

## 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)** *Gymnopilus penetrans* (Fr.ex Fr.) Murrill  
*Mycologia* 4: 254. 1912; *Flammulina penetrans* (Fr. ex Fr.) Quelet;  
*Fulvidula penetrans* (Fr. ex Fr.) Singer

**ENGLISH NAME(S)** small yellow *Gymnopilus*

**NOTES** member of Arora's sapineus group but (like *flavidellus*) with smooth yellow to yellow-orange cap and whitish evanescent veil; distinctive characters include bald cap, white flesh, gills rusty-spotted at maturity or when old, white veil, no pileocystidia, caulocystidia gregarious or in tufts, (Hesler); Hesler studied material from WA, OR, ID, also PQ, CA, ME, MI, MO, TN, TX, WY, Jamaica, Sweden, reported from BC by Schalkwijk-Barendsen

**CAP** 3-5cm, bell-shaped-convex then more or less flat; chrome yellow to golden and fading yellowish; bald, not viscid, (Hesler), 2-5cm, bellshaped to convex then flattened, often with a wavy margin; chrome yellow to golden then tawny and fading yellowish when old; smooth, (Phillips)

**FLESH** white or whitish (Hesler), whitish, (Phillips)

**GILLS** adnate to sinuate, close, medium broad; at first pale yellow or yellowish white, becoming rusty-spotted with age, (Hesler), adnate, close, moderately broad; gold or yellowish white becoming tawny-spotted, (Phillips)

**STEM** 4-6cm x 0.4-0.7cm, equal or sometimes enlarged toward base; pallid, paler than pileus, base white-tomentose, (Hesler), 4-6cm x 0.4-0.7cm, sometimes enlarged toward base; yellowish, base white with downy hairs, (Phillips), yellow to russet, (Courtecuisse), yellow top and bottom half red-brown to dark brown, (Schalkwijk-Barendsen)

**VEIL** white, fibrillose, fleeting, (Hesler), fibrous, white, leaves no ring, (Phillips)

**ODOR** none or mild (Hesler, Phillips)

**TASTE** bitter (Hesler, Phillips)

**EDIBILITY** no (Phillips)

**HABITAT** on wood of conifers and hardwoods, at times on sawdust, (Hesler), singly or in small tufts on hardwoods and conifers, (Phillips)

**SPORE DEPOSIT** orange-brown (Phillips)



Alvin Funk



Michael Beug

**MICROSCOPIC** spores (6.5)7-9(9.5) x 4-5.5 microns, elliptic in face view, somewhat almond-shaped in profile, verrucose, dextrinoid, no germ pore, (Hesler); basidia 4-spored, 24-31 x 6-7 microns; pleurocystidia 25-33(50) x 4-7 microns, ventricose, cheilocystidia 25-34(48) x 3-7 microns, flask-shaped, apices capitate or non-capitate, at times expanding up the sides of the gills; gill trama of subparallel hyphae 4-7 microns broad; cap trama radial, cuticle of repent, sometimes incrustated hyphae, pileocystidia none; caulocystidia 30-50(66) x (2)6-8(13) microns, flask-shaped to clavate, more or less clavate, gregarious or in tufts; clamps present, (Hesler)

**NAME ORIGIN** penetrans mean "intruding"

**SIMILAR** like sapineus which has scaly cap, yellow veil and pileocystidia present; like flavidellus whose veil is pallid, odor is sometimes aromatic or radishlike, and pileocystidia are present (Hesler) and it stains orange-brown when handled (Arora)

**SOURCES** Hesler(2), Phillips\*, Schalkwijk-Barendsen\*, Courtecuisse\*, Lincoff(2)\*, Arora

**FAMILY** Cortinariaceae of Order Agaricales