

Tropical Fungi — VI.

New Species and Revisions.

By C. G. Hansford.

Waite Research Institute, Adelaide, Australia.

This paper continues No. V of this series (Sydowia IX, 1—88, 1955), and deals with specimens sent me for examination from the herbaria of Stockholm, Kew, Paris, Cornell University, Harvard University, Bogor, Spegazzini (Buenos Aires), Commonwealth Mycological Institute, and University of Recife.

(438) **Armatella sumatrensis** Hansf., sp. n.

Plagulae hypophyllae, tenues, leves, usque ad 15 mm diam. vel late confluentes. Hyphae brunneae, tortuosae, oppositae vel irregulariter ramosae, laxae vel subdense reticulatae, cellulis plerumque circa $30 \div 4-5 \mu$. Hyphopodia capitata alternata vel opposita, patentia, curvata $15-25 \mu$ longa; cellula basali cylindracea, flexuosa, $4-20 \mu$ longa, subinde furcata; cellula apicali ovata vel subglobosa, integra, $8-11 \div 7-8 \mu$. Hyphopodia mucronata nulla. Setae nullae. Perithecia laxae dispersae, atrae, globosae, verrucosae, usque ad 130 μ diam., cellulis parietis obtuse conoideis, — 15μ alt. Asci evanescentes, clavato-ellipsoidei, 8-spori. Sporae obliquae 1—2-seriatae, hyalinae, ellipsoideae, 1-septatae, constrictae, $18-20 \div 9-10 \mu$, demum brunnescentes, episporio indistincte et minute reticulato.

Hab. in foliis *Cinnamomi inertis*, Lampong Estate, Wai Lima, Sumatra, Hoet 369 (= BO 4818, typus).

The spores germinate by formation of a hyphopodium from one cell, while the opposite cell collapses.

(439) **Amazonia clermontiae** Hansf., sp. n.

Plagulae epiphyllae, usque ad 1 mm diam., densae, leves. Hyphae brunneae, undulatae vel sinuosae, alternatim vel oppositae acuteque ramosae, dense radiato-reticulatae, cellulis plerumque $12-20 \div 7-8 \mu$. Hyphopodia capitata alternata, curvata, subantrorsa, $18-23 \mu$ longa; cellula basali cylindracea vel cuneata, $3-8 \mu$ longa; cellula apicali piriformi, integra, recta vel curvula, $12-16 \div 9-11 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, alternata, ampullacea, $16-18 \div 7-9 \mu$. Setae nullae. Perithecia depresso-globosa, sursum stratum radiatum mycelii vestita, margine crenata, — 330 μ diam., irregulariter radiatim dehiscentia. Sporae atrobrunneae, cylin-

draceae vel subellipsoideae, obtusae, 4-septatae, fortiter constrictae, 46—52 $\Rightarrow$ 18—22 μ .

Hab. in foliis *Clermontiae persicaefoliae*, Heller 2394 (typus in Herb. Kew); in foliis *Clermontiae* sp. indet., Hawaii, Degener 7819 (= IMI 45487).

(440) **Appendiculella camerunensis** Hansf., sp. n.

Plagulae hypophyllae, subdensae, leves, usque ad 6 mm diam., subinde confluentes. Hyphae subrectae vel tortuosae, oppositae vel irregulariter acuteque ramosae, dense intertexto-reticulatae, cellulis plerumque 20—35 $\Rightarrow$ 6—7 μ . Hyphopodia capitata alternata vel dispersa, curvata, 18—35 μ longa; cellula basali cylindracea vel gibbosa, curvata, 6—25 μ longa; cellula apicali subglobosa, ovata, piriformi vel angulosa, saepe curvata, 10—15 $\Rightarrow$ 8—14 μ . Hyphopodia mucronata illis capitatis commixta, alternata vel raro opposita, ampullacea, 15—20 $\Rightarrow$ 7—9 μ . Perithecia pauca, dispersa, globosa, verrucosa, usque ad 290 μ diam.; appendices larviformes numerosae, atrobrunneae, continuae, transverse striatae, tenuiter tunicatae, obtusae, curvatae, usque ad 60 μ alt., basi circa 25 μ diam., sursum attenuatae ad apicem 10 μ cr. Sporae ellipsoideae vel fusoideae, saepe curvulae, utrinque obtusae vel subacutae, atrobrunneae, 3-septatae, constrictae, 38—62 $\Rightarrow$ 15—18 μ .

Hab. in foliis *Agauriae* spec., Befang à Dibouns, Camerun, Jacques-Felix 2900 in Herb. Paris.

(441) **Appendiculella natalensis** (Doidge) Hansf., var. **ugandensis** Hansf., var. n.

Plagulae amphigenae, subtenues, usque ad 3 mm diam., leves. Hyphae subrectae, brunneae, oppositae vel irregulariter acuteque ramosae, laxae vel subdense radianto-reticulatae, cellulis plerumque 25—30 $\Rightarrow$ 6—8 μ . Hyphopodia capitata alternata vel dispersa, subantrorsa, recta vel curvata, 20—30 μ longa; cellula basali cylindracea vel cuneata, 7—16 μ longa; cellula apicali irregulariter fortiterque lobata, 13—23 $\Rightarrow$ 15—30 μ . Hyphopodia mucronata illis capitatis commixta, alternata, ampullacea, 20—25 $\Rightarrow$ 7—9 μ . Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, — 230 μ diam., cellulis parietis conoideis, obtusis; appendices 6—15, larviformes, subrectae, dilute brunneae, obtuse conoideae, apice saepe curvatae, transverse striatae, continuae, leves, 35—50 $\Rightarrow$ 18—25 μ , sursum attenuatae, apice circa 8 μ diam. Sporae ellipsoideae vel subfusoideae, atrobrunneae, obtusae, 3-septatae, constrictae, 40—47 $\Rightarrow$ 14—17 μ .

Hab. in foliis *Dovyalidis macrocalycis*, Uganda, Hansford 1941, typus; Hansford 2124, 2384, 3356; in foliis *Oncobae spinosae*, Uganda, Hansford 2285, 2319, 2490.

(442) **Irenopsis arimensis** Hansf., sp. n.

