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## Black Mildew fungi of Andaman Islands, India

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### ABSTRACT

Black mildews are the leaf-dwelling obligate biotrophs that mostly infect leaves but also on stem, petiole and in some cases on fruits. They are known as “black mildew” as they produce black colonies that are composed of dark, thick-walled, branched, superficial hyphae (Rodríguez *et al.* 2015). Taxonomically, black mildew or black colony-forming parasitic fungi belong to several taxonomic groups, namely, Hyphomycetes (conidial fungi), Meliolales, Asterinales, Englerulaceae, Meliolinaceae, etc. As regards insular floristic studies of Andaman-Nicobar Islands, the floristic enumerations are mostly concentrated with a higher group of plants and interestingly, it is found that this insular region is highly rich in species diversity of higher plant groups, while rather lesser known about the lower groups such as Algae, Fungi etc., owing to a dearth of information. However, detailed documentation on insular microfungal flora associated with higher plants has been initiated during the earlier part of the millennium and is still continuing. This paper enumerates an account of 99 taxa of Black Mildews among 15 genera belonging to eight families collected from various forest localities of the Andaman Islands.

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### INTRODUCTION

The Andaman and Nicobar are a group of ocean archipelagic Islands known as ‘Green Emerald’ or ‘Bay Islands’ comprising 572 Islands. The Andaman group consists of 324 Islands are divided into South, Middle and North Andaman Islands. Andaman and Nicobar Islands are blessed with a unique tropical rainforest canopy and comprised of a mixed flora with elements from Mainland India, Myanmar, Malaysia and Indonesia. Four of the world’s 34 recognized biodiversity hotspots overlap India’s geographic boundaries and the Andaman Islands are part of the Indo-Burma hotspot and Nicobar in Sundaland (Myers *et al.* 2000). Andaman and Nicobar Islands are estimated to harbor a total of 2649 plant taxa, comprising 2508 species and 141 infraspecific categories under 1109 genera distributed over 238 families of bryophytes, pteridophytes, gymnosperms and angiosperms and the latter are the predominant group, comprising of 2314 species (Murugan *et al.* 2016). From a phytogeographical point of view, the insular flora of the Andaman and Nicobar Islands is remarkable. However, in such interesting, floristically rich forests, the study of microfungal taxa co-existing with higher groups of plants is very much meager except for the works done by fungal taxonomists (Lakshmanan *et al.* 1990; Hosagoudar and

Ansari 1991; Sreekumar and Hosagoudar 1991; Hosagoudar and Sreekumar 1992; Hosagoudar and Mathew 2000; Hosagoudar *et al.* 2014; Sabeena *et al.* 2017; Mathew *et al.* 2017; Sabeena *et al.* 2018; Sabeena and Biju 2022). This area is rich in fungal and plant diversity, rarely exposed and fewer work is done from the area and; therefore, we have chosen this part for survey and collection. In this paper, we present information mainly on Black mildew fungal diversity. All the species are arranged alphabetically under their respective host families, and host families are arranged alphabetically.

The present study is the outcome of the extensive and systematic field collection trips conducted to various places in the Andaman Group of Islands. This resulted in the recording of 99 black mildews belonging to 15 fungal genera. All these fungi are grouped under Ascomycetes (Wijayawardene 2020; Hongsanan 2020). Exploration to these virgin forests for black mildew fungi had yielded intriguing results in recording several new taxa as well as pioneer information for database preparation. The present study area forms the type locality for one new genus (*Andamanomyces*), 20 new species (*Andamanomyces fragariae*, *Asteridiella anaxagoreae*, *A. colocasiae*, *Asterina eleocarpigena*, *Asterostomella celasteri*, *A. dhanikariensis*,

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*A. farrargunjensis*, *Irenopsis andamanica*, *Meliola andamanica*, *M. canariifolia*, *M. chukrasicola*, *M. dysoxyl-andamanensis*, *M. harrietensis*, *M. myristicacearum*, *M. parishiae*, *M. savarkarii*, *M. ternstroemiicola*, *M. veebeehosagoudarii*, *Phyllachora andamanica* and *Schiffnerula chukrasiae*) and 5 varieties *Asterina miliusae* var. *andamanica*, *A. combreti* var. *andamanica*, *Meliola pithecellobii* var. *indica*, *M. sempeiensis* var. *nicobarica* and *M. memecyli* var. *andamanica*. In addition to this, two fungi (*Meliola palmicola* and *M. stenospora*) were reported for the first time from India.

### MATERIALS AND METHODS

Field collection trips were conducted to various forest localities of the Andaman Islands. Infected plant parts, preferably flowering twigs, were collected and placed individually in polythene bags. Colony characters of fungus, description of the host plant (tree, shrub, liana; morphology of the leaves such as, simple or compound; plant with milky latex or otherwise), altitude, locality, date of collection, name of the collectors, type of forests, etc. were recorded.

After collection, the infected samples were dried in-between blotting papers by daily changing the materials to fresh blotters. Regular transfer of the collections to the fresh and dry blotters ensured the dryness of the collected specimens. Host identity was confirmed with the help of plant taxonomists and also by matching the materials with authentic herbarium materials and other published literature.

In the laboratory, the nail polish technique (Hosagoudar and Kapoor 1984) was used for the preparation of permanent slides, which were then used to study the structural and morphological characters of black mildew fungi. A drop of high-quality, well, transparent nail polish was applied to the selected colonies with the help of a fine brush without disturbing the colonies. Colonies with hyperparasites (woolly nature) were avoided. As the nail polish dries (in 2-5 minutes), a thin colorless "film" or "flip" is formed with the colonies firmly embedded in it. For soft host parts, the flip was lifted up with a slight pressure on the upper side of the leaves or just below the colonies. In the case of hard host parts, the flip was eased off with the help of a razor or scalpel. A drop of DPX was smeared on a clear slide and the flip was spread properly on it. Care was taken to avoid air bubbles while mounting. One or two more drops of DPX were again added on the flip and clean cover glass was placed over it. A gentle pressure over the cover glass oozes out the excess DPX and it was easily removed after drying. These slides were labeled and placed in the dust-free chamber for one to two days for drying.

