

Outlineoffungi.org - Note 734 [Purpureodiscus](#)

Web-links: [Index Fungorum](#), [Facesoffungi](#), [Mycobank](#)

[Purpureodiscus](#) (G. Hirsch) Van Vooren

[Purpureodiscus](#) is a saprobic genus with four accepted species, *P. bananincola* (Rehm) Van Vooren, *P. kreiselii* (G. Hirsch) Van Vooren, *P. luteorosellus* (Le Gal) Van Vooren and *P. subisabellinus* (Le Gal) Van Vooren ([Van Vooren 2020](#)), in *Pezizaceae* (*Pezizales*). *Purpureodiscus bananincola* was found on dead banana in Philippines; *P. kreiselii* was isolated from damp soil in Germany, *P. luteorosellus* was collected from dead wood amongst *Coffea Arabica* in Congo and *P. subisabellinus* was on rotten wood in France ([Rehm 1913](#); [Le 1959](#); [Le 1967](#); [Hirsch 1992](#)). [Purpureodiscus](#) is characterized by discoid or pulvinate, whitish to reddish, or purplish brown ascomata, ectal excipulum of textura globulosa/angularis, with large cells, operculate asci with croziers, diffusely amyloid reaction of ascus wall, filiform paraphyses containing small vacuolar bodies, and elliptical to oblong ascospores with or without isolated warts ([Van Vooren 2020](#)). [Purpureodiscus](#) was originally a section of *Peziza* with *Pe. subisabellina* as the type species ([Hirsch 1992](#)). Trimbach et al. (1999) replaced *Pe. subisabellina* in *Pachyella* based on the asci wall with diffusely amyloid reaction. Hansen et al. ([2001](#), [2005](#)) used the different amyloid reaction of asci apex and the phylogenetic analyses based on LSU, *rpb2*, *tub2* data to divide the species of *Peziza* into seven groups, and revealed *Pe. subisabellina* and *Pe. bananincola* form an isolated group. Van Vooren (2022) raised *Peziza* sect. [Purpureodiscus](#) to the generic rank and specified *P. subisabellinus* as the type species based on the research results of Hansen et al. ([2001](#), [2005](#)) and Pfister et al. (1978, 1979, 1991, [2015](#), 2016).

References

- Hansen K, Læssøe T, Pfister DH. 2001 – Phylogenetics of the *Pezizaceae*, with an emphasis on *Peziza*. *Mycologia* 93(5), 958–990. <https://doi.org/10.1080/00275514.2001.12063229>
- Hansen K, LoBuglio KF, Pfister DH. 2005 – Evolutionary relationships of the cup-fungus genus *Peziza* and *Pezizaceae* inferred from multiple nuclear genes: *RPB2*, β -*tubulin*, and LSU rDNA. *Molecular Phylogenetics and Evolution* 36(1), 1–23. <https://doi.org/10.1016/j.ympev.2005.03.010>
- Hirsch G. 1992 – Über einige *Peziza*-Arten mit rötlichen Pigmenten. *Boletus* 16(1), 3–9. https://www.zobodat.at/pdf/Boletus_16_0003-0009.pdf
- Le Gal M. 1959 – Discomycètes du Congo belge d'après les récoltes de Madame Goossens-Fontana. *Bulletin du Jardin Botanique de l'État à Bruxelles* 29, 73–132. <https://doi.org/10.2307/3666915>
- Le Gal M. 1967 – Validation de plusieurs taxa. *Bulletin de la Société Mycologique de France* 83(2), 356–358.
- Pfister DH. 1978 – Type studies in the genus *Peziza*. IV. Operculate discomycetes collected by F.E. Clements. *Mycotaxon* 7(2), 214–217.
- Pfister DH. 1979 – Type studies in the genus *Peziza*. VII. Miscellaneous species described by M.J. Berkeley and M.A. Curtis. *Mycotaxon* 8(2), 339–346.
- Pfister DH. 1991 – A redescription of *Peziza bananicola* and comments on some similar tropical species. *Mycotaxon* 41(2), 505–507.
- Pfister DH. 2015 – *Pezizaceae* taxonomy and classification: Boudier, Cooke and Korf. *Ascomycete.org* 7 (6), 239–244. <https://ascomycete.org/Portals/0/Archives/AscomyceteOrg%2007-06%20239-244.pdf>
- Pfister DH, LoBuglio KF, Kristiansen R. 2016 – Species of *Pezizas*. str. on water-soaked

wood with special reference to a new species, *P. nordica*, from central Norway. Sydow 68, 173–85.

Rehm H. 1913 – *Ascomycetes philippinenses* (Vol. 3). Verlag nicht ermittelbar. <https://books.google.com/books?hl=en&lr=&id=G6JCAAd8D4voC&oi=fnd&pg=PT3&dq=Rehm+H+1914.+Ascomycetes+philippinenses++V.+Leaflets+of+Philippine+Botany.+6:2191-2237&ots=RNP5WCuZfm&sig=rToyfLcG47EvcaL8bs63xdZGUtM#v=onepage&q&f=false>

Trimbach J. 1999 – Novitates. Documents Mycologiques 29(113), 8.

Van Vooren N. 2020 – Reinstatement of old taxa and publication of new genera for naming some lineages of the *Pezizaceae* (*Ascomycota*). *Ascomycete.org* 12(4), 179–192. <https://doi.org/10.25664/ART-0305>

Entry by

Hongli Su, ¹Center of Excellence in Fungal Research, Mae Fah Luang University, Chiang Rai, Thailand; School of Science, Mae Fah Luang University, Chiang Rai, Thailand; ²Yunnan Key Laboratory of Fungal Diversity and Green Development, Key Laboratory for Plant Diversity and Biogeography of East Asia, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, China

(Edited by **Kevin D Hyde & Rekhani Hansika Perera**)

Published online 14 March 2023