

**Table S1.** Occurrences of published radiodontans around the world. Chronostratigraphic orders are adopted from various sources. Symbols: ‘?’ : the radiodontan natures of these taxa are doubtful; ‘\*’ : the controversial phylogenetic position of *Schinderhannes bartelsi* influences the monophyly of Radiodonta. Abbreviations: BF: body flap; CB: (nearly) complete body; DG: digestive gland; EY: eye; FA: frontal appendage; FM: fragment of body part; FU: furca; GT: gut; HS: head sclerite; IB: incomplete body; MS: musculature; NR: nerve; OC: oral cone; SB: setal structures; TF: tail fan.

Deposits	Fossil zones	Age	Strata	Body parts	Taxa/sclerites	References
Zawiszyn Formation, Kaszuby, Pomerania, Poland	<i>Fallotaspis</i> Zone	Cam. S3	Zawiszyn Fm.	FA	<i>Peytoia infercambriensis</i> (Lendzion, 1975)	Lendzion, 1975, 1977; Dzik & Lendzion, 1988; Daley & Legg, 2015.
Zunyi biota, Guizhou, South China	<i>Tsunyidiscus niutitangensis</i> Zone	Cam. S3	Niutitang Fm.	FA	<i>Amplectobelua symbrachiata</i> Hou <i>et al.</i> , 1995	Shu <i>et al.</i> , 1992; Steiner <i>et al.</i> , 2005.
Chengjiang biota, Yunnan, South China	<i>Yunnanocephalus</i> Subzone, <i>Eoredlichia-Wutingaspis</i> Zone	Cam. S3	Maotianshan Shale Mb., Yu'anshan Fm.	HS, FA, EY, OC, BF, S, TF, FU, CB, NR, GT, DG	<i>Amplectobelua symbrachiata</i> Hou <i>et al.</i> , 1995 <i>Anomalocaris saron</i> Hou <i>et al.</i> , 1995 ?Cucumericrus decoratus Hou <i>et al.</i> , 1995 <i>Lyrrapax unguispinus</i> Cong <i>et al.</i> , 2014 <i>Lyrrapax trilobus</i> Cong <i>et al.</i> , 2016 ?Parapeytoia yunnanensis Hou <i>et al.</i> , 1995 <i>Tauricornicaris latizonae</i> gen. et sp. nov. <i>Tauricornicaris oxygonae</i> gen. et sp. nov. <i>Zhenghecaris shankouensis</i> Vannier <i>et al.</i> , 2006 Chengjiang P-element R-element A-element	Chen <i>et al.</i> , 1994, 1996, 1997, 2004, 2007, 2012; Hou <i>et al.</i> , 1995, 2004; Vannier <i>et al.</i> , 2006; Cong <i>et al.</i> , 2014, 2016; <a href="#">This paper</a> .
Sirius Passet biota, Peary Land, Greenland	<i>Nevadella</i> Zone	Cam. S3	Buen Fm.	FA	<i>Tamisiocaris borealis</i> Daley & Peel, 2010	Daley & Peel, 2010; Vinther <i>et al.</i> , 2014.
Shuijingtu Formation, Yichang, Hubei, South China	<i>Hupeidiscus orientalis</i> Zone	Cam. S3	Shuijingtu Fm.	HS	? <i>Huangshandongia yichangensis</i> Cui & Huo, 1990 ? <i>Liantuoia inflasa</i> Cui & Huo, 1990	Cui & Huo, 1990; Daley <i>et al.</i> , 2013a.
Indian Springs biota, Esmeralda, Nevada, USA	<i>Olenellus</i> Zone	Cam. S3	Middle Mb., Poleta Fm.	FM	Unnamed radiodontans	English & Babcock, 2010.
Malong fauna, Yunnan, South China	<i>Drepanuroides</i> Zone	Cam. S3	Hongjingshao Fm.	FA	<i>Anomalocaris saron</i> Hou <i>et al.</i> , 1995	Zhang <i>et al.</i> , 2001; Luo <i>et al.</i> , 2008.