After confirming the identity of both hosts and fungi, materials were prepared for herbarium carrying the details of fungus name, hostname, date of collection, locality, name of the collector/s, an expert who identified the specimen and its herbarium number, kept in polythene covers. Later, these covers were placed in thick paper envelopes of convenient size. These envelopes were serially arranged in a rack based on their collection number. The herbarium materials deposited at JNTBGRI herbarium (TBGT), Thiruvananthapuram, Kerala and one duplicate set of the same were deposited with BSI Herbarium (PBL), Andaman-Nicobar Circle, Port Blair. Three field exploration trips were conducted for the collection of foliicolous fungi to North, Middle, South Andaman groups of Islands and Little Andaman Island as shown in Map (Figure 1). The result of the investigation is summarized below.

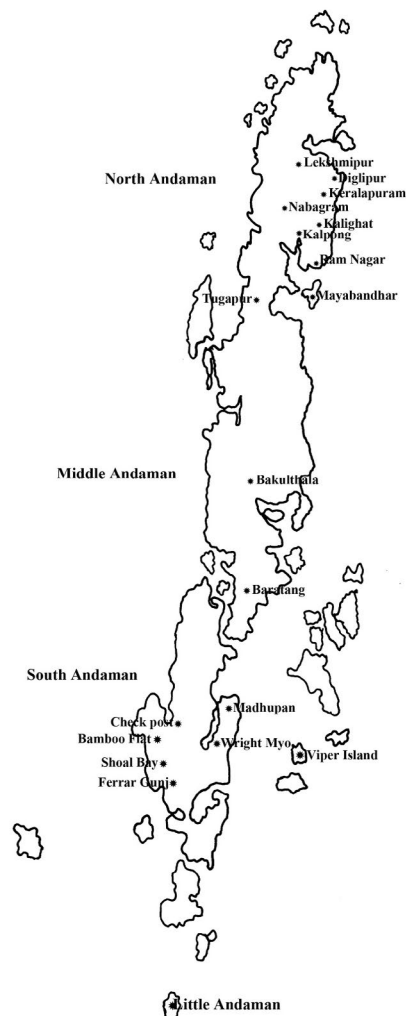


Figure 1: Map showing collection localities in the Andaman Islands

### Enumeration of species

#### ACANTHACEAE

*Asteridiella diotacanthi* Hosag., H. Biju & Manoj

Materials examined: On leaves of *Acanthus ebracteatus* Vahl (Acanthaceae) Guptapara, South Andaman, February 10, 2014, H. Biju & al. TBGT 6837.

*Meliola strobilanthicola* Hosag., C.K. Biju & Abraham.

Materials examined: On leaves of *Strobilanthes glandulosa* Kurz (Acanthaceae) Mount Carpenter, S. Andaman, February 21, 2014, H. Biju & al. TBGT 6835.

#### ANACARDIACEAE

*Meliola mangiferae* Earle

Material examined: On leaves of *Mangifera indica* L. (Anacardiaceae) Kalatang, S. Andaman, February 8, 2014, H. Biju & al, TBGT 6764; Mount Warden, S. Andaman, February 21, 2014, H. Biju & al, TBGT 6782; *Mangifera indica* L. (Anacardiaceae) Gandhi nagar, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6413, PBL 006; Adagic, Baratang, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6415, PBL 008; Gandhi Ghat, Baratang, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6422, PBL 015; Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6599, PBL 092; Central forest nursery, Nabagram, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6492, PBL 085; Near Lakshmipur nursery, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6479, PBL 072; Radhanagar, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6477, PBL 070; Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6471, PBL 064; Dhankari, South Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6467, PBL060; Tushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6450, PBL043; *Mangifera camptosperma* Pierre, Mount Harriot, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6507, PBL 097; Mount Harriot, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6498, PBL091; Mount Harriot, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6466, PBL059.

*Meliola parishiae* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Parishia insignis* Hook. f. (Anacardiaceae), Wright myo, South Andaman, December 8, 2012, V.B. Hosagoudar & al., TBGT 6674, PBL 268. Rabindar Nagar, Vishnunala dam, Little Andaman, February

13, 2014, H. Biju & al., TBGT 6838.

#### ANNONACEAE

*Asteridiella anaxagoreae* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Anaxagorea javanica* Blume (Annonaceae), Shoal Bay, South Andaman, December 8, 2012, V.B. Hosagoudar & al., TBGT 6680, PBL 274

*Asterina miliusae* Hosag & C. K. Biju var. *andamanica* Sabeena, H. Biju, Thomas, C.K. Biju and S.P. Mathew

Materials examined: On leaves of *Goniothalamus macranthus* (Kurz) Boerl (Annonaceae), Shoal Bay, S. Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6814.

#### APOCYNACEAE

*Irenopsis andamanica* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Tabernaemontana crispa* Roxb. (Apocynaceae) Tushnabad, S. Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6743; *Tabernaemontana* sp. (Apocynaceae) Shoal Bay, South Andaman, December 8, 2012 V.B. Hosagoudar & al, TBGT 6682, PBL 276; Shoal Bay, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6845; Shoal Bay - 9, South Andaman, February 8, 2014, H. Biju & al., TBGT 6995, TBGT 6997, TBGT 7000, TBGT 7002.

