0.6

Ichthyosauromorph taxonomy

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Contents

Introduction

This document presents a list of valid ichthyosauromorph species. It is a constant work in progress given the pace at which new ichthyosaur research happens. Perhaps not as rapidly as some other fossil groups, but certainly fast enough to require some attention.

It's also intended to give some handle on the vast literature available for ichthyosaurs and their near relatives by means of synonymy lists. I've chosen this format for it's familiarity, but also because I rather enjoy the process and trials to building a complete yet usable synonymy list.

I've used this also as an exercise in typography – like much of my more public output. This document is typeset in LuaLaTeX using typefaces with various nice features – old style figures, small capitals, optical sizes. The fonts used are nonetheless open source, courtesy of their development at Adobe.

Layout of synonymy lists

The synonymy lists are presented as unruled tables:

Example

Cartorhynchus lenticarpus Motani *et al.*, 2015

URN:LSID:ZOOBANK.ORG:ACT:FCCC9BB7-FD52-42F4-B2EC-B0B7E2A1CA32

<status>	<year>	<*Taxon*> <Authority, Year>	<reference, page> [<occurrence information>.] <comments>
*	2015	*Cartorhynchus lenticarpus* Motani *et al.*, 2015 LSID	Motani *et al.* p 485 [Upper Member, Nanlinghu Formation, *Subcolumbites* Ammonite Biozone (Olenekian, Lower Triassic, Triassic); Majishan Quarry, Chaohu City, Hefei, China (UTM WGS84 50R 577953 3499041 = 31° 37′ 26″ N 117° 49′ 19″ E).] LSID: URN:LSID:ZOOBANK.ORG:PUB:9CFFEE63-2B8A-4C01-B9C7-CD3C53D684F5

If a work names a new species or combination, the LSID of the act is included as a link button alongside the taxon name,[1] where this is available. Similarly all works that have publication LSIDs have those included too.

1 i.e. LSID

'Richter symbols' & certainty of assignment

I've followed the recommendations of Matthews (1973), pretty much to the letter, for the symbols and styles included in the leftmost two columns.

In front of the year symbols in the leftmost column

- * (asterisk) this publication marks the name becoming valid under ICZN rules.
- . (dot/period) we accept responsibility for attaching this reference to the taxon in question.
- (no sign) we cannot responsibly attach this reference, but do not doubt it.
- *?* (question mark) there is some doubt in attaching this reference to the current taxon.
- *v* *vidimus,* we have checked the deposited specimens. Can be accompanied by the above tokens:
  - *v** we have seen the type specimen(s).
  - *v.* we take responsibility for attaching the deposited specimens.
  - *v* we do not take responsibility for attaching the deposited specimens.
  - *v?* the specimens cannot be certainly assigned to this taxon.
- *(?)* the year of publication is uncertain.
- *p* only part of the deposited specimens can be assigned to the current taxon.
  - *vp* the deposited specimens have been checked and only part of them belong to this taxon.

And by formatting the year surrounding or changing the font

- *1881* (italicised) this work does not add morphological information, only occurrence information.
- 1881 (upright) the work adds to our knowledge on this taxon.
- (1881) (parentheses surrounding the year) the date of this work is uncertain.

Life Science Identifiers (LSID)

Life science identifiers[2] are unique keys to identify and locate information important to the various life sciences. Relevant to this document are the identifiers used to link nomenclatural acts in *ZooBank*,[3] the official registry of the International Commission on Zoological Nomenclature (ICZN). Naming new taxa in the recent literature requires registering the act in ZooBank to be 'officially' recognised.[4]

Many of the taxa included herein were named before ZooBank was yet a glint in anyone's eye, although they may well have been included in the printed equivalent *Zoological Record.* I've registered several new publications and acts where these were not in ZooBank before, that may be used henceforth. At the moment, these include only the original naming of species, not new combinations of specific and generic names.

2 https://en.wikipedia.org/wiki/LSID

3 http://zoobank.org

4 https://www.iczn.org/the-code/the-international-code-of-zoological-nomenclature-the-code-online/ (Article 8.5.3);https://en.wikipedia.org/wiki/ZooBank

Links in this document

The LaTeX document from which this PDF is compiled includes the *hyperref* package to provide links within the document[5] and to other references on the web.[6] These have different colours, as follows:

Citation links from the year of a citation to its reference in the bibliography.