Plagulae epiphyllae, usque ad 1 mm diam., densae. Hyphae brunneae, subrectae, oppositae vel irregulariter ramosae, dense reticulatae, cellulis plerumque $20-25 \div 6-7 \mu$. Hyphopodia capitata opposita vel alternata, patentia, $10-14 \mu$ longa; cellula basali cylindracea, $2-4 \mu$ longa; cellula apicali globosa vel late ovata, integra, $8-10 \div 7-9 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $13-18 \div 6-8 \mu$. Setae myceliales nullae. Perithecia in centro plagarum aggregata, atra, globosa, verrucosa, -170μ diam.; setae peritheciales $5-8$, erecto-patentes, ex parte superiore perithecii oriundae, rectae vel flexuosae, apice uncinatae vel curvatae, $2-4$ -septatae, atrobrunneae, $-210 \div 10 \mu$, obtusae. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4 -septatae, constrictae, $35-40 \div 15-18 \mu$.

Hab. in foliis *Solani stramonifolii*, Arima, Trinidad, Baker 1550 (= IMI 17880, typus); in foliis *S. jamaicensis*, Jamaica, Martyn 241 (= IMI 23005).

(443) **Irenopsis banisteriae** Hansf., sp. n.

Plagulae amphigenae, usque ad 5 mm diam. vel confluentes, leves, tenues. Hyphae brunneae, subrectae vel undulatae, oppositae lateque ramosae, laxae reticulatae, cellulis plerumque $13-20 \div 7-8 \mu$. Hyphopodia capitata alternata vel rarissime opposita, antrorsa vel patentia, recta vel curvata, $16-23 \mu$ longa; cellula basali cylindracea vel cuneata, $3-7 \mu$ longa; cellula apicali cylindracea, integra, recta vel curvata, $12-17 \div 8-12 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $15-22 \div 7-9 \mu$. Perithecia dispersa, atra, globosa verrucosa, -160μ diam., superne setosa; setae $0-12$, erecto-patentes, atrobrunneae, rectae, simplices, obtusae, $-180 \div 8-9 \mu$, $0-2$ -septatae, sursum tenuiter atro-granulosae vel scabridae, saepe curvatae, haud uncinatae. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4 -septatae, constrictae, $37-44 \div 16-20 \mu$.

Hab. in foliis *Banisteriae laurifoliae*, Porto Rico, Whetzel & Chardon 3286, typus in Herb. Plant Path., Univ. Cornell; Chardon 860, 885, Stevens 7564.

(444) **Irenopsis circinata** Hansf. sp. n.

Plagulae epiphyllae, tenues leves, -2 mm diam. Hyphae brunneae, undulatae, oppositae vel irregulariter late ramosae, laxae radianto-reticulatae, cellulis plerumque $35-50 \div 5-6 \mu$. Hyphopodia capitata alternata, saepius curvata, $12-16 \mu$ longa; cellula basali cuneata vel cylindracea, $2-4 \mu$ longa; cellula apicali ovata, saepius curvata, integra vel raro rotundato-angulosa, $10-12 \div 12-15 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampul-

lacea, 16—20 $\Rightarrow$ 6—8 μ . Setae myceliales nullae. Perithecia laxè dispersa, atra, globosa, leniter verrucosa, — 150 μ diam.; sursum setis 3—8, circinatibus vel hamatis, simplicibus, obtusis, continuis, dilute brunneis, usque ad 50 $\Rightarrow$ 10—12 μ ornata. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 27—35 $\Rightarrow$ 11—13 μ .

Hab. in foliis *Stigmatophylli convolvulifolii*, Trinidad, Baker 1815 (= IMI 23469, typus), 1899 (= IMI 27656).

(445) ***Irenopsis martyni*** Hansf., sp. n.

Plagulae epiphyllae, densae, usque ad 1 mm diam., leves. Hyphae subrectae, brunneae, alternatim vel oppositè acuteque ramosae, dense radiantes et subsolidae, cellulis 12—16 $\Rightarrow$ 7—9 μ . Hyphopodia capitata opposita, antrorsa, subrecta, 16—22 μ longa; cellula basali cuneata vel cylindracea, 3—6 μ longa; cellula apicali subglobosa, integra, 12—16 $\Rightarrow$ 10—24 μ . Hyphopodia mucronata pauca, illis capitatis commixta, ampullacea, opposita vel alternata. Setae myceliales nullae. Perithecia in centro plagularum dense aggregata, atra, globosa, verrucosa, — 240 μ diam., cellulis parietis obtuse conoideis, usque ad 15 μ alt.; setae peritheciales 3—6, erecto-patentes, atrobrunneae, rectae, obtusae, usque ad 90 $\Rightarrow$ 10 μ , continuae vel indistincte 1-septatae, sursum atro-granulosae. Sporae cylindraceae vel subellipsoideae, atrobrunneae, obtusae, 4-septatae, constrictae, 41—46 $\Rightarrow$ 18—20 μ .

Hab. in foliis *Capparidis canophyllophorae*, Long Mtn., Jamaica, Martyn 339 (= IMI 31436, typus).

(446) ***Irenopsis molleriana*** (Wint.) Stev. var. **major** Hansf., var. n.

Plagulae amphigenae, usque ad 1 mm diam., densae, leves. Hyphae subrectae vel undulatae, brunneae, oppositè vel irregulariter, subrectangulariterque ramosae, dense reticulatae, cellulis plerumque 15—30 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, patentia, recta vel curvata, 20—28 μ longa; cellula basali cuneata vel cylindracea, 3—9 μ longa; cellula apicali irregulariter subglobosa vel ovata, saepe curvata, margine crenulata vel rotundato-angulosa, raro sublobata, haud integra 15—19 $\Rightarrow$ 12—17 μ . Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, 17—22 $\Rightarrow$ 7—8 μ . Setae myceliales nullae. Perithecia dispersa, vel in centro plagularum laxè aggregata, atra, globosa, verrucosa, — 170 μ diam., superne setosa; setae 0—6, erecto-patentes, rectae, simplices, obtusae, atrobrunneae, 1—2-septatae, usque ad 140 $\Rightarrow$ 8—9 μ , apice 5—6 μ cr. Sporae subellipsoideae, obtusae, atrobrunneae, 4-septatae, constrictae, 38—45 $\Rightarrow$ atrobrunneae, obtusa, 4-septatae, constrictae, 41—46 $\Rightarrow$ 18—20 μ .

Hab. in foliis *Parii* (*Hibisci*) *tiliacei*, Maricao, Porto Rico, Whetzel-Kern-Toro 2620, typus in Herb. Plant Path. Univ. Cornell.

In the type collection this occurs mixed with the thinner colonies of the type of the species, which has narrower hyphae, smaller hyphopodia and smaller spores.

