						
			<i>Mengea tertiaria</i>	yes	synchrotron analysis	well preserved internal soft tissues	Pohl <i>et al.</i> 2010			
			no specific locality information	Dolichopodid fly	yes	Amber cracked open, tissues examined with TEM and SEM	internal organs very well preserved	Grimaldi <i>et al.</i> 1994		
									<i>Mycetophila</i> sp.	
				<i>Mycetophila</i> sp.	no					
				Dolichopodid fly						
				Micropholcommatidae	yes	CT scanning	Details about preservation not given	Dierick <i>et al.</i> 2007		
				Micropholcommatidae	no					
				<i>Pseudogarypus minor</i>						
				<i>Nemadus microtomographicus</i>	yes	Synchrotron analysis	well-preserved internal soft tissues; smaples chosen to have internal structures preserved	Perreau & Tafforeau 2011		
				<i>Dasumiana emicans</i>	yes	CT scanning	Details about preservation not given	Dunlop <i>et al.</i> 2012		
				<i>Mesocentrus palaeoeuropaea</i>	no	Synchrotron analysis	Details about preservation not given	Butcher <i>et al.</i> 2014		
				<i>Pseudogarypus minor</i>	no	Synchrotron analysis	Details about preservation not given	Henderickx <i>et al.</i> 2013b		
				<i>Pseudogarypus synchrotron</i>	?	Synchrotron analysis	Details about preservation not given	Henderickx <i>et al.</i> 2012		
				<i>Balticoroma wheateri</i>	?	CT scanning	Details about preservation not given	Penney <i>et al.</i> 2011		
				<i>Eusparassus crassipes</i>	?	CT scanning	Details about preservation not given	Dunlop <i>et al.</i> 2011		
				<i>Pseudogarypus pangaea</i>	?	CT scanning	Details about preservation not given	Henderickx <i>et al.</i> 2006		
<i>Eocenoxenos palintropos</i>	?	CT scanning		Details about preservation not given	Henderickx <i>et al.</i> 2013a					
<i>Metanephrocerus groehni</i>	?	CT scanning	Details about preservation not given	Kehlmaier <i>et al.</i> 2014						
<i>Metanephrocerus hoffeinsorum</i>	?	CT scanning								
Berothidae indet.	yes	Synchrotron analysis	Internal structures in the head; oesophagus is clearly visible	Wedmann <i>et al.</i> 2013						
Danish amber	?	Eocene	no specific locality information	<i>Psyllototus viking</i>	?	Synchrotron analysis	Details about preservation not given	Nadein <i>et al.</i> 2016		
				<i>Paleomolpus hirtus</i>	?	Synchrotron analysis	Details about preservation not given			
Rovno amber	?	Eocene	no specific locality information	<i>Archealtica convexa</i>	?	Synchrotron analysis	Details about preservation not given	Nadein <i>et al.</i> 2016		
Indian Cambay amber	B	Eocene	Tadkeshwar lignite mine	Mimetidae	?	CT scanning	Details about preservation not given	Penney <i>et al.</i> 2014		
				Nematoceran	?	CT scanning	Details about preservation not given			
Hell Creek, USA amber	?	Cretaceous	no specific locality information	Nematoceran	?			SEM of broken material	Muscle fibres preserved	Depalma <i>et al.</i> 2010
				Nematoceran	?					
				Brachyceran	?					

<sup>1</sup> Chemical Group is based on Lambert *et al.* 2008, Lambert *et al.* 2012 and Lambert *et al.* 2015