The ETYFish Project
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Class MYXINI

Order MYXINIFORMES

Family MYXINIDAE Hagfishes

6 genera - 83 species

Subfamily Rubicundinae

Rubicundus Fernholm, Norén, Kullander, Quattrini, Zintzen, Roberts, Mok & Kuo 2013

reddish, emphasizing reddish coloration of all species

- Rubicundus eos (Fernholm 1991)
  after Eos, goddess of morning-glow, referring to its pink color

- Rubicundus lakeside (Mincarone & McCosker 2004)
  in honor of the Lakeside Foundation of California, for supporting Mincarone’s work

- Rubicundus lopheliae (Quattrini & Fernholm 2008)
  referring to Lophelia pertusa, the deep-sea, cold-water, habitat-forming coral where type was collected and observed

- Rubicundus rubicundus (Kuo, Lee & Mok 2010)
  reddish, referring to pink body coloration

Subfamily Eptatretinae

Eptatretus Cloquet 1819

hepta, seven; tretos, perforated, referring to seven pairs of gill apertures on what would later be described as Homea banksii (=E. cirrhatus) [range within genus is 6-14 pairs of gill apertures]

- Eptatretus aceroi Polanco Fernandez & Fernholm 2014
  in honor of marine biologist Arturo Acero Pizarro (b. 1954), Universidad Nacional de Colombia, for his “curiosity about, and important contributions to, the study of Colombian marine fishes”

- Eptatretus alastairi Mincarone & Fernholm 2010
  in honor of Alastair Graham (b. 1964), collection manager at CSIRO (Australia’s Commonwealth Scientific and Industrial Research Organisation), for help and hospitality offered to second author

- Eptatretus albiderma Song & Kim 2020
  albus, white; derma, skin, referring to whitish skin color

- Eptatretus ancon (Mok, Saavedra-Diaz & Acero P. 2001)
  referring to the research vessel B/I Ancon, from which type was captured

- Eptatretus astrolabium Fernholm & Mincarone 2010
  of Astrolabe Bay (Papua New Guinea), only known locality, which was named in 1827 by explorer Jules Sébastien César Dumont d’Urville after his vessel L’Astrolabe

- Eptatretus atami (Dean 1904)
  of Atami, west coast of Sagami Bay, Japan, type locality

- Eptatretus bischoffii (Schneider 1880)
  in honor of Schneider’s colleague, anatomist and biologist Theodor Ludwig Wilhelm Bischoff (1807-1882)

- Eptatretus bobwisneri Fernholm, Norén, Kullander, Quattrini, Zintzen, Roberts, Mok & Kuo 2013
  replacement name of E. wisneri McMillan 1999, which became a junior homonym of Paramyxine wisneri Kuo, Huang & Mok 1994 when Paramyxine was subsumed into Eptatretus; the name continues to honor Robert (“Bob”) L. Wisner (1921-2005), McMillan’s colleague at Scripps Institution of Oceanography, for “invaluable” assistance with her hagfish research and other contributions to ichthyology

- Eptatretus burgeri (Girard 1855)
  in honor of physicist and biologist Heinrich Bürger (ca. 1804-1858), who collected type

- Eptatretus caribbeaus Fernholm 1982
  Caribbean, specifically the western Caribbean, only known area of occurrence

- Eptatretus carlhubbsi McMillan & Wisner 1984
  a “giant hagfish” named in honor of a “giant in ichthyology,” Carl L. Hubbs (1894-1979)
**Eptatretus cheni** (Shen & Tao 1975)  
in honor of vertebrate zoologist Jian Shen ("Johnson") T. F. Chen (1898-1988), Director, National Taiwan Museum (Taipei), for "important" contributions to the taxonomy of Taiwanese fishes

**Eptatretus chinensis** Kuo & Mok 1994  
-ensis, suffix denoting place: China, specifically the South China Sea off southeastern Taiwan, type locality