(447) **Irenopsis piptocarphae** Hansf., sp. n.

Plagulae epiphyllae, usque ad 1 mm diam., subdense, leves. Hyphae brunneae, subrectae, oppositae vel irregulariter acuteque ramosae, dense reticulatae, cellulis plerumque $25-30 \Rightarrow 9-11 \mu$. Hyphopodia capitata alternata vel unilateralia, subantrorsa, $25-33 \mu$ longa; cellula basali cylindracea vel cuneata, $8-14 \mu$ longa; cellula apicali globosa vel late ovata, integra, $16-20 \Rightarrow 14-18 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea. Perithecia dispersa vel in centro plagularum 2-3-aggregata, verrucosa, — 240μ diam.; setae peritheciales 4-8, rectae vel irregulariter curvatae, subinde uncinatae, simplices, obtusae, 2-3-septatae, atrobrunneae, leves, — $200 \Rightarrow 8-10 \mu$. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, $48-56 \Rightarrow 19-22 \mu$.

Hab. in foliis *Piptocarphae axillaris*, Brazil, Herb. Inst. Biol. Sao Paulo 2981.

(448) **Irenopsis stuhlmanniana** (P. Henn.) Hansf., comb. n.

Syn.: *Meliola stuhlmanniana* P. Henn., Engl. Bot. Jahrb. **34**: 45. 1904.

Colonies amphigenous, mostly epiphyllous, dense, to 3 mm diam., or numerous and confluent. Hyphae substraight or slightly undulate, cells $15-30 \Rightarrow 6-9 \mu$, branching opposite or irregular, acute, densely reticulate. Capitate hyphopodia alternate, antrorse, straight, $20-25 \mu$ long; stalk cell cuneate, $5-8 \mu$ long; head cell globose or rarely rounded-angulose, $13-18 \Rightarrow 12-16 \mu$. Mucronate hyphopodia mixed with capitate, opposite or alternate, ampulliform, $16-20 \Rightarrow 7-9 \mu$. Perithecia scattered, black, globose, verrucose, to 180μ diam.; perithecial setae 5-14, erect-spreading, straight or slightly bent at obtuse apex, continuous, to $160 \Rightarrow 8-10 \mu$, slightly attenuate upwards, dark brown below, paler and finely dark-granulose near apex, arising from upper half of perithecium. Spores dark brown, cylindric to subellipsoid, obtuse, 4-septate, constricted, $38-48 \Rightarrow 17-19 \mu$.

On *Acridocarpus* sp., Dar-es-Salaam, Tanganyika, Stuhlmann (type in Herb. Stockholm, ex Sydow).

(449) The genus *Asteridiella* McAlpine, Proc. Linn. Soc. New South Wales, **22**: 36. 1897.

The type specimen of this genus, *Asteridiella solani* McAlpine l. c., on *Solanum viride*, New South Wales. J. H. Maiden, s. n., now in Herb. Dept. Agric. Melbourne, has recently been re-examined:

Colonies amphigenous, dense, easily secedent, to 1 mm diam. or confluent, smooth. Hyphae brown, sinuous to tortuous, the cells mostly $12-25 \Rightarrow 8-11 \mu$, branching alternate or irregular, not opposite, at acute angles, densely reticulate and becoming almost solid. Capitate hyphopodia alternate, more or less antrorse, usually straight, $15-24 \mu$ long; stalk cell cylindric, $3-6 \mu$ long; head cell globose to widely piriform, entire or rarely slightly rounded-angulose, $12-19 \Rightarrow 11-17 \mu$. Mucronate hyphopodia few, mixed with capitate, opposite or alternate, ampulliform with short neck. Setae none. Perithecia in loose central group, black, globose, rough, to 250μ diam.; most surface cells are prolonged into translucent dark brown, obtusely conoid outgrowths, not striate, to 35μ high by $30-40 \mu$ diam. at the base. Spores dark brown, cylindric, obtuse, 4-septate, constricted, $37-44 \Rightarrow 14-17 \mu$.

This is a wholly typical *Irene*, *sensu* Sydow, and Mc Alpine's genus therefore replaces that of Sydow; as a consequence the following new combinations are required:-

Asteridiella abnormis (Theiss.) = *Irenina abnormis* (Theiss.) Stev. Hansf.

- | | |
|---|---|
| — <i>acalyphae</i> (Rehm) Hansf. | = <i>Meliola acalyphae</i> Rehm |
| — <i>acervata</i> (Ell. & Ev.) Hansf. | = <i>Meliola acervata</i> Ell. & Ev. |
| — <i>acervata</i> (E. & E.) Hansf., var. <i>major</i> Hansf. | = <i>Irene acervata</i> (E. & E.) Hansf. var. <i>major</i> Hansf. |
| — <i>acmenae</i> Hansf. | = <i>Irenina acmenae</i> Hansf. |
| — <i>aegiphilae</i> Hansf. | = <i>Irenina aegiphilae</i> Hansf. |
| — <i>agauriae</i> Hansf. | = <i>Irenina agauriae</i> Hansf. |
| — <i>aibonitensis</i> (Stev.) Hansf. | = <i>Meliola aibonitensis</i> Stev. |
| — <i>alchorneae</i> (Stev. & Tehon) Hansf. | = <i>Irene alchorneae</i> Stev. & Tehon |
| — <i>alchorneae-incurvae</i> Hansf. | = <i>Irenina alchorneae-incurvae</i> Hansf. |
| — <i>amoena</i> (Syd.) Hansf. | = <i>Irene amoena</i> Syd. |
| — <i>amphilophii</i> Hansf. | = <i>Irene amphilophii</i> Hansf. |
| — <i>ampullifera</i> (Wint.) Hansf. | = <i>Meliola ampullifera</i> Wint. |
| — <i>anastomosans</i> (Wint.) Hansf. | = <i>Meliola anastomosans</i> Wint. |
| — <i>anastomosans</i> (Wint.) Hansf. var. <i>macilentata</i> (Wint.) Hansf. | = <i>Meliola anastomosans</i> Wint. var. <i>macilentata</i> Wint. |
| — <i>andromedae</i> (Pat.) Hansf. | = <i>Meliola andromedae</i> Pat. |
| — <i>anguriae</i> (Stev.) Hansf. | = <i>Irenina anguriae</i> Stev. |
| — <i>angustispora</i> (Stev. & Rold.) Hansf. | = <i>Irenina angustispora</i> Stev. & Rold. |
| — <i>anthocleistae</i> (Hansf. & Deight.) Hansf. | = <i>Irenina anthocleistae</i> Hansf. & Deight. |
| — <i>antidesmae</i> Hansf. | = <i>Irenina antidesmae</i> Hansf. |
| — <i>aracearum</i> (Stev.) Hansf. | = <i>Irenina aracedrum</i> Stev. |
| — <i>arachnoidea</i> (Speg.) Hansf. | = <i>Meliola arachnoidea</i> Speg. |
| — <i>aspidospermatis</i> (Speg.) Hansf. | = <i>Meliola aspidospermatis</i> Speg. |
| — <i>atra</i> (Doidge) Hansf. | = <i>Meliola atra</i> Doidge |
| — <i>atricha</i> (Speg.) Hansf. | = <i>Meliola laxa</i> Gaill. var. <i>atricha</i> Speg. |

