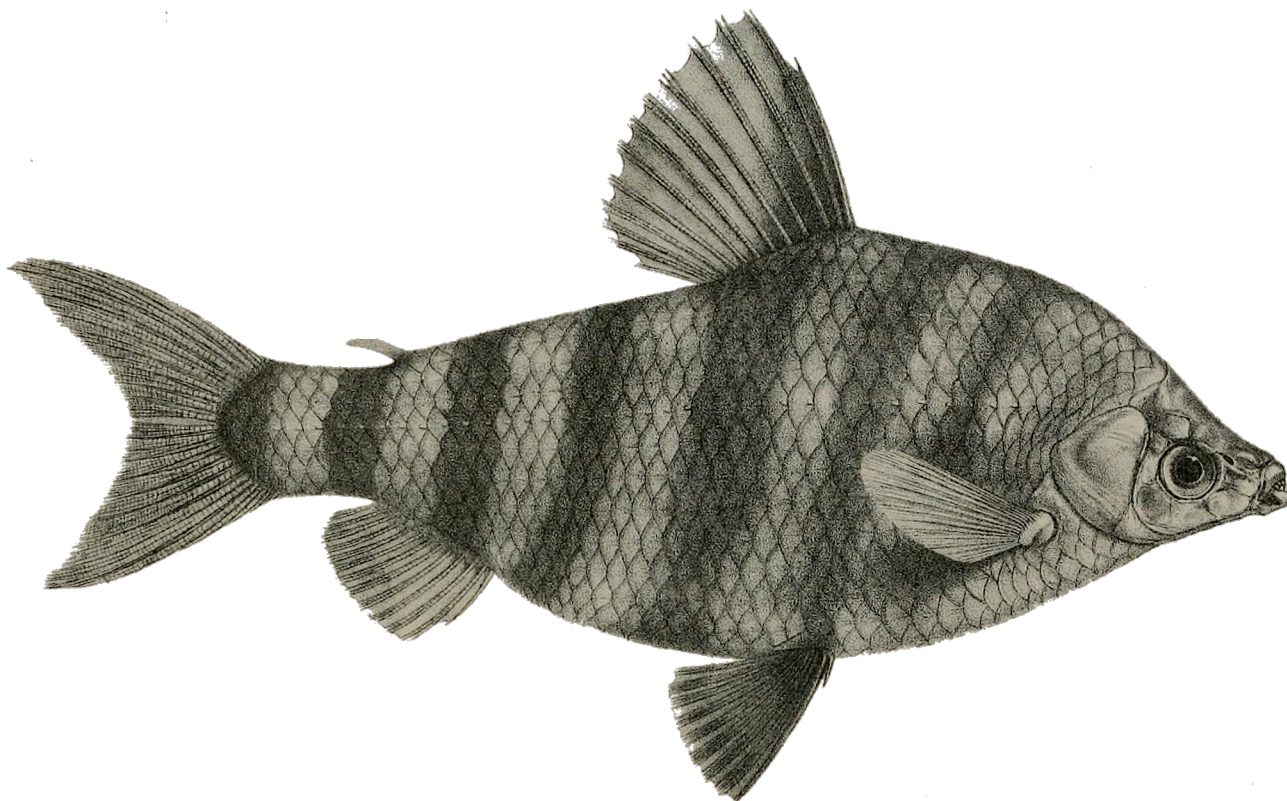


Order CHARACIFORMES

Toothed Headstanders

Family ANOSTOMIDAE

Günther 1864



First-published image of *Abramites hypselonotus*. Illustration by George Henry Ford. Günther, A. 1868. Descriptions of freshwater fishes from Surinam and Brazil. Proceedings of the Zoological Society of London 1868 (pt 2) (art. 5): 229–247, Pls. 20–22.

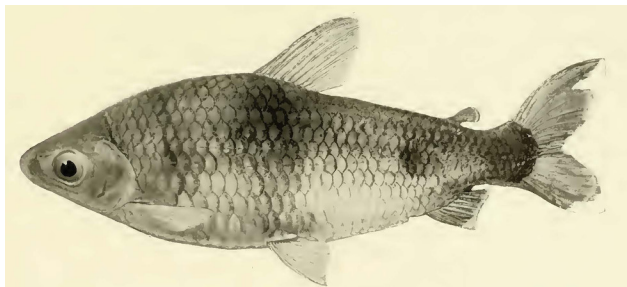
Abramites

Fowler 1906

-ites (Gr. *-ιδες*), like, referring to “superficial” resemblance to the Common Bream *Abramis brama* (Cypriniformes: Leuciscidae)

***Abramites eques* (Steindachner 1878)** Latin for horseman or rider, allusion not explained, probably referring to oblique saddle-like marking on sides (Steindachner used this name for two other characiforms with saddle-like markings, *Nannostomus eques* and *Hyphessobrycon eques*)

***Abramites hypselonotus* (Günther 1868)** high-backed, from *hypsēlós* (Gr. ὑψηλός), high, and *nōtos* (Gr. νότος), back, referring to its steeped dorsal profile, giving it a high-backed appearance



Possibly first-published image of *Anostomoides atrianalis* (as *Schizodontopsis laticeps*, a junior synonym). From: Eigenmann, C. H. 1912. The freshwater fishes of British Guiana, including a study of the ecological grouping of species, and the relation of the fauna of the plateau to that of the lowlands. Memoirs of the Carnegie Museum 5 (1): i–xxii + 1–578, Pls. 1–103.

