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

Alice M. Clement

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.

Alice M. Clement [aclement@museum.vic.gov.au], Museum Victoria, PO Box 666, Melbourne, Victoria, 3001, Australia; Research School of Earth Sciences, Australian National University, Canberra, Australian Capital Territory, 0200, Australia.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.