Eager Formation, Cranbrook, British Columbia, Canada	<i>Bonnia-Olenellus</i> Zone	Cam. S3	Eager Fm.	FA	<i>Anomalocaris canadensis</i> Whiteaves, 1892	Resser, 1929; Briggs, 1979; Briggs & Mount, 1982.
Kinzers Formation, Lancaster, Pennsylvania, USA	<i>Bonnia-Olenellus</i> Zone	Cam. S3	Kinzers Fm.	FA	<i>Anomalocaris pennsylvanica</i> Resser, 1929	Resser, 1929; Resser & Howell, 1938; Briggs, 1979; Briggs & Mount, 1982.
Latham Shale, San Bernardino, California, USA	<i>Bristolia</i> Subzone, <i>Bonnia-Olenellus</i> Zone	Cam. S3	Latham Shale	FA	<i>Anomalocaris canadensis</i> Whiteaves, 1892	Briggs & Mount, 1982.
Pioche Formation, Lincoln, Nevada, USA	<i>Olenellus</i> Zone to <i>Eokochaspis nodosa</i> Zones	Cam. S4	Comet Shale Mb., Pioche Fm.	FA, OC, BF, FU, IB, GT	<i>Anomalocaris pennsylvanica</i> Resser, 1929 <i>Anomalocaris cf. saron</i> Hou <i>et al.</i> , 1995 Unnamed radiodontans	Lieberman, 2003.
Guanshan biota, Yunnan, South China	<i>Palaeolenus</i> and <i>Megapalaeolenus</i> Zones	Cam. S4	Wulongqing Fm.	FA	<i>Anomalocaris kunmingensis</i> Wang <i>et al.</i> , 2013 <i>Paranomalocaris multisegmentalis</i> Wang <i>et al.</i> , 2013 ?Parapeytoia sp. Hou <i>et al.</i> , 1995	Luo <i>et al.</i> , 2008; Hu <i>et al.</i> , 2010, 2013; Wang <i>et al.</i> , 2013.
Balang biota, Hunan, South China	<i>Arthricocephalus chauveaui</i> Zone	Cam. S4	Balang Fm.	FA	<i>Anomalocaris</i> sp. Whiteaves, 1892 <i>Peytoia cf. nathorsti</i> Walcott, 1911	Liu, 2013.
Emu Bay Shale biota, Kangaroo Island, South Australia	<i>Pararaia janeae</i> Zone	Cam. S4	Emu Bay Shale	FA, EY, OC, BF, SB	<i>Anomalocaris briggsi</i> Nedin, 1995 <i>Anomalocaris cf. canadensis</i> Whiteaves, 1892	McHenry & Yates, 1993; Nedin, 1995; Paterson <i>et al.</i> , 2011; Daley <i>et al.</i> , 2013b.
Mantou Formation, Tangshan, Hebei, North China	<i>Luaspides huoshanensis</i> Zone	Cam. S5	Mantou Fm.	FA	Unnamed radiodontans	Huang <i>et al.</i> , 2012.
Kaili biota, Guizhou, South China	<i>Oryctococephalus indicus</i> Zone	Cam. S5	Kaili Fm.	FA	<i>Anomalocaris saron</i> Hou <i>et al.</i> , 1995	Zhao <i>et al.</i> , 2005, 2011.
Spence Shale, Wellsville Mountains, Utah, USA	<i>Glossopleura</i> Zone	Cam. S5	Spence Shale Mb., Langston Fm.	OC, SB, IB	<i>Anomalocaris</i> sp. Whiteaves, 1892 <i>Hurdia</i> sp. Walcott, 1912 <i>Peytoia nathorsti</i> Walcott, 1911	Conway Morris & Robison, 1982, 1988; Robison, 1991; Briggs <i>et al.</i> , 2008; Daley <i>et al.</i> , 2013a.

