

## *Candolleomyces cladii-marisci* (Psathyrellaceae), a new combination

Nicodemo Giuseppe Passalacqua<sup>1,2</sup>, Giovanni Sicoli<sup>1</sup>

**1** Dipartimento di Biologia, Ecologia e Scienze della Terra of Biology, Ecology and Earth Science, Università della Calabria, Via P. Bucci, 87036 Rende, fraz. Arcavacata di Rende (Cosenza), Italy **2** Museo di Storia Naturale della Calabria ed Orto Botanico, Università della Calabria, Via A. Savinio, 87036 Rende, fraz. Arcavacata di Rende (Cosenza), Italy

Corresponding author: Nicodemo Giuseppe Passalacqua ([nicodemo.passalacqua@unical.it](mailto:nicodemo.passalacqua@unical.it))

---

Academic editor: Alfredo Vizzini | Received 13 October 2022 | Accepted 23 November 2022 | Published 6 December 2022

---

**Citation:** Passalacqua NG, Sicoli G (2022) *Candolleomyces cladii-marisci* (Psathyrellaceae), a new combination. Italian Botanist 14: 95–97. <https://doi.org/10.3897/italianbotanist.14.96281>

---

*Psathyrella cladii-marisci* Sicoli, N.G. Passal., De Giuseppe, Palermo, Pellegrino, D. Deschuyteneer & Voto is a species of Psathyrellaceae recently described from southern Italy and reported also from Belgium. This species was placed in the genus *Psathyrella* (Fr.) Quél. based on morphological characters including small-medium size, greyish and pale clay to deep brown, thin, fragile, non-deliquestent basidiomata with lamellae as hymenophore, smooth, truncated and dark basidiospores, and versiform hymenial cystidia intermingled with sphaeropedunculate and clavate cells along the gill edge.

However, the suite of characters cited by the authors to support this placement defines an overly broad and now-superseded concept of the genus. A recent work led to a refinement of the concept of *Psathyrella* on the basis of morphological and molecular evidence (Wächter and Melzer 2020). According to this study, *Psathyrella* s.l. was further divided into three genera (*Britzelmayria* D. Wächt. & A. Melzer, *Candolleomyces* D. Wächt. & A. Melzer and *Olotia* D. Wächt. & A. Melzer) and some of the species which had formerly been placed in the genus *Psathyrella* have been transferred to other new genera.

While reporting two new rare species of *Candolleomyces* from China, Yan (Bau & Yan 2021) proposed a new combination for *Psathyrella cladii-marisci* based on a molecular (ITS) analysis: *Candolleomyces cladii-marisci* (G. Sicoli, N.G. Passalacqua, A.B. De Giuseppe, A.M. Palermo & G. Pellegrino) J.Q. Yan comb. nov. Moreover, a new record of *C. cladii-marisci* was recently reported from Thailandia based on a morphological and molecular (ITS and LSU) identification (Bhunjun et al. 2022). However,

the new combination was referred to the name *P. cladium-mariscii* Sicoli, N.G. Passal., De Giuseppe, Palermo & Pellegrino (Sicoli et al. 2019a), which was invalidly published because the protologue had not included the citation of the identifier issue for the name by a recognized repository (Turland et al. 2018: Art. F.5.1), thus rendering invalid the new combination, too. Recently, the name was validly published by Sicoli et al. (2022), also integrating the first invalid description with some corrections (Sicoli et al. 2019b), and including further details from the second new detection from Europe (Deschuyteneer et al. 2020).

Here, we transfer the validly published name to *Candolleomyces* and make the new combination.

***Candolleomyces cladii-marisci* (Sicoli, N.G. Passal., De Giuseppe, Palermo, Pellegrino, D. Deschuyteneer & Voto) N.G.Passal. & Sicoli, comb. nov.**

*Psathyrella cladii-marisci* Sicoli, N.G. Passal., De Giuseppe, Palermo, Pellegrino, D. Deschuyteneer & Voto Mycological Observations 3: 44 (2022)[Basionym].

**Type.** ITALY. Calabria, Cosenza, Rende, Orto Botanico Università della Calabria. 39°21'25.05"N, 16°13'44.57"E, 220 m a.s.l., marsh at the base of cut culms of a *Cladium mariscus* (L.) Pohl plant, transplanted from Lago dell'Aquila (Laureana di Borrello, Reggio Calabria, southern Italy) at the corner of a concrete tank maintained full of water, 10 April 2018, Antonio Biagio De Giuseppe & Giovanni Sicoli (holotype CLU F302).

## References

- Bau T, Yan J-Q (2021) Two new rare species of *Candolleomyces* with pale spores from China. MycoKeys 80: 149–161. <https://doi.org/10.3897/mycokeys.80.67166>
- Bhunjun CS, Niskanen T, Suwannarach N, Wannathes N, Chen Y-J, McKenzie EHC, Maharachchikumbura SSN, Buyck B, Zhao C-L, Fan Y-G, Zhang J-Y, Dissanayake AJ, Marasinghe DS, Jayawardena RS, Kumla J, Padamsee M, Chen Y-Y, Liimatainen K, Ammirati JF, Phukhamsakda C, Liu J-K, Phonrob W, Randrianjohany É, Hongsan S, Cheewangkoon R, Bundhun D, Khuna S, Yu W-J, Deng L-S, Lu Y-Z, Hyde KD, Lumyong S (2022) The numbers of fungi: are the most speciose genera truly diverse? Fungal Diversity 114: 387–462. <https://doi.org/10.1007/s13225-022-00501-4>
- Deschuyteneer D, Sicoli G, Palermo AM, Wächter D (2020) Découverte et description de *Psathyrella cladii-marisci* Sicoli, NG Passal, De Giuseppe, Palermo & Pellegrino dans la réserve naturelle de Torfbroek. Bulletin de l'Association des Mycologues Francophones de Belgique 13: 38–42.
- Sicoli G, Passalacqua NG, De Giuseppe AB, Palermo AM, Pellegrino G (2019a) A new species of *Psathyrella* (Psathyrellaceae, Agaricales) from Italy. MycoKeys 52: 89–102. <https://doi.org/10.3897/mycokeys.52.31415>

- Sicoli G, Passalacqua NG, De Giuseppe AB, Palermo AM, Pellegrino G (2019b) Corrigendum: Sicoli G, Passalacqua NG, De Giuseppe AB, Palermo AM, Pellegrino G, 2019. A new species of *Psathyrella* (Psathyrellaceae, Agaricales) from Italy. MycoKeys 52: 89–102. <https://doi.org/10.3897/mycokeys.52.31415>. MycoKeys 58: 129–129. <https://doi.org/10.3897/mycokeys.58.38856>
- Sicoli G, Passalacqua NG, De Giuseppe AB, Palermo AM, Pellegrino G, Deschuyteneer D, Voto P (2022) Validation of *Psathyrella cladii-marisci*. Mycological Observations 3: 45–47.
- Turland NJ, Wiersema JH, Barrie FR, Greuter W, Hawksworth DL, et al. [Eds] (2018) International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code) adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017. Regnum Vegetabile 159. Glashütten: Koeltz Botanical Books. <https://doi.org/10.12705/Code.2018>
- Wächter D, Melzer A (2020) Proposal for a subdivision of the family *Psathyrellaceae* based on a taxon-rich phylogenetic analysis with iterative multigene guide tree. Mycological Progress 19: 1151–1265. <https://doi.org/10.1007/s11557-020-01606-3>