

Electronic Supplementary Material for Barrett, P. M., Butler, R. J. & Nesbitt, S. J. “The roles of herbivory and omnivory in early dinosaur evolution”. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* 101, 383–396

Table of Late Triassic to Middle Jurassic dinosaur taxa used to construct Figure 3. The majority of information used is based on the compilation of Weishampel *et al.* (2004); additional sources used are indicated below. The list of taxa includes: taxa generally considered to be valid; taxa yet to be formally described, but that are generally accepted as valid and listed in faunal surveys (e.g. Weishampel *et al.* 2004); and a small number of indeterminate taxa that represent unique examples of a clade in a particular region/timeslice. Although the latter provide little useful taxonomic information, they do provide valuable data on the spatial and temporal distribution of the clade and are included herein to be as representative as possible. Four taxa that have previously been considered as basal saurischians are included in Theropoda herein (*Herrerasaurus*, *Staurikosaurus*, *Chindesaurus* and *Eoraptor*), following recent work (e.g. Nesbitt *et al.* 2010). Other early dinosaurs of doubtful affinity (*Guaibasaurus* and *Agnosphitys*) are excluded.

Taxon	First appearance	Taxonomic source	Stratigraphical source
Ornithischia			
<i>Abrictosaurus concors</i>	early Pliensbachian	-	Yates <i>et al.</i> (2004)
<i>Agilisaurus louderbacki</i>	early Bathonian	-	-
<i>‘Alocodon kuehnei’</i>	late Callovian	-	-
<i>Bienosaurus lufengensis</i>	early Sinemurian	-	-
<i>Callovosaurus leedsi</i>	middle Callovian	-	-
<i>Emausaurus ernsti</i>	early Toarcian	-	-
<i>Eocursor parvus</i>	early Norian	Butler <i>et al.</i> (2007)	Lucas & Hancox (2001)
<i>Heterodontosaurus tucki</i>	early Pliensbachian	-	Yates <i>et al.</i> (2004)
<i>Hexinlusaurus (=Yandusaurus) multidens</i>	early Bathonian	Barrett <i>et al.</i> (2005)	-
<i>Huayangosaurus taibaii</i>	early Bathonian	-	-
Kayenta thyreophoran (=‘ <i>Scelidosaurus</i> ’ sp.)	early Sinemurian	-	-
<i>Lesothosaurus diagnosticus</i>	early Pliensbachian	-	Yates <i>et al.</i> (2004)

Taxon	First appearance	Taxonomic source	Stratigraphical source
Ornithischia (Cont.)			
<i>Loricatosaurus priscus</i>	early Callovian	Maidment <i>et al.</i> (2008)	-
<i>Lycorhinus angustidens</i>	early Pliensbachian	-	Yates <i>et al.</i> (2004)
<i>Pisanosaurus mertii</i>	late Carnian	-	Brusatte <i>et al.</i> (2010)
<i>Sarcolestes leedsi</i>	early Callovian	-	-
<i>Scelidosaurus harrisonii</i>	late Sinemurian	-	-
<i>Scutellosaurus lawleri</i>	early Sinemurian	-	-
<i>Stormbergia dangershoeki</i>	early Pliensbachian	Butler (2005)	Yates <i>et al.</i> (2004)
' <i>Tatisaurus oehleri</i> '	early Sinemurian	-	-
' <i>Tianchiasaurus nedegoaperferima</i> '	early Bathonian	-	-
Unnamed Elliot heterodontosaurid (NHM A100)	early Pliensbachian	Butler <i>et al.</i> (2008)	Yates <i>et al.</i> (2004)
Unnamed Kayenta heterodontosaurid	early Sinemurian	-	-
Unnamed Laguna Colorado heterodontosaurid	early Norian	-	-
Unnamed La Quinta ornithischian	early Hettangian	Barrett <i>et al.</i> (2008)	Barrett <i>et al.</i> (2008)
<i>Xiaosaurus dashanpensis</i>	early Bathonian	-	-
Theropoda			
<i>Berberosaurus liassicus</i>	early Pliensbachian	Allain <i>et al.</i> (2007)	Allain <i>et al.</i> (2007)
<i>Camposaurus arizonensis</i>	early Norian	-	Brusatte <i>et al.</i> (2010)
<i>Chindesaurus bryansmalli</i>	middle Norian	-	Brusatte <i>et al.</i> (2010)
<i>Coelophysis bauri</i>	early Norian	-	Brusatte <i>et al.</i> (2010)
<i>Coelophysis</i> (= <i>Syntarsus</i>) <i>rhodesiensis</i>	early Pliensbachian	Bristowe & Raath (2004)	Yates <i>et al.</i> (2004)