Anostomoides

Pellegrin 1909

-oides, Neo-Latin from *eidos* (Gr. εἶδος), form or shape: “closely allied to *Anostomus*, but with different dentition” (translation)

***Anostomoides atrianalis* Pellegrin 1909** *atri-*, from *ater* (L.), black; *analis* (L.), anal, referring to blackish anal fin

Anostomus

Scopoli 1777

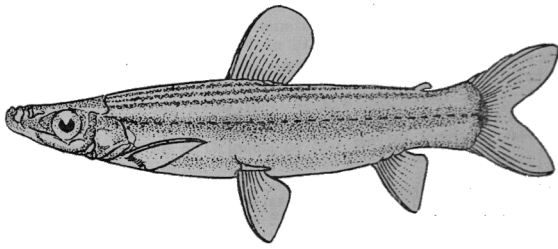
tautonymous with *Salmo anostomus* Linnaeus 1758, from *ano-* (Gr. ἀνά), up or upward, and *stōma* (Gr. στόμα), mouth, referring to its upturned (superior) mouth

***Anostomus anostomus* (Linnaeus 1758)** upward-mouthed, from *ano-* (Gr. ἀνά), up or upward, and *stōma* (Gr. στόμα), mouth, referring to its upturned (superior) mouth

***Anostomus brevior* Géry 1961** Latin for shorter, referring to its shorter body depth compared with *A. anostomus*

***Anostomus longus* Géry 1961** Latin for long, referring to its more elongate shape compared with *A. anostomus*

***Anostomus ternetzi* Fernández-Yépez 1949** in honor of Swiss-born ichthyologist and naturalist Carl Ternetz (1870–1928), who collected holotype



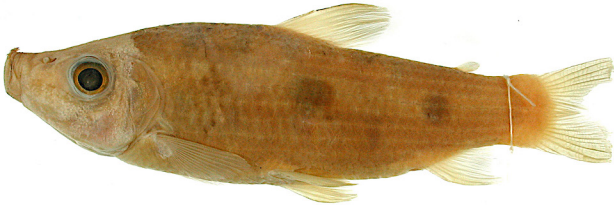
Anostomus ternetzi. From: Fernández-Yépez, A. 1949. *Anostomus ternetzi* nuevo anostomido de Sur America, colectado en Palital, Estado Guarico, Venezuela. Boletín de la Sociedad Venezolana de Ciencias Naturales 11 (74): 293–295, Pls. 1–4.

Gnathodolus

Myers 1927

gnáthos (Gr. γνάθος); *dólus* (Gr. δόλος), trap, referring to lower jaw, which folds upward to close or seal the mouth

Gnathodolus bidens Myers 1927 *bi-*, from *bis* (L.), twice; *dens* (L.), tooth, referring to two hooked, projecting teeth at tip of lower jaw



Gnathodolus bidens, holotype, collected by Carl Ternetz, 13 March 1925. From California Academy of Sciences Type Imagebase. CAS 20087 (ex IU 17670).

Hypomasticus

Borodin 1929

hypó (Gr. ὑπό), less than, under or beneath; *masticus*, from *mastáx* (Gr. μαστάξ), “that with which one chews” (i.e., mouth), referring to inferior mouth of *H. mormyrops*

Hypomasticus copelandii (Steindachner 1875) patronym not identified, probably in honor of Edward Copeland, a Boston volunteer on the Thayer Expedition to Brazil (1865–1866), during which holotype was collected (perhaps the same person as Herbert Copeland; see *Hyphe-sobrycon copelandi* in Characidae: Stethaprioninae)

Hypomasticus despaxi (Puyo 1943) in honor of French zoologist Raymond Despax (1886–1950), University of Toulouse, where Puyo studied

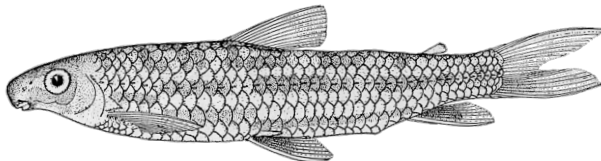
Hypomasticus julii (Santos, Jégu & Lima 1996) in honor of Brazilian ichthyologist Júlio Garavello, Universidade Federal de São Carlos, for his contributions to the taxonomy of anostomids

Hypomasticus lineomaculatus Birindelli, Peixoto, Wosiacki & Britski 2013 *lineo*, from *linea* (L.), line; *maculatus* (L.), spotted, referring to two rows of longitudinally aligned dark blotches on body

Hypomasticus megalepis (Günther 1863) *mégas* (Gr. μέγας), big; *lepis* (Gr. λεπίς), scale, referring to its larger scales compared with *Leporinus friderici* (considered congeneric at the time)

Hypomasticus mormyrops (Steindachner 1875) *óps* (Gr. ὤψ), face or appearance, referring to the resemblance of its fleshy snout to that of African osteoglossiform genus *Mormyrus* (Mormyridae)

Hypomasticus pachycheilus (Britski 1976) thick-lipped, from *pachýs* (Gr. παχύς), thick, and *cheílos* (Gr. χεῖλος), lip, referring to its “lábios grossos”



Hypomasticus pachycheilus. From: Britski, H. A. 1976. Sobre uma nova espécie *Leporinus* da Amazônia. Acta Amazonica 6 (4) (Supl.): 87–89.

Hypomasticus santanae Birindelli & Melo 2020 in honor of Edson Santana, a technician at the Museu de Zoologia da Universidade Estadual de Londrina (MZUEL, Paraná, Brazil) since 1993 and member of expedition during which holotype was collected, for his help in collecting fishes, preparing vertebrate specimens, and maintaining the collections of the MZUEL; his “enthusiasm captivated generations of staff and students of the MZUEL”

Hypomasticus steindachneri (Eigenmann 1907) in honor of Austrian ichthyologist Franz Steindachner (1834–1919), who described this species as *Leporinus affinis* in 1875 but used a preoccupied name (*L. affinis* Günther 1864)

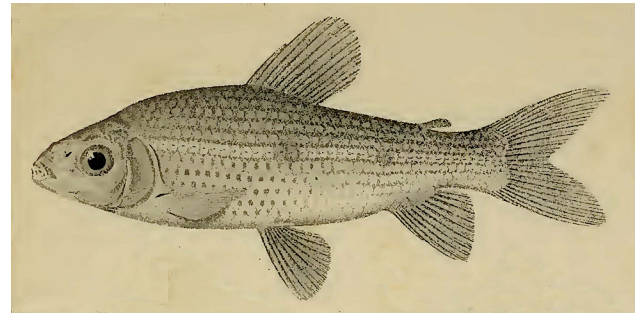
Hypomasticus thayeri (Borodin 1929) patronym not identified, presumably in honor of American philanthropist and financier Nathaniel Thayer, Jr. (1808–1883), who sponsored a 15-month expedition to Brazil (1865–1866) that secured a rich collection of new species (studied, in large part, by Steindachner and Eigenmann), including holotype of this one

Inesperanos

Assega, Sidlauskas & Birindelli 2021

insperans (L.), unexpected, referring to the “surprising discovery of an ancient lineage” of Anostomidae, represented by *I.* (formerly *Anostomoides*) *nattereri*; *anos*, four first letters of *Anostomus*, type genus of family, following a previous practice (*Petulanos*, *Pseudanos*)

Inesperanos nattereri (Steindachner 1876) in honor of Austrian naturalist Johann Natterer (1787–1843), who explored South America and collected specimens for 18 years, including holotype of this species



Inesperanos nattereri. Illustration by Eduard Konopicky. From: Steindachner, F. 1876. Ichthyologische Beiträge (V). Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Classe 74 (1. Abth.): 49–240, Pls. 1–15.