URL often web links, particularly to websites, DOI links, LSID with the address fully written.

LSID link to a ZooBank LSID for an act.

5 e.g. citations and sections

6 e.g. LSIDs and DOIs

List of Species

ICHTHYOSAUROMORPHA Motani et al., 2015

HUPEHSUCHIA Carroll & Dong, 1991

Eohupehsuchus brevicollis Chen et al, 2014*a*

*	2014*a*	*Eohupehsuchus brevicollis* Chen et al.	p 4 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Yangping, Yuan'an County, Hubei Province, China].

Eretmorhipis carrolldongi Chen et al., 2015

	1991	Hupehsuchia n. g., n. s.	p 143 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Tuling, Baihechuan, Xunjian District, Nanzhang County, Hubei Province, China].
*	2015	*Eretmorhipis carrolldongi* Chen et al.	p 4 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Yingzhishang, Yuan'an County, Hubei Province, China].

Hupehsuchus nanchangensis Young & Dong, 1972

Nanchangosaurus suni Wang, 1959

Parahupehsuchus longus Chen et al., 2014*b*

ICHTHYOSAURIFORMES Motani et al., 2015

Acamptonectes densus Fischer *et al.*, 2012

URN:LSID:ZOOBANK.ORG:ACT:AAB4BA7E-F53D-4962-8A9C-3240DFE2C4D8

v *	2012	*Acamptonectes densus* Fischer *et al.*, 2012 LSID	Fischer *et al.* p 3 [Speeton Clay Formation, *Simbiskites concinnus/staffi* ammonite biozones (basal–upper Hauterivian, Lower Cretaceous, Cretaceous); Speeton, Yorkshire, U.K. and Cremlingen, Lower Saxony, Germany.] URN:LSID:ZOOBANK.ORG:PUB:66B3821A-1025-48DC-9C5F-7E6277FFD975

Aegirosaurus leptospondylus (Wagner, 1853)

*	1853	*Ichthyosaurus leptospondylus* Wagner, 1853	Wagner [Solnhofen Formation (Lower Tithonian, Upper Jurassic, Jurassic); Germany.]
	2000	*Aegirosaurus leptospondylus* (Wagner, 1853)	Bardet & Fernández p 504 [Malm ζ 2b, Solnhofen Formation (early Lower Tithonian, Upper Jurassic, Jurassic); Borscheim, Schrandel quarry district; Bavaria, Germany.]

Acuetzpalin carranzai Barrientos-Lara *et al.*, 2020

URN:LSID:ZOOBANK.ORG:ACT:90130A25-6901-4DA6-84B8-D0680DF9BCAB

*	2020	*Acuetzpalin carranzai* Barrientos-Lara *et al.*, 2020 LSID	Barrientos-Lara *et al.* p 3 [La Casita Formation (Kimmeridgian, Upper Jurassic, Jurassic); Cerro de Palotes, near of Cuencamé, Durango state, Northeast Mexico.] URN:LSID:ZOOBANK.ORG:PUB:2287DBB3-3E85-409D-9D97-A946DE865FCB

Arthropterygius chrisorum (Russell, 1993)

*	1993	*Ophthalmosaurus chrisorum* Russell, 1993	Russell p 198 [Ringnes Formation (Oxfordian–Kimmeridgian, Upper Jurassic, Jurassic); Cape Grassy, Melville Island, Canada (UTM WGS84 12X 433220 8453461 = 76° 9′ 4″ N 113° 30′ W).]
?	2017	*Keilhauia nui* Delsett *et al.*, 2017	Delsett *et al.* p 7 [Slottsmøya Member, Agardfjellet Formation (early Berriasian, Lower Cretaceous, Cretaceous); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518847 8696044).] *fide* Zverkov & Prilepskaya (2019)
p	2018	*Palvennia hoybergeti* Druckenmiller *et al.*, 2012	Delsett *et al.* p 8 [UTM WGS84 33X 0519622 8695649] PMO 222.669 *fide* Zverkov & Prilepskaya (2019)
	2019	*Arthropterygius chrisorum* (Russell, 1993)	Zverkov & Prilepskaya p 15

Arthropterygius hoybergeti (Druckenmiller *et al.*, 2012)

URN:LSID:ZOOBANK.ORG:ACT:03BA5E23-17B5-4AB1-B98A-681B9968A3F9

*	2012	*Palvennia hoybergeti* Druckenmiller *et al.*, 2012 LSID	Druckenmiller *et al.* p 326 [Slottsmøya Member, Agardfjellet Formation (Middle Volgian, Upper Jurassic, Jurassic); Spitsbergen, Svalbard (UTM WGS84 33X 0518775 8696150).] URN:LSID:ZOOBANK.ORG:PUB:8791DF9D-E15B-4470-A02A-F05ECC3BB7D6
p	2018	*Palvennia hoybergeti* Druckenmiller *et al.*, 2012	Delsett *et al.* p 8 [UTM WGS84 33X 0519622 8695649]
	2019	*Arthropterygius hoybergeti* (Druckenmiller *et al.*, 2012)	Zverkov & Prilepskaya p 31

Arthropterygius lundi (Roberts *et al.*, 2014)

URN:LSID:ZOOBANK.ORG:ACT:71E65B35-7215-44AA-BCE7-E9A3B265E04F

*	2014	*Janusaurus lundi* Roberts *et al.*, 2014 LSID	Roberts *et al.* p 4 [Slottsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 518821 8696195 = 78° 20.264′ N 15° 50.044′ E).] URN:LSID:ZOOBANK.ORG:PUB:FF4834F1-AEED-4B08-8E74-7125801C1B3E *fide* Zverkov & Prilepskaya (2019)
	2016	*Janusaurus lundi* Roberts *et al.*, 2014	Delsett *et al.*
	2017	*Janusaurus lundi* Roberts *et al.*, 2014	Delsett *et al.*
	2019	*Arthropterygius lundi* (Roberts *et al.*, 2014)	Zverkov & Prilepskaya p 40

Arthropterygius thalassonotus Campos *et al.*, 2019

URN:LSID:ZOOBANK.ORG:ACT:3F09C714-961C-433C-B056-DFD3F8E3B5CD

*	2019	*Arthropterygius thalassonotus* Campos *et al.*, 2019 LSID	Campos *et al.* p 184 [Vaca Muerta Formation (late Tithonian, Upper Jurassic, Jurassic); Yesera del Tromen–Pampa Tril area, north-western Neuquén Province, Argentina.] URN:LSID:ZOOBANK.ORG:PUB:A668AA96-CE4F-442E-AD3E-B757AD580CFC

Athabascasaurus bitumineus Druckenmiller & Maxwell, 2010

URN:LSID:ZOOBANK.ORG:ACT:1CE8B3C1-8771-443A-8831-00025FB84CA6

v *	2010	*Athabascasaurus bitumineus* Druckenmiller & Maxwell, 2010 LSID	Druckenmiller & Maxwell p 1039 [Wabiskaw Member, Clearwater Formation (lowermost Albian, Lower Cretaceous, Cretaceous); 35 km north of Fort McMurray, Alberta, Canada (UTM WGS84 12V 459464 6317120 = 56° 59′ 45″ N 111° 40′ 02″ W).] URN:LSID:ZOOBANK.ORG:PUB:2540811F-95E5-45BB-9B32-8E0416F61681

Barracudasauroides panxianensis (Jiang *et al.*, 2006)

URN:LSID:ZOOBANK.ORG:ACT:05C7C635-6E53-4070-8856-047553A6B0BF

*	2006	*Mixosaurus panxianensis* Jiang *et al.*, 2006 LSID	Jiang *et al.* p 62 [Upper Member, Guanling Formation, *Nicoraella germanicus* Conodont Biozone (Pelsonian, Anisian, Middle Triassic, Triassic); Yangjuan Village, Xinmin District, Panxian County, Guizhou Province, China.] URN:LSID:ZOOBANK.ORG:PUB:A3ED6813-7AA8-47CA-8197-04CA562417DF
	2010	*Barracudasauroides panxianensis* (Maisch, 2010)	Maisch p 161

Besanosaurus leptorhynchus Dal Sasso & Pinna, 1996

URN:LSID:ZOOBANK.ORG:ACT:47C32E1B-18FE-40CF-B98E-E9A537601E43

*	1996	*Besanosaurus leptorhynchus* Dal Sasso & Pinna, 1996 LSID	Dal Sasso & Pinna p 4 [Besano Formation, *Nevadites secedensis* Ammonite Biozone (Ilyrian,Anisian, Middle Triassic, Triassic); Sasso Caldo quarry, Besano, Varese Province, Lombardy, Northern Italy.] URN:LSID:ZOOBANK.ORG:PUB:EEA0F11C-D7BF-41BE-856E-DC2F3599273A

Brachypterygius alekseevi (Arkhangelsky, 2001)

*	2001	*Otschevia alekseevi* Arkhangelsky, 2001	Arkhangelsky p 629 [*Dorsoplanites panderi* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Volga River, 18 km north of Ulyanovsk, Ulyanovsk District, Ulyanovsk Region, Russian.]
	2010	*Brachypterygius alekseevi* (Arkhangelsky, 2001)	Maisch p 167
	2015	*Grendelius alekseevi* (Zverkov *et al.*, 2015)	Zverkov *et al.* p 562

Brachypterygius extremus (Boulenger, 1904)

URN:LSID:ZOOBANK.ORG:ACT:5B04A1AF-9081-417D-9BFC-DC3AFA6DAAE3

v *	1904	*Ichthyosaurus extremus* Boulenger, 1904 LSID	Boulenger p 425 [Kimmeridge Clay Formation (Kimmeridgian–Tithonian, Upper Jurassic, Jurassic); Smallmouth Sands, Weymouth, Dorset, U.K.] URN:LSID:ZOOBANK.ORG:PUB:98E5CD50-9FAF-458D-9D0A-9464EF76F429
v	1922	*Brachypterygius extremus* (Boulenger, 1904)	von Huene p 97 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE
v *	1976	*Grendelius mordax* McGowan, 1976	McGowan p 671 [Kimmeridge Clay Formation, *Aulacostephanus autissiodorensis* Ammonite Biozone (middle Kimmeridgian, Upper Jurassic, Jurassic); Stowbridge, Norfolk, U.K. (UTM WGS84 31U 321960 5835045).]

Brachypterygius pseudoscythica (Efimov, 1998)

*	1998	*Otschevia pseudoscythica* Efimov, 1998	Efimov p 83 [*Ilowaiskya pseudoscythica* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Volga River, Ulyanovsk District, Ulyanovsk Region, Russia.]
	2000	*Brachypterygius psudoscythius* (Efimov, 1998) [*sic.*]	Maisch & Matzke p 79
	2015	*Grendelius pseudoscythicus* (Efimov, 1998) [*sic.*]	Zverkov *et al.* p 561

Californosaurus perrini (Merriam, 1902)

*	1902	*Shastasaurus perrini* Merriam, 1902	Merriam p 89 [Hosselkus Limestone Formation; Shasta County, California, U.S.A.]
	1905	*Delphinosaurus perrini* (Merriam, 1902)	Merriam p 24
	1934	*Californosaurus perrini* (Merriam, 1902)	Kuhn p 27 [*non Delphinosaurus* von Eichwald, 1853]

Callawayia neoscapularis (McGowan, 1994)

*	1994	*Shastasaurus neoscapularis* McGowan, 1994	McGowan p 170 [Pardonet Formation, *Epigondolella triangularis* Conodont Biozone (Norian, Upper Triassic, Triassic); Peace Reach, Williston Lake, British Columbia, Canada.]
	2000	*Callawayia neoscapularis* (McGowan, 1994)	Maisch & Matzke p 69 New combination takes priority over *Metashastasaurus* (Nicholls & Manabe, 2001, p. 1001).
	2001	*Metashastasaurus neoscapularis* (McGowan, 1994)	Nicholls & Manabe p 985 [Pardonet Formation (Norian, Upper Triassic, Triassic); Chicken Creek, British Columbia, Canada.]

Cartorhynchus lenticarpus Motani *et al.*, 2015

URN:LSID:ZOOBANK.ORG:ACT:FCCC9BB7-FD52-42F4-B2EC-B0B7E2A1CA32

*	2015	*Cartorhynchus lenticarpus* Motani *et al.*, 2015 LSID	Motani *et al.* p 485 [Upper Member, Nanlinghu Formation, *Subcolumbites* Ammonite Biozone (Olenekian, Lower Triassic, Triassic); Majishan Quarry, Chaohu City, Hefei, China (UTM WGS84 50R 577953 3499041 = 31° 37′ 26″ N 117° 49′ 19″ E).] URN:LSID:ZOOBANK.ORG:PUB:9CFFEE63-2B8A-4C01-B9C7-CD3C53D684F5

Caypullisaurus bonapartei Fernández, 1997

URN:LSID:ZOOBANK.ORG:ACT:046EED7E-C624-465F-B0D4-1BB782CCD97D

*	1997	*Caypullisaurus bonapartei* Fernández, 1997 LSID	Fernández p 480 [Vaca Muerta Formation, *Virgatosphinctes mendozanus* Ammonite Biozone (late Tithonian, Upper Jurassic, Jurassic); Cerro Lotena, Neuquén Province, northwest patagonia, Argentina (UTM WGS84 19H 442358 5661434 = 39° 11′ 40″ N 69° 40′ 03″ S).] URN:LSID:ZOOBANK.ORG:PUB:1A5DDCD0-1713-410A-AE1B-F02EA1F1DF77

Cetarthrosaurus walkeri Seeley, 1873
Chacaicosaurus cayi Fernández, 1994
Chaohusaurus chaoxianensis (Chen, 1985)
Chaohusaurus geishanensis Young & Dong, 1972
Chaohusaurus zhangjiawanensis Chen *et al.*, 2013
Contectopalatus atavus (Quenstedt, 1852)
Cymbospondylus buchseri Sander, 1989
Cymbospondylus nichollsi Fröbisch *et al.*, 2006
Cymbospondylus petrinus Leidy, 1868
Cymbospondylus piscosus? Leidy, 1868
Dearcmhara shawcrossi Brusatte *et al.*, 2015
Eurhinosaurus longirostris (Mantell, 1851)
Excalibosaurus costini McGowan, 1986
Gengasaurus nicosiai Paparella *et al.*, 2016
Grippia longirostris Wiman, 1929
Guizhouichthyosaurus tangae Yin *et al.*, 2000
Guizhouichthyosaurus wolonggangense (Chen *et al.*, 2007)
Gulosaurus helmi Cuthbertson *et al.*, 2013
Hauffiopteryx typicus Maisch, 2008
Himalayasaurus tibetensis Young & Dong, 1972
Hudsonelpidia brevirostris McGowan, 1995
Ichthyosaurus acutirostris Owen, 1840
Ichthyosaurus anningae Lomax & Massare, 2015
Ichthyosaurus breviceps Owen, 1881
Ichthyosaurus communis Conybeare, 1822
Ichthyosaurus conybeari Lydekker, 1888
Ichthyosaurus larkini Lomax & Massare, 2017
Ichthyosaurus somersetensis Lomax & Massare, 2017

Isfjordosaurus minor (Wiman, 1910)
Leninia stellans Fischer *et al.*, 2014*a*
Leptonectes moorei McGowan & Milner, 1999
Leptonectes solei (McGowan, 1993)
Leptonectes tenuirostris (Conybeare, 1822)
Macgowania janiceps (McGowan, 1996)
Maiaspondylus lindoei Maxwell & Caldwell, 2006
Malawania anachronus Fischer *et al.*, 2013
Mikadocephalus gracilirostris Maisch & Matzke, 1997
Mixosaurus cornalianus (Bassani, 1886)
Mixosaurus kuhnschneyderi (Brinkmann, 1998)
Mixosaurus xindianensis Chen & Cheng, 2010
Mollesaurus pariallus Fernández, 1999
Muiscasaurus catheti Maxwell *et al.*, 2016

*	2016	*Muiscasaurus catheti* Maxwell *et al.*, 2016	Maxwell *et al.* p 61 [Arcillolitas abigarradas Member, Paja Formation (Barremian–Aptian, Lower Cretaceous, Cretaceous); Vereda Llanitos, Sachica, Boyaca, Colombia (UTM WGS84 18N 662860 616018 = 05° 34.278′ N 73° 31.781′ W).]