*Meliola ichnocarpi* Hansf. & Thirum.

Materials examined: On leaves of *Ichnocarpus andamanica* (M.Gangop. & Chakrab.) Rasingam, Diwakar & R.P. Pandey (Apocynaceae), Shoal Bay, S. Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6829; On leaves of *Ichnocarpus parkinsonii* (M.Gangop. & Chakrab.) Rasingam, Diwakar & R.P. Pandey (Apocynaceae), Mount Harriot, S. Andaman, February 21, 2014, Sam. P. Mathew & al. TBGT 6848.

*Meliola rauvolfiae* Mibey in Mibey & Hawksworth

Materials examined: On leaves of *Rauvolfia tetraphylla* L. (Apocynaceae), Mannarcaud, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6463, PBL 056.

#### ARECACEAE

*Acroconidiellina arecae* (Berk. & Br.) M.B. Ellis

Materials examined: On leaves of *Areca catechu* L. (Arecaceae) Billiground, Mayabandar, North Andaman, December 16, 2012, V.B. Hosagoudar & al, TBGT 6528, PBL 121.

*Asteridiella colocasiae* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Colocasia* sp. (Aracaceae), Wright Myo, South Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6677, PBL 271.

***Cirsosia arecacearum*** Hosag. & Pillai

Materials examined: On leaves of *Calamus longisetus* Griff. (Arecaceae), Nayashaher, S. Andaman, February 10, 2014, H. Biju & al, TBGT 6757; Jarwa creek, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6428, PBL 021; Tushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6452, PBL 045; Shoal Bay 14, South Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6496, PBL 089; Dhanikari, South Andaman, December 12, 2012, V.B. Hosagoudar & al, TBGT 6482, PBL 075; Dhanikari, South Andaman, December 12, 2012, V.B. Hosagoudar & al, TBGT 6480, PBL 073; Radhanagar, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6476, PBL 069; Shipur, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6472, PBL 065; Farrar gunj check post, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6460, PBL 053; Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6447, PBL 040; Tushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6445, PBL 038.

***Dysrhynchis palmicola*** (Sydow) Arx

Materials examined: On the leaves of *Elaeis guineensis* Jacq. (Arecaceae) Krishna nalla, Little Andaman, February 12 2014, H. Biju & al. TBGT 6876

***Meliola palmicola*** Wint.

Materials examined: On leaves of *Licuala peltata* Roxb. ex Buch. Ham. (Arecaceae), Gandhi nagar, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al. TBGT 6843. Krishnanagar, Baratang, Middle Andaman, December 14, 2012, V.B. Hosagoudar & al. TBGT 6985.

**BIGNONIACEAE**

***Meliola crescentiae*** Stev.

Materials examined: On leaves of *Pajanelia longifolia* (Willd.) K. Schum. (Bignoniaceae), Shoal Bay, S. Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6833.

**BURSERACEAE**

***Meliola canariifolia*** Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Canarium* sp. (Burseraceae), Tushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al. TBGT 6684, PBL 278.

**CELASTERACEAE**

***Asterostomella celasteri*** Sabeena, H. Biju, C.K. Biju & S.P. Mathew

Materials examined: On leaves of *Celastrus* sp. (Celasteraceae), Kalatang, S. Andaman, February 8, 2014, H. Biju & al TBGT 6858, 6988, 7006, 7009

***Meliola castlerockensis*** Srinivasulu

Materials examined: On leaves of *Clerodendrum infortunatum* L. (Celasteraceae), Naya shehar, S. Andaman, February 24, 2014, H. Biju & al. TBGT 6840.

**COMBRETACEAE**

***Asteridiella combreti*** (Stev.) Hansf. var. ***leonensis*** Hansf.

Materials examined: On leaves of *Terminalia bialata* (Roxb.) Steud. (Combretaceae) Lakshmipur Nursery, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6513, PBL 106.

***Asterina combreti*** Syd. & P. Syd. var. ***andamanica*** Sabeena, H. Biju, C.K. Biju & S.P. Mathew

Materials examined: On leaves of *Combretum punctatum* Blume (Combretaceae), Dhankari, S. Andaman, December 7, 2012, V.B. Hosagoudar & al. TBGT 6856.

***Asterina escharoides*** Sydow.

Materials examined: On leaves of *Quisqualis indica* (Combretaceae), Kalighat, Diglipur, North Andaman, December 15, 2012 V.B. Hosagoudar & al. TBGT 6493, PBL 086; Radhanagar, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al. TBGT 6531, PBL 124; Shibpur, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al TBGT 6525, PBL 118; Krishnanagar, Baratang, Middle Andaman, December 17, 2012 V.B. Hosagoudar & al. TBGT 6510, PBL 103.

**CONVOLVULACEAE**

***Bheemamyces argyreicola*** Hosag. *et al.*

Materials examined: On leaves of *Argyrea hookeri* C.B. Clarke (Convolvulaceae), Near Lakshmipur nursery, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6778.

***Meliola malacotricha*** Spig.

Material examined: On leaves of *Argyrea* sp. (Convolvulaceae), Gandhi nagar, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6414, PBL 007; South creek, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6416 PBL 009; Near Central nursery, Lorogic forest camp, Baratang, Middle Andaman, December 18, 2012, V.B.

Hosagoudar & al, TBGT 6421, PBL 014; Mount Harriot, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6431, PBL 024; Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6436, PBL 029; Shoal bay 14, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6500, PBL 093.

