

Order CHARACIFORMES

[no common name]

## Family CHARACINAE

Subfamily TETRAGONOPTERINAE Gill 1858



*Tetragonopterus chalcus*. From: Spix, J. B. von and L. Agassiz. 1829–31. Selecta genera et species piscium quos in itinere per Brasiliam annis MDCCCXVII–MDCCCXX 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.]

***Tetragonopterus***

Cuvier 1816

mis- or variant spelling of *Tetragonopterus*, coined by Klein (1744),<sup>1</sup> who said it meant “quadratus aspectu” (square appearance) and applied it to quadrate or rhomboidal fishes (e.g., butterflyfishes, Chaetodontidae); Seba (1759)<sup>2</sup> referred *T. argenteus* to Klein’s genus, which Cuvier spelled as *Tetragonopterus* (adding an “e” to “pterus”) when he made Seba’s name nomenclaturally available, thus creating the false impression that the name means “square fin” (*pterus*, from *pterón* [Gr. πτερόν] or *ptéryx* [πτερυξ], fin) [also the source of the “tetra” name used for characins in the aquarium trade]

***Tetragonopterus anostomus* Silva & Benine 2011** upward-mouthed, from *ano-* (Gr. ἀνά), up or upward, and *stóma* (Gr. στόμα), mouth, referring to superior mouth position, unique in the genus

***Tetragonopterus araguiensis* Silva, Melo, Oliveira & Benine 2013** *-ensis*, Latin suffix denoting place: rio Araguaia, a large tributary of the Amazon basin, central Brazil, where it is endemic

<sup>1</sup> Klein, J. T. 1744. Iacobi Theodori Klein historiae piscium. Promovendae missus primus de lapillis eorumque numero in craniis piscium, cum praefatione: De piscium auditu. Accesserunt I. Anatomie tursionum; II. Observata in capite raiæ. Gedanii (Schreiber). Vol. 4. 1–68, pls. 1–15. Etymology: *tetrá* (Gr. τετρά), four; *gônia* (Gr. γωνία), corner or angle; *opterus*, etymology unknown, perhaps a coinage. Since Klein used the “*opterus*” spelling 21 times, and did not describe square or tetragonal fins in any of the species accounts, it is doubtful that “*pterus*” is a lapsus for “*pterus*.”

<sup>2</sup> Seba, A. 1759. Locupletissimi rerum naturalium thesauri accurata descriptio et iconibus artificiosissimis expressio per universam physices historiam. H. K. Arksteus, Amstelædam (Amsterdam). v. 3: i–xxi (unnumbered) + 1–212, Pls. 1–116.

***Tetragonopterus argenteus* Cuvier 1816** Latin for silvery, referring to its bright, silvery coloration (name coined by Séba in 1759<sup>2</sup> but unavailable because he did not consistently apply binominal nomenclature as required by ICZN 11.4)

***Tetragonopterus carvalhoi* Melo, Benine, Mariguela & Oliveira 2011** in honor of Marcelo Rodrigues de Carvalho, Universidade de São Paulo, leader of expedition that collected holotype, for his contributions to the knowledge of neotropical ichthyology

***Tetragonopterus chalcus* Spix & Agassiz 1829** Latin for brazen or of brass, presumably referring to its light brown (“laete fuscus”) body color

***Tetragonopterus daguae* (Eigenmann 1913)** of the Dagua River, Colombia, type locality

***Tetragonopterus denticulatus* Silva, Melo, Oliveira & Benine 2013** Latin for having small teeth (denticulate), referring to small teeth on dentary, unique to the genus

***Tetragonopterus franciscoensis* Silva, Melo, Oliveira & Benine 2016** *-ensis*, Latin suffix denoting place: rio São Francisco, northeastern Brazil, where it is well known and abundant

***Tetragonopterus georgiae* (Géry 1965)** matronym not identified but probably in honor of Géry’s wife, Georgie, or Georgette

***Tetragonopterus juruena* Silva, Melo, Oliveira & Benine 2016** named for the rio Juruena, Mato Grosso, Brazil, type locality

***Tetragonopterus kuluene* Silva, Melo, Oliveira & Benine 2016** indigenous spelling of rio Culuene, rio Xingu basin, Brazil, type locality

***Tetragonopterus manaos* Urbanski, Melo, Silva & Benine 2018** named for the Manaós, indigenous tribe who inhabited the lower rio Negro, which includes type locality of this species

***Tetragonopterus ommatus* Silva, Melo, Oliveira & Benine 2016** eyed, from *ómmata* (Gr. ὄμματα), eye, referring to the “great” diameter of its orbits

***Tetragonopterus rarus* (Zarske, Géry & Isbrücker 2004)** Latin for rare, referring to its small distribution and endangerment due to mining and mercury pollution

***Tetragonopterus signatus* Burmeister 1861** Latin for marked, probably referring to black dot at beginning of lateral line [*species inquirenda*, provisionally included here]