- *australiana* Hansf. = *Irenina australiana* Hansf.
- *barbaceniae* Hansf. = *Irenina barbaceniae* Hansf.
- *bersamae* Hansf. = *Irenina bersamae* Hansf.
- *boedijnii* (Cif.) Hansf. = *Meliola boedijnii* Cif.
- *bomplandii* (Speg.) Hansf. = *Meliola bomplandii* Speg.
- *boni* (Gaill.) Hansf. = *Meliola boni* Gaill.
- *brachycera* (Syd.) Hansf. = *Meliola brachycera* Syd.
- *buddleiae* Hansf. = *Irenina buddleiae* Hansf.
- *buddleyicola* (P. Henn.) Hansf. = *Meliola buddleyicola* P. Henn.
- *buettneriae* (Stev.) Hansf. = *Meliola buettneriae* Stevenson
- *callicarpae* (Stev. & Rold.) Hansf. = *Irenina callicarpae* Stev. & Rold.
- *callista* (Rehm) Hansf. = *Meliola callista* Rehm
- *calva* (Speg.) Hansf. = *Meliola calva* Speg.
- *capparidis* (Hansf.) & Deight.) Hansf. = *Irenina capparidis* Hansf. & Deight.
- *caseariae* Hansf. = *Irenina caseariae* Hansf.
- *cassiaeicola* (Bat. & Silva) Hansf. = *Irenina cassiaeicola* Batista & Silva
- *castanopsidis* Hansf. = *Irenina castanopsidis* Hansf.
- *cecropiicola* Hansf. = *Irenina cecropiicola* Hansf.
- *cheoi* Hansf. = *Irenina cheoi* Hansf.
- *cheirodendronis* (Stev.) Hansf. = *Meliola cheirodendronis* Stev.
- *clidemiae* (Stev.) Hansf. = *Irenina clidemiae* Stev.
- *colubrinae* (Stev.) Hansf. = *Irenina colubrinae* Stev.
- *combreti* (Stev.) Hansf. = *Meliola combreti* Stev.
- *combreti* (Stev.) Hansf. var. *major* (Hansf. & Deight.) Hansf. = *Irenina combreti* Stev. var. *major* Hansf. & Deight.
- *confragosa* (Syd.) Hansf. = *Meliola confragosa* Syd.
- *conglomerata* (Wint.) Hansf. = *Meliola conglomerata* Wint.
- *crustacea* (Speg.) Hansf. = *Meliola crustacea* Speg.
- *cubitella* (Stev. & Tehon) Hansf. = *Irene cubitella* Stev. & Tehon
- *cubitorum* (Stev. & Tehon) Hansf. = *Irene cubitorum* Stev. & Tehon
- *cupaniae* (Toro) Hansf. = *Irene cupaniae* Toro
- *cuspidata* (Cif.) Hansf. = *Meliola cuspidata* Cif.
- *cyclobalanopsicola* (Yamam.) Hansf. = *Irenina cyclobalanopsicola* Yamam.
- *cyclopoda* (Stev.) Hansf. = *Meliola cyclopoda* Stev.
- *dalechampiae* (Stev.) Hansf. = *Irenina dalechampiae* Stev.
- *daphnandrae* Hansf. = *Irenina daphnandrae* Hansf.
- *deightonii* Hansf. = *Irenina deightonii* Hansf.
- *depokensis* Hansf. = *Irenina depokensis* Hansf.
- *diospyricola* (Hansf. & Deight.) Hansf. = *Irenina diospyricola* Hansf. & Deight.
- *ditricha* (K. & C.) Hansf. = *Asterina ditricha* K. & C.
- *dodonaeae* Hansf. = *Irenina dodonaeae* Hansf.
- *duboisiae* Hansf. = *Irenina duboisiae* Hansf.
- *ebuli* (Yamam.) Hansf. = *Irenina ebuli* Yamam.
- *ekebergiae* (Doidge) Hansf. = *Irene ekebergiae* Doidge
- *ekebergiae* (Doidge) Hansf. var. *paraguayensis* Hansf. = *Irene ekebergiae* Doidge var. *paraguayensis* Hansf.
- *entandrophagmæ* Hansf. = *Irenina entandrophragmæ* Hansf.

