

Tephroderma

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Fungalpedia – Note 425, *Tephroderma*

Tephroderma Contu & Musumeci

Citation when using this data: Tibpromma et al. 2024 (in prep.) – Fungalpedia, Macrofungi.

Index Fungorum, Facesoffungi, MycoBank, GenBank, Fig. 1

Classification: *Incertae sedis*, *Agaricales*, *Agaricomycetidae*, *Agaricomycetes*, *Agaricomycotina*, *Basidiomycota*, *Fungi*.

Tephroderma was first introduced by Musumeci and Contu (2014), with *T. fuscopallens* as the type species, but the genus is still only a single species. Later, Sesli and Sesli (2016) confirmed this genus based on morphological, ecological, and molecular data (ITS). This genus is characterized by the cap of the basidiocarp, which is initially hemispherical or convex, flat as mature, and the center is more or less concave. It resembles a funnel, and its edges are irregular or wavy. Approximately one-third of the surface is striped, whereas the surface is smooth, hygroscopic, blackish brown or greyish ash-colored, and becomes darker when mature. The lamellar medium is extremely dense, flexible, thick, varying in length, highly decurrent, whitish-gray in young members, and grayish when mature; thick handle and hard, elastic, lighter in color than the hat, smooth surface, shiny, sometimes covered with whitish-gray small hyphae in the upper part, erased, sometimes flattened, curved, and at the base covered with white mycelium (Musumeci & Contu 2014). The cap content is elastic and grayish brown; its smell is not evident at first. It is unattractive when chewed or inedible. Basidiospores are transparent, inamyloid, ellipsoid or round-ellipsoidal, thin-walled, mostly attached to each other, and have a prominent apiculus and two to four spores basidia (mostly four spores), club-shaped, and basal hooks with hyphae hymenium are cylindrical, thick, and arranged regularly or irregularly; the cap surface is long and contains gray-brown pigments; the stem skin is composed of transparent, parallel,

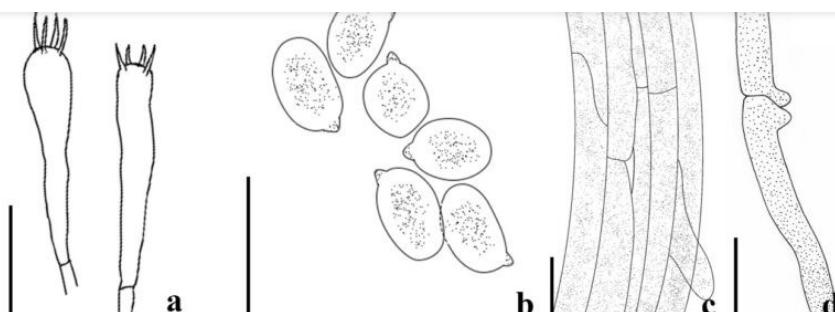


Figure 1 – *Tephroderma fuscopallens*. **a** Basidia. **b** Basidiospores. **c** Stipepellis. **d** Pileipellis. Scale bars: a-d = 10 μ m. Redrawn from Sesli and Sesli (2016).

References

Musumeci E, Contu M. 2014 – *Tephroderma* (Agaricomycetidae, Tricholomatoide clade), un nuovo genere di basidiomiceti lamellati dalla Francia, Bollettino dell'Associazione Micologica ed Ecologica Romana 91, 20–30.

Sesli E, Sesli AT. 2016 – A new genus record (*Tephroderma*) for the Turkish mycota. Biological Diversity and Conservation 9/2 (2016), 202–206.

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