



## **Dactylogyrids (Platyhelminthes: Monogenea) from the gills of the African carp, *Labeo coubie* Rüppell (Cyprinidae), from Senegal, with descriptions of three new species of *Dactylogyrus* and the redescription of *Dactylogyrus cyclocirrus* Paperna, 1973**

NAĎA MUSILOVÁ, EVA ŘEHULKOVÁ & MILAN GELNAR

Department of Botany and Zoology, Faculty of Science, Masaryk University, Kotlářská 2, 611 37 Brno, Czech Republic.

E-mail: evar@sci.muni.cz

### **Abstract**

The results of a systematic survey of monogeneans collected from the gills of the African carp, *Labeo coubie* (Cyprinidae) from the Gambia River basins in the Niokolo-Koba National Park, Senegal, are presented. The following 11 previously described species belonging to *Dactylogyrus* and *Dogielius* (Dactylogyridae) are reported: *Dactylogyrus retroversus* Guégan, Lambert & Euzet, 1988, *Dactylogyrus titus* Guégan, Lambert & Euzet, 1988, *Dactylogyrus falcilocus* Guégan, Lambert & Euzet, 1988, *Dactylogyrus decaspirus* Guégan, Lambert & Euzet, 1988, *Dactylogyrus oligospirophallus* Paperna, 1973, *Dactylogyrus jaculus* Guégan, Lambert & Euzet, 1988, *Dogielius anthocolpos* Guégan, Lambert & Euzet, 1989, *Dogielius clavipenis* Guégan, Lambert & Euzet, 1989, *Dogielius harpagatus* Guégan, Lambert & Euzet, 1989, *Dogielius complicitus* Guégan, Lambert & Euzet, 1989, and *Dogielius flagellatus* Guégan, Lambert & Euzet, 1989. Three new species of *Dactylogyrus* with 2 haptor bars are described as follows: *Dactylogyrus yassensis* **n. sp.**, *Dactylogyrus dembae* **n. sp.**, and *Dactylogyrus leonis* **n. sp.** The sclerotized structures of type and voucher specimens of *Dactylogyrus cyclocirrus* Paperna, 1973, *Dactylogyrus omega* Guégan & Lambert, 1991, and *Dactylogyrus cf. labeous* Paperna, 1979 are illustrated for comparative purposes. The type specimens indicate that *D. cyclocirrus* is based on specimens of two different species, among which the lectotype is designated from the syntypes collected from *Labeo cylindricus*. *Dactylogyrus cyclocirrus* of Guégan *et al.* (1988) and *D. cf. labeous* Paperna, 1979 are considered senior subjective synonyms of *D. yassensis* **n. sp.** and *D. dembae* **n. sp.**, respectively.

**Key words:** Dactylogyridae; *Dactylogyrus retroversus*; *Dactylogyrus titus*; *Dactylogyrus falcilocus*; *Dactylogyrus decaspirus*; *Dactylogyrus oligospirophallus*; *Dactylogyrus omega*; *Dactylogyrus jaculus*; *Dactylogyrus cf. labeous*; *Dactylogyrus cyclocirrus*; *Dactylogyrus yassensis* **n. sp.**; *Dactylogyrus dembae* **n. sp.**; *Dactylogyrus leonis* **n. sp.**; *Dogielius anthocolpos*; *Dogielius clavipenis*; *Dogielius harpagatus*; *Dogielius complicitus*; *Dogielius flagellatus*; Africa; Gambia River; Niokolo-Koba National Park; Senegal; African carp, Cyprinidae, *Labeo coubie*

### **Introduction**

The present study was undertaken to determine the dactylogyrid monogeneans of the African carp, *Labeo coubie* Rüppell, from the Gambia River basins in the Niokolo-Koba National Park, Senegal. This cyprinid species is widely distributed throughout tropical Africa, south of the Sahara, but is not known to occur in the south-west Cape region (Reid 1985). Thus far, *L. coubie* is known to be parasitized by 8 species of *Dactylogyrus* Diesing, 1850 and 7 species of *Dogielius* Bychowsky, 1936 (Dactylogyridae) reported from Ghana (Paperna 1968, 1969, 1973, 1979) and Mali (Guégan *et al.* 1988, 1989): *Dactylogyrus cyclocirrus* Paperna, 1973, *Dactylogyrus decaspirus* Guégan, Lambert & Euzet, 1988 (syn. *Dactylogyrus cf. senegalensis* Paperna, 1979 from *L. coubie*, Ghana), *Dactylogyrus digitalis* Paperna, 1969, *Dactylogyrus falcilocus* Guégan, Lambert & Euzet, 1988, *Dactylogyrus jaculus* Guégan, Lambert & Euzet, 1988 (syn. *Dactylogyrus*