Laemolyta

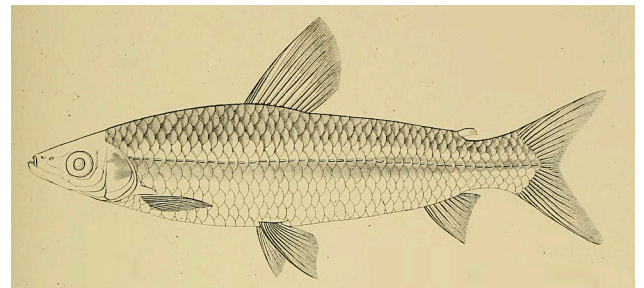
Cope 1872

laemo, from *laimós* (Gr. λαμῖός), throat; *lyta*, presumably from *lytós* (Gr. λυτός), that which may be loosened or untied, referring to branchiostegal membranes of *L. taeniata*, which are entirely free from isthmus

Laemolyta fasciata Pearson 1924 Latin for banded, referring to 7–8 bars on sides [*species inquirenda*, based on a juvenile, possibly a *Leporinus*, provisionally included here]

Laemolyta fernandesi Myers 1950 in honor of Venezuelan ichthyologist Augustin Fernández-Yépez (1916–1977), who collaborated with Myers in studying anostomids

Laemolyta garmani (Borodin 1931) in honor of American ichthyologist-herpetologist Samuel Garman (1843–1927), Harvard University, who



First-published image of *Laemolyta taeniata*. From: Kner, R. 1859. Zur Familie der Characinen. III. Folge der Ichthyologischen Beiträge. Denkschriften der Kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Classe 17: 137–182, Pls. 1–9.

revised *Anostomus* and proposed *Schizodontopsis* (a junior synonym of *Laemolyta*) in 1890

***Laemolyta orinocensis* (Steindachner 1879)** *-ensis*, Latin suffix denoting place: Orinoco River basin, Venezuela, where it is endemic

***Laemolyta proxima* (Garman 1890)** Latin for nearest or next, referring to its close relationship with and similar appearance to *L. taeniata*

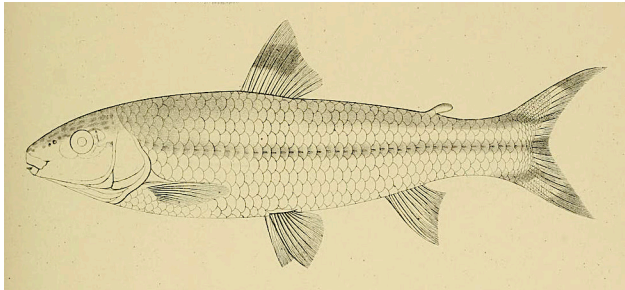
***Laemolyta taeniata* (Kner 1858)** Latin for banded, referring to wide black band extending from head to tail

Leporellus

Lütken 1875

-ellus, a Latin diminutive, proposed as a subgenus of *Leporinus*

***Leporellus pictus* (Kner 1858)** Latin for painted or colored, probably referring to its yellow, orange and black dorsal and caudal fins



First-published image of *Leporellus pictus*. From: Kner, R. 1859. Zur Familie der Characinen. III. Folge der Ichthyologischen Beiträge. Denkschriften der Kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Classe 17: 137–182, Pls. 1–9.

***Leporellus vittatus* (Valenciennes 1850)** Latin for banded, referring to indistinct blackish band along lateral line and/or black bands on dorsal and caudal fins

Leporinus

Agassiz 1829

Latin for “of a hare,” presumably referring to elongate incisors of *L. novemfasciatus* (= *fasciatus*), reminiscent of those in the mammal family Leporidae

***Leporinus acutidens* (Valenciennes 1837)** *acutus* (L.), sharp or pointed; *dens* (L.), tooth, referring to its sharp teeth, compared with blunt teeth of *L. obtusidens*

***Leporinus affinis* Günther 1864** Latin for related, described as closely allied to *L. fasciatus* but with fewer bands

***Leporinus agassizii* Steindachner 1876** in honor of Swiss-born American zoologist-geologist Louis Agassiz (1807–1873), then the leading authority on Brazilian fishes, who led the Thayer Expedition (1865–1866) to Brazil, which provided Steindachner with many specimens to study

***Leporinus altipinnis* Borodin 1929** *altus* (L.), high; *pinnis*, scientific Neo-Latin adjective of *pinna* (L.), fin, i.e., finned, referring to its high, sharply pointed dorsal fin

***Leporinus amae* Godoy 1980** in honor of AMA (Assessoria Para Meio Ambiente), an agency of the Brazilian energy company Eletrosul, for promoting health and environmental initiatives in southern Brazil

***Leporinus amazonicus* Santos & Zuanon 2008** *-icus* (L.), belonging to: Rio Amazonas of Brazil, where entire type series was collected

***Leporinus amblyrhynchus* Garavello & Britski 1987** blunt-snouted, from *amblyós* (Gr. ἀμβλύς), blunt, and *rhýnchos* (Gr. ῥύγχος), snout, referring to its rounded snout

***Leporinus apollo* Sidlauskas, Mol & Vari 2011** named after Apollo, the god of sun, music and healing in Greek and Roman mythology, referring to extremely slender form that is reminiscent of the arrow that was Apollo’s favored weapon and predominant symbol, and yellow cast of body and fins and rounded shape of the lateral markings, which evoke

the sun that was one of Apollo’s primary aspects

***Leporinus arcus* Eigenmann 1912** Latin for bow, probably referring to smaller of two lateral bands, “arched from the eye downward and back along the lower margin of the caudal peduncle to the caudal”

