

TWO INTERESTING FUNGI FROM MALABAR BOTANIC GARDEN, KOZHIKODE, KERALA

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ABSTRACT

This paper deals with an account of two fungi collected from Malabar Botanic Garden, Kozhikode. Of these, *Meliola alangii* var. *salvifolii* var. nov. is a new variety differs from the type species in having 30% opposite appressoria. *Asterina pusilla* is reported here for the first time from India. Both these fungi are described and illustrated in detail.

KEYWORDS

Asterina, Kerala, *Meliola*, new record, new variety

ABBREVIATIONS

HCIO - Herbarium Cryptogamae Indiae Orientalis;
 TBGT - Tropical Botanic Garden, Thiruvananthapuram.

***Asterina pusilla* Sydow.**

(Fig. 1)

Philippine J. Sci. 8: 488, 1913.

Material examined

16.x.2006, in Malabar Botanic Garden, Kozhikode, Kerala, on leaves of *Premna corymbosa* Rottl. & Willd. (Verbenaceae), coll. A. Sabeena *et al.* HCIO 47492, TBGT 2530.

Colonies epiphyllous, thin, dense, crustose, up to 2mm in diameter, confluent. Hyphae straight to undulate, branching alternate, opposite to irregular at acute to wide angles, loosely reticulate, cells 20-48 x 3-5µm. Appressoria alternate, scattered, unicellular, antrorse, subantrorse to retrorse, sublobate to lobate, mostly broad based, 8-11 x 6-11µm. Thyriothecia closely scattered, orbicular, up to 136µm in diameter, stellately dehisced at the centre, margin fimbriate, fringed hyphae long, crooked; asci globose, up to 34µm in diameter; ascospores brown, conglobate, uniseptate, constricted at the septum, 16-22 x 6-10µm, wall smooth. Pycnothyria numerous; pycnothyriospores brown, ovate, globose, pyriform, 10-15 x 10-14µm.

Remarks

This species was known on *Premna nauseosa* from Philippines (Sydow, 1913; Hosagoudar & Abraham, 2000). This is reported for the first time from India on a new host. Perhaps, this is the first collection after its type collection.

Comparative account with the new variety

Name of the species	Colonies	Appressoria	Ascospores
<i>Meliola alangii</i> Sydow	Amphigenous	Alternate, spreading, antrorse	30-37 x 11-14µm
<i>Meliola alangii</i> var. <i>salvifolii</i> var. nov.	Epiphyllous	Appressoria alternate, 30% opposite, antrorse, subantrorse to retrorse	33-37 x 12-16µm

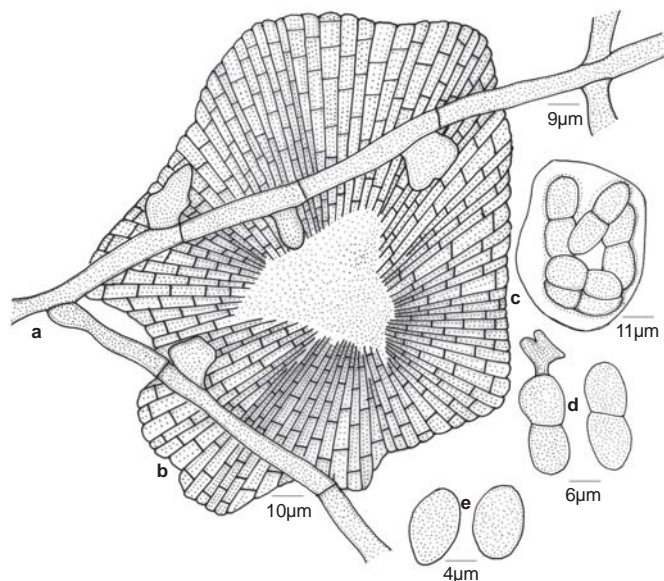


Figure 1. *Asterina pusilla* Sydow
 a - Appressariate mycelium; b - Thyriothecium; c - Ascus;
 d - Ascospores; e - Pycnothyriospores

***Meliola alangii* var. *salvifolii* var. nov.**

(Fig. 2)

Material examined

Type: 16.x.2006, in the Malabar Botanic Garden, Kozhikode, Kerala, on leaves of *Alangium salvifolium* (L.f.) Wagerin (Alangiaceae), coll. A. Sabeena *et al.* HCIO 47493 (type), TBGT 2531 (isotype).