*Meliola malacotricha* Speg. var. *major* Beeli

Material examined: On leaves of *Argyrea nervosa* (Burm. f.) Boj. (Convolvulaceae) Shoal bay 14, S. Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6744; Dhanikari, S. Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6748; Farm Tikrey, Little Andaman, December 14, 2012, H. Biju & al. TBGT 6780, TBGT 6783, TBGT 6785; *Argyrea* sp. (Convolvulaceae), Near Lakshmipur nursery, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6517, PBL 110; Shoal bay 14, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6503, PBL 096; *Merremia* sp., Seeta nagar, Bamboo tikiri, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6441, PBL 034; *Argyrea* sp., Jarwa creek, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6419, PBL 012; Wright myo, riverside, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6529, PBL 122.

#### DILLENIACEAE

*Asterostomella farrargunjensis* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Tetracera sarmentosa* (L.) Vahl var. *indica* (Dilleniaceae), Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6669, PBL 262; TBGT 6673, PBL 267

*Cirsosia vateriae* Hosag.

Materials examined: On leaves of *Dipterocarpus hasseltii* Blume (Dipterocarpaceae), Shoal Bay 14, S. Andaman December 8, 2012, V.B. Hosagoudar & al, TBGT 6735; Shoal Bay 14, S. Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6741; *Dipterocarpus griffithi*, R.M. Point Camp, South Andaman, December 22, 2012, V.B. Hosagoudar & al, TBGT 6806.

#### DRACENACEAE

*Meliola dracena-terniflorae* Hosag.

Materials examined: On leaves of *Dracaena angustifolia* (Medik.) Roxb. (Draceneae), Mount Harriot, S. Andaman, February 21, 2014, C.K. Biju & al. TBGT 6836.

#### EBENACEAE

*Meliola diospyri* Sydow & Sydow.

Materials examined: On leaves of *Diospyros Montana* Roxb. (Ebenaceae), Jarwa Creek, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al. TBGT 6820, TBGT 6826

*Meliola harrietensis* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Diospyros ridleyi* Bakh (Ebenaceae), Mount Harriet National Park, South Andaman December 11, 2012, V.B. Hosagoudar & al, TBGT 6672, PBL 265, PBL 266.

#### ELAEAGNACEAE

*Asterina elaeagni* (Sydow) Sydow & Petrak

Materials examined: On leaves of *Elaeagnus* sp. (Elaeagnaceae), Kallara junction, Diglipur, North Andaman, December 16, 2012, V.B. Hosagoudar & al, TBGT 6489, PBL 082.

#### ELAEOCARPACEAE

*Asterina eleocarpigena* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Elaeocarpus* sp. (Elaeocarpaceae), South Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6676, PBL 270. *Elaeocarpus aristatum* (Elaeocarpaceae), South Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6738.

#### EUPHORBIACEAE

*Meliola glochidii* Stev. & Rold. ex Hansf. var. *velutini* Hosag.

Materials examined: On leaves of *Glochidion calocarpum* Kurz (Euphorbiaceae), Radhanagar, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al. TBGT 6822, TBGT 6824.

*Meliola homonoiae* Hosag. & Sabeena

Materials examined: On leaves of *Homonoia riparia* Lour. (Euphorbiaceae), Thushnabad, South Andaman February 18, 2014, H. Biju & al, TBGT 7125

#### FABACEAE

*Meliola abri* Hosag.

Material examined: On leaves of *Abrus precatorius* L. (Fabaceae), BSI garden, Dhanikari, South Andaman, December 22, 2012, V.B. Hosagoudar & al TBGT 6454, PBL 47; Farrar gunj check post, South Andaman, December 20, 2012, V.B. Hosagoudar & al TBGT 6461, PBL 54; Mannarcaud, S. Andaman, December 8, 2012, V.B.

Hosagoudar & al, TBGT 6745.

***Meliola bicornis*** Wint.

Materials examined: On leaves of *Flemingia macrophylla* (Willd.) Merr. (Fabaceae), Thushnabad, S. Andaman, February 18, 2014, H. Biju & al. TBGT 6842, TBGT 7011

***Meliola cassiae-fistulae*** Hosag. & Manoj

Materials examined: On leaves of *Cassia fistula* L. (Fabaceae), Ferrar Gunj, S. Andaman, December 20, 2012, V.B. Hosagoudar & al. TBGT 6828.

***Meliola desmodii-triquetri*** Hosag. & Manoj

Materials examined: On leaves of *Desmodium triquetrum* (L.) DC. (Fabaceae), Mohanpur-8, Diglipur, North Andaman, December 16, 2012, V.B. Hosagoudar & al. TBGT 6860.

***Meliola entadicola*** Deight.

Material examined: On the pods of *Entada* sp., (Fabaceae), BSI garden, Dhanikari, South Andaman, December 22, 2012, V.B. Hosagoudar & al, TBGT 6455, PBL 048; Kallara junction, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6465, PBL 058.

***Meliola flemingiicola*** Hosag., Jose & H. Biju

Material examined: On leaves of *Flemingia macrophylla* (Willd.) Merr. (Papilionaceae), Radhanagar, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6737; *Flemingia* sp. (Papilionaceae), Gandhi Nagar, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6423, PBL 016; Thushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6456, PBL 049.

***Meliola gliricidicola*** Hosag. & Agarwal

Materials examined: On leaves of *Gliricidia sepium* (Jacq.) Kunth ex Walp. (Papilionaceae), riverside, Wright Myo, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6469, PBL 062; Bettapur, Middle Andaman, December 16, 2012, V.B. Hosagoudar & al, TBGT 6534, PBL 127; Tugapur rest camp, Diglipur, North Andaman, December 13, 2012, V.B. Hosagoudar & al, TBGT 6527, PBL 120; Ferrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6487, PBL 080; Shoal Bay 16, S. Andaman, February 08, 2014, H. Biju & al. TBGT 6795, TBGT 6789

***Meliola melanoxylonis*** Hosag. & Pillai

Material examined: On leaves of *Acacia auriculiformis* Cunn. Ex Benth. (Fabaceae), Shoal Bay 14, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6530, PBL 123.