***Leporinus arimaspi* Burns, Frable & Sidlauskas 2014** named after the mythical Arimaspi people of northern Scythia in Greek mythology, referring to large black spot at middle of body, reminiscent of the single, centrally located eye that the Arimaspi people were said to possess

***Leporinus aripuanaensis* Garavello & Santos 1981** *-ensis*, Latin suffix denoting place: Aripuanã River, type locality, and/or Aripuanã River basin, Mato Grosso, Brazil, where it is endemic

***Leporinus bahiensis* Steindachner 1875** *-ensis*, Latin suffix denoting place: Bahia, Brazil, where it is endemic

***Leporinus bimaculatus* Castelnau 1855** *bi-*, from *bis* (L.), twice; *maculatus* (L.), spotted, referring to two large black spots on lateral line [*species inquirenda*, possibly a synonym of *L. friderici*, provisionally included here]

***Leporinus bistriatus* Britski 1997** *bi-*, from *bis* (L.), twice; *striatus* (L.) furrowed or grooved (i.e., striped), referring to two wide longitudinal stripes on body

***Leporinus bleheri* Géry 1999** in honor of German explorer and ornamental-fish wholesaler and supplier Heiko Bleher (b. 1944), who collected holotype

***Leporinus boehlkei* Garavello 1988** in honor of the late James E. Böhlke (1930–1982), former Curator of Fishes at the Academy of Natural Sciences of Philadelphia, who helped collect holotype in 1969 and loaned specimens to Garavello for study

***Leporinus britskii* Feitosa, Santos & Birindelli 2011** in honor of Brazilian ichthyologist Heraldo A. Britski, Universidade de São Paulo, for his “valuable contribution to our knowledge of Neotropical fishes, and especially for his important role in our understanding of *Leporinus* taxonomy”

***Leporinus brunneus* Myers 1950** Medieval Latin for brown, referring to its dull, yellowish-brown color in alcohol

***Leporinus cylindriciformis* Borodin 1929** *cylindros*, from *kýlindros* (Gr. κύλινδρος), cylinder; *formis*, Neo-Latin scientific adjective of *forma* (L.), shape or form, referring to slender, nearly round body shape

***Leporinus desmotes* Fowler 1914** *desmôtēs* (Gr. δεσμώτης), prisoner, referring to multiple dark cross-bands, “suggestive of convict garb,” i.e., striped uniforms that American prisoners used to wear in the 19th and early 20th centuries

***Leporinus ecuadorensis* Eigenmann & Henn 1916** *-ensis*, Latin suffix denoting place: Ecuador, where type locality (Río Barranca, near Naranjito) is situated

***Leporinus enyae* Burns, Chatfield, Birindelli & Sidlauskas 2017** in honor of Irish singer-songwriter Enya (b. 1961, as Eithne Pádraigín Ní Bhraonáin, anglicised as Enya Patricia Brennan), whose “beautiful song ‘Orinoco Flow’ celebrates the flow of the mighty Orinoco River, which the new species inhabits” [actually, the song has nothing to do with the river; it was named for Orinoco Studios, London, where the song was recorded, and represents a metaphorical musical journey for the team that created and produced Enya’s *Watermark* album, on which the song appeared]

***Leporinus fasciatus* (Bloch 1794)** Latin for banded, referring to 8–11 brown-to-black transverse bands between head and caudal fin

***Leporinus friderici* (Bloch 1794)** in honor of Jurriaan François Friderici (1751–1812), Governor General of Suriname, who sent fishes to Bloch, including this one

***Leporinus geminis* Garavello & Santos 2009** Latin for twin-born, referring to similarity of young specimens to *L. unitaeniatus*

***Leporinus gomesi* Garavello & Santos 1981** in honor of João Gomes da



Leporinus fasciatus. Illustration by Johann Friedrich Hennig. From: Bloch, M. E. 1794. Naturgeschichte der ausländischen Fische. Berlin. v. 8: i-iv + 1–174, Pls. 361–396.

Silva, Universidade Federal de São Carlos (Brazil), who collected holotype

***Leporinus gossei* Géry, Planquette & Le Bail 1991** in honor of Jean-Pierre Gosse (1924–2001), curator of vertebrates, Institut Royal des Sciences Naturalles de Belgique, who collected holotype

***Leporinus granti* Eigenmann 1912** in honor of William Grant, Eigenmann's "most efficient Indian guide" in Guyana, who made many collections of new species, including holotype of this one

***Leporinus guttatus* Birindelli & Britski 2009** Latin for spotted or dappled, referring to dark blotches scattered over body, more numerous than any known congeners

***Leporinus jamesi* Garman 1929** in honor of student volunteer William James (1842–1910), trained as a physician, later a philosopher (and brother of novelist Henry James), who collected holotype during the Thayer Expedition (1865–1866) to Brazil

***Leporinus jatuncochi* Ovchynnyk 1971** of Lake Jatun Cocha, Province Napo, Ecuador, type locality

***Leporinus klausewitzii* Géry 1960** in honor of German ichthyologist Wolfgang Klausewitz (1922–2018), Naturmuseum Senckenberg (Frankfurt), who made two small lots of South American fishes from the Museum's collection available to Géry for study

***Leporinus lacustris* Amaral Campos 1945** Latin for relating to or associated with lakes (lacustrine), presumably reflecting its local name, *piáu de lagoa* (*piáu* is an indigenous name for *Leporinus* species in eastern Brazil)

***Leporinus lebaili* Géry & Planquette 1983** in honor of ichthyological colleague and friend Pierre-Yves Le Bail (b. 1954), Institut National de la Recherche Agronomique (Rennes, France), who collected holotype and provided photographs of living specimens and their habitat

***Leporinus leschenaulti* Valenciennes 1850** in honor of French botanist Jean-Baptiste Louis Claude Theodore Leschenault de La Tour (1773–1826), who, along with entomologist Adolphe Jacques Louis Doumerc (1802–1868), provided holotype

***Leporinus maculatus* Müller & Troschel 1844** Latin for spotted, referring to large black spots on sides (appearing as transverse bands on some specimens)

***Leporinus marcgravii* Lütken 1875** patronym not identified but clearly in honor of German naturalist and astronomer Georg Marcgrave (also spelled Marggraf, 1610–1644), co-author of *Historia Naturalis Brasiliae* (1648), the first scientific book on the natural history of Brazil