Differt a var. *alangii appressoriis* 30% oppositis.

Colonies epiphyllous, thin, up to 4 mm in diameter, confluent. Hyphae substraight to undulating, branching mostly opposite at acute angles, loosely reticulate, cells 24-29 x 4-8µm. Appressoria alternate, 30% opposite, antrorse, subantrorse to retrorse, 16-19µm long; stalk cells cylindrical to cuneate, 3-8 µm long; head cells cylindrical, oblong, globose, ovoid, broadly rounded to truncate and often narrowed towards its apex, entire, 11-13 x 8-10µm. Phialides mixed with

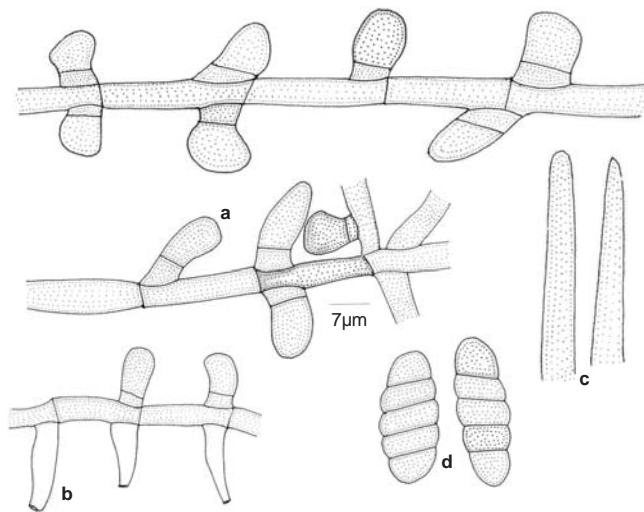


Figure 2. *Meliola alangii* Sydow var. *salvifolii* var. nov. a - Appressorium; b - Phialide; c - Apical portion of the mycelial setae; d - Ascospores

appressoria, alternate to opposite, ampulliform, 12-24 x 6-8µm. Mycelial setae numerous, scattered, simple, straight, acute to obtuse at the tip, up to 500µm long. Perithecia globose, scattered, up to 140µm in diam.; ascospores cylindrical to oblong, 4-septate, constricted at the septa, 33-37 x 12-16µm.

Remarks

Meliola alangii Sydow is the only *Meliola* species known on the members of the family Alangiaceae (Hansford, 1961; Hosagoudar, 1996; Hosagoudar *et al.*, 1997). However, new variety *salvifolii* differs from the var. *alangii* in having 30% opposite appressoria.

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NEW DESCRIPTION

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DESCRIPTION OF A NEW SPECIES OF *ODOPOIA* WALKER FROM INDIA AND RECORD OF TWO SPECIES OF TORYMIDAE FROM ORISSA (HYMENOPTERA: CHALCIDOIDEA)

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ABSTRACT

A new species of *Odoipoia* Walker, Torymidae (Chalcidoidea) is described and illustrated from India. Affinities of the new species with related species discussed. Two species of Torymidae are also reported for the first time from Orissa, India.

KEYWORDS

Chalcidoidea, Hymenoptera, India, new records, new species, *Odoipoia*, Torymidae

ABBREVIATIONS

F1-F7 - Funicular segments 1 to 7; OOL - Ocellocular distance; POL - Postocellar distance; SMV - Sub marginal vein; MV - Marginal vein; PMV - Post marginal vein; STV - Stigmal vein; T1-T3 - Gastral tergites 1 to 3.

During the faunal exploration of south Orissa state by the Zoological Survey of India, Estuarine Biological Station, Gopalpur-on-Sea, interesting torymid species were collected from the coastline habitats and the foot hills of Eastern Ghats in Puri and Kurda districts and the present account is based on the study of the same material. It deals with the description of a new species and two new records from Orissa.

Odoipoia Walker is the sole representative of the tribe Odoipoini of the subfamily Toryminae. Walker (1871) erected the genus *Odoipoia* with type species *O. atra* Walker from Sri Lanka. *Odoipoia* is represented by four species, viz. the type species from Sri Lanka, *O. philippiae* (Risbec) from Madagascar, *O. dentatinota* (Girault) and *O. josephinae* Boucek from Australia. Biological information on only one species, *O. philippiae* (Risbec)

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