

## 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)** *Gymnopus peronatus* (Bolt.:Fr.) Antonin, Halling, & Noordel.; *Marasmius peronatus* Fr.; *Marasmius urens* (Bull.:Fr.) Fr.

**ENGLISH NAME(S)** wood woolly-foot

**NOTES** distinctive field characteristics are yellow gills when young, and acrid (peppery) taste according to Halling, other features include reddish brown to buff cap +/- yellow tint, stem colored about as cap often with yellow tinge or yellow hairs, and peppery taste; *Gymnopus subnudus* has been frequently misidentified as this taxon in the past according to Halling and he uses the acrid taste of *peronatus* as one of the characters to differentiate it from *subnudus* with bitter taste; *peronatus* known from WA, OR, Europe (Halling), and reported from Mexico (Guzman(2)), North Africa and Asia (Breitenbach)

**CAP** 2-5cm, domed to flat; pale reddish brown, sometimes with yellowish tone, (Moser), 3-6cm, convex to flat; reddish brown to buff with +/- yellow tint, wrinkled with age, (Hansen), up to 8cm, brownish to reddish, gray or bright yellow-brown, (Courtecuisse), hygrophanous, photograph shows prominent umbo, (Halling), 2.5-5(7)cm, convex to flat, margin always downturned, with small umbo; pale brown, hazel-brown; satiny, "radially fibrillose and finely whitish floccose-scurfy", (Breitenbach), often striate in moist conditions (B. Luther, pers. comm.)

**FLESH** +/- thick, toughish; whitish to sulfur-yellow, (Breitenbach)

**GILLS** the same color as cap or lighter, (Moser), cream to yellow brown, (Hansen), free, distant, narrow; brownish or yellow ocher, (Courtecuisse), distant, broad; yellow when young, (Halling), free, 60-70 reach stem, 3-7 subgills between pairs of gills; light brownish to yellow, also with a lilac tint; edges with pale flocci, (Breitenbach), pale yellowish orangish (B. Luther, pers. comm.)

**STEM** 3-7cm x 0.3-0.5cm, colored as gills, (Moser), 3-7cm x 0.3-0.5cm, colored as cap; strigose in lower half, (Hansen), up to 8cm long and up to 0.5cm wide, concolorous or yellow; "pruinose to shaggy with bright yellow hairs below", 5-8 x 0.3-0.5cm, cylindric, widened somewhat at base; base covered with yellowish mycelium, with yellow-brownish longitudinal fibrils above, "smooth to somewhat longitudinally grooved, sometimes also tomentose to strigose", (Breitenbach), horny, with an extensive booted, or peronate, strigose hairy base (coarse hairs growing at right angles to the stem) that can extend for 1/3 the length of the stem, (B. Luther, pers. comm.)

**VEIL** presumably none

**ODOR** none (Moser), of vinegar when rubbed (Courtecuisse)

**TASTE** acrid (peppery), (Halling), burning sharp (Moser), bitter (but see NOTES above) (Hansen)

**HABITAT** usually in clumps on leaves or conifer needles, (Moser), on dead leaves and needles (Hansen), in woods (Courtecuisse), solitary to gregarious and cespitose (tufted) in hardwood and coniferous forests, on leaves and needles, especially common among beech leaves, (Breitenbach)

**SPORE DEPOSIT** light cream-ocher (Breitenbach)

**MICROSCOPIC** spores 6-8 x 3-4 microns, (Moser), spores 6-9 x 3-4 microns, elliptic, (Hansen), 7.5-11.2 x 3.6-4.5 microns, elliptic to fusiform-elliptic, smooth; basidia 4-spored, cylindric-clavate, 28-40 x 4.5-6 microns, with basal clamp; cheilocystidia abundant, 70-100 x 4-7 microns, slenderly fusiform, most rostrate to branched apically, pleurocystidia similar but less abundant, (Breitenbach(3) who note however discrepancy in spore sizes from other descriptions, and also note Lange's comment that some authors consider *Marasmius peronatus* to be a large-spored form and *M. urens* a small-spored form)

**NAME ORIGIN** means 'booted'

**SIMILAR** *dryophilus* lacks the peppery taste

**SOURCES** Moser(1) (as *Collybia*), Hansen, L.(2) (as *Collybia*), Courtecuisse\*(as *Collybia*), Halling(1)\*, Guzman(2) (as *Collybia*), Breitenbach(3)\*

**FAMILY** Tricholomataceae of Order Agaricales