***Meliola pithecellobii*** var. *indica* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Pithecellobium* sp. (Fabaceae), Wright Myo, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6665, PBL 258.

***Meliola pterocarpi*** Yates

Materials examined: On leaves of *Pterocarpus dalbergioides* Roxb. (Papilionaceae), Ferrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6425, PBL 018; Lakshmipur Nursery, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6532, PBL 125; Millengram, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6507, PBL 100; Bamboo Tikiri, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6491, PBL 084.

***Meliola tamarindi*** Sydow & Sydow

Materials examined: On leaves of *Tamarindus indica* L. (Fabaceae), Mud Volcano, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6807; Central nursery, Baratang, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6409.

***Phyllachora pongamiae*** (Berk. & Br.) Petch

Materials examined: On leaves of *Pongamia pinnata* (L.) Pierre (Fabaceae), Mahatma Gandhi National Park, Vandoor, S. Andaman North Andaman, December 7, 2012, V.B. Hosagoudar & al. TBGT 6767.

**GNETACEAE**

***Meliola gneti*** Hansf.

Materials examined: On leaves of *Gnetum scandens* Roxb. (Gnetaceae), Nayashaheer, S. Andaman, February 10, 2014, C.K. Biju & al. TBGT 6846.

**LAMIACEAE**

***Meliola hyptidis*** Sydow

Material examined: On leaves of *Hyptis* sp. (Lamiaceae), Lorogic forest camp, Baratang, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6417, PBL 010; Gandhi nagar, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6426, PBL 019; Seeta nagar, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6440, PBL 033; Bakulthala, Middle Andaman, December 16, 2012, V.B. Hosagoudar & al, TBGT 6514, PBL 107; Panighat, Diglipur, North Andaman, December 16, 2012, V.B. Hosagoudar & al, TBGT 6506, PBL 099; Shoal Bay 14, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6495, PBL 088; Radhanagar, Diglipur, North Andaman, December

14, 2012, V.B. Hosagoudar & al, TBGT 6478, PBL 071; Shoal bay 14, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6464, PBL 057; Shoal Bay 14, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6462, PBL 055 ; Thushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6449, PBL 042; Kallara junction, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6442, PBL 035; *Hyptis capitata* Jacq. , (Lamiaceae), Shoal Bay 14, S. Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6739; Krishnanella, Little Andaman, December 12, 2012, V.B. Hosagoudar & al, TBGT 6779; Nayashehar, S. Andaman, February 10, 2014, H. Biju & al, TBGT 6781; Thushnabad, S. Andaman, February 18, 2014, H. Biju & al, TBGT 6784; Kalatang, S. Andaman, February 8, 2014, H. Biju & al, TBGT 6786; Kalatang, S. Andaman, February 8, 2014, H. Biju & al, TBGT 6786.

***Chaetomium* sp.**

Materials examined: On leaves of *Hyptis* sp. (Lamiaceae), Bakulthala, Middle Andaman, V.B. Hosagoudar & al, December 16, 2012, TBGT 6514, PBL 107

**LAURACEAE**

***Meliola sempeiensis* var. *nicobarica*** Lakshmanan, Bhargavan & Hosag.

Materials examined: On leaves of *Litsea* sp. (Lauraceae), Great Nicobar Island, March 18, 1990, V. Lakshmanan HClO 30396.

**LECYTHIDACEAE**

***Meliola careyae* (Stev.) Hosag. var. *indica*** Hosag.

Material examined: On leaves of *Careya arborea* Roxb. (Lecythidaceae), BSI garden, Dhanikari, South Andaman, December 22, 2012, V.B. Hosagoudar & al, TBGT 6453, PBL 046.

***Meliola planchoniiicola*** Hosag., Mathew, S.P. & D. Babu J. Threatened Taxa 6(2): 5461, 2014

Materials examined: On leaves of *Planchonia valida* Blume (Lecythidaceae), Shoal Bay 14, S. Andaman, February 18, 2014, C.K. Biju & al. TBGT 6859.

**LEEACEAE**

***Irenopsis leae* Hansf. var. *indica*** Hosag.

Materials examined: On leaves of *Leea* sp. (Leeaceae), Seeta nagar, Diglipur, North Andaman, V.B. Hosagoudar & al December 15, 2012 TBGT 6435, PBL 028, TBGT 6438, PBL 31; Kallara junction, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6443,

PBL 036;

***Irenopsis leae* Hansf. var. *javensis*** Hansf.

Material examined: On leaves of *Leea* sp. (Leeaceae), Bakulthala, Middle Andaman, V.B., December 16, 2012, Hosagoudar & al, TBGT 6509, PBL 102; Kallara junction, Diglipur, North Andaman, December 16, 2012, Hosagoudar & al, TBGT 6511, PBL 104; Bakulthala, Middle Andaman, December 16, 2012, V.B. Hosagoudar & al, TBGT 6509 PBL 102.

**LYTHRACEAE**

***Asterina lawsoniae*** Nymn.

Materials examined: On leaves of *Lawsonia inermis* L. (Lythraceae), Krishna nagar, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6410, PBL 003; Millengram, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6521, PBL 114; Bamboo flat, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6497, PBL 090; Govt. Secondary school, Ramnagar, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6490, PBL 083; Guplapara, South Andaman February 10, 2014 H. Biju & al. TBGT 6800

**MALVACEAE**

***Asterina diplocarpa*** Cooke

Materials examined: On leaves of *Urena lobata* L. (Malvaceae), Shoal Bay 14, S. Andaman, December 8, 2012, TBGT 6739, TBGT 6749; On leaves of *Sida* sp. (Malvaceae), Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6483, PBL 076; Shibpur, Diglipur, North Andaman, December 14, 2012 V.B. Hosagoudar & al, TBGT 6523, PBL 116.

