

Order POLYMIXIIFORMES

Beardfishes

Family POLYMIXIIDAE

Bleeker 1859



Polymixia nobilis. From: Illustration by M. Young, Lowe, R. T. 1836. Piscium Maderensium species quaedam novae, vel minus rite cognitae breviter descriptae, etc. Transactions of the Cambridge Philosophical Society v. 6 (pts 1): 195-202, Pls. 1–6.

Polymixia

Lowe 1836

polý (πολύ), many; *mixia*, from *mixis* (μίξις), a mixing, referring to how *P. nobilis* appears to combine characters from multiple groups of fishes (e.g., general aspect of Berycidae, chin barbels of Mullidae)

***Polymixia berndti* Gilbert 1905** in honor of German-born Louis E. (or E. Louis) Berndt (1851–?), market inspector in Honolulu, Hawaii (USA), who secured holotype at a Honolulu fish market, and to whom the second season of investigations by the U.S. Fish Commission in the Hawaiian Islands owed much of its success

***Polymixia busakhini* Kotlyar 1992** in honor of Kotlyar's friend, ichthyologist-turned-painter Sergey Vasilevich Busakhin (b. 1946), who contributed greatly to beryciform systematics with his 1982 revision of the family Berycidae (at the time, Polymixiidae was placed in the order Beryciformes)

***Polymixia carmenae* Caixeta, Oliveira & Melo 2024** in honor of Brazilian ichthyologist Carmen Lúcia Del Bianco Rossi-Wongtschowski, emeritus professor, Oceanográfico da Universidade de São Paulo, and former coordinator of the regional subcommittee Sul of the Program REVIZEE (Living Resources in the Brazilian Exclusive Economic Zone), for her lifetime dedication to study the biology and conservation of marine fishes, including this species

***Polymixia fusca* Kotthaus 1970** Latin for dark or dusky, referring to its brown ground coloration

***Polymixia hollisterae* Grande & Wilson 2021** in honor of Gloria E. Hollister (1900–1988), for her “landmark” contributions to deep-sea research (she was a key member of the William Beebe bathysphere expeditions in Bermuda), ichthyology, tropical exploration, conservation, and “pioneering” work for the Red Cross Blood Bank during WWII

***Polymixia japonica* Günther 1877** *-ica* (L.), belonging to: Japan, where type locality, Hiroshima in the Seto Inland Sea of Japan, is situated

***Polymixia longispina* Deng, Xiong & Zhan 1983** *longus* (L.), long; *spina* (L.), thorn or spine, presumably referring to fourth spiny ray of anal fin equal to length of first soft ray of anal fin, exceeding eye diameter, compared with substantially shorter fourth spiny ray of anal fin of *P. fusca*

***Polymixia lowei* Günther 1859** eponym not identified but almost certainly in honor of British biologist and chaplain in Madeira (type locality of *P. nobilis*), Richard Thomas Lowe (1802–1874), who proposed the genus in 1836

***Polymixia melanostoma* Fan, Su, Lin, Chang & Lin 2024** *mélanos* (μέλανος), genitive of *mélas* (μέλας), black; *stóma* (στόμα), mouth, referring to its blackish oral-branchial cavity, unique in the genus

***Polymixia nobilis* Lowe 1836** Latin for well-known, noted or celebrated, allusion, not explained, perhaps referring to its notable combination of characters (see genus)

***Polymixia salagomeziensis* Kotlyar 1991** *-ensis*, suffix denoting place:

Sala y Gómez ridge, southeastern Pacific, where it is endemic

***Polymixia sazonovi* Kotlyar 1992** in honor of Yuri I. Sazonov (1950–2002), curator of ichthyology, Zoological Museum, Moscow State University, for his “large contribution to the study of deep-water ichthyofauna of the world’s oceans” (translation)

***Polymixia yuri* Kotlyar 1982** in honor of ichthyologist Yuri Nikolayevich Shcherbachev, Institute of Oceanology, Academy of Sciences of the USSR, swho, upon checking specimens from the southeastern Pacific, suggested they were an undescribed species [apparently a noun in apposition, without the eponymic “i”]