

REPORT: *ARCANGELIELLA CLARIDGEI* COMB. NOV. AND *A. CORKII* COMB. NOV. TRANSFERRED FROM THE GENUS *ZELLEROMYCES*

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Abstract

J. M. Vidal's recent reexamination of the holotype of *Arcangeliella borziana* Cavara, the type species of that genus, revealed that it has been misinterpreted by various authors in the past. Vidal synonymised the genus *Zelleromyces* with *Arcangeliella* and transferred all *Zelleromyces* spp. to *Arcangeliella* except for two Australian species, *Z. claridgei* and *Z. corkii*. We complete his transfers here with the new combinations *Arcangeliella claridgei* and *A. corkii*.

J.M. Trappe and A.W. Claridge (2008). Report: *Arcangeliella claridgei* comb. nov. and *A. corkii* comb. nov. transferred from the genus *Zelleromyces*. *Australasian Mycologist* 27 (2): 117.

The genus *Arcangeliella* (Russulaceae) was interpreted by Singer and Smith (1960) to include all *Lactarius*-related, sequestrate species with a columella. They assigned species lacking a columella to their new genus, *Zelleromyces*. However, the type species of *A. borziana* Cavara, as illustrated by Cavara (1900) and recently studied by Vidal (2004), has only a narrow central strand that may be percurrent but can disappear as specimens mature. *Zelleromyces* species abound in Australia, and we have observed that some specimens of a given species may have a rudimentary columella, whereas others do not. We agree with Vidal's conclusion that presence or absence of a columella in astipitate species are not useful taxonomic characters at the generic level and that all *Zelleromyces* spp. should be transferred to *Arcangeliella*. Vidal (2004) did this except for *Z. claridgei* and *Z. corkii*, published by us (Trappe and Claridge 2003) shortly before his paper appeared. Accordingly, we propose these new combinations here:

Arcangeliella claridgei (Trappe in Trappe & Claridge) Trappe & Claridge, comb. nov.

Basionym: *Zelleromyces claridgei* Trappe in Trappe & Claridge, *Australasian Mycologist* **22**, 34. 2003.

Arcangeliella corkii (Trappe & Claridge) Trappe & Claridge, comb. nov.

Basionym: *Zelleromyces corkii* Trappe & Claridge, *Australasian Mycologist* **23**, 35-36. 2003.

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References

- Cavara, F. (1900). *Arcangeliella borziana* nov. gen., nov. sp. Nuova imenogasterea delle abetine di Vallombrosa. *Nuovo Giornale Botanico Italiano, Nuova Serie* **7**, 117-128.
- Singer, R. & Smith, A.H. (1960). Studies on secotiaceous fungi IX. The astrogastraceous series. *Memoirs of the Torrey Botanical Club* **21**, 1-112.
- Trappe, J.M. & Claridge, A.W. (2003). Australasian sequestrate (truffle-like) fungi. 15. New species from tree line in the Australian Alps. *Australasian Mycologist* **22**, 27-38.
- Vidal, J.M. (2004). *Arcangeliella borziana* and *A. stephensii*, two gasteroid fungi often mistaken. A taxonomic revision of *Lactarius*-related sequestrate fungi. *Revista Catalana de Micologia* **26**, 59-82.