***Irenopsis molleriana* (Wint.) Stev.**

Materials examined: On leaves of *Urena lobata* L. (Malvaceae), Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6484, PBL 077; *Hibiscus* sp. (Kattabhaji), Lakshnipur nursery, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6519, PBL 112; Central nursery, Lorogic Camp, Middle Andaman December 18, 2012, V.B. Hosagoudar & al, TBGT 6667; Shoal Bay 14, S. Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6738.

***Irenopsis sidae* (Rehm) Hughes var. *indica*** Hosag. & Manoj

Materials examined: On leaves *Sida acuta* Burm. f. (Malvaceae), Krishnanalla, Little Andaman, February 12, 2014, H. Biju & al. TBGT 6852. Vishnunala Dam, Rabindar nagar, Little Andaman February 13, 2014, H. Biju & al.

TBGT 7012. Farrar gaunj, South Andaman December 20, 2012, V.B. Hosagoudar & al, TBGT 6457, TBGT 6483

#### MELASTOMACEAE

*Asterina melastomatigena* Hosag.

Materials examined: On leaves of *Melastoma malabathricum* L. (Melastomaceae), Sholbay 9, South Andaman, February 08, 2014, H. Biju & al, TBGT 6594, 6983

*Meliola memecyli* Syd. & P. Syd. var. *andamanica* Sabeena, H. Biju, Thomas, C.K. Biju and S.P. Mathew

Materials examined: On leaves of *Memecylon edule* Roxb. (Melastomaceae), Ferrar Gunj, S. Andaman, December 4, 2012, V.B. Hosagoudar & al. TBGT 6812.

*Rehmidotheris osbeckiae* (Berk. & Br.) Theiss.

Materials examined: On leaves of *Melastoma malabathricum* L. (Melastomaceae), Wrightmyo, riverside, South Andaman, December 8, 2012, V.B. Hosagoudar & al, TBGT 6502 PBL 095.

#### MELIACEAE

*Meliola chukrasicola* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Chukrasia* sp. (Meliaceae), Central nursery, Lorogic Forest Camp, Middle Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6681, PBL 275.

*Meliola dysoxyli-andamanensis* Sabeena, H. Biju, Thomas, C.K. Biju and S.P. Mathew

Materials examined: On leaves of *Dysoxylum andamanicum* King (Meliaceae), Wright Myo, South Andaman, December 8, 2012, V.B. Hosagoudar & al 6861.

*Meliola savarkarrii* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Aglaia* sp. (Meliaceae), Shola Bay, South Andaman, December 8, 2012, V.B. Hosagoudar and al. TBGT 6664, PBL 257.

*Schiffnerula azadirachtae* Hosag. & Sabeena

Materials examined: On leaves of *Azadiracta indica* A. Juss. (Meliaceae), Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6459, PBL 052.

*Schiffnerula chukrasiae* Hosag., Mathew, S.P. & D. Babu

Material examined: On leaves of *Chukrasia* sp. (Meliaceae), Central Nursery, Lorogic Forest Camp, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6679, PBL 273, TBGT 6681, PBL 275.

#### MORACEAE

*Meliola ficicola* Hansf. & Thirum.

Materials examined: On leaves of *Ficus benjamina* L.

(Moraceae), Shoal Bay, S. Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6862.

*Meliola strebli* Hosag.

Materials examined: On leaves of *Streblus taxoides* (Roth) Kurz (Moraceae), Mount Harriot, S. Andaman, February 21, 2014, H. Biju & al. TBGT 6836, TBGT 6844; Guptapara, South Andaman February 10, 2014, H. Biju & al. TBGT 7001.

*Phyllachora catarvaria* (Berk.) Sacc.

Materials examined: On leaves of *Ficus hispida* L. (Moraceae), Dhanikari, Vandoor, S. Andaman, December 7, 2012, V.B. Hosagoudar & al. TBGT 6751; Tushnabad, S. Andaman, December 21, 2012, V.B. Hosagoudar & al. TBGT 6753; Nabagram, Kalpong, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al. TBGT 6755; Ramnagar Beech, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al. TBGT 6758; Dhanikari, Vandoor, S. Andaman, December 7, 2012, V.B. Hosagoudar & al. TBGT 6760, TBGT 6770; Shoal bay 14, S. Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6762; Mud Volcano Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al. TBGT 6768. Mohanpura 8, Diglipur, North Andaman December 14, 2012, V.B. Hosagoudar & al. TBGT 6776, South creek, Baratang, Middle Andaman December 17, 2012, V.B. Hosagoudar & al. TBGT 6774; Sri Ram Temple, Krishna nagar, Baratang, Middle Andaman December 17, 2012, V.B. Hosagoudar & al. TBGT 6772

*Phyllachora infectoriae* Cooke

Materials examined: On leaves of *Ficus religiosa* L. (Moraceae), Lorogic forest camp, Baratang, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al. TBGT 6750; Viper Island, S. Andaman, December 6, 2012, V.B. Hosagoudar & al. TBGT 6752; Ferrar Gung, S. Andaman, December 20, 2012, V.B. Hosagoudar & al. TBGT 6754; Jarwa creek, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al. TBGT 6756; Dhanikari, Vandoor, S. Andaman, December 7, 2012, V.B. Hosagoudar & al. TBGT 6759; Shipur, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al. TBGT 6761; Rose Island, S. Andaman, December 6, 2012, V.B. Hosagoudar & al. TBGT 6763, TBGT 6769, TBGT 6777; Mahatma Gandhi National Park, Vandoor, S. Andaman, December 7, 2012, V.B. Hosagoudar & al. TBGT 6765; North Bay, S. Andaman, December 6, 2012, V.B. Hosagoudar & al. TBGT 6766; Dhanikari, S. Andaman, December 6, 2012, V.B. Hosagoudar & al. TBGT 6769, TBGT 6773.



