

***Sporormia fimetaria* (Rabenh.) De Not. – AEB 1346 (= PDD 117263)**

Substrate: deer or sheep dung

Date of collection: 31 August 1976

Collection site: Canaan Downs, Takaka

Collector: Joe Grossman; **Identifiers:** Ann Bell and Dan Mahoney

Incubation date: 1 September 1976

Date observed on the dung: 26 October 1976

Voucher material: 1 Shear's mounting fluid (SMF) microscope slide

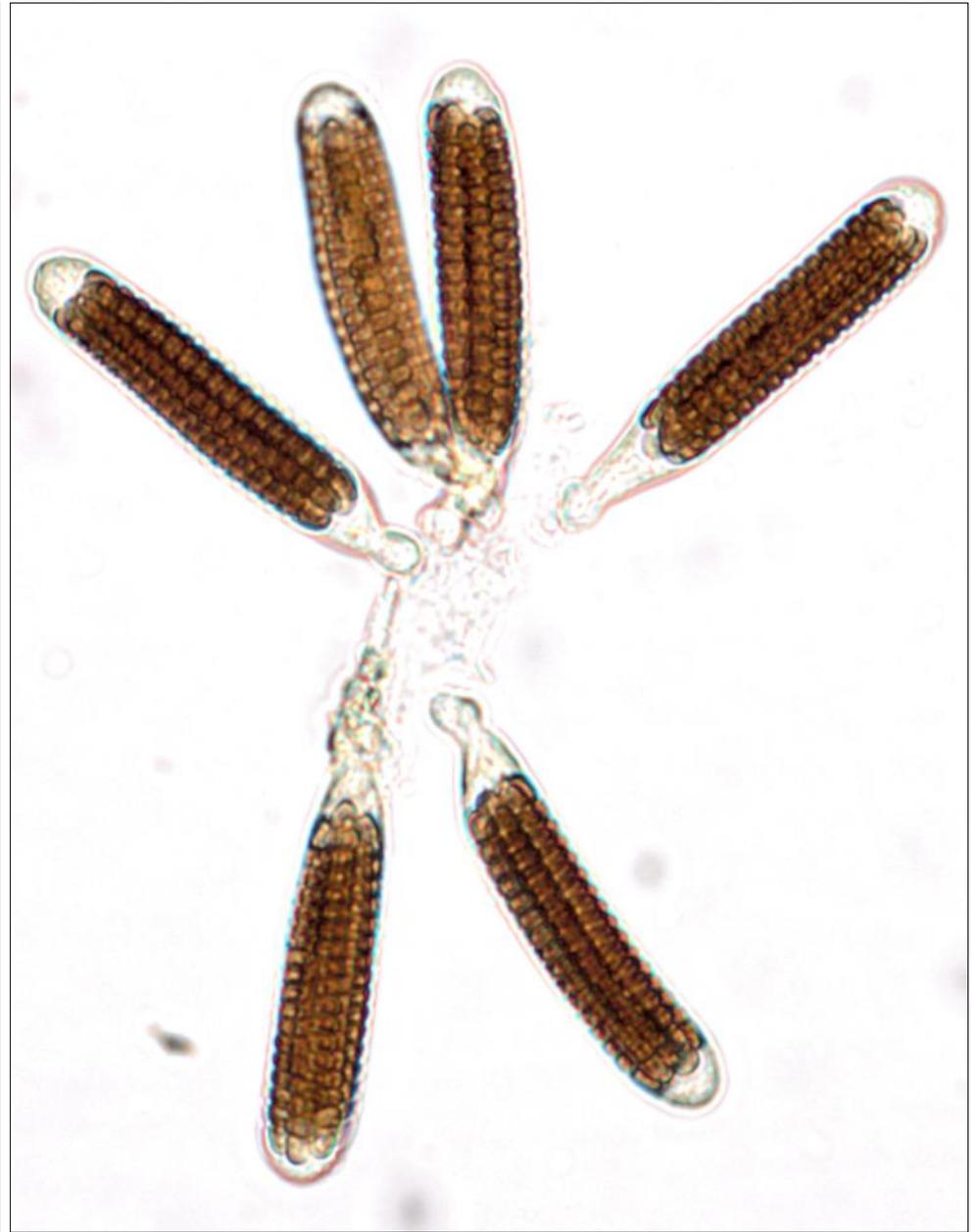
Other fungi also observed on the same dung collection: *Ascobolus hawaiiensis*, *Podospora intestinacea*

Brief description and comments: **Ascomata** scattered on the incubating dung (none on the moist filter paper on which the dung pellets were placed), small, globular with small apical ostioles; peridial cells were brown, smooth and formed a textura angularis of rather large cells. **Asci** numerous, broadly cylindrical and of uniform width throughout, with a rounded apex and narrowing abruptly below to a short stubby stipe. Ascospores filling all but portions just beneath the apex and above the stipe where the hyaline ascospore sheath extensions were located. Asci 55–60 × 10–12.5 µm (n=10). **Ascospores** 8 per ascus, arranged parallel to each other in a corn-cob-like bundle; each ascospore consisting of 16 brown, smooth cells, the apical cells longer than wide and tapering to a rounded apex (mostly 4 × 3–3+ µm) and the middle cells wider than long (mostly 2+ × 3+ µm). Individual ascospores 37–45 × 3–4 µm (n=10) and remarkably similar in size within the same ascospore bundle. Gelatinous sheaths (caudae) at the apices of individual ascospores indistinct in the asci with only their tangled views seen in the uppermost and lowermost portions. Unfortunately, no free ascospores were observed so the shapes and sizes of individual caudae could not be determined.