**Eptatretus cirrhatus** (Forster 1801)  
having tendrils, i.e., being a species of "lamprey" with barbels

**Eptatretus cryptus** Roberts & Stewart 2015  
hidden or secret, referring to its similar morphology to *E. cirrhatus*, with which it has been confused in the past

**Eptatretus deani** (Evermann & Goldsborough 1907)  
in honor of ichthyologist Bashford Dean (1867-1928), American Museum of Natural History, for his work on the embryology of *E. stoutii*

**Eptatretus fernholmi** (Kuo, Huang & Mok 1994)  
in honor of Bo Fernholm (b. 1941), Swedish Museum of Natural History, for his contributions to hagfish biology

**Eptatretus fritzi** Wisner & McMillan 1990  
in honor of Frithjof (Fritz) Ohre, "friend, willing, eager, and industrious volunteer" who helped the authors collect specimens

**Eptatretus goliath** Mincarone & Stewart 2006  
giant; at 1275 mm TL and 6.2 kg, the largest known hagfish

**Eptatretus gomoni** Mincarone & Fernholm 2010  
in honor of Martin F. Gomon (b. 1943), senior curator of fishes, Museum of Victoria (Melbourne, Australia), for his "distinguished" contributions to ichthyology

**Eptatretus grouseri** McMillan 1999  
in honor of McMillan's son, David "Grouser" McMillan, a Chief Engineer in the U.S. Merchant Marine, for "continued encouragement" of Mom's hagfish studies and for his knowledge and love of ships and the sea

**Eptatretus hexatrema** (Müller 1836)  
*hexa*-, six; *trema*, hole, referring to six gill apertures per side

**Eptatretus indrambaryai** Wongratana 1983  
in honor of Boon Indrambarya, "one of the senior-most pioneer fisheries biologists of Thailand"

**Eptatretus laurahubbsae** McMillan & Wisner 1984  
in honor of Laura Clark Hubbs (1893-1988), friend and co-worker, who contributed to the life and works of her husband, Carl L. Hubbs (1894-1979)

**Eptatretus longipinnis** Strahan 1975  
*longus*, long; *pinnis*, fin, referring to well-developed ventral fin fold extending to branchial region

**Eptatretus luzonicus** Fernholm, Norén, Kullander, Quattrini, Zintzen, Roberts, Mok & Kuo 2013  
-*icus*, belonging to: Luzon Island, Philippines, where single known specimen was captured [replacement name of *E. fernholmi* McMillan & Wisner 2004, which became a junior homonym of *Paramyxine fernholmi* Kuo, Huang & Mok 1994 when *Paramyxine* was subsumed into *Eptatretus*]

**Eptatretus mcconnaugheyi** McMillan & Wisner 1990  
in honor of Ronald R. McConnaughey, who helped develop the gear used by the authors to capture type

**Eptatretus mccoskeri** McMillan 1999  
in honor of John E. McCosker (b. 1943), California Academy of Sciences, for collecting type and for his important contributions to marine biology

**Eptatretus mendozai** Hensley 1985  
in honor of Luis H. Mendoza, captain of boat from which type was captured, for his "experiential knowledge and academic curiosity of the sea, without whose determination and nautical wisdom" the author would never have collected type

**Eptatretus menezesi** Mincarone 2000  
in honor of Naércio Aquino Menezes (b. 1937), Museu de Zoologia da Universidade de São Paulo, for "his extensive contribution to Brazilian ichthyology"

**Eptatretus minor** Fernholm & Hubbs 1981  
small, referring to size of mature specimens when compared to *E. springeri*

**Eptatretus moki** (McMillan & Wisner 2004)  
in honor of Hin-kiu Mok (b. 1947), National Sun Yat-Sen University, Taiwan, for his many "outstanding" contributions to hagfish knowledge
**Eptatretus multidens** Fernholm & Hubbs 1981  
*multus*, many; *dens*, tooth, referring to high tooth count

**Eptatretus nanii** McMillan & Wisner 1988  
in honor of Alberto Nani Caputo, for his work on Chilean hagfishes, and for providing specimens