***Leporinus melanopleura* Günther 1864** *mélanos* (Gr. μέλανος), genitive of *mélas* (μέλας), black; *pleurá* (Gr. πλευρά) side, referring to broad black band running from gill opening to root of caudal fin, immediately below lateral line

***Leporinus melanopleurodes* Birindelli, Britski & Garavello 2013** *-oides*, Neo-Latin from *éidos* (Gr. εἶδος), form or shape: similar to *L. melanopleura*

***Leporinus melanostictus* Norman 1926** *mélanos* (Gr. μέλανος), genitive of *mélas* (μέλας), black, and *stiktós* (Gr. στικτός), spotted, referring to black spot on caudal peduncle

***Leporinus microphthalmus* Garavello 1989** small-eyed, from *mikrós* (Gr.

mikrós), small, and *ophthalmós* (Gr. ὀφθαλμός), eye referring to smaller orbit (eye socket) compared to *L. lacustris*

***Leporinus microphysus* Birindelli & Britski 2013** small-bladdered, from *mikrós* (Gr μικρός), small, and *phýsa* (Gr. φύσα), bladder, referring to its small gas bladder

***Leporinus moralesi* Fowler 1942** in honor of biology professor Carlos Morales Machedo (1888–1952), director of the Museo de Historia Natural (Lima, Peru) from 1938–1947

***Leporinus multifasciatus* Cope 1878** *multi-* (L.), many; *fasciatus* (L.), banded, referring to 14 vertical brown bands on sides

***Leporinus multimaculatus* Birindelli, Teixeira & Britski 2016** *multi-* (L.), many; *maculatus* (L.), spotted, referring to many dark blotches on body

***Leporinus niceforoi* Fowler 1943** in honor of Brother Nicéforo Maria (1888–1980), monastic name of Antoine Rouhaire (a Frenchman), Museo del Instituto de La Salle (Bogota), who collected holotype and gifted it, along with other specimens, to the Academy of Natural Sciences of Philadelphia

***Leporinus nigrotaeniatus* (Jardine 1841)** *nigro-*, from *niger* (L.), black; *taeniatus* (L.), banded, referring to black band running from below dorsal fin, along lateral line, to base of caudal fin

***Leporinus nijsseni* Garavello 1990** in honor of Dutch ichthyologist Han Nijssen (1935–2013), friend and colleague, Zoölogisch Museum, Amsterdam, who collected holotype

***Leporinus octofasciatus* Steindachner 1915** *octo-*, from *októ* (Gr. ὀκτώ); *fasciatus* (L.), banded, referring to eight dark gray-purple cross-bands on trunk (not including bands on head and caudal peduncle)

***Leporinus octomaculatus* Britski & Garavello 1993** *octo-*, from *októ* (Gr. ὀκτώ); *maculatus* (L.), spotted, referring to eight midlateral dark blotches along body

***Leporinus ortomaculatus* Garavello 2000** *orto-*, variant of *orthós* (Gr. ὀρθός), straight or upright; *maculatus* (L.), spotted, allusion not explained, perhaps referring to how spots above lateral line sit directly above those below lateral line, with overall form of each pair reminiscent of a colon (:)

***Leporinus oliveirai* Ito, Souza-Shibatta, Venturieri & Birindelli 2023** in honor of Ivan Oliveira Nogueira da Silva, "for his intensive work on introducing fishes bred and raised in captivity into the International Aquarium trade. Ivan is a fishing engineer who has been working since 2005 on the creation and reproduction of ornamental fish, as part of the Psicultura Tanganyika team. He was primarily responsible for introducing the new species to the International Aquarium trade."

***Leporinus parae* Eigenmann 1907** of Pará State, lower Amazon, Brazil, type locality

***Leporinus paranensis* Garavello & Britski 1987** *-ensis*, Latin suffix denoting place: Paraná River basin, Brazil, where it is endemic

***Leporinus parvulus* Birindelli, Britski & Lima 2013** Latin for very small, little, petty or slight (authors say thin or slender), referring to its slender body

***Leporinus pearsoni* Fowler 1940** in honor of American ichthyologist Nathan Everett Pearson (1895–1982), Indiana University, who collected 6,775 fish specimens in Bolivia in 1921–1922

***Leporinus piau* Fowler 1941** *piáu*, indigenous name for *Leporinus* species in eastern Brazil

***Leporinus pitingai* Santos & Jégu 1996** of the Rio Pitinga, Amazonas, Brazil, only known area of occurrence

***Leporinus punctatus* Garavello 2000** Latin for spotted, referring to three elongate brown blotches along lateral line

***Leporinus reticulatus* Britski & Garavello 1993** Latin for net-like or net-

ted, referring to large number of dark blotches scattered on body

***Leporinus santosi* Britski & Birindelli 2013** in honor of Brazilian aquatic biologist Geraldo Mendes dos Santos, Instituto Nacional de Pesquisas da Amazônia (Manaus), for his “important” contributions to our knowledge of the fish fauna of the lower rio Tocantins via his studies on anostomids and on the impacts of the Tucuruí dam

***Leporinus sexstriatus* Britski & Garavello 1980** *sex* (L.), six; *striatus* (L.), grooved or furrowed (i.e., striped), referring to six longitudinal body stripes

***Leporinus sidlauskasi* Britski & Birindelli 2019** in honor of Brian L. Sidlauskas (b. 1976), Curator of Fishes, Oregon State University, for “important” contributions to our knowledge of the systematics of Anostomidae

***Leporinus spilopleura* Norman 1926** *spilos* (Gr. σπῖλος), mark or spot; *pleurá* (Gr. πλευρά), side, referring to ~12 indistinct darker cross-bars on back and upper parts of sides and/or large black spot on lateral line above pelvic fins

***Leporinus steyermarki* Inger 1956** in honor of American botanist Julian A. Steyermark (1909–1988), Chicago Natural History Museum, who led expedition that collected holotype

***Leporinus striatus* Kner 1858** Latin for grooved or furrowed (i.e., striped), referring to horizontal light-and-dark stripes on adults

***Leporinus subniger* Fowler 1943** *sub* (L.), below or under; *niger* (L.), black, referring to “largely blackish” ventral and anal fins