- *entebbeensis* (Hansf. & Stev.) = *Irenina entebbeensis* Hansf. & Stev.
- *erythrocoecae* Hansf. = *Irenina erythrocoecae* Hansf.
- *escharoides* (Syd.) Hansf. = *Irene escharoides* Syd.
- *eucalyptorum* Hansf. = *Irenina eucalyptorum* Hansf.
- *eucleae* Hansf. = *Irenina eucleae* Hansf.
- *exilis* (Syd.) Hansf. = *Irenina exilis* Syd.
- *fagaricola* (Speg.) Hansf. = *Meliola fagaricola* Speg.
- *fici* Hansf. = *Irenina fici* Hansf.
- *forchhammeriae* Hansf. = *Irenina forchhammeriae* Hansf.
- *fidelis* (Toro) Hansf. = *Irenina fidelis* Toro
- *formosensis* (Yamam.) Hansf. = *Irenina formosensis* Yamam.
- *fraseriana* (Syd.) Hansf. = *Meliola fraseriana* Syd.
- *funebri* (Cif.) Hansf. = *Meliola funebri* Cif.
- *gaillardii* Hansf. = *Irene gaillardii* Hansf.
- *galipanensis* (Toro) Hansf. = *Irenina galipanensis* Toro
- *gaylussaciae* Hansf. = *Irenina gaylussaciae* Hansf.
- *gesuitica* (Speg.) Hansf. = *Meliola gesuitica* Speg.
- *glabra* (B. & C.) Hansf. = *Meliola glabra* B. & C.
- *glabroides* (Stev.) Hansf. = *Meliola glabroides* Stev.
- *glabriuscula* (Speg.) Hansf. = *Meliola glabriuscula* Speg.
- *glyphaeae* Hansf. = *Irenina glyphaeae* Hansf.
- *guatemalensis* Hansf. = *Irenina guatemalensis* Hansf.
- *gymnosporiae* (Syd.) Hansf. = *Meliola gymnosporiae* Syd.
- *hansfordii* (Stev.) Hansf. = *Irenina hansfordii* Stev.
- *hansfordii* (Stev.) Hansf. var. = *Irenina hansfordii* Stev. var.
- *densa* (Hansf. & Deight.) Hansf. = *Irenina hansfordii* Stev. var. *densa* Hansf. & Deight.
- *harunganae* Hansf. = *Irenina harunganae* Hansf.
- *harunganicola* Hansf. = *Irenina harunganicola* Hansf.
- *hedycaryae* Hansf. = *Irenina hedycaryae* Hansf.
- *henningsii* (Beeli) Hansf. = *Meliola henningsii* Beeli
- *hernandiacearum* (Cif.) Hansf. = *Meliola hernandiacearum* Cif.
- *hippocrateae* (Hansf. & Deight.) Hansf. = *Irenina hippocrateae* Hansf. & Deight.
- *homalii-angustifolii* (Deight.) Hansf. = *Irenina homalii-angustifolii* Deight.
- *hydrangeae* (Yamam.) Hansf. = *Irenina hydrangeae* Yamam.
- *hymenaeicola* (Frag. & Cif.) Hansf. = *Meliola hymenaeicola* Frag. & Cif.
- *implicata* (Doidge) Hansf. = *Irene implicata* Doidge
- *inermis* (K. & C.) Hansf. = *Meliola inermis* K. & C.
- *ingaeicola* (Speg.) Hansf. = *Meliola ingaeicola* Speg.
- *irregularis* (Stev.) Hansf. = *Meliola irregularis* Stev.
- *isertiae* (Stev.) Hansf. = *Irenina isertiae* Stev.
- *inquitosensis* (P. Henn.) Hansf. = *Meliola inquitosensis* P. Henn.
- *knemae* Hansf. = *Irenina knemae* Hansf.
- *laeta* (Theiss) Hansf. = *Meliola laeta* Theiss.
- *lagerheimii* (Gaill.) Hansf. = *Meliola lagerheimii* Gaill.
- *lagunculariae* (Earle) Hansf. = *Meliola lagunculariae* Earle
- *leucosykeae* (Yates) Hansf. = *Meliola leucosykeae* Yates
- *linocieriae* (Syd.) Hansf. = *Meliola linocieriae* Syd.
- *longipedicellata* (Stev.) Hansf. = *Irenina longipedicellata* Stev.
- *longipoda* (Gaill.) Hansf. = *Meliola longipoda* Gaill.
- *loniceriae* (Yamam.) Hansf. = *Irenina loniceriae* Yamam.
- *lovoae* Hansf. = *Irenina lovoae* Hansf.

- *malloti* (Hansf. & Thirum.)
- *mallotica* (Yamam.) Hansf.
- *mammillata* Hansf.
- *manaosensis* (P. Henn.) Hansf.
- *manca* (Ell. & Mart.) Hansf.
- *marcgraviae* (Tehon) Hansf.
- *masakensis* Hansf.
- *meibomiae* (Stev.) Hansf.
- *melastomacearum* (Speg.) Hansf.
- *miriapoda* (Cif.) Hansf.
- *mendonciae* Hansf.
- *monninae* (Stev.) Hansf.
- *morototoni* (Speg.) Hansf.
- *myricicola* Hansf.
- *naucina* (Syd.) Hansf.
- *naucleae* (Boedijn) Hansf.
- *nectandrae* Hansf.
- *negeri* Hansf.
- *nigra* (Stev.) Hansf.
- *nuxiae* (Syd.) Hansf.
- *obesa* (Speg.) Hansf.
- *obesula* (Speg.) Hansf.
- *obscura* (Stev.) Hansf.
- *obducens* (Gaill.) Hansf.
- *ochracearum* (Cif.) Hansf.
- *papillifera* (Syd.) Hansf.
- *parasitica* (Stev.) Hansf.
- *parathesiana* (Cif.) Hansf.
- *peddieae* (Doidge) Hansf.
- *peglerae* (Doidge) Hansf.
- *penicilliformis* (Gaill.) Hansf.
- *perseae* (Stev.) Hansf.
- *peruviana* (Syd.) Hansf.
- *phyllanthi* (Deight.) Hansf.
- *pileae* Hansf.
- *pipericola* Hansf.
- *pipturi* Hansf.
- *pithecolobii* (Yamam.) Hansf.
- *pittieri* (Toro) Hansf.
- *pitya* (Sacc.) Hansf.
- *plebeja* (Speg.) Hansf.
- *pleurostyliae* (B. & Br.) Hansf.
- *plumeriae* Hansf.
- *podocarpi* (Doidge) Hansf.
- *polygoni* Hansf.
- *potoricensis* (Toro) Hansf.
- *pothodis* (Hansf. & Thirum.) Hansf.
- *premae* (Hansf. & Deight.) Hansf.
- *proticola* (Bat. & Gayao) Hansf.
- *prunicola* (Speg.) Hansf.
- *Irenina malloti* Hansf. & Thirum.
- *Irenina mallotica* Yamam.
- *Irene mammillata* Hansf.
- *Meliola manaosensis* P. Henn.
- *Meliola manca* Ell. & Mart.
- *Meliola marcgraviae* Tehon
- *Irenina masakensis* Hansf.
- *Irenina meibomiae* Stev.
- *Meliola melastomacearum* Speg.
- *Meliola miriapoda* Cif.
- *Irene mendonciae* Hansf.
- *Irenina monninae* Stev.
- *Meliola morototoni* Speg.
- *Irenina myricicola* Hansf.
- *Meliola naucina* Syd.
- *Irenina naucleae* Boedijn
- *Irenina nectandrae* Hansf.
- *Irenina negeri* Hansf.
- *Irenina nigra* Stev.
- *Irene nuxiae* Syd.
- *Meliola obesa* Speg.
- *Meliola obesula* Speg.
- *Irenina obscura* Stev.
- *Meliola obducens* Gaill.
- *Meliola ochracearum* Cif.
- *Irene papillifera* Syd.
- *Irenina parasitica* Stev.
- *Meliola parathesiana* Cif.
- *Irene peddieae* Doidge
- *Meliola peglerae* Doidge
- *Meliola penicilliformis* Gaill.
- *Meliola perseae* Stev.
- *Meliola peruviana* Syd.
- *Irenina phyllanthi* Deight.
- *Irenina pileae* Hansf.
- *Irenina pipericola* Hansf.
- *Irenina pipituri* Hansf.
- *Irenina pithecolobii* Yamam.
- *Irene pittieri* Toro
- *Meliola pitya* Sacc.
- *Meliola plebeja* Speg.
- *Asterina pleurostylia* B. & Br.
- *Irenina plumeriae* Hansf.
- *Meliola podocarpi* Doidge
- *Irenina polygoni* Hansf.
- *Irene portoricensis* Toro
- *Irenina pothodis* Hansf. & Thirum.
- *Irenina premae* Hansf. & Deight.
- *Irenina proticola* Batista & Gayao
- *Miliola prunicola* Speg.