Comments: A brief description with 2 illustrations for the AEB 1346 collection is given in 'Bell, A. 1983. *Dung fungi: an illustrated guide to coprophilous fungi in New Zealand*. Victoria University Press, Wellington, New Zealand. 88 pp.' For details of how the asci and ascospores for *Sporormia fimetaria* reported in Ann's publication and in this pdf vary among collections reported elsewhere, see the pdf provided in the Landcare Research PDD datastore for PDD 73881 (= AEB 721).



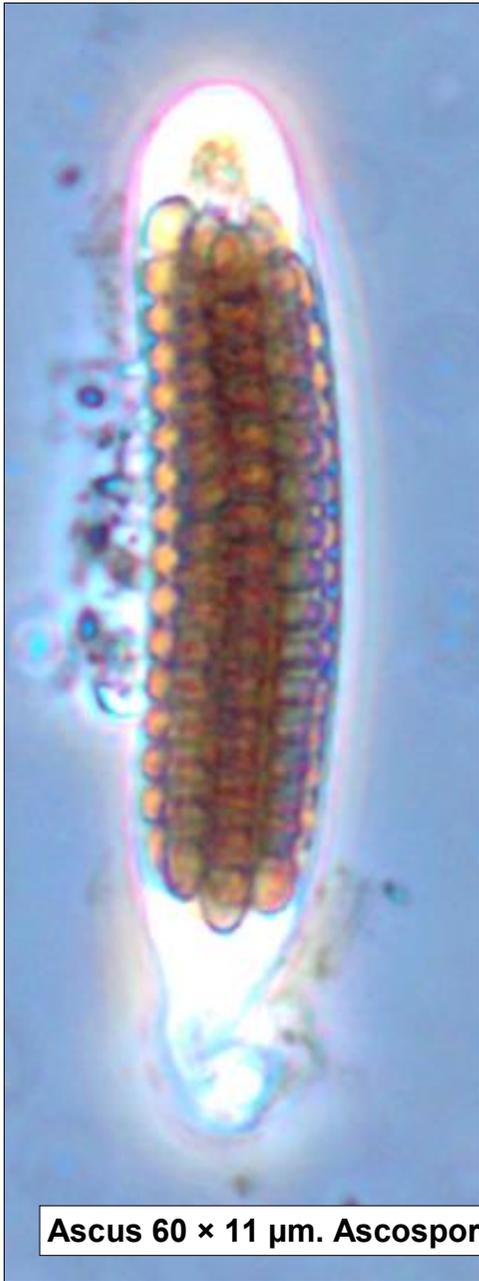
AEB 1346. Slightly squashed ascoma. Note the large-celled textura angularis tissue of the peridium and the asci with their ascospore bundles. Ascoma: 150 × 107.5 μm. Shear's mounting fluid mount using the X40 objective and bright-field microscopy.



AEB 1346. Six mature asci in a Shear's mounting fluid mount using the X40 objective. Left photo, phase microscopy. Right photo, brightfield. Note the rounded apex and short stubby stipe of the asci and their tightly packed, parallel-aligned bundles of 16-celled ascospores. Asci with stipes clearly seen, $57.5 \times 10\text{--}11\text{--}12.5 \mu\text{m}$. Ascospore bundles, $40\text{--}42.5 \times 10\text{--}12 \mu\text{m}$.



AEB 1346. Three mature asci in a Shear's mounting fluid mount using the X40 objective. Left photo, phase microscopy. Right photo, brightfield. Note the rounded apex and short stubby stipe of the asci and their tightly packed, parallel-aligned bundles of 16-celled ascospores. Asci with stipes clearly seen, $55 \times 11+ \mu\text{m}$. Ascospore bundles, $40\text{--}42.5 \times 11 \mu\text{m}$.



Ascus $60 \times 11 \mu\text{m}$. Ascospore bundle $42 \times 10 \mu\text{m}$.



Ascus $55 \times 12 \mu\text{m}$. Ascospore bundle $38 \times 11 \mu\text{m}$.



AEB 1346. Two asci, phase & brightfield of each. Shear's mounting fluid mount using the X40 objective. Note the rounded apex and short stubby stipe of the asci and their tightly packed, parallel-aligned bundles of 16-celled ascospores.