

A NEW SPECIES OF ACHLYA

By W. C. COKER and J. N. COUCH

Achlya Orion n. sp.

Hyphal threads long, reaching a length of 1.5 cms. on house-flies, more slender than in most *Achlyas*, from 10-40 μ thick close to base, rarely up to 85 μ thick, often wavy; usually little branched and pointed at tips when young; becoming considerably branched with age. Sporangia abundant, cylindrical, usually borne singly on the tips of the main hyphae in young cultures, renewed by cymose branching, often forming several clusters at regular intervals on the same hypha, irregular and wavy in old cultures, 12-37 x 36-600 μ (rarely up to 900 μ). Spores 9-10 μ thick, emerging as usual in *Achlya*, but often falling to the bottom in an open group instead of forming a sphere at the sporangium mouth. Oogonia abundant on flies, grubs and vegetable media, spread over the entire culture from bases of hyphae to tips, giving the culture a lacy interwoven or net-work appearance; the diameter 30-60 μ , commonly 32-48 μ ; usually borne singly on long, crooked, recurved stalks which arise racemosely from main hyphae and which vary in length from 2-10 times the diameter of the oogonia; often oogonial stalks may branch bearing two oogonia and rarely oogonia may be borne on a stalk which arises directly from another oogonial wall; very rarely intercalary; oogonial wall usually without pits (except where the antheridial tubes enter) when grown on flies or grubs, but as a rule with pits when grown on boiled corn. Eggs 1-8, usually 1 or 2 in each oogonium; 25-45 μ in diameter, most 33-36 μ , eccentric when ripe with one large oil drop; usually spherical, but often elliptical from pressure. Antheridial branches almost always androgynous, usually arising from the oogonial stalk itself, less often from the main hyphae; rarely dichinous; antheridia on about 75% of the oogonia, one or two on an oogonium, tuberos; antheridial tubes obvious penetrating the oogonia and reaching the eggs.

The species seems to be quite rare, having been recognized only twice in considerably over a thousand collections, made by the senior author and his students. It was found in some water and trash collected from the west branch above the Meeting of the Waters



Coker, William Chambers and Couch, John Nathaniel. 1920. "A new species of *Achlya*." *Journal of the Elisha Mitchell Scientific Society* 36, 100–101.

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