- *pseudanastomosans* (Rehm) = *Meliola pseudanastomosans*
Hansf. Rehm
- *pseudekebergiae* Hansf. = *Irene pseudekebergiae* Hansf.
- *quercina* Hansf. = *Irenina quercina* Hansf.
- *reticulata* (Karst. & Roum.) = *Meliola reticulata* Karst & Roum.
Hansf.
- *rhaphiolepis* (Yamam.) Hansf. = *Irenina rhaphiolepis* Yamam.
- *rhododendri* (Yamam.) Hansf. = *Irenina rhododendri* Yamam.
- *rinoreae* (Doidge) Hansf. = *Irene rinoreae* Doidge
- *rosae* Hansf. = *Irenina rosae* Hansf.
- *rubi* (Stev. & Rold.) Hansf. = *Irenina rubi* Stev. & Rold.
- — var. *angulata* (Stev. & Rold.) = Stev. var. *angulata* Stev. & Rold.
Hansf.
- *sandorici* (Rehm) Hansf. = *Meliola sandorici* Rehm
- *sapotacearum* Hansf. = *Irene sapotacearum* Hansf.
- — var. *longipoda* Hansf. = — — var. *longipoda* Hansf.
- *sarcocephali* (Hansf. & Deight.) = *Irenina sarcocephali* Hansf. &
Hansf. Deight.
- *sapii* Hansf. = *Irene sapii* Hansf.
- *scabra* (Doidge) Hansf. = *Meliola scabra* Doidge
- *schlegeliae* (Stev.) Hansf. = *Irenina schlegeliae* (Stev.) Hansf.
- *schwenkiae* Hansf. = *Irene schwenkiae* Hansf.
- *scorodocarp* Hansf. = *Irene scorodocarp* Hansf.
- *securidacae* Hansf. = *Irenina securidacae* Hansf.
- *seminata* (B. & C.) Hansf. = *Meliola seminata* B. & C.
- *sepulta* (Pat.) Hansf. = *Meliola sepulta* Pat.
- *shropshiriana* (Stev.) Hansf. = *Irenina shropshiriana* Stev.
- *singalensis* Hansf. = *Irenina singalensis* Hansf.
- *sinuosa* (Stev. & Rold.) Hansf. = *Irenina sinuosa* Stev. & Rold.
- *solanacearum* Hansf. = *Irene solanacearum* Hansf.
- *stevensonii* (Cif.) Hansf. = *Meliola stevensonii* Cif.
- *stigmaphylli* (Petr.) Hansf. = *Meliola stigmaphylli* Petr.
- *strombosiae* Hansf. = *Irenina strombosiae* Hansf.
- *strophanthi* (Doidge) Hansf. = *Meliola strophanthi* Doidge
- *styracicola* (Speg.) Hansf. = *Meliola styracicola* Speg.
- *subapoda* (Syd.) Hansf. = *Meliola subapoda* Syd.
- *subcrustacea* (Speg.) Hansf. = *Meliola subcrustacea* Speg.
- *symphoniae* Hansf. = *Irenina symphoniae* Hansf.
- *syzygii* Hansf. = *Irenina syzygii* Hansf.
- *tabebuiae* (Bat. & Silva) Hansf. = *Irenina tabebuiae* Batista & Silva
- *taxi* (Stev.) Hansf. = *Irenina taxi* Stev.
- *terminaliae* (Hansf. & Deight.) = *Irenina terminaliae* Hansf. &
Hansf. Deight.
- *tersa* (Cif.) Hansf. = *Meliola tersa* Cif.
- *tetracerae* (Hansf. & Deight.) = *Irenina tetracerae* Hansf. &
Hansf. Deight.
- — var. *minor* Hansf. = — — var. *minor* Hansf.
- *thunbergiae* (Stev. & Rold.) = *Irenina thunbergiae* Stev. &
Hansf. Rold.
- *thunbergiae-chrysopidis* = *Irenina thunbergiae-chrysopi-*
(Deight.) Hansf. dis Deight.
- *thwaitesii* Hansf. = *Irenina thwaitesii* Hansf.
- *toroana* (Cif.) Hansf. = *Meliola toroana* Cif.
- *tremae* (Speg.) Hansf. = *Meliola tremae* Speg.
- *triloba* (Wint.) Hansf. = *Meliola triloba* Wint.