Nannopterygius enthekiodon (Hulke, 1871)

URN:LSID:ZOOBANK.ORG:ACT:8467F95F-AC53-4EA7-9612-230E9222A6FC

v *	1871	*Ichthyosaurus enthekiodon* Hulke, 1871 LSID	Hulke p 441 [Kimmeridge Clay Formation (Kimmeridgian–Tithonian, Upper Jurassic, Jurassic); Kimmeridge Bay, Dorset, U.K.] URN:LSID:ZOOBANK.ORG:PUB:4F0E90D0-27FF-409A-9CD5-976F182B8B4C
	1922	*Nannopterygius enthekiodon* (Hulke, 1871)	von Huene p 98 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE

Nannopterygius saveljeviensis (Arkhangelsky, 1997)

*	1997	*Paraophthalmosaurus savejeviensis* Arkhangelsky, 1997	Arkhangelsky p 88
	1999*a*	*Yasykovia kabanovi* Efimov, 1999*a*	Efimov p 98
	2020	*Nannopterygius savejeviensis* (Arkhangelsky, 1997)	Zverkov & Jacobs p 246 [Volgian, Upper Jurassic, Jurassic.]

Nannopterygius yasykovi (Efimov, 1999*a*)

*	1999*a*	*Yasykovia sumini* Efimov, 1999*a*	Efimov p 98

Ophthalmosaurus icenicus Seeley, 1874

URN:LSID:ZOOBANK.ORG:ACT:F598EAB9-08BF-44CF-BBF3-BB940BD24DBE

v *	1874	*Ophthalmosaurus icenicus* Seeley, 1874 LSID	Seeley p 707 [Peterborough Member, Oxford Clay Formation (Callovian, Middle Jurassic, Jurassic); Peterborough, Cambridgeshire.] URN:LSID:ZOOBANK.ORG:PUB:4C83C9B2-665D-4AD7-8AF8-D365E5491831

Ophthalmosaurus natans (Marsh, 1879)
Parvinatator wapitiensis Nicholls & Brinkman, 1995
Pervushovisaurus bannovkensis Arkhangelsky, 1998
Pervushovisaurus campylodon (Carter, 1846)

*	1846	*Ichthyosaurus campylodon* Carter, 1846	Carter p 60 [Upper Greensand Formation (Albian–Cenomanian, Lower–Upper Cretaceous, Cretaceous); Cambridge, Cambridgeshire, U.K.]
	1922	*Myopterygius campylodon* (Carter, 1846)	von Huene p 98 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE
	1972	*Platypterygius campylodon* (Carter, 1846)	McGowan p 17
	2016	*Pervushovisaurus campylodon* (Carter, 1846)	Fischer p 8

Pessopteryx nisseri Wiman, 1910
Phalarodon callawayi Schmitz *et al.*, 2004
Phalarodon fraasi Merriam, 1910
Phalarodon major von Huene, 1916
Phantomosaurus neubigi (Sander, 1997)
Platypterygius hercynicus Kuhn, 1946

Platypterygius americanus Nace, 1939

*	1939	*Myopterygius americanus* Nace, 1939	Nace p 674 [Mowry Shale Member, Graneros Formation; Crook County Wyoming, U.S.A.]
	1968	*Myopterygius americanus* Nace, 1939	Romer p 27 [Mowry Shale Member, Graneros Formation; Osage, Wyoming, U.S.A.]
	1972	*Platypterygius americanus* (Nace, 1939)	McGowan p 17

Platypterygius australis (M'Coy, 1867)
Platypterygius hauthali (von Huene, 1927)
Platypterygius ochevi Arkhangelsky *et al.*, 2008
Platypterygius platydactylus (Broili, 1907)

