

Discovery and description of the sexual morph of *Lecanicillium fungicola*

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Purpose: *Lecanicillium fungicola* (Hypocreales, Cordycipitaceae) is a mycoparasite of Agaricaceae. This species has not had the sexual morph found. We found it for the first time in Japan and report the description of it.

Methods: Specimen on *Pleurotus sp.* sporocarp was collected at Mikuni pass, Minamitsuru, Yamanashi, Japan. For observations of the asexual morph, a culture from ascospores of the specimen was incubated on PDA and PCA. Thirty or fifty measurements for each morphologically characteristic [av. $12.24 \pm 1.27 * 4.4 \pm 0.29$ μm , $n = 50$]. Characteristics in culture colonies on structure were made.

Results: The characteristics of morphology is the following. Subiculum is light brown~brown and KOH(-). Ascospores are hyaline, long ellipsoidal to naviculate, 0-1 septa and (9.8-)11.8-13.8*(3.9-)4.3-4.9 μm PDA are growing to reach 33-39mm in diam. after 7 days at 25°C, floccose and wax white to yellowish white. Conidiophores are verticillium like. Conidia are long ellipsoidal to cylindrical and (3.9-)4.5-5.9(-9.8)*1.9-2.3(-2.9) μm [av. $5.46 \pm 1.15 * 2.26 \pm 0.19$ μm , $n = 50$]. Chlamydospore is absent.

Conclusions: Morphological characteristics of the sexual morph of *L. fungicola* was similar to those of genus *Hypomyces* which is phylogenetically distinct from *Lecanicillium*.