- | | |
|--|--|
| — <i>trachylaena</i> (Syd.) Hansf. | = <i>Irene trachylaena</i> Syd. |
| — <i>turneracearum</i> (Cif.) Hansf. | = <i>Meliola turneracearum</i> Cif. |
| — <i>ugandensis</i> Hansf. | = <i>Irene ugandensis</i> Hansf. |
| — — var. <i>antiaridis</i> (Hansf. & Deight.) Hansf. | = <i>Irenina ugandensis</i> (Hansf.) Hansf. & Deight., var. <i>antiaridis</i> Hansf. & Deight. |
| — <i>umirayensis</i> (Yates) Hansf. | = <i>Meliola umirayensis</i> Yates |
| — <i>usteriana</i> (Rehm) Hansf. | = <i>Meliola usteriana</i> Rehm |
| — <i>usterii</i> Hansf. | = <i>Irenina usterii</i> Hansf. |
| — <i>uncariae</i> (Rehm) Hansf. | = <i>Meliola uncariae</i> Rehm |
| — <i>valdiviensis</i> (Speg.) Hansf. | = <i>Meliola valdiviensis</i> Speg. |
| — <i>verrucosa</i> (Pat.) Hansf. | = <i>Meliola verrucosa</i> Pat. |
| — <i>villebruneae</i> Hansf. | = <i>Irenina villebruneae</i> Hansf. |
| — <i>viburni</i> (Syd.) Hansf. | = <i>Meliola viburni</i> Syd. |
| — <i>vilis</i> (Syd.) Hansf. | = <i>Meliola vilis</i> Syd. |
| — — var. <i>citharexyli</i> Hansf. | = <i>Irene vilis</i> (Syd.) Hansf. var. <i>citharexyli</i> Hansf. |
| — <i>venezuelensis</i> (Syd.) Hansf. | = <i>Meliola venezuelensis</i> Syd. |
| — <i>werdermannii</i> Hansf. | = <i>Irene werdermannii</i> Hansf. |
| — <i>winteri</i> (Speg.) Hansf. | = <i>Meliola winteri</i> Speg. |
| — <i>ximeniae</i> (Bat. & Silva) Hansf. | = <i>Irenina ximeniae</i> Batista & Silva |
| — <i>zeyheri</i> (Doidge) Hansf. | = <i>Irene zeyheri</i> Doidge |

(450) ***Asteridiella americana*** Hansf., sp. n.

Plagulae epiphyllae, usque ad 2 mm diam., densae, leves. Hyphae brunneae, subrectae vel undulatae, oppositae vel irregulariter lateque ramosae, dense reticulatae, cellulis plerumque 20—25 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, subantrorsa, recta vel curvata, 25—40 μ longa; cellula basali cylindracea vel cuneata, 7—15 μ longa; cellula apicali irregulariter fortiterque lobata, versiformi, 20—29 $\Rightarrow$ 13—23 μ . Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, 17—25 $\Rightarrow$ 7—9 μ . Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, — 210 μ diam., cellulis parietis rotundatis vel obtuse conoideis, usque ad 18 μ alt. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, 43—49 $\Rightarrow$ 20—23 μ .

Hab. in foliis *Osmanthi americani*, Faceville, Decatur Co., Georgia, USA, Thorne et al. 9055 (= Herb. Plant Path., Univ. Cornell 37984, typus).

This occurs mixed with *Meliola osmanthi* Syd., from which it is very different.

(451) ***Asteridiella calva*** (Speg.) Hansf., var. **minor** Hansf., var. n.

Plagulae epiphyllae, usque ad 3 mm diam., densae, leves. Hyphae atrobrunneae, rectae, oppositae ramosae, dense radianto-reticulatae, cellulis plerumque 15—20 $\Rightarrow$ 6—7 μ . Hyphopodia capitata alternata, subantrorsa, plerumque recta, 17—23 μ longa; cellula basali cylindracea vel cuneata, 2—6 μ longa; cellula apicali cylindracea vel

subconioidea apice obtusa, integra, recta vel curvula, $15-20 \Rightarrow 8-9 \mu$. Hyphopodia mucronata illis capitatis commixta, pauca, opposita vel alternata, ampullacea, $16-23 \Rightarrow 7-8 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, -220μ diam. Sporae atrobrunneae, cylindraceae vel ellipsoideae, obtusae, 4-septatae, constrictae, $40-45 \Rightarrow 16-19 \mu$.

Hab. in foliis *Lauracearum* spec. indet., Costa Rica, Spegazzini 833.

(452) ***Asteridiella chardoniana*** Hansf., sp. n.

Plagulae epiphyllae, densae, leves, usque ad 2 mm diam. Hyphae subrectae vel undulatae, oppositae vel irregulariter ramosae, dense reticulatae, cellulis plerumque $20-30 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $19-31 \mu$ longa; cellula basali cuneata, $5-10 \mu$ longa; cellula apicali clavata, irregulariter angulosa vel sublobata, $14-23 \Rightarrow 11-19 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $18-23 \Rightarrow 7-8 \mu$. Setae nullae. Perithecia in centro plagularum laxè aggregata, atra, globosa verrucosa, -270μ diam., cellulis parietis rotundatis vel obtuse conoideis, -25μ alt. et basi circa 40μ diam. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, $36-42 \Rightarrow 18-20 \mu$.

Hab. in foliis *Serjaniae* spec. indet., Motatan, Trujillo, Venezuela, Chardon 925 p. p. (typus in Herb. Plant Path., Cornell Univ.).

(453) ***Asteridiella cordiae*** Hansf. & Deight., sp. n.

Plagulae epiphyllae, subdensae, usque ad 3 mm diam., leves. Hyphae brunneae, rectae vel undulatae, oppositae vel irregulariter lateque ramosae, reticulato-intertextae, cellulis plerumque $20-40 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, recta, $19-25 \mu$ longa; cellula basali cuneata vel cylindracea, $3-5 \mu$ longa; cellula apicali globosa integraque, vel apice lenissime rotundato-angulosa, $13-19 \Rightarrow 13-16 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, ampullacea, $15-20 \Rightarrow 6-7 \mu$. Setae nullae. Perithecia in centro plagularum laxè aggregata, atra, globosa, verrucosa, usque ad 190μ diam., cellulis parietis obtuse conoideis, usque ad 15μ alt. Sporae cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, atrobrunneae, $40-45 \Rightarrow 16-19 \Rightarrow 14-15 \mu$.

Hab. in foliis *Cordiae obliquae*, Njala, Sierra Leone, Deighton 3861 (typus); 3836, 5271 (= IMI 46573, 36572, 53130).

(454) ***Asteridiella cordiae-salicifoliae*** Hansf., sp. n.

Plagulae epiphyllae, usque ad 1 mm diam., leves, tenues vel subdensae. Hyphae brunneae, subrectae, oppositae vel irregulariter lateque ramosae, laxè vel subdense reticulatae, cellulis plerumque $20-30$

$\approx 7-9 \mu$. Hyphopodia capitata alternata, subantrorsa recta vel curvata, $20-33 \mu$ longa; cellula basali cuneata vel cylindracea, $4-15 \mu$ longa; cellula apicali irregulariter ovoidea vel clavulata, margine crenata vel rotundato-angulosa, raro sublobata, $16-22 \approx 12-16 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $15-22 \approx 7-9 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, -250μ diam., cellulis parietis obtusis conoideis, usque ad 28μ alt. Sporae atrobrunneae, oblongae vel ellipsoideae, obtusae, 4-septatae, constrictae, $45-50 \approx 19-21 \mu$.