***Leporinus taeniatus* Lütken 1875** Latin for banded, referring to dark lateral band on body

***Leporinus taeniofasciatus* Britski 1997** *taenia*, from *tainía* (Gr. ταινία), band or ribbon; *fasciatus* (L.), banded, referring to color pattern, combining a longitudinal dark stripe in middle of flank with a transverse dark dorsum

***Leporinus tepui* Birindelli, Britski & Provenzano 2019** named for Chimantá-tepui (Bolívar, Venezuela), type locality; a *tepui* is a table-top mountain found in the Guiana Shield highlands (*tepui* means “house of the gods” in the native tongue of the Pemon, the indigenous people who inhabit the Gran Savana in Venezuela)

***Leporinus tigrinus* Borodin 1929** Latin for tiger-like, referring to eight cross-bands on body, “divided on the back by two branch bands”

***Leporinus torrenticola* Birindelli, Teixeira & Britski 2016** *torrens* (L.), swift water; *cola* (L.), dweller or inhabitant, referring to its preference for fast flowing-waters

***Leporinus trimaculatus* Garavello & Santos 1992** *tri-* (L.), three; *maculatus* (L.), spotted, referring to large, circular, light-brown patches along lateral line and a small, less conspicuous brown blotch on caudal peduncle

***Leporinus tristriatus* Birindelli & Britski 2013** *tri-* (L.), three; *striatus* (L.), grooved or furrowed (i.e., striped), referring to three dark stripes on body

***Leporinus unitaeniatus* Garavello & Santos 2009** *uni-*, from *unus* (L.), one; *taeniatus* (L.), banded, referring to single, slender horizontal dark brown stripe on lateral line

***Leporinus vanzoi* Britski & Garavello 2005** in honor of Brazilian herpetologist Paulo Emílio “Vanzo” Vanzolini (1924–2013), founder of Expedição Permanente à Amazônia (EPA), which greatly contributed to the Amazonian fish collection at MZUSP (Universidade de São Paulo, Museu de Zoologia, São Paulo, Brazil) and to Brazilian fish studies in general; type specimens were collected by EPA under the direction of Vanzolini

***Leporinus venerei* Britski & Birindelli 2008** in honor of Brazilian biologist Paulo Cesare Venere, who collected first known specimens in 1995

***Leporinus villasboasorum* Burns, Chatfield, Birindelli & Sidlauskas 2017** *-orum* (L.), commemorative suffix, plural: in honor of Orlando

(1914–2002) and his brothers Cláudio (1916–1998) and Leonardo Villas-Bôas (1918–1961), Brazilian activists for indigenous peoples, for their efforts to conserve and protect the Rio Xingu’s biodiversity, of which this species forms a part

***Leporinus y-ophorus* Eigenmann 1922** *y-*, the letter *y*, *phorus*, from *phoreús* (Gr. φορέύς), bearer or carrier bearer, referring to second vertical bar, which is divided above lateral line to form a “Y” that opens dorsally (the “o” perhaps added for euphony)

Megaleporinus

Ramirez, Birindelli & Galetti 2016

mega-, large, referring to large size of most congeners; *Anostomus*, genus in which most species had previously been assigned

***Megaleporinus brinco* (Birindelli, Britski & Garavello 2013)** Portuguese for earring, referring to red blotch behind head, immediately dorsal to pectoral-fin origin

***Megaleporinus conirostris* (Steindachner 1875)** *conus* (L.), from *kónos* (Gr. κῶνος), cone; *rostris*, Neo-Latin scientific adjective of *rostrum* (L.), snout, referring to its rounded snout

***Megaleporinus elongatus* (Valenciennes 1850)** Latin for prolonged, referring to its elongate body, with a proportionally longer head and snout compared with *L. pachyurus*

***Megaleporinus gaiero* Birindelli, Britski & Ramirez 2020** from *piaugai-ero*, Brazilian Portuguese name for this species, a combination of *piáu* (*Leporinus*) and *gaio* (from *galho*, tree branches), referring to how specimens when caught, especially with hook and line, tend to hide below submerged tree trunks

***Megaleporinus garmani* (Borodin 1929)** in honor of American ichthyologist-herpetologist Samuel Garman (1843–1927), Harvard University, who began studying anostomid fishes during the Thayer Expedition (1865–1866) to Brazil

***Megaleporinus macrocephalus* (Garavello & Britski 1988)** big-headed, from *makrós* (Gr. μακρός), long or large, and *kephalé* (Gr. κεφαλή), head, presumably referring to bigger head compared with *L. trifasciatus*

***Megaleporinus muyscorum* (Steindachner 1900)** *-orum* (L.), commemorative suffix, plural: Muisca (also spelled Muysca) people of Colombia’s Eastern Range, an area that includes Santander, type locality

***Megaleporinus obtusidens* (Valenciennes 1837)** *obtusus* (L.), blunt or dull; *dens* (L.), tooth, referring to its blunt teeth, compared with sharp teeth of *L. acutidens*

***Megaleporinus pachyurus* (Valenciennes 1850)** thick-tailed, from *pachýs* (Gr. παχύς), thick or stout, and *ourá* (Gr. οὐρά), tail, referring to thick caudal fin rays [*species inquirenda*, provisionally included here]

***Megaleporinus piavussu* (Britski, Birindelli & Garavello 2012)** local name for this species (also spelled *piavucu*) along upper Rio Paraná basin, Brazil, translating as *piava*, fishes of the genus *Leporinus*, and *ussu* (or *ucu*), big, i.e., a big *Leporinus*

***Megaleporinus reinhardti* (Lütken 1875)** in honor of Danish zoologist



Megaleporinus piavussu. Photo by Alec Zeinad. From: Britski, H. A., J. L. O. Birindelli and J. C. Garavello. 2012. A new species of *Leporinus* Agassiz, 1829 from the upper Rio Paraná basin (Characiformes, Anostomidae) with redescription of *L. elongatus* Valenciennes, 1850 and *L. obtusidens* (Valenciennes, 1837). *Papéis Avulsos de Zoologia, Museu de Zoologia da Universidade de São Paulo* 52 (37): 441–475.

Johannes Theodor Reinhardt (1816–1882), with whom Lütken collaborated on many studies, and who published an important paper on characiform fishes in 1867

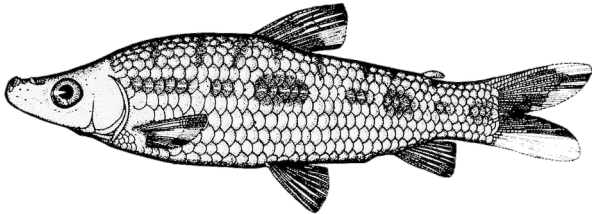
Megaleporinus trifasciatus (Steindachner 1876) *tri-* (L.), three; *fasciatus* (L.), banded, referring to three dark-brown crossbands on body

Petulanos

Sidlauskas & Vari 2008

petulans (L.), impudent or petulant, referring to upturned mouth, which gives these fishes such an appearance; *anos-*, first four letters of *Anostomus* from which *Petulanos* was separated

Petulanos intermedius (Winterbottom 1980) Latin for intermediate, referring to its intermediate position in morphometrics and color pattern between *P. plicatus* and *P. spiloclistron*



Petulanos intermedius, holotype, 77.7 mm SL. From: Winterbottom, R. 1980. Systematics, osteology and phylogenetic relationships of fishes of the ostariophysan subfamily Anostominae (Characidae, Anostomidae). Royal Ontario Museum Life Science Contributions No. 123: i–iv + 1–112.

Petulanos plicatus (Eigenmann 1912) Latin for folded, allusion not explained, perhaps referring to the skin folds of its “very prominent lips”

Petulanos spiloclistron (Winterbottom 1974) *spilos* (Gr. σπῖλος), mark or spot; *clistron* (Gr. κλειστρον), bar, referring to “striking” color pattern of spots and bars (or bands)

Pseudanos

Winterbottom 1980

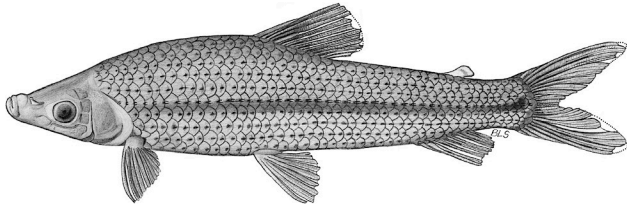
pseudo-, from *pseúdes* (Gr. ψεύδης), false; *anos*, first four letters of *Anostomus*, i.e., although this genus may externally be very similar to *Anostomus*, such an appearance is false

Pseudanos gracilis (Kner 1858) Latin for thin or slender, referring to its elongate body, length of head exceeding height of body

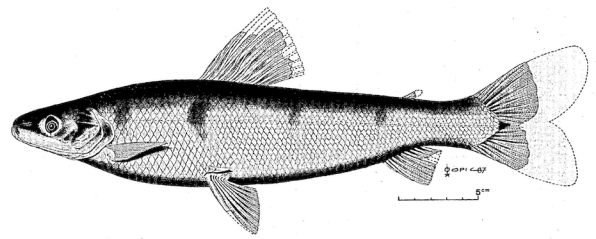
Pseudanos trimaculatus (Kner 1858) *tri-* (L.), three; *maculatus* (L.), spotted, referring to three large, conspicuous spots or blotches on sides

Pseudanos varii Birindelli, Lima & Britski 2012 in honor of Richard P. Vari (1949–2016), National Museum of Natural History, Smithsonian Institution (Washington, D.C., USA), for his “vast, invaluable contribution to the knowledge of systematics of characiform fishes, particularly the anostomoid fishes”

Pseudanos winterbottomi Sidlauskas & Santos 2005 in honor of Zambian-born Canadian ichthyologist Richard Winterbottom (b. 1944), Royal Ontario Museum, for “significant” contributions to anostomine systematics and natural history



Pseudanos winterbottomi, holotype, 129.4 mm SL (with damaged fins reconstructed). Illustration by Brian L. Sidlauskas. From: Sidlauskas, B. L. and G. M. dos Santos. 2005. *Pseudanos winterbottomi*: a new anostomine species (Teleostei: Characiformes: Anostomidae) from Venezuela and Brazil, and comments on its phylogenetic relationships. *Copeia* 2005 (1): 109–123.



Rhytiodus lauzannei, holotype, 290 mm SL (with damaged fins reconstructed). Illustration by Pierre Opic. From: Géry, J. 1987. Description d’une nouvelle espèce de poisson anostomidé (Ostariophysi, Characidae) du rio Mamoré, Bolivie: *Rhytiodus lauzannei* sp. n. *Cybiurn* 11 (4): 365–373.

Rhytiodus

Kner 1858

rhytido-, from *rhytidódēs* (Gr. ρυτιδώδης), wrinkled; *odus*, from *odous* (Gr. ὀδούς), tooth, presumably referring to finely denticulated teeth of *R. argenteofuscus* and *R. microlepis*

Rhytiodus argenteofuscus Kner 1858 *argenteus* (L.), silvery; *fuscus* (L.), dark or dusky, referring to dark-brown sides and silver abdomen

Rhytiodus elongatus (Steindachner 1908) Latin for prolonged, referring to its “strikingly slim” (translation) body

Rhytiodus lauzannei Géry 1987 in honor of “éminent collègue” Laurent Lauzanne, French ichthyologist, who helped collect holotype

Rhytiodus microlepis Kner 1858 *micro-*, from *mikrós* (Gr. μικρός), small; *lepis* (Gr. λεπίς), scale, referring to smaller, more numerous scales compared with *R. argenteofuscus*

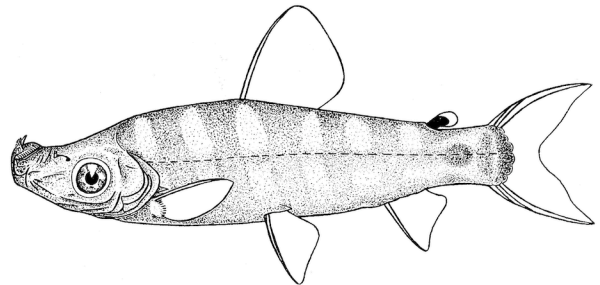
Sartor

Myers & Carvalho 1959

Latin for tailor, mender or one who works with a needle, a “perhaps fanciful allusion” to the long, awl-like mandibular teeth of *S. respectus*

Sartor elongatus Santos & Jégu 1987 Latin for prolonged, referring to its very elongate body shape compared with congeners, which are more robust in shape

Sartor respectus Myers & Carvalho 1959 Latin for looking backward or about, referring to raised anterior rim of eye, which allows it to see backward better than forward



Sartor respectus, holotype, 83 mm SL. Illustration by Antenor Leitão de Carvalho. From: Myers, G. S. and A. L. de Carvalho. 1959 (24 July) A remarkable new genus of anostomine characid fishes from the Upper Rio Xingú in central Brazil. *Copeia* 1959 (2): 148–152.

