

New evidence on the taphonomic context of the Ediacaran *Pteridinium*

David A. Elliott, Patricia Vickers-Rich, Peter Trusler, and Mike Hall

Acta Palaeontologica Polonica 56 (3), 2011: 641-650 doi: <http://dx.doi.org/10.4202/app.2010.0060>

New material collected from the Kliphoek Member of the Nama Group (Kuibis Subgroup, Dabis Formation) on Farm

Aar, southern Namibia, offers insights concerning the morphology of the Ediacaran organism

Pteridinium. *Pteridinium*

fossils previously described as being preserved in situ have been discovered in association with scour-and-fill structures indicative of transport. Additionally, two *Pteridinium* fossils have been found within sedimentary dish structures in the Kliphoek Member. A form of organic surface with a discrete membrane-like habit has also been recovered from Farm Aar, and specimens exist with both *Pteridinium* and membrane-like structures superimposed. The association between *Pteridinium* fossils and membrane-like structures suggests several possibilities. *Pteridinium* individuals may have been transported before burial along with fragments of microbial mat; alternately they may have been enclosed by an external membranous structure during life.

Key words: *Pteridinium*, Petalonamae, Vendobionta, taphonomy, palaeoecology, Kliphoek Member, Nama Group, Ediacaran.

David A. Elliott [david.alexanderus@gmail.com], Patricia Vickers-Rich [Pat.Rich@monash.edu.au], Peter Trusler [peter@petertrusler.com.au], and Mike Hall [Mike.Hall@monash.edu.au], School of Geosciences, Monash University, Victoria, Australia 3800.

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.

 [Full text \(897.9 kB\)](#)