**Eptatretus nelsoni** (Kuo, Huang & Mok 1994)  
in honor of ichthyologist Gareth J. Nelson (b. 1937), American Museum of Natural History, for his contributions to the promotion of phylogenetic systematics

**Eptatretus octotrema** (Barnard 1923)  
*octa-*-, eight; *trema*, hole, referring to eight gill apertures per side

**Eptatretus okinoseanus** (Dean 1904)  
*-anus*, belonging to: Okinose, Honshu Island, Japan, type locality

**Eptatretus poicilus** Zintzen & Roberts 2015  
mottled or varicolored, referring to its distinctive mottled color pattern

**Eptatretus polytrema** (Girard 1855)  
*poly*, many; *trema*, hole, referring to 16 gill apertures per side

**Eptatretus profundus** (Barnard 1923)  
deep, referring to capture at 400 fathoms

**Eptatretus sheni** (Kuo, Huang & Mok 1994)  
in honor of Shih (or Shieh)-Chieh Shen, National Taiwan University, for his contributions to the knowledge of Taiwanese fishes

**Eptatretus sinus** Wisner & McMillan 1990  
gulf, referring to its apparent restriction to the midriff area of the Gulf of California, México

**Eptatretus springeri** (Bigelow & Schroeder 1952)  
in honor of shark expert Stewart Springer (1906-1991), "who discovered this interesting cyclostome"

**Eptatretus stoutii** (Lockington 1878)  
in honor of Arthur B. Stout (1814-1898), surgeon and corresponding secretary of the California Academy of Sciences

**Eptatretus strahani** McMillan & Wisner 1984  
in honor of Australian zoologist Ronald Strahan (1922-2010), for important contributions to the study of hagfishes

**Eptatretus strickrotti** Møller & Jones 2007  
in honor of DSV *Alvin* pilot Bruce Strickrott, who captured this and other mobile hydrothermal vent animals with a slurp gun

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**Eptatretus taiwanae** (Shen & Tao 1975)
of Taiwan, off the coasts of which this species occurs

**Eptatretus walkeri** (McMillan & Wisner 2004)
in honor of Harold J. Walker, Jr., Collection Manager, Scripps Institution of Oceanography, for help in providing hagfish specimens and data, and for contributions to ichthyology

**Eptatretus wandoensis** Song & Kim 2020
-ensis, suffix denoting place: Wando-gun, Jeollanam-do, Republic of Korea, type locality

**Eptatretus wayuu** Mok, Saavedra-Díaz & Acero P. 2001
referring to Wayuu aborigines who live on Guajira Peninsula (Colombia), type locality

**Eptatretus wisneri** (Kuo, Huang & Mok 1994)
in honor of Robert L. Wisner (1921-2005), Scripps Institution of Oceanography, for his contributions to hagfish biology

**Eptatretus yangi** (Teng 1958)
in honor of Hung-Jia Yang, hagfish biologist with the Fisheries Research Institute (Taiwan)

Subfamily Myxininae

**Myxine Linnaeus 1758**
ancient Greek word for a slimy fish: myxa, slime; -inus, one who, i.e., one who slimes or is slimy, referring to copious amounts of slime produced by *M. glutinosa*

**Myxine affinis** Günther 1870
related, presumably referring to similarity to *M. glutinosa*

**Myxine australis** Jenyns 1842
southern, referring to distribution in the Straits of Magellan

**Myxine capensis** Regan 1913
-ensis, suffix denoting place: the cape, referring to type locality, Cape of Good Hope

**Myxine circifrons** Garman 1899
circi-, round; frons, face, referring to rounded labrum, or lip, between anterior narial barbels

**Myxine debueni** Wisner & McMillan 1995
in honor of Spanish ichthyologist and oceanographer Fernando de Buen y Lozano (1895-1962), for his “extensive work” on South American fishes