Taxon	First appearance	Taxonomic source	Stratigraphical source
Theropoda (Cont.)			
<i>Condorraptor currumili</i>	early Callovian	Rauhut (2005)	Rauhut (2005)
<i>Cryolophosaurus ellioti</i>	early Hettangian	-	Smith <i>et al.</i> (2007)
' <i>Dilophosaurus</i> ' <i>sinensis</i>	early Sinemurian	-	-
<i>Dilophosaurus wetherilli</i>	early Sinemurian	-	-
<i>Dracovenator regenti</i>	early Pliensbachian	Yates (2005)	Yates <i>et al.</i> (2004)
<i>Dubreuillosaurus</i> (= <i>Poekilopleuron</i>) <i>valesdunensis</i>	middle Bathonian	Allain (2005)	-
<i>Duriavenator</i> (= <i>Megalosaurus</i>) <i>hesperis</i>	late Bajocian	Benson (2008)	-
<i>Eoraptor lunensis</i>	late Carnian	-	Brusatte <i>et al.</i> (2010)
<i>Eshanosaurus deguchiianus</i>	early Hettangian	-	-
<i>Eustreptospondylus oxoniensis</i>	late Callovian	-	-
<i>Gasosaurus constructus</i>	early Bathonian	-	-
<i>Gojirasaurus quayi</i>	Norian	-	Brusatte <i>et al.</i> (2010)
<i>Herrerasaurus ischigualastensis</i>	late Carnian	-	Brusatte <i>et al.</i> (2010)
<i>Kaijiangosaurus lini</i>	early Bathonian	-	-
<i>Liliensternus liliensterni</i>	late Norian	-	-
<i>Lophostropheus airelensis</i>	late Rhaetian	Ezcurra & Cuny (2007)	Ezcurra & Cuny (2007)
<i>Magnosaurus nethercombensis</i>	early Bajocian	-	Benson & Barrett (2009)
<i>Megapnosaurus</i> (= <i>Syntarsus</i>) <i>kayentakatae</i>	early Sinemurian	Ivie <i>et al.</i> (2001)	-
<i>Megalosaurus bucklandii</i>	early Bathonian	-	Benson (2010)
<i>Ozraptor subotaii</i>	early Bajocian	-	-
<i>Piatnitzkysaurus floresi</i>	early Callovian	-	-

Taxon	First appearance	Taxonomic source	Stratigraphical source
Theropoda (Cont.)			
<i>Piveteausaurus divesensis</i>	late Callovian	-	-
<i>Poekilopleuron bucklandii</i>	middle Bathonian	-	-
<i>Proceratosaurus bradleyi</i>	middle Bathonian	-	-
<i>Procompsognathus triassicus</i>	middle Norian	-	-
<i>Sarcosaurus woodi</i>	early Sinemurian	-	-
<i>Segisaurus halli</i>	early Pliensbachian	-	-
'Shake-and-bake' theropod	early Sinemurian	-	-
<i>Staurikosaurus pricei</i>	late Carnian	-	Brusatte <i>et al.</i> (2010)
<i>Streptospondylus altdorfensis</i>	late Callovian	-	-
'Szechuanosaurus' <i>zigongensis</i>	early Bathonian	-	-
<i>Tawa hallae</i>	early Norian	Nesbitt <i>et al.</i> (2009)	Nesbitt <i>et al.</i> (2009)
Unnamed Chinle coelophysoid	early Norian	Brusatte <i>et al.</i> (2010)	Brusatte <i>et al.</i> (2010)
<i>Xuanhanosaurus qilixiaensis</i>	early Bathonian	-	-
<i>Zupaysaurus rougieri</i>	early Norian	-	-
Sauropodomorpha			
<i>Aardonyx celestae</i>	early Pliensbachian	Yates <i>et al.</i> (2010)	Yates <i>et al.</i> (2004)
<i>Abrosaurus dongpoi</i>	early Bathonian	-	-
<i>Adeopapposaurus mognai</i>	early Hettangian	Martínez (2009)	Martínez (2009)
<i>Amygdalodon patagonicus</i>	early Bajocian	-	-
<i>Anchisaurus polyzelus</i>	early Pliensbachian	-	-