#### MYRISTICACEAE

*Meliola myristicacearum* Hosag., Mathew, S.P. & D. Babu  
Materials examined: On leaves of *Myristicaceae* member, Mount Harriot National Park, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6690, PBL 284.

#### MYRTACEAE

*Asterina claviflori* Kar & Maity

Materials examined: On leaves of *Syzygium* sp. (Myrtaceae), Mangrove forest guest house, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6408, PBL 001; Millengram, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6470, PBL 063. Shamnagar, Diglipur, North Andaman December 14, 2012, V.B. Hosagoudar & al, TBGT 6535 PBL 128.

*Asterina jambolana* Kar & Maity

Materials examined: On leaves of *Syzygium* sp. (Myrtaceae), Central forest nursery, Nabagram, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6434, PBL 027; Keralapuram, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6437, PBL 030; North Bay, South Andaman, December 6, 2012, V.B. Hosagoudar & al, TBGT 6516, PBL109; Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6458, PBL 051; North Bay, South Andaman, December 6, 2012, V.B. Hosagoudar & al, TBGT 6522, PBL 115; *Syzygium cumini*, North Bay, South Andaman, December 6, 2012, V.B. Hosagoudar & al, TBGT 6520, PBL 113; Wimberly gunj, Andaman February 8, 2014, H. Biju & al, TBGT 6796; Vishnunala Dam, Rabindar nagar, Little Andaman February 3, 2014, H. Biju & al, TBGT 6799 ;Farm Tikery, Little Andaman, February 14, 2014, H. Biju & al, TBGT 6803; Vishnunala Dam, Rabindar nagar, Little Andaman, February 13, 2014, H. Biju & al, TBGT 7005

*Meliolina pulcherrima* Sydow & Sydow

Materials examined: On leaves of *Syzygium cumini* (L.) Skeels (Myrtaceae), Wimberly gunj, Andaman, February 8, 2014, H. Biju & al, TBGT 6790

#### OLACACEAE

*Asterina olacicola* Hansf.

Materials examined: On leaves of *Olax imbricate* Roxb. (Olacaceae), Thushnabad, South Andaman, February 18, 2014, H. Biju & al, TBGT 6816, TBGT 6818

#### OLEACEAE

*Meliola jasmini* Hansf. & Stev.

Materials examined: On leaves of *Jasminum sambac* (L.) Aiton (Oleaceae), Kalatang, S. Andaman, February 2, 2014, C.K.Biju & al. TBGT 6791; Guptapara, S. Andaman, February 10, 2014, C.K. Biju & al. TBGT 6793; *Jasminum sambac* (L.) Aiton (Oleaceae), Shibpur, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6474, PBL 067; Shamnagar, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6526, PBL 119.

#### PERIPLOCACEAE

*Meliola hemidesmicola* Hosag.

Material examined: On leaves of *Hemidesmus* sp. (Periplocaceae), Mount Harriot National Park, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6515, PBL 108.

#### PIPERACEAE

*Meliola stenospora* Wint.

Materials examined: On leaves of *Piper betle* L. (Piperaceae), Madhupan, S. Andaman, February 2, 2014, H. Biju & al. TBGT 6823, 6825.

#### POACEAE

*Meliola panici* Earle

Material examined: On leaves of *Poaceae* member, Thushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6430, PBL 023; *Oplismenus* sp., Mount Harriot, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6505, PBL 098.

*Meliola panici* Earle var. *macropodia* Hosag. & Abraham  
Materials examined: On leaves of *Cyrtococcum oxyphyllum* (Steud.) Stap f. (Poeceae), Mount Harriot, S. Andaman, February 21, 2014, H. Biju & al. TBGT 6841.

*Phyllachora andamanica* Sreekumar and Hosag.

Materials examined: On leaves of *Dinochloa scandens* (Bl. ex Nees) O. Kuntze (Bambusaceae), South Andaman, near Dhanikhari Dam, Aug. 1990, P. V. Sreekumar HCIO 30727.

#### PROTEACEAE

*Meliola veebeehosagoudarii* Sabeena & H. Biju

Materials examined: On leaves of *Helicia excelsa* (Roxb.) Blume (Proteaceae), Ferrargunj, Shoal Bay 9, South Andaman Islands February 8, 2014, H. Biju & al. TBGT 7116.

#### RHAMNACEAE

*Mitteriella ziziphina* Sydow

Materials examined: On leaves of *Ziziphus rugosa* Lam. (Rhamnaceae), Nabagram, Kalpong, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6808; Madhupur, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6810; *Ziziphus* sp. (Rhamnaceae), Nabagram, Kalpong, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6432, PBL 025.

#### ROSACEAE

Andamanomyces gen. nov. V.B. Hosagoudar

*Andamanomyces fragariae* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Fragaria* sp. (Rosaceae), Mount Harriot National Park, South Andaman, December 11, 2012, V.B. Hosagoudar & al, TBGT 6666, PBL 259; TBGT 6670, PBL 263; TBGT 6675, PBL 269

#### RUBIACEAE

*Meliola anceps* Sydow & Sydow

Material examined: On leaves of *Mussaenda philippica* A. Rich. (Rubiaceae), Kalatang, S. Andaman, February 8, 2014, H. Biju & al, TBGT 6792, TBGT 6798, TBGT 6802; Lorogic forest camp, Baratang, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al TBGT 6412, PBL005.

