

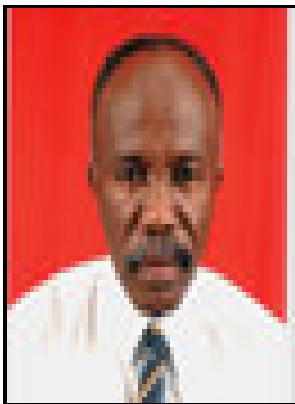
Étude ostéologique des genres *Boulengeromyrus* Tavernet et Géry, *Genyomyrus* Boulenger, *Petrocephalus* Marcusen (Pisces Mormyriformes)

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Etude ostéologique des genres

***Boulengeromyrus* Tavernet et Géry, *Genyomyrus* Boulenger, *Petrocephalus* Marcusen (Pisces, Mormyriformes).**

Note sur la systématique des poissons Mormyriformes. The symplectic process, which ossifies as the symplectic in other teleosts, is absent from the earliest developmental stages in Pantodon. D, dorsal view of the articular groove.

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Étude Ostéologique des genres *Boulengeromyrus* Tavernet et Géry, *Genyomyrus* Boulenger, *Petrocephalus* Marcusen Pisces Mormyriformes. However, the shallow articular groove on the dorsoposterior margin of the endopterygoid houses the more proximal part of the basipterygoid process. Additional laminae of membrane bone extend from the body of the metapterygoid to its hyomandibular process and its basal process.

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Schoppmann Tübingen for his excellent skills with the SEM, and M.

Ontogeny and homology of the basipterygoid articulation in Pantodon buchholzi (Teleostei: Osteoglossomorpha)

As we have detailed above, a symplectic process is absent from the ontogeny of Pantodon, and we believe the cartilage that they consider a cartilaginous symplectic to be a remnant of the hyopalatine cartilage after ossification of the hyomandibular and quadrate. We conclude that in the lineage leading to teleosts, the basipterygoid process, which primitively was formed by the basisphenoid or a comparable area of the endoskeletal

neurocranium, as in most palaeoniscoids ; , is formed exclusively by the parasphenoid. If our conclusion is correct, then the presence of the basipterygoid articulation becomes a plesiomorphic feature at the level of Osteoglossomorpha and thus contradicts the view of , , and , who used this character as a synapomorphy of Pantodon, Heterotis, Arapaima, Osteoglossum and Scleropages.

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Phylogenetic relationships among mormyrids were determined by comparing cytochrome b sequences 588 bp of 27 species belonging to 15 genera. Right hyopalatine arch of Pantodon buchholzi A-F and Osteoglossum bicirrhosum G , lateral view, sides reversed.

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