Sartor tucuruensis Santos & Jégu 1987 *-ensis*, Latin suffix denoting place: Tucuruí, Pará, Brazil, where type locality (Tocantins River basin) is situated

Schizodon

Agassiz 1829

schizo-, cut or divided; *odon*, tooth, referring to bi- to pentacuspoid incisorsiform teeth, which form a continuous crenulate cutting border

Schizodon altoparanae Garavelló & Britski 1990 *altus* (L.), high, i.e., from upper Paraná River basin, Brazil, where it is endemic

Schizodon australis Garavelló 1994 Latin for southern, referring to distribution in southern region of South America (Uruguay River basin, Brazil)



Schizodon fasciatus. From: Spix, J. B. von and L. Agassiz 1829-31. Selecta genera et species piscium quos in itinere per Brasiliam annis MDCCCXXVII-MDCCCXXX jussu et auspiciis Maximiliani Josephi I. Monachii (Munich). Part 1: i-xvi + i-ii + 1-6 + 1-82, Pls. 1-48, Part 2: 83-138, Pls. 49-101. [Part 1 published June 1829, part 2 Jan. 1831.]

***Schizodon borellii* (Boulenger 1900)** in honor of French-born Italian zoologist Alfredo Borelli (1858–1943), Università di Torino, who led three expeditions to South America and collected many animals, including holotype of this one

***Schizodon corti* Schultz 1944** vernacular for this species in Maracaibo, Venezuela; it means “cut,” probably referring to its sharp, cutting teeth [treated as a synonym or subspecies of *S. fasciatus* by some workers]

***Schizodon dissimilis* (Garman 1890)** Latin for different, nearly related to *S. vittatus* and *S. fasciatus* but lacking spot at base of caudal fin, and darker in color than *S. fasciatus*

***Schizodon fasciatus* Spix & Agassiz 1829** Latin for banded, referring to four vertical black bands on body

***Schizodon intermedius* Garavello & Britski 1990** Latin for intermediate, allusion not explained, presumably intermediate in coloration between *S. altoparanae* and *S. fasciatus*

***Schizodon isognathus* Kner 1858** *isos* (Gr. ἴσος), equal; *gnáthos* (Gr. γνάθος), jaw, presumably referring to eight crenulated incisors in both upper and lower jaws

***Schizodon jacuiensis* Bergmann 1988** *-ensis*, Latin suffix denoting place: Río Jacuí, largest tributary in the Laguna dos Patos drainage (southeastern Brazil), where it occurs

***Schizodon knerii* (Steindachner 1875)** patronym not identified but clearly in honor of Austrian ichthyologist Rudolf Kner (1810–1869), who was Steindachner’s teacher and friend (and who studied anostomid fishes)

***Schizodon nasutus* Kner 1858** Latin for large-nosed, referring to its somewhat pointed snout, with upper jaw projecting beyond lower jaw

***Schizodon paucisquamis* Britski, Garavello & Ramirez 2023** *paucus* (L.), few or scanty; *squamis*, Neo-Latin scientific adjective of *squama* (L.), scale, referring to reduced circumpeduncular squamation of caudal peduncle, it distinguishing feature

***Schizodon platae* (Garman 1890)** of the La Plata River basin, Argentina, type locality

***Schizodon rostratus* (Borodin 1931)** Latin for beaked, probably referring to its thick, broad, subobtusate snout, “somewhat swollen in the region of the nostrils”

***Schizodon scotorhabdotus* Sidlauskas, Garavello & Jellen 2007** *scoto-*, from *skótos* (Gr. σκότος), darkness; *rhábdos* (Gr. ῥάβδος), rod or stick (i.e., line or stripe), referring to prominent dark lateral stripe

***Schizodon succinctus* Burmeister 1861** Latin for short, small or contracted, allusion not explained, perhaps referring to smaller size compared with *S. fasciatus*

***Schizodon trivittatus* Garavello, Ramirez, Oliveira, Britski, Birindelli & Galetti 2021** *tri-* (L.), three; *vittatus* (L.), banded, referring to three dark vertical bars on trunk

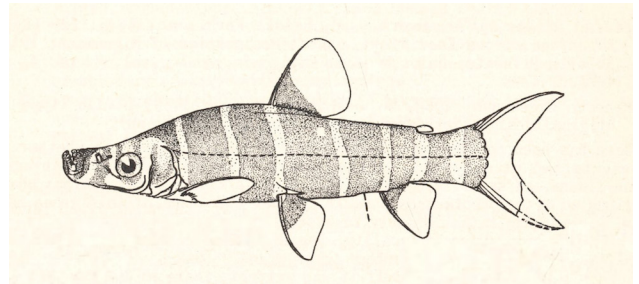
***Schizodon vittatus* (Valenciennes 1850)** Latin for banded, referring to three transverse band-like spots on sides

Synaptolaemus

Myers & Fernández-Yépez 1950

synaptós (Gr. συναπτός), joined together or united; *laimós* (Gr. λαίμος), throat, referring to broad union of gill membranes with throat

***Synaptolaemus latofasciatus* (Steindachner 1910)** *latus* (L.), broad or wide; *fasciatus* (L.), banded, referring to eight brownish-violet wide crossbands on body, alternating with narrow golden-yellow (sometimes red or orange) bands



Possibly first-published image of *Synaptolaemus latofasciatus* (as *S. cingulatus*, a junior synonym). Illustration by Augustin Antonio Fernández-Yépez. From: Myers, G. S. 1950. Studies on South American fresh-water fishes. II. The genera of anostomine characids. Stanford Ichthyological Bulletin 3 (4): 184–198.