

A new genus of lungfish from the Givetian (Middle Devonian) of central Australia

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A new *Dipterus*-like lungfish, *Harajicadipterus youngi*, is described from the Givetian (Middle Devonian) Harajica Sandstone Member of central Australia. The material is comprised of five specimens representing the skull roof, orbital bones, tooth plates, operculo-gular bones, a partial pectoral girdle, centra and scales. *Harajicadipterus* can be distinguished from other dipnoans by its long postorbital cheek, broad B bone, lack of contact between E and C bones, and radiating tooth rows with some denticles evident between the rows. Results of a cladistic analysis of 81 characters for 33 dipnoan taxa resolved *Harajicadipterus* below the holodontid clade but as more derived than *Dipterus* and the chirodipterid clade.

Key words: Dipnoi, phylogeny, Devonian, Givetian, Harajica Formation, Australia.

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