

Ichthyosauromorph taxonomy

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ICHTHYOSAURIMORPHA Motani et al., 2015

HUPEHSUCHIA Carroll & Dong, 1991

Eohupehsuchus brevicollis Chen et al, 2014b

* 2014b *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., 2014a

ICHTHYOSAURIFORMES Motani et al., 2015

Acamptonectes densus Fischer et al., 2012

v * 2012 *Acamptonectes densus* Fischer et al., 2012 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.]

Aegirosaurus leptospondylus (Wagner, 1853)

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

Acuetzpalin carranzai Barrientos-Lara et al., 2020

* 2020 *Acuetzpalin carranzai* Barrientos-Lara et al., 2020 Barrientos-Lara et al., p 3 [La Casita Formation (Kimmeridgian, Upper Jurassic, Jurassic); Cerro de Palotes, near of Cuencamé, Durango state, Northeast Mexico.]

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 [Slotsmøya Member, Agardfjellet Formation (early Berriasian, Lower Cretaceous, Cretaceous); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518847 8696044).] *vide* Zverkov and Prilepskaya (2019)
p 2018 *Palvennia hoybergeti* Druckenmiller et al., 2012 Delsett et al., p 8 [UTM WGS84 33X 0519622 8695649] PMO 222.669 *vide* Zverkov and Prilepskaya (2019)

2019 *Arthropterygius chrisorum* (Russell, 1993) Zverkov and Prilepskaya, p 15

Arthropterygius hoybergeri (Druckenmiller et al., 2012)

- * 2012 *Palvennia hoybergeri* Druckenmiller et al., 2012 Druckenmiller et al., p 326 [Slottsmøya Member, Agardfjellet Formation (Middle Volgian, Upper Jurassic, Jurassic); Spitsbergen, Svalbard (UTM WGS84 33X 0518775 8696150).]
- p 2018 *Palvennia hoybergeri* Druckenmiller et al., 2012 Delsett et al., p 8 [UTM WGS84 33X 0519622 8695649]
- 2019 *Arthropterygius hoybergeri* (Druckenmiller et al., 2012) Zverkov and Prilepskaya, p 31

Arthropterygius lundii (Roberts et al., 2014)

- * 2014 *Janusaurus lundii* Roberts et al., 2014 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).] *fide* Zverkov and Prilepskaya (2019)
- 2016 *Janusaurus lundii* Roberts et al., 2014 Delsett et al., p
- 2017 *Janusaurus lundii* Roberts et al., 2014 Delsett et al., p
- 2019 *Arthropterygius lundii* (Roberts et al., 2014) Zverkov and Prilepskaya, p 40

Athabascasaurus bitumineus Druckenmiller and Maxwell, 2010

- v * 2010 *Athabascasaurus bitumineus* Druckenmiller and Maxwell, 2010 Druckenmiller and 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).]

Barracudasauroides panxianensis (Jiang et al., 2006)

- * 2006 *Mixosaurus panxianensis* Jiang et al., 2006 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.]
- 2010 *Barracudasauroides panxianensis* (Maisch, 2010) Maisch, p 161

Besanosaurus leptorhynchus Dal Sasso and Pinna, 1996

- * 1996 *Besanosaurus leptorhynchus* Dal Sasso and Pinna, 1996 Dal Sasso and Pinna, p 4 [Besano Formation, *Nevadites secedensis* Ammonite Biozone (Ilyrian, Anisian, Middle Triassic, Triassic); Sasso Caldo quarry, Besano, Varese Province, Lombardy, Northern Italy.]

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)

- v * 1904 *Ichthyosaurus extremus* Boulenger, 1904 Boulenger, p 425 [Kimmeridge Clay Formation (Kimmeridgian-Tithonian, Upper Jurassic, Jurassic); Smallmouth Sands, Weymouth, Dorset, U.K.]
- v 1922 *Brachypterygius extremus* (Boulenger, 1904) von Huene, p 97
- 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 [*Illovaishya pseudoscythica* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Volga River, Ulyanovsk District, Ulyanovsk Region, Russia.]
- 2000 *Brachypterygius pseudoscythius* (Efimov, 1998) [sic.] Maisch and Matzke, p 79

2015 *Grendelius pseudoscythicus* (Efimov, 1998) Zverkov et al., p 561
[sic.]

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* 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 and Matzke, p 69 New combination takes priority over *Metashastasaurus* (Nicholls and Manabe, 2001, p. 1001).
- 2001 *Metashastasaurus neoscapularis* (McGowan, 1994) Nicholls and Manabe, p 985 [Pardonet Formation (Norian, Upper Triassic, Triassic); Chicken Creek, British Columbia, Canada.]

Cartorhynchus lenticarpus Motani et al., 2015

Caypullisaurus bonapartei Fernández, 1997

Cetarthrosaurus walkeri Seeley, 1873

Chacaicosaurus cayi Fernández, 1994

Chaohusaurus chaoxianensis (Chen, 1985)

Chaohusaurus geishanensis Young and 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 and Dong, 1972

Hudsonelpidia brevirostris McGowan, 1995

Ichthyosaurus acutirostris Owen, 1840

Ichthyosaurus anningae Lomax and Massare, 2015

Ichthyosaurus breviceps Owen, 1881

Ichthyosaurus communis Conybeare, 1822

Ichthyosaurus conybeari Lydekker, 1888

Ichthyosaurus larkini Lomax and Massare, 2017

Ichthyosaurus somersetensis Lomax and Massare, 2017

Isfjordosaurus minor (Wiman, 1910)

Leninia stellans Fischer et al., 2014a

Leptonectes moorei McGowan and Milner, 1999

Leptonectes solei (McGowan, 1993)

Leptonectes tenuirostris (Conybeare, 1822)

Macgowania janiceps (McGowan, 1996)

Maiaspondylus lindoei Maxwell and Caldwell, 2006

Malawania anachronus Fischer et al., 2013

Mikadocephalus gracilirostris Maisch and Matzke, 1997

Mixosaurus cornalianus (Bassani, 1886)

Mixosaurus kuhnschneyderi (Brinkmann, 1998)

Mixosaurus xindianensis Chen and 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)

Nannopterygius saveljeviensis (Arkhangelsky, 1997)

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

Nannopterygius yasykovi (Efimov, 1999b)

- * 1999b *Yasykovia sumini* Efimov, 1999b Efimov, p 98

Ophthalmosaurus icenicus Seeley, 1874

- v * 1874 *Ophthalmosaurus icenicus* Seeley, 1874 Seeley, p 707 [Peterborough Member, Oxford Clay Formation (Callovian, Middle Jurassic, Jurassic); Peterborough, Cambridgeshire.]

Ophthalmosaurus natans (Marsh, 1879)

Parvinatator wapitiensis Nicholls and Brinkman, 1995

Pervushovisaurus bannovkensis Arkhangelsky, 1998

Pervushovisaurus campylodon (Carter, 1846)

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| <p>* 1846 <i>Ichthyosaurus campylodon</i> Carter, 1846</p> <p>1922 <i>Myopterygius campylodon</i> (Carter, 1846)</p> <p>1972 <i>Platypterygius campylodon</i> (Carter, 1846)</p> <p>2016 <i>Pervushovisaurus campylodon</i> (Carter, 1846)</p> | <p>Carter, p 60 [Upper Greensand Formation (Albian–Cenomanian, Lower–Upper Cretaceous, Cretaceous); Cambridge, Cambridgeshire, U.K..]</p> <p>von Huene, p 98</p> <p>McGowan, p 17</p> <p>Fischer, p 8</p> |
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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

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| <p>* 1939 <i>Myopterygius americanus</i> Nace, 1939</p> <p>1968 <i>Myopterygius americanus</i> Nace, 1939</p> <p>1972 <i>Platypterygius americanus</i> (Nace, 1939)</p> | <p>Nace, p 674 [Mowry Shale Member, Graneros Formation; Crook County Wyoming, U.S.A..]</p> <p>Romer, p 27 [Mowry Shale Member, Graneros Formation; Osage, Wyoming, U.S.A..]</p> <p>McGowan, p 17</p> |
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Platypterygius australis (M'Coy, 1867)

Platypterygius hauthali (von Huene, 1927)

Platypterygius ochevi Arkhangelsky et al., 2008

Platypterygius platydactylus (Broili, 1907)

Platypterygius sachicarum Páramo, 1997

Protoichthyosaurus applebyi Lomax et al., 2017

Protoichthyosaurus prosaxalis Appleby, 1979

Qianichthyosaurus xingyiensis Yang et al., 2013

Qianichthyosaurus zhoui Li, 1999

Quasianosteosaurus vikinghoegdai Maisch and 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 and Manabe, 2004)

Shonisaurus popularis Camp, 1976

Simbirskiasaurus birjukovi Otschev and Efimov, 1985

Sisteronia seeleyi Fischer et al., 2014b

Stenopterygius aaleniensis Maxwell et al., 2012

Stenopterygius quadriscissus (Quenstedt, 1858)

Stenopterygius triscissus (Quenstedt, 1858)

Stenopterygius uniter von Huene, 1931a

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, 1931b)

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, 1999a

- * 1999a *Undorosaurus gorodischensis* Efimov, 1999a Efimov, p 52 [*Epvirgatites nikitini* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Undory, Volga Oblast, Russia.]
- 2012 *Cryopterygius kristiansenae* Druckenmiller et al., 2012 Druckenmiller et al., p 313 [Slottsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518842 8696067).] *vide* Zverkov and Efimov (2019)
- 2019 *Undorosaurus gorodischensis* Efimov, 1999a Zverkov and Efimov, p 1189

Undorosaurus kielanae (Tyborowski, 2016)

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

Undorosaurus nessovi Efimov, 1999a

Undorosaurus trautscholdi Arkhangelsky and Zverkov, 2014

Utatusaurus 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 and Matzke, 1998

Xinminosaurus catactes Jiang et al., 2008

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