Taxon	First appearance	Taxonomic source	Stratigraphical source
Sauropodomorpha (Cont.)			
<i>Antetonitrus ingenipes</i>	early Norian	Yates & Kitching (2003)	Lucas & Hancox (2001)
<i>Archaeodontosaurus descouensi</i>	early Bathonian	Buffetaut (2005)	Buffetaut (2005)
<i>Asylosaurus yalensis</i>	early Rhaetian	Galton (2007)	Galton (2007)
<i>Atlasaurus imelaki</i>	late Bathonian	-	-
<i>Barapasaurus tagorei</i>	early Sinemurian	-	Bandyhopadhyay <i>et al.</i> (2010)
<i>Bellusaurus sui</i>	early Bathonian	- -	Clark <i>et al.</i> (2004)
<i>Blikanasaurus cromptoni</i>	early Norian	-	Lucas & Hancox (2001)
<i>Camelotia borealis</i>	early Rhaetian	-	-
<i>Cardiodon rugulosus</i>	late Bathonian	-	-
<i>Cetiosauriscus stewartii</i>	middle Callovian	-	-
<i>Cetiosaurus oxoniensis</i>	late Bajocian	-	-
' <i>Cetiosaurus</i> ' <i>glymptonensis</i>	middle Bathonian	-	-
<i>Chebsaurus algeriensis</i>	early Aalenian	Mahammed <i>et al.</i> (2005)	Mahammed <i>et al.</i> (2005)
<i>Chinshakiangosaurus chunghoensis</i>	early Hettangian	-	-
<i>Chuanjiesaurus anaensis</i>	early Aalenian	-	-
<i>Coloradisaurus brevis</i>	early Norian	-	-
<i>Dashanpusaurus dongi</i>	early Bathonian	Peng <i>et al.</i> (2005)	Peng <i>et al.</i> (2005)
<i>Datousaurus bashanensis</i>	early Bathonian	-	-
<i>Efraasia minor</i>	early Norian	Yates (2003)	Yates (2003)
<i>Eomamenchisaurus yuanmouensis</i>	early Aalenian	Lü <i>et al.</i> (2008)	Lü <i>et al.</i> (2008)
<i>Eucnemesaurus fortis</i>	early Norian	Yates (2007)	Lucas & Hancox (2001)