*Meliola cadambae* Hosag. & C.K. Biju

Material examined: On leaves of *Neolamarkia cadamba* (Roxb.) Bosser (Rubiaceae), Krishna nagar, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6411, PBL 004; South creek, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6429, PBL 022; Seeta nagar, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6439, PBL 032.

*Meliola psychotriae* Earle

Materials examined: On leaves of *Psychotria andamanica* Kurz (Rubiaceae), Thusnabad, S. Andaman, December 21, 2012, V.B. Hosagoudar & al. TBGT 6830.

#### RUTACEAE

*Meliola butleri* Sydow & Sydow

Material examined: On leaves of *Citrus* sp. (Rutaceae), Lakshmipur Nursery, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6533, PBL 126. Gandhi ghat, Baratang, Middle Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6424, PBL 017 TBGT 6427, PBL 020, Kalpong hydroelectric project area, Nabagram,

Diglipur, North Andaman, December 18, 2012, V.B. Hosagoudar & al, TBGT 6424, PBL 026,

*Meliola citricola* Sydow & Sydow

Material examined: On leaves of *Citrus medica* L. (Rutaceae), Wimberly gunj, Andaman, February 8, 2014, C.K. Biju & al, TBGT 6804. Kalpong hydroelectric project area, Nabagram, Diglipur, North Andaman December 18, 2012, V.B. Hosagoudar & al, TBGT 6424, PBL 017

*Schiffnerula girijae* Hosag. & Archana

Materials examined: On leaves of *Aegle marmelos* (L.) Corr. Serr. (Rutaceae), Shipur, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6473, PBL 066; Farrar gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6488, PBL 081; Radhanagar, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6518, PBL 111.

#### SAPINDACEAE

*Meliola capensis* (K. & C.) Theiss.

Materials examined: On leaves of *Pometia pinnata* J.R. Forst. & G. Forst. (Sapindaceae), Krishna nala, Little Andaman, February 12, 2014, H. Biju & al. TBGT 6850.

*Meliola capensis* (Kalch. & Cooke) Theiss. var. *allophylicola* Hansf. & Deight.

Materials examined: On leaves of *Allophylus cobbe* (L.) Raeusch. (Sapindaceae), Lorogic forest camp, Baratang, Middle Andaman, December 12, 2012, V.B. Hosagoudar & al. TBGT 6834.

*Meliola capensis* (Kalch. & Cooke) Theiss. var. *indica* Hosag., H. Biju & Manoj

Materials examined: On leaves of *Pometia pinnata* J.R. Forst. & G. Forst. (Sapindaceae), SholBay14, Riverside 2, S. Andaman, December 8, 2012, V.B. Hosagoudar & al. TBGT 6831.

#### STERCULIACEAE

*Asteridiella anamalaiana* Hosag.

Materials examined: On leaves of *Sterculia* sp. (Sterculiaceae), South creek, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6418, PBL 011; Kallara junction, Diglipur, North Andaman, December 15, 2012, V.B. Hosagoudar & al, TBGT 6508, PBL101; Dhankari, South Andaman, December 12, 2012, V.B. Hosagoudar & al, TBGT 6486, PBL 079; Farrar Gunj, South Andaman, December 20, 2012, V.B. Hosagoudar & al, TBGT 6448, PBL 041; Thushnabad, South Andaman, December 21, 2012, V.B. Hosagoudar & al, TBGT 6451, PBL 044.

## STRYCHNACEAE

*Meliola andamanica* Hosag., Mathew, S.P. & D. Babu  
Materials examined: On leaves of *Strychnos andamanensis* A.W. Hill (Strychnaceae), Krishnanagar, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al. TBGT 6678, PBL 272

## THEACEAE

*Meliola ternstroemiicola* Hosag., Mathew, S.P. & D. Babu  
Materials examined: On leaves of *Ternstroemia vahliana* (Theaceae), Mount Harriot National Park, South Andaman, December 11, 2012, V.B. Hosagoudar & al. TBGT 6668, PBL 261.

## TILIACEAE

*Asterina triumfeticola* Yamam.

Materials examined: On leaves of *Triumfetta* sp. (Tiliaceae), Krishna nagar, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6420, PBL 013; Shibpur, Diglipur, North Andaman, December 14, 2012, V.B. Hosagoudar & al, TBGT 6524, PBL 117

*Irenopsis triumfetae* Stev. var. *indica* Hosag. & Abraham  
Material examined: On leaves of *Triumfetta* sp. (Tiliaceae), Krishna Nagar, Baratang, Middle Andaman, December 17, 2012, V.B. Hosagoudar & al, TBGT 6420, PBL 013; Dhanikari, South Andaman, December 12, 2012, V.B. Hosagoudar & al, TBGT 6485, PBL 078.

## VERBENACEAE

*Meliola clerodendricola* Henn.

Materials examined: On leaves of *Clerodendrum cordatum* D. Don (Verbenaceae), BSI garden, Dhanikari, S. Andaman, December 21, 1983, V.B. Hosagoudar & al, TGBT 6736.

## VITACEAE

*Asterostomella dhanikariensis* Hosag., Mathew, S.P. & D. Babu

Materials examined: On leaves of *Tetrastigma* sp. (Vitaceae), Dhanikari, Vandoor, South Andaman, December 7, 2012, V.B. Hosagoudar & al. TBGT 6671, PBL 264.

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## CONFLICT OF INTEREST

The authors declare no conflict of interest.

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