Hab. in foliis *Cordiae salicifoliae*, Posoidas, Misiones, Argentina, Herb. Spegazzini 1833, typus.

(455) **Asteridiella crescenticola** Hansf., sp. n.

Plagulae amphigenae. atrae, densae, -1 mm diam., leves. Hyphae brunneae, undulatae, oppositae acutaeque ramosae, laxae reticulatae, cellulis plerumque $20-25 \approx 7-8 \mu$. Hyphopodia capitata alternata, antrorsa, recta vel curvata, $24-30 \mu$ longa; cellula basali cuneata vel cylindracea, $5-11 \mu$ longa; cellula apicali elongato-ovata, integra, $16-23 \approx 9-12 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, $16-25 \approx 7-9 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, -180μ diam., cellulis parietis obtuse conoideis, -15μ alt. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $33-37 \approx 15-17 \mu$.

Hab. in foliis *Crescentiae cujetes*, Guarenas, Miranda, Venezuela, Chardon & Toro 526 (typus in Herb. Plant Path., Univ. Cornell).

(456) **Asteridiella drypeticola** Hansf., sp. n.

Plagulae amphigenae, atrae, dense, -1 mm diam., leves. Hyphae subrectae, brunneae, oppositae vel irregulariter lateque ramosae, cellulis plerumque $20-25 \approx 7-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $18-30 \mu$ longa; cellula basali cuneata, $6-13 \mu$ longa; cellula apicali sinuoso-cylindracea vel irregulariter angulosa, curvata, subinde sublobata, $14-20 \approx 10-14 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, opposita vel alternata, ampullacea, $13-20 \approx 7-8 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, -180μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $35-42 \approx 15-17 \mu$.

Hab. in foliis *Drypetes* sp., Porto Rico, Stevens 7885.

(457) **Asteridiella fagaricola** (Speg.) Hansf., comb. n.

Syn.: *Meliola fagaricola* Speg., Anal. Mus. Nac. Buenos Aires, **32**: 352. 1924. — *Irenina fagaricola* (Speg.) Stev., Ann. Mycol. Berlin, **25**: 458. 1927.

On *Pagara* sp., Argentina, Puerto Aguirre, Misiones, Spig. Herb. 1811, type; on *F. chiloperone*, l. c., Spig. Herb. 510.

var. **zanthoxyli** Hansf., var. n.

Plagulae plerumque epiphyllae, densae, usque ad 1 mm diam., leves. Hyphae brunneae, subrectae vel undulatae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $15-25 \Rightarrow 6-9 \mu$. Hyphopodia capitata alternata vel interdum ad 90% opposita, antrorsa vel patentia, recta vel curvula, $20-27 \mu$ longa; cellula basali cylindracea vel cuneata, $3-7 \mu$ longa; cellula apicali clavato-cylindracea, integra, angulosa vel raro lenissime lobata, $14-20 \Rightarrow 8-14 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $18-24 \Rightarrow 7-9 \mu$. Perithecia dispersa, atra, verrucosa, — 250μ diam., cellulis parietis rotundatis vel obtuse conoideis, ad 10μ alt. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, $35-40 \Rightarrow 16-18 \mu$.

Hab. in foliis *Zanthoxyli hyemalis*, Misiones, Argentina, Spig. Herb. 502, typus.

(458) **Asteridiella gaillardii** Hansf., sp. n.

Plagulae amphigenae, plerumque hypophyllae, usque ad 8 mm diam. vel late confluentes, tenues, leves. Hyphae undulatae vel flexuosae, brunneae, alternatim vel irregulariter acuteque ramosae, laxae reticulato-intertextae, cellulis plerumque $20-40 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $18-30 \mu$ longa; cellula basali cuneata, $5-8 \mu$ longa; cellula apicali piriforme vel irregulariter rotundato-angulosa, saepe curvata, $15-24 \Rightarrow 11-17 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, alternata vel opposita, ampullacea, $16-27 \Rightarrow 7-9 \mu$ collo elongato. Perithecia laxae dispersa, atra, globosa, verrucosa, usque ad 260μ diam.; cellulis parietis obtuse conoideis, subinde curvatis, usque ad 30μ alt. et basi $40-45 \mu$ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $36-42 \Rightarrow 15-17 \mu$.

Hab. in foliis ?*Solani* sp., San Jorge, Ecuador, July 1892, Lagerheim (typus in Herb. Paris sub „*Meliola verrucosa* Gaill.“ ined.).

(459) **Asteridiella galipanensis** (Toro) Hansf., sp. n.

Syn.: *Irenina galipanensis* Toro in herb. (?ined.).

Plagulae hypophyllae, usque ad 10 mm diam. vel confluentes, tenues, leves. Hyphae subrectae, oppositae acuteque ramosae, laxae radiato-reticulatae et intertextae, brunneae, cellulis plerumque $25-35 \Rightarrow 5-6 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, recta vel flexuosa, $18-25 \mu$ longa; cellula basali cylindracea, $4-6 \mu$ longa; cellula apicali cylindracea, clavata vel ellipsoidea, integra, recta vel curvula, $13-18 \Rightarrow 6-8 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, alternata, ampullacea, $18-25 \Rightarrow 6-8 \mu$. Setae

nullae. Perithecia dispersa, atra, globosa, subverrucosa, — 140 μ diam., cellulis parietis obtuse conoideis, — 16 μ altis. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, 40—46 $\Rightarrow$ 18—21 μ .

Hab. in foliis *Guttiferae* spec. indet., Galipan, Caracas, Venezuela, Kern & Toro 1696 (typus in Herb. Plant Path., Cornell Univ.).

(460) *Asteridiella glabra* (B. & C.) Hansf., var. **major** Hansf., var. n.

Plagulae epiphyllae, densae, atrae, usque ad 3 mm diam., leves. Hyphae mycelii subrectae, radiantes, atrobrunneae, oppositae ramosae, cellulis plerumque 25—30 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, antrorsa, recta vel curvula, 13—20 μ longa; cellula basali cuneata vel cylindracea, 3—8 μ longa; cellula apicali globosa vel piriformia integra, 10—15 $\Rightarrow$ 9—12 μ . Hyphopodia mucronata in hyