# *Ichthyosauromorph taxonomy*

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#### ICHTHYOSAUROMORPHA 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.

\* 2015 Eretmorhipis carrolldongi Chen et al.

p 143 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Tuling, Baihechuan, Xunjian District, Nanzhang County, Hubei Province, China].
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); Ger-

many.]

2000 Aegirosaurus leptospondylus (Wagner, 1853)

Bardet and Fernández, p 504 [Malm  $\zeta$  2b, Solnhofen Formation (early Lower Tithonian, Upper Jurassic, Jurassic); Borscheim, 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 [Slottsmøya Member, Agardfjellet Formation (early Berriasian, Lower Cretaceous, Cretaceous); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518847 8696044).] *fide* 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  $\it fide$  Zverkov and Prilepskaya (2019)

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

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

\* 2012 Palvennia hoybergeti Druckenmiller et al., Druckenmiller et al., p 326 [Slottsmøya Member, Agardfjellet Formation (Middle Volgian, Upper Jurassic, Jurassic); Spitsbergen, Svalbard (UTM WGS84 33X 0518775

2018 Palvennia hoybergeti Druckenmiller et al., Delsett et al., p 8 [UTM WGS84 33X 0519622 8695649]

2012

2019 Arthropterygius hoybergeti (Druckenmiller Zverkov and Prilepskaya, p 31 et al., 2012)

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

\* 2014 Janusaurus lundi 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)

2016Janusaurus lundi Roberts et al., 2014Delsett et al., p2017Janusaurus lundi Roberts et al., 2014Delsett et al., p

2019 Arthropterygius lundi (Roberts et al., 2014) Zverkov and Prilepskaya, p 40

#### Athabascasaurus bitumineus Druckenmiller and Maxwell, 2010

v \* 2010 Athabascasaurus bitumineus Druckenmiller 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 Con-

odont Biozone (Pelsonian, Anisian, Middle Triassic, Triassic); Yangjuan Village, Xinmin District, Panxian County, Guizhou Province, China.]

2010 Barracudasauroides panxianensis (Maisch, Maisch, p 161

Besanosaurus leptorhynchus Dal Sasso and Pinna, 1996

\* 1996 Besanosaurus leptorhynchus Dal Sasso and Dal Sasso and Pinna, p 4 [Besano Formation, Nevadites secedensis Ammonite Biozone Pinna, 1996 (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 Juras-

sic, Jurassic); Volga River, 18 km north of Ulyanovsk, Ulyanovsk District, Ulyanovsk

Region, Russian.]

2010 Brachypterygius alekseevi (Arkhangelsky, Maisch, p 167

2001)

2010)

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..]

1922 Brachypterygius extremus (Boulenger, 1904) von Huene, p 97

\* 1976 Grendelius mordax McGowan, 1976 McGowan, p 671 [Kimmeridge Clay Formation, Aulacostephanus autissiodorensis Ammonite Biozone (middle Kimmeridgian, Upper Jurassic, Jurassic); Stowbridge, Nor-

folk, 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) Maisch and Matzke, p 79

[sic.]

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 Kuhn, p 27 [non Delphinosaurus Eichwald, 1853] 1934 Californosaurus perrini (Merriam, 1902) 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, 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, Nicholls and Manabe, p 985 [Pardonet Formation (Norian, Upper Triassic, Triassic); Chicken Creek, British Columbia, Canada.] 1994) 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 =  $05^{\circ}$  34.278' N 73° 31.781' W).] Nannopterygius enthekiodon (Hulke, 1871) Nannopterygius saveljeviensis (Arkhangelsky, 1997) 1997 Paraophthalmosaurus savejeviensis Arkhangelsky, p 88 Arkhangelsky, 1997 1999b Yasykovia kabanovi Efimov, 1999b Efimov, p 98 2020 Nannopterygius savejeviensis (Arkhangelsky, 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

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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
    1972 Platypterygius campylodon (Carter, 1846)
                                               McGowan, p 17
                                               Fischer, p 8
    2016 Pervushovisaurus campylodon (Carter, 1846)
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
                                               Nace, p 674 [Mowry Shale Member, Graneros Formation; Crook County Wyoming,
   1939 Myopterygius americanus Nace, 1939
     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)
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
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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 [Epivirgatites nikitini Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Undory, Volga Oblast, Russia.] 2012 Cryopterygius kristiansenae Druckenmiller Druckenmiller et al., p ${\tt 313}$  [Slottsmøya Member, Agardfjellet Formation (middle et al., 2012 Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518842 8696067).] fide 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 [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 and Efimov, p 1187 Undorosaurus nessovi Efimov, 1999a Undorosaurus trautscholdi Arkhangelsky and 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 and Matzke, 1998

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Xinminosaurus catactes Jiang et al., 2008

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