**Myxine fernholmi** Wisner & McMillan 1995
in honor of Bo Fernholm (b. 1941), Swedish Museum of Natural History, for his work on hagfish anatomy, physiology and systematics

**Myxine formosana** Mok & Kuo 2001
-ana, belonging to: Formosa, or Taiwan, referring to type locality

**Myxine garmani** Jordan & Snyder 1901
in honor of Harvard ichthyologist-herpetologist Samuel Garman (1843-1927), for his “excellent work” on *Myxine*

**Myxine glutinosa** Linnaeus 1758
glutinous, referring to how it can turn water into slime

**Myxine hubbsi** Wisner & McMillan 1995
in honor of ichthyologist Carl L. Hubbs (1894-1979), “primarily for his foresight in instigating the worldwide study on hagfishes”

**Myxine hubbsoides** Wisner & McMillan 1995
-oides, having the form of: referring to similarity to *M. hubbsi*

**Myxine ios** Fernholm 1981
acronym for Institute of Oceanographic Sciences, Wormley, Surrey, England, which supplied type

**Myxine jespersenae** Møller, Feld, Poulsen, Thomsen & Thorø 2005
in honor of Danish biologist Åse Jespersen (b. 1955), for her contributions to the reproductive biology of hagfishes

**Myxine knappi** Wisner & McMillan 1995
in honor of Smithsonian ichthyologist Leslie W. Knapp (1929-2017), for supplying the authors with study material

**Myxine kuoi** Mok 2002
in honor of molecular biologist Chien-Hsien Kuo, National Chiayi University, Taiwan, for contributions to hagfish taxonomy
**Myxine limosa** Girard 1859
mud or muddy, referring to muddy ocean-bottom habitat

**Myxine mccoskeri** Wisner & McMillan 1995
in honor of John E. McCosker (b. 1945), California Academy of Sciences, for his work on Caribbean and Panamanian fishes, and for providing the type

**Myxine mcmillanae** Hensley 1991
in honor of Charmion B. McMillan (b. 1925), Scripps Institution of Oceanography, for her “fine” contributions to hagfish science

**Myxine paucidens** Regan 1913
paucus, few; dens, teeth, referring to 13 total teeth compared to 15-24 teeth in similar species

**Myxine pequenoi** Wisner & McMillan 1995
in honor of German Pequeño Reyes (b. 1941), Universidad Austral de Chile, for his work on Chilean fishes and for providing type

**Myxine robinsorum** Wisner & McMillan 1995
-arum, commemorative suffix, plural: in honor of C. Richard (b. 1928) and Catherine Robins, University of Kansas, for their works on the marine fauna of the tropical western Atlantic

**Myxine sotoi** Mincarone 2001
in honor of Jules Marcelo Rosa Soto (b. 1970), Universidade do Vale do Itajai, for his work on Brazilian marine fauna and for encouraging Mincarone to study hagfishes

**Nemamyxine** Richardson 1958
nema-, thread, i.e., a thin, elongated Myxine

**Nemamyxine elongata** Richardson 1958
elongate, referring to its extremely slender form

**Nemamyxine kreffti** McMillan & Wisner 1982
in honor of Gerhard Krefft (1912-1993), Institute für Seefischerei (Hamburg), on the occasion of his 70th birthday, for his many “valuable” contributions to oceanic ichthyology; Krefft also loaned specimen to authors

**Neomyxine** Richardson 1953
neos, new, i.e., a new genus of Myxine

**Neomyxine biniplicata** (Richardson & Jowett 1951)
binus, two by two; picata, folded, referring to paired fin-folds extending anteriorly from behind branchial apertures

**Neomyxine caesiovitta** Stewart & Zintzen 2015
caeo, blue gray; vitta, ribbon or band, referring to distinctive blue band along sides

**Notomyxine** Nani & Gneri 1951
notus, south, i.e., a southern Myxine (restricted to the Antarctic Ocean)

**Notomyxine tridentiger** (Garman 1899)
tri-, three; dent, teeth; -iger, to bear, referring to three united anterior oral cusps