Taxon	First appearance	Taxonomic source	Stratigraphical source
Sauropodomorpha (Cont.)			
<i>Ferganasaurus verzilini</i>	early Callovian	Alifanov & Averianov (2003)	Alifanov & Averianov (2003)
<i>Glacialisaurus hammeri</i>	early Hettangian	Smith & Pol (2007)	Smith & Pol (2007)
<i>Gongxianosaurus shibeiensis</i>	early Hettangian	-	-
' <i>Gyposaurus</i> ' <i>sinensis</i>	early Hettangian	-	-
<i>Isanosaurus attavipachi</i>	late Norian	-	-
Kayenta ' <i>Massospondylus</i> '	early Sinemurian	-	-
<i>Klamelisaurus gobiensis</i>	early Bathonian	-	Clark <i>et al.</i> (2004)
<i>Kotasaurus yamanpalliensis</i>	early Sinemurian	-	Bandyhopadhyay <i>et al.</i> (2010)
<i>Jingshanosaurus xinwaensis</i>	early Hettangian	-	-
<i>Lamplughsaura dharmaramensis</i>	early Sinemurian	Kutty <i>et al.</i> (2007)	Kutty <i>et al.</i> (2007)
<i>Lapparentosaurus madagascariensis</i>	early Bathonian	-	-
<i>Lessemsaurus sauropoides</i>	early Norian	-	-
<i>Lufengosaurus huenei</i>	early Hettangian	-	-
' <i>Mamenchisaurus</i> ' <i>fuxiensis</i>	early Bathonian	-	-
<i>Massospondylus carinatus</i>	early Pliensbachian	-	Yates <i>et al.</i> (2004)
<i>Massospondylus kaalae</i>	early Pliensbachian	Barrett (2009)	Yates <i>et al.</i> (2004)
<i>Melanorosaurus readi</i>	early Norian	-	Lucas & Hancox (2001)
' <i>Melanorosaurus</i> ' <i>thabanensis</i>	early Pliensbachian	-	Yates <i>et al.</i> (2004)
<i>Mussaurus patagonicus</i>	early Norian	-	-
<i>Ohmdenosaurus liasicus</i>	middle Toarcian	-	-
<i>Omeisaurus junghsiensis</i>	early Bathonian	-	-

Taxon	First appearance	Taxonomic source	Stratigraphical source
Sauropodomorpha (Cont.)			
<i>Omeisaurus tianfuensis</i>	early Bathonian	-	-
<i>Panphagia protos</i>	late Carnian	Martinez & Alcobar (2009)	Brusatte <i>et al.</i> (2010)
<i>Pantyraco (=Thecodontosaurus) caducus</i>	early Rhaetian	Galton <i>et al.</i> (2007)	Galton <i>et al.</i> (2007)
<i>Patagosaurus fariasi</i>	early Callovian	-	-
<i>Plateosauravus cullingworthi</i>	early Norian	Yates (2004)	Lucas & Hancox (2001)
<i>Plateosaurus englehardti</i>	late Norian	Yates (2003)	Yates (2003)
<i>Plateosaurus gracilis</i>	early Norian	Yates (2003)	Yates (2003)
<i>Plateosaurus ingens</i>	late Norian	Moser (2003)	-
<i>Pradhania gracilis</i>	early Sinemurian	Kutty <i>et al.</i> (2007)	Kutty <i>et al.</i> (2007)
<i>Rhoetosaurus brownii</i>	early Bajocian	-	-
<i>Riojasaurus incertus</i>	early Norian	-	-
<i>Ruehleia bedheimensis</i>	early Norian	-	-
<i>Sanpasaurus yaoi</i>	early Hettangian	-	-
<i>Saturnalia tupiniquim</i>	early Carnian	-	-
<i>Seitaad ruessi</i>	early Pliensbachian	Sertich & Loewen (2010)	Sertich & Loewen (2010)
<i>Shunosaurus lii</i>	early Bathonian	-	-
<i>Tazoudasaurus naimi</i>	early Pliensbachian	Allain & Aquesbi (2008)	Allain <i>et al.</i> (2008)
<i>Tehuelchesaurus benitezii</i>	early Callovian	-	-
<i>Unaysaurus tolentinoi</i>	early Norian	Leal <i>et al.</i> (2004)	Brusatte <i>et al.</i> (2010)
<i>Volkheimeria chubutensis</i>	early Callovian	-	-
<i>Vulcanodon karibaensis</i>	early Pliensbachian	-	Yates <i>et al.</i> (2004)

Taxon	First appearance	Taxonomic source	Stratigraphical source
Sauropodomorpha (Cont.)			
<i>Yimenosaurus youngi</i>	early Pliensbachian	-	-
<i>Yuanmousaurus jiangyiensis</i>	early Aalenian	Lü <i>et al.</i> (2006)	Lü <i>et al.</i> (2006)
<i>Yunnanosaurus huangi</i>	early Sinemurian	-	-
' <i>Yunnanosaurus</i> ' <i>youngi</i>	early Aalenian	Lü <i>et al.</i> (2007)	Lü <i>et al.</i> (2007)

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