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ARTHRINIUM AUREUM SP. NOV. FROM SPAIN

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Arthrinium aureum Calvo & Guarro sp. nov. (Fig. 1)

Coloniae in agaro hordeaceo celerior quam in agaro Czapekii crescunt, post hebdomadas ad 27-28° C, 85-90 mm diam. Coloniae pulvinatae, atrae, mycelium partim superficiale et partim in substrato immersum, ex hyphis anastomosantibus, septatis brunneis, conidiophora ex cellis ampulliformibus, brunneis simplicia, cylindrica, incolorata, septis transversalibus. Conidiophora erecta, simplicia, recta vel flexuosa, incolorata, septis numerosis transversalibus, atro-brunneis praedita. Conidia recta, brunnea, 14-30 × 10-15 μm. Cellae steriles acrogenae. Reverso brunneo. Odor incertum.

Esudatio parum vel nullo. Pigmento diffuente in medio.

Typus cultura F.F.B. 3.450 ex aere urbis Barcinona (Hispania) in anno 1977 isolatus. In collectione fungorum Laboratori Mycologiae Facultatis Farmaciae Barcelona et in collectione fungorum Commonwealth Mycological Institute (CMI) Kew, Surrey, England, IMI 238036.

Colonies on malt extract agar growing faster than on Czapek solution agar, attaining a diameter of 85-90 mm after 2 weeks at 27-28°. Colonies pulvinate, dark blackish brown, conidiomata occasionally erumpent but usually superficial.

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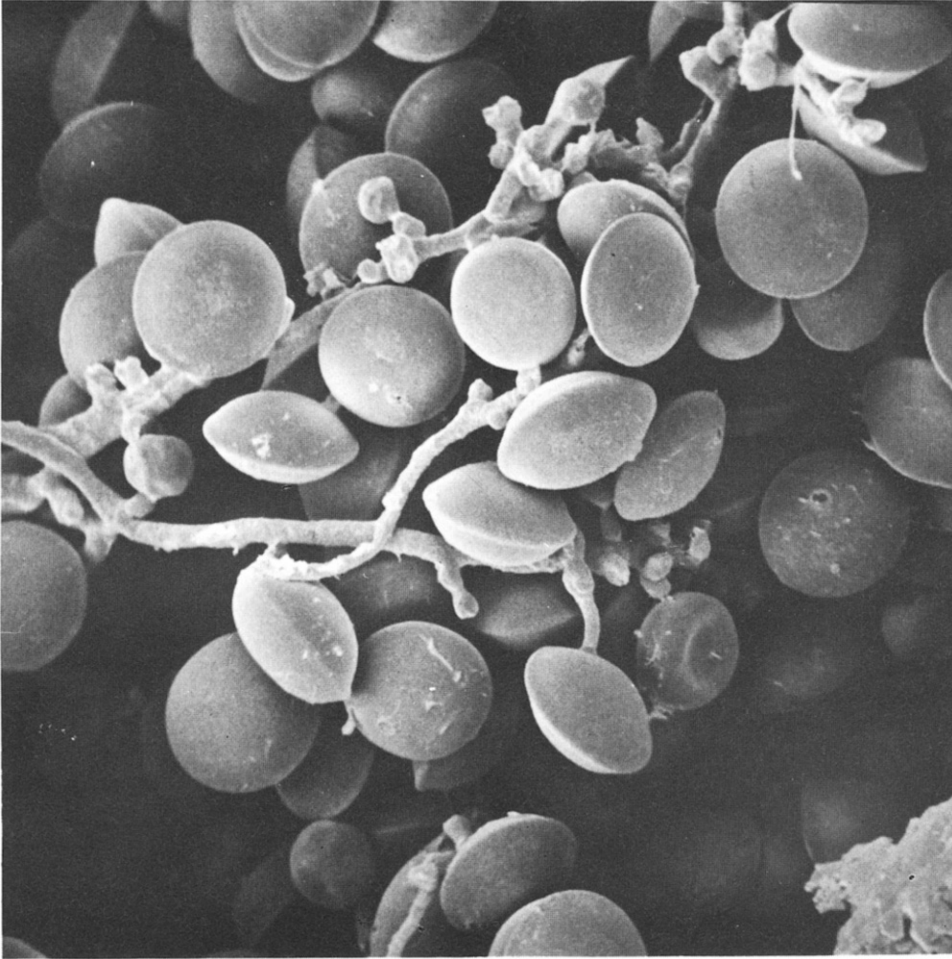


Fig. 1. Micrograph of *Arthrimum aureum* strain F.F.B. 3450 ($\times 1192$).

Mycelium partly superficial, partly immersed, often with connecting hyphae. *Conidiophores* simple, flexuous, colourless, smooth with brown transverse septa, basauxic, macronematous, mononematous, arising singly from mother cells, simple, often narrow, more or less cylindrical, colourless except for the thick transverse septa, brown or dark brown. *Conidiogenous cells* integrated, polyblastic, denticulate. *Conidia* solitary, terminal, and sometimes also lateral with a hyaline rim, brown or dark brown, smooth, 0-septate, $10-30 \times 10-15 \mu\text{m}$. Sterile cells present, terminal in place of conidia, usually smaller and not the same shape as conidia, containing 1-4 refractive bodies. Reverse in brown shades. Odour indistinct. Exudate limited or lacking. Pigment present in surrounding agar in yellow shades.

Arthrimum aureum appears closely related to the species described by Ellis (Ellis, 1971, 1976). It is especially characterized by the unusual size of the conidia. They are larger than in any of the species with lenticular conidia described so far.

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