

Matchmaker: Mushrooms of the Pacific Northwest

Below are written descriptions and images of fruiting bodies, mushrooms, of the fungal species in this ectomycorrhizal association. The information is from the web version of the Matchmaker: Mushrooms of the Pacific Northwest (MMPNW) created by the Canadian Forest Service and based on the Windows MMPNW version 1.3 by Ian and Eli Gibson.

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LATIN NAME(S) *Tricholoma platyphyllum* (Murr.) Murr.

NOTES not to be confused with *Tricholomopsis platyphylla* which is an alternate name for *Megacollybia platyphylla*; *Tricholoma platyphyllum* similar to *inamoenum* and may be the same species according to Arora and Smith, but PNW keys give "white to yellow buff" cap for *platyphyllum* as opposed to "dingy white to pale yellow gray" for *inamoenum*, gills "white to light buff, on aging dark yellow" as opposed to "white sometimes blackening" and stem "whitish" as opposed to "whitish yellow, can [be] brown at base", some differentiate by more distant gills in *platyphyllum*, odor is the same; Smith says that if the European species consistently has the small spores attributed to it by Lange(1) and Konrad and Maublanc (1928), Murrill's species should be classed as a variety of it; description from Murrill(1) except where noted; found in WA and OR by Smith, and reported from BC according to Paul Kroeger

CAP 3-5cm, convex to slightly depressed; white with a creameous tint (white to yellow buff); smooth, more or less bald, "margin entire, concolorous"

FLESH rather thick

GILLS subdistant, very broad, ventricose; white, (Murrill), gills widely spaced (Arora), broad, distant, (Smith)

STEM 8cm long and 0.5-0.9cm wide, widening downwards to swollen base; pure white, smooth, bald

ODOR coal tar (Arora), like *Tricholoma sulphureum* (Smith)

TASTE distinctive (Smith)

HABITAT type in humus in woods (Murrill), associated with conifers (Arora)

SPORE DEPOSIT presumably whitish

MICROSCOPIC spores 8.5 x 6 microns, (type remeasured at 9-11(12) x 6-7.5(8) microns by Smith), elliptic, smooth, granular, colorless, (Murrill), spores 10-12 x 6.5-8 microns from deposits, turn yellowish-brown in iodine, (Smith)

NAME ORIGIN *platyphylla* means "with broad gills"

SIMILAR like *inamoenum*, see NOTES above, similar to *sulphureum* which is more yellow, similar to *bufonium* which is purple brown to reddish brown, similar to *odorum* and *sulphurescens* which have more variable odors

SOURCES Murrill(1) (described as new species of *Melanoleuca*), PNW keys, Arora, Smith(14)

FAMILY *Tricholomataceae* of Order *Agaricales*