

ACHLYA GLOMERATA sp. nov.

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(WITH PLATE 79, CONTAINING 7 FIGURES)

Hyphae rather stout, branched, not long. About 40–45 μ in diameter at base and tapering to slender tips about 12 μ in diameter at base and tapering to slender tips about 12 μ in diameter. At maturity, the main hyphae strongly incline to segment into elongated sections with dense protoplasm, but the slender apical section is apt to remain almost empty (fig. 1). Zoösporangia almost cylindrical, inclined to be somewhat irregular and often opening by a bent papilla (fig. 2). Oögonia abundant, approximately spherical, without pits; completely covered with short, blunt irregular warts (fig. 3). Oögonia borne on the tips of very slender and delicate, but contorted lateral branches that are either simple, in which case there is but one oögonium (fig. 3), or more or less intricately branched, in which case there are a number of oögonia borne on the tips of the group of branches (figs. 4, 5, and 6). Oöspores single or very rarely two in an oögonium; their diameter 15–23 μ , averaging about 20 μ . Antheridia absent from a good many oögonia, when present, club-shaped; borne on the tips of branches from the same glomerulus and one or several on an oögonium (fig. 5).

This species has been observed several times from two stations at Chapel Hill, North Carolina. The drawings are made from material taken from a cool spring in dense woods ("Lone Pine Spring") on April 30, 1912, and from the springy marsh at the foot of "Lone Pine Hill" on February 29, 1912. Pure cultures have now been kept for about six months.

This species does not closely approach any other; but it seems to be nearest the members of the *racemosa* group. The shape of the antheridia is like those of *A. racemosa* and its relatives, and there is considerable resemblance to the spiny oögonia of *A. racemosa stelligera* and to *A. decorata*, if these two are really distinct.¹ There is also some hint of the habit of *A. glomerata* in the occasional branched oögonial threads of *A. decorata*. In all the

¹ Obel considers *A. decorata* Peterson the same as *A. racemosa* var. *spinosa* Cornu (Annales Mycologici 8: 422. 1910): and Humphrey gives the latter as a synonym of *A. racemosa* var. *stelligera* Cornu.



Coker, William Chambers. 1912. "Achlya glomerata sp. nov." *Mycologia* 4(6), 325–326.

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