

Outlineoffungi.org – Note 704 *Aspiciliella*

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Aspiciliella M. Choisy

The currently accepted taxonomy of the lichenized family *Megasporaceae* (*Pertusariales*) includes eight genera i.e. *Aspicilia* A. Massal., *Circinaria* Link, *Lobothallia* (Clauzade & Cl. Roux) Hafellner, *Megaspora* (Clauzade & Cl. Roux) Hafellner & V. Wirth, *Sagedia* Ach., *Teuvoa* Sohrabi & S. Leavitt, *Aspiciliella* M. Choisy, and *Oxneriaria* S.Y. Kondr. & Lőkös (Nordin *et al.* 2010, Sohrabi *et al.* 2013, Haji Moniri *et al.* 2017, Zakeri *et al.* 2017, Paukov *et al.* 2019). *Aspiciliella* was resurrected based on three phylogenetic markers: ITS, mtSSU, and nuLSU (Zakeri *et al.* 2019a, b) and is characterized by a crustose thallus that is rimose–areolate and K+, red in part; a green, olive–green to greenish–brown N+ light green epihymenium; 8–spored asci, ellipsoid, colorless, simple ascospores and very short (7–11µm long) conidia. The genus includes four species; *Aspiciliella cupreoglauca* (B. de Lesd.) Zakeri, Divakar & Otte, *A. intermutans* (Nyl.) M. Choisy, *A. portosantana* Sipman & Zakeri and *A. pakistanica* K. Habib, Q. Firdous, Sohrabi & Khalid (Zakeri *et al.* 2017, 2019a, b, Habib *et al.* 2021).

References

- Habib K, Firdous Q, Sohrabi M, Khalid AN. 2021 – *Aspiciliella pakistanica* a new lichen species (Megasporaceae, Pertusariales, Ascomycota) from Pakistan. *Phytotaxa* 511(2), 175–182.
- Haji-Moniri M, Gromakova AB, Lőkös L, Kondratyuk SY. 2017 – New members of the *Megasporaceae* (*Pertusariales*, lichenforming *Ascomycota*): *Megaspora iranica* spec. nova and *Oxneriaria* gen. nova. *Acta Bot Hung* 59(3–4), 343–370
- Nordin A, Savič S, Tibell L. 2010 – Phylogeny and taxonomy of *Aspicilia* and *Megasporaceae*. *Mycologia* 102(6), 1339–1349.
- Paukov A, Davydov EA, Nordin A, Roux C *et al.* 2019 – Three new species, new combinations and a key to known species of *Lobothallia* (*Megasporaceae*). *The Lichenologist* 51, 301–322.
- Sohrabi M, Rico SDLVJ, Halici MG, Shrestha G *et al.* 2013 – *Teuvoa*, a new lichen genus in *Megasporaceae* (*Ascomycota: Pertusariales*), including *Teuvoa junipericola* sp. nov. *The Lichenologist* 45, 347–360.
- Zakeri Z, Divakar PK, Otte V. 2017 – Taxonomy and phylogeny of *Aspiciliella*, a resurrected genus of *Megasporaceae*, including the new species *A. portosantana*. *Herzogia* 30, 166–176.
- Zakeri Z, Otte V, Sipman H, Malíček J *et al.* 2019a – Discovering cryptic species in the *Aspiciliella intermutans* complex (*Megasporaceae*, *Ascomycota*) – First results using gene concatenation and coalescent–based species tree approaches. *PLOS ONE* 14, e0216675.
- Zakeri Z, Sipman H, Paukov A, Otte V. 2019b – Neotypification of *Aspiciliella cupreoglauca* and lectotypification and synonymization of *Aspicilia reticulata* (*Megasporaceae*, *Ascomycota*). *The Lichenologist* 51, 97–99.

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