Burgess Shale biota, British Columbia, latest <i>Glossopleura</i> Zone to early–middle Canada	<i>Bathyuriscus—Elrathina</i> Zone	Cam. S5	Burgess Shale Fm. and Stephen Fm.	HS, FA, EY, OC, BF, SB, TF, CB, GT, MS	<i>Amplectobelua stephenensis</i> Daley & Budd, 2010 <i>Anomalocaris canadensis</i> Whiteaves, 1892 <i>Caryosyntrips serratus</i> Daley & Budd, 2010 <i>Hurdia triangulata</i> Walcott, 1912 <i>Hurdia victoria</i> Walcott, 1912 <i>Peytoia nathorsti</i> Walcott, 1911 <i>Stanleycaris hirpex</i> Caron <i>et al.</i> , 2010	Conway Morris, 1978; Briggs, 1979; Whittington & Briggs, 1985; Collins <i>et al.</i> , 1996; Daley <i>et al.</i> , 2009, 2013a; Caron <i>et al.</i> , 2010; Daley & Budd, 2010; Daley & Bergström, 2012; Daley & Edgecombe, 2014.
Kuonamka Formation, Olenek, Yakutia, Siberia	Unknown	Cam. S5 to Drumian	Kuonamak Fm.	SB, IB	Unnamed radiodontans	Ponomarenko, 2010.
Wheeler Formation, House Range, Utah, USA	<i>Ptychagnostus atavus</i> Zone	Cam. Drumian	Wheeler Fm.	HS, FA, OC, BF, TF, CB, GT	<i>Anomalocaris</i> sp. Whiteaves, 1892 <i>Hurdia</i> sp. Walcott, 1912 <i>Peytoia nathorsti</i> Walcott, 1911	Robison & Richards, 1981; Conway Morris & Robison, 1982, 1988; Robison, 1991; Briggs <i>et al.</i> , 2008; Daley <i>et al.</i> , 2013a.
Marjum Formation, House Range, Utah, USA	<i>Ptychagnostus punctuosus</i> Zone	Cam. Drumian	Marjum Fm.	BF, IB, GT, DG	<i>Peytoia nathorsti</i> Walcott, 1911	Briggs & Robison, 1984; Conway Morris & Robison, 1988; Robison, 1991.
Jince Formation, Barrandian, Bohemia, Czech	Uppermost part of interval between <i>Eccaparadoxides pusillus</i> and <i>Paradoxides gracilis</i> Zones; <i>Ellipsocephalus hoffi-Rejkocephalus</i> Zone	Cam. Drumian	Jince Fm.	HS	<i>Hurdia</i> sp. Walcott, 1912	Chlupáč & Kordule, 2002; Daley <i>et al.</i> , 2013a.
Weeks Formation, House Range, Utah, USA	<i>Proagnostus bulbus</i> Zone	Cam. Guzhangian	Weeks Fm.	FA	<i>Anomalocaris</i> aff. <i>canadensis</i> Whiteaves, 1892 <i>Anomalocaris</i> sp. Whiteaves, 1892	Lerosey-Aubril <i>et al.</i> , 2014.
Klonówka Shale Formation, Wiśniówka, Poland	<i>Protopeltura</i> Zone	Cam. S10	Klonówka Shale Fm.	OC	'Peytoia'-type radiodontan	Masiak & Źylińska, 1994.
Fezouata biota, Zagora, Morocco	<i>Araneograptus murrayi</i> Zone (graptolids)	Ord. Tremadocian	Fezouata Fm.	HS, FA, OC, BF, SB, CB	Unnamed hurdiid radiodontans <i>Aegirocassis benmoulae</i> Van Roy <i>et al.</i> , 2015	Van Roy & Briggs, 2011; Daley <i>et al.</i> , 2013a; Van Roy <i>et al.</i> , 2015
Hunsrück Slate biota, Bundenbach, Germany	<i>Polygnathus excavatus</i> Zone (conodont)	Dev. lower Emsian	Kaub Fm.	FA, EY, OC, TF, FU, CB	* <i>Schinderhannes bartelsi</i> Kühl <i>et al.</i> , 2009	Kühl <i>et al.</i> , 2009.

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