

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) *Cortinarius sanguineus* (Fr.) Fr. *Epicr. Syst. mycol.*: 288. 1838; *Dermocybe sanguinea* (Wulf.:Fr.) Wunsche

ENGLISH NAME(S) blood-red Cortinarius

NOTES subgenus *Dermocybe*; characterized by small to medium size, blood red to dark red cap, flesh, gills, and stem, dry cap and stem, ochraceous to orange-ochraceous mycelium over stem base, fleeting cortina tinged red, rusty-brown spore deposit, and rough spores; found at least BC, WA, OR

CAP 1.8-4.5cm, somewhat obtuse to convex or flat, disc more or less depressed, margin incurved to decurved; rich red to deep red or tinted with colors of the margin, on margin rich red or duller red, sometimes streaked deep red to fuscous red; appressed fibrillose to minutely scaly, sometimes radially cracked on margin, (*Ammirati*), obtusely bell-shaped becoming convex to flat or broadly umbonate; evenly deep carmine-red to blood red or deep red; dry, silky or finely fibrillose, (*Arora*)

FLESH in cap watery deep red, where faded or beneath cap skin lighter red, in stem rich red throughout or deeper red in lower part, (*Ammirati*), thin, blood red to reddish purple, (*Arora*)

GILLS sinuate to broadly depressed with a more or less decurrent tooth, close, more or less ventricose when mature; at first rich red, becoming shaded rusty brown to dusky brown from spores; edges uneven, (*Ammirati*), adnate to adnexed, blood-red to dark blood-red, but when old dusted with cinnamon colored spores, (*Arora*)

STEM 4.5-8.5cm x 0.3-0.9cm, equal or slightly widening downward, stuffed to narrowly hollow; rich red or duller red, sometimes with watery deep red streaks, base or lower third dull ochraceous or the ochraceous coloration slightly tinted orange to reddish; dry, fibrillose, shiny, (*Ammirati*), 4-10cm x 0.3-0.5(0.8)cm, equal or slightly thicker below; same color as cap or slightly darker; dry, base with yellowish to yellow-orange or sometimes pinkish downy hairs, (*Arora*)



Ben Woo



Michael Beug

VEIL cortina red or at least tinged red, often scanty, fleeting, may leave a few hairs on stem, (Arora)

ODOR somewhat fragrant, mild or radishy, (Ammirati)

TASTE mild to radishlike (Ammirati)

EDIBILITY unknown (Arora), no (Phillips)

HABITAT gregarious in mixed woods, mixed conifers, and Douglas fir stands, (Ammirati), mainly under conifers and often in beds of moss, (Arora)

SPORE DEPOSIT rusty- to reddish-brown (Arora)

MICROSCOPIC spores 6.5-9(10) x (3.5)4.5-5(5.5) microns, elliptic to ovate, minutely rough (verruculose), (Ammirati); basidia 4-spored, 15-25 x 6-7.5 microns, broadly clavate, clavate, or more or less ventricose, colorless to pinkish; pleurocystidia absent, cheilocystidia 12-23 x 7-10 microns, clavate to broadly clavate, thin-walled, color similar to basidia; clamp connections present throughout the fruiting body, (Ammirati), spores 6-9 x 4-6 microns, elliptic, minutely roughened, (Arora), no pleurocystidia, marginal cells clavate to ventricose, some septate, 22-32 x 8-15 microns, (Breitenbach)

NAME ORIGIN means 'blood-red'

SIMILAR like californicus somewhat, but cap not hygrophanous; watch also for sierraensis a rare species found in Sierra Nevada Mountains, which is distinguished from sanguineus by silky fibrillose, brownish orange to brownish red-orange cap, lack of ochraceous mycelium on stem base, and spores 7.7-9.1(9.5) x 4.8-5.5(5.8) microns

SOURCES Ammirati(7) (as Dermocybe), Arora, Phillips*, Lincoff(2)*, Kibby*, Courtecuisse*, Barron*, Schalkwijk-Barendsen*, Breitenbach(5)*

FAMILY Cortinariaceae of Order Agaricales