## Short Communication

Pakistan J. Sci. Ind. Res., Vol. 30, No. 8, August 1987

# ASCOLANTHANUS TRISPORUS CAILLEUX FIRST RECORD FROM PAKISTAN 

Sultana<br>Botanical Sciences Division, Pakistan Museum of Natural History, Islamabad

(Received May 8, 1985, revised July 19, 1987)

## INTRODUCTION

Numerous fungi occurring in various habits have been discovered by various authors from Pakistan [1,5]. They along with the other fungi have uncovered the ascomycetous fungi from the dungs of herbivorous animals and on the other substrates. Ascolanthanus trisporus Caill. a pyrenomycetes is a monotypic genus of the family Hypocreaceae [3] has been studied from the cow dung collected from Faisalabad (1981), a contribution to the fungi of Pakistan.

## MATERIALS AND METHODS

Cow dung was collected from Faisalabad (1981). It was repeatedly washed with sterilized water and kept in a moist chamber at laboratory temperature $12-15^{\circ}$ the white powdery hyphomycetes Chalara sp. appeared after 5 -days of incubation. In the second week small fruit bodies of ochraceous colour were observed underneath this colony. Two weeks later the mature perithecia in a stroma were recorded in the 3rd week.

## Description

Ascolanthanus trisporus Caill. [3]. Perithecium stromatic and partly sunken into the ochraceous, glabrous stroma. It is partly pale to light brown, with long neck, basal body globose to subglobose, rounded at the base 400-608.4 x 118-7-133.5 $\mu \mathrm{m}$, Peridoum membranous, angularis, two layered, outer most layer consists of isodimetric cells, elongated in the neck region. The neck is cylindrical, $326.4-445.2 \mu \mathrm{~m}$ long and $89.0 \mu \mathrm{~m}$ wide in the broadest part, gradually narrows towards the ostiole, fringed with short, pointed, hyaline setae. Paraphysis absent Asci subclavate to clavate, deliquescent, number of spores per ascus has not been confirmed, and along with the mucous, come out in bundles. An ascospore has an appendage on both ends, $1-3$ septate. Cylindrical up to the middle of its length, then tapers down $67.7 \times 5.5-6.6 \mu(6.2) \mu \mathrm{m}$ lower appendage $7.7 \times 1.2 \mu \mathrm{~m}$ the head cell flattened, dark brown $6-7.7 \times 5.5 \mu \mathrm{~m}$. A slit $11.0 \times 2.2 \mu \mathrm{~m}$ divides it into two unequal halves.


Plate 1. Ascolanthanus trisporus. (a) ascocarps, (b) ascospores, (c) Imperfect state Chalara.

Chalara sp [6]. Colonies effuse, whitish to grey, aerial hyphae uniformly spreading, hyphopodia absent. Conidiophores macronematous, straight or slightly curve, unbranched, septate, hyaline to olive colour, smooth, broad at the base and cylindrical above $14-.21 \times 3.4 \mu \mathrm{~m}$. Conidia produced endogenously, cylindrical, catenate, smooth, hyaline, developing in long fragile chains $6.7 \times 2.3 \mu \mathrm{~m}$, deciduous connectives and chlamydospores absent.

## DISCUSSION

Ascolanthanus trisporus is congeneric with Pyxidiophora and other related genera $[2,4]$ has discriminated it
from $P$. subspinuliformis. 3-spored ascus has not been critically examined but the protrusion of the ascospores have been observed as in Mycorhynchus and other Pyxidiophoprae [4]. The absence of deciduous connectives is the only difference in the imperfect state.

Acknowledgement Sincere thanks to Dr. Prof. Nils Lundqvist (Sweden) for the authentic identification of the material and for providing the required literature to the author.

Key words: Coprophilous, Pyrenomycetes, First record.

## REFERENCES

1. S. Ahmad, Ascomycetes of Pakistan Part 1 and 2 mono. 7 Biological Laboratories, Govt. College Lahore
pp. 233, 144 (1978).
2. A. Breton and L. Faurel, Etudes des affinities du genera Mycorhynchus Sacc. et description de plusieurs especes nouvelles., Rev. Mycol. (Paris) 32, 229 (1968).
3. R. Cailleus, Un pyrenomycetes fimicole aux asques trispores. Compt. Rend. Seances Acad. Sci. (Paris) 265 Ser. D: 1471 (1967).
4. Nils. Lundqvist, On the genus Pyxidiophora sensu lato (Pyrenomycetes) Nils Lundqvist Botanisko Notiser, 133, 121 (1980).
5. J.H. Mirza and S.A. Qureshi, Fungi of Pakistan Pl. Path. Agric. Univ., Faisalabad., pp. 311 (1978).
6. Chalara sp. Icon. Fungi. 2, 91 (1838), Rabenh, Krypt., F. 1, 38 (1844).
