

**Gönczöl, J. & Révay, A.** 2007. Studies on *Anguillospora longissima*: morphotypes or different species? – *Mycologia Balcanica* 4: 125-130.

**Abstract.** Sigmoid or crescent shaped conidia with acute basal and apical tips, partly resembling those of *Anguillospora longissima* are being encountered in streams in Hungary over the past two decades. Conidia are generally shorter and wider than those described by Ingold. Some of them are with characteristic rostrated distal part. In one of the streams abundant conidia have been observed on several occasions. But their identity with *A. longissima* remained questionable. Monoconidial isolations from the cylindrical, thin, long conidia of *A. longissima* (“longissima”) and the short, wide, rostrate conidia (“rostrate”) collected in the same stream, yielded different cultures. Conidia from strains differed in dimensions and shapes. The “longissima” strain produced exclusively thin, cylindrical-fusoid, “longissima” conidia exactly fitting those described by Ingold. In one of the “rostrate” strains mostly “rostrate” conidia developed. The other “rostrate” strain produced somewhat longer and thinner conidia. However, all of the conidia in both “rostrate” strains, even if some of them overlapped with conidia in the “longissima” strain, could be distinguished by their different degrees in taper. The spatial and temporal distributions of the two types of conidia in Hungary are also discussed.

**Key words:** *Anguillospora longissima* complex, taxonomy