	1922	*Platypterygius platydactylus* (Broili, 1907)	von Huene p 99 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE

Platypterygius sachicarum Páramo, 1997
Protoichthyosaurus applebyi Lomax *et al.*, 2017
Protoichthyosaurus prostaxalis Appleby, 1979
Qianichthyosaurus xingyiensis Yang *et al.*, 2013
Qianichthyosaurus zhoui Li, 1999
Quasianosteosaurus vikinghoegdai Maisch & Matzke, 2003
Sclerocormus parviceps Jiang *et al.*, 2016
Shastasaurus alexandrae Merriam, 1902
Shastasaurus liangae (Yin *et al.*, 2000)
Shastasaurus pacificus Merriam, 1895
Shastasaurus sikkaniensis (Nicholls & Manabe, 2004)
Shonisaurus popularis Camp, 1976
Simbirskiasaurus birjukovi Otschev & Efimov, 1985
Sisteronia seeleyi Fischer *et al.*, 2014*b*
Stenopterygius aaleniensis Maxwell *et al.*, 2012
Stenopterygius quadriscissus (Quenstedt, 1858)
Stenopterygius triscissus (Quenstedt, 1858)
Stenopterygius uniter von Huene, 1931*b*
Suevoleviathan disinteger (von Huene, 1926)
Suevoleviathan integer (Bronn, 1844)
Sveltonectes insolitus Fischer *et al.*, 2011
Temnodontosaurus azerguensis Martin *et al.*, 2012
Temnodontosaurus crassimanus (Blake, 1876)
Temnodontosaurus eurycephalus McGowan, 1974
Temnodontosaurus nuertingensis (von Huene, 1931*a*)
Temnodontosaurus platyodon (Conybeare, 1822)
Temnodontosaurus trigonus (von Theodori, 1843)
Thaisaurus chonglakmanii Mazin *et al.*, 1991
Thalattoarchon saurophagis Fröbisch *et al.*, 2013
Tholodus schmidi von Meyer, 1849
Toretocnemus californicus Merriam, 1903
Toretocnemus zitteli (Merriam, 1903)
Undorosaurus gorodischensis Efimov, 1999*b*

*	1999*b*	*Undorosaurus gorodischensis* Efimov, 1999*b*	Efimov p 52 [*Epivirgatites nikitini* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Undory, Volga Oblast, Russia.]
	2012	*Cryopterygius kristiansenae* Druckenmiller *et al.*, 2012 LSID	Druckenmiller *et al.* p 313 [Slottsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518842 8696067).] URN:LSID:ZOOBANK.ORG:PUB:8791DF9D-E15B-4470-A02A-F05ECC3BB7D6 *fide* Zverkov & Efimov (2019)
	2019	*Undorosaurus gorodischensis* Efimov, 1999*b*	Zverkov & Efimov p 1189

Undorosaurus kielanae (Tyborowski, 2016)

*	2016	*Cryopterygius kielanae* Tyborowski, 2016	Tyborowski p 793 [Sławno Limestone Member, Kcynia Formation (uppermost Lower Tithonian = Middle Volgian, Upper Jurassic, Jurassic); Owadów-Brzezinki Quarry, Sławno (UTM WGS84 34U 439831 5692022 = 51.3762583 N 20.1355167 E).]
?	2019	*Undorosaurus kielanae* (Tyborowski, 2016)	Zverkov & Efimov p 1187

Undorosaurus nessovi Efimov, 1999*b*
Undorosaurus trautscholdi Arkhangelsky & Zverkov, 2014
Utatsusaurus hataii Shikama *et al.*, 1978
Wahlisaurus massarae Lomax, 2016

*	2016	*Wahlisaurus massarae* Lomax, 2016	Lomax p 388 [Barnstone Member?, Scunthorpe Mudstone Formation?, Pre-*planorbis* or *Psiloceras planorbis* beds (lowermost Hettangian, Lower Jurassic, Jurassic); Normanton Hills near Normanton on Soar, Nottinghamshire, U.K.]

Wimanius odontopalatus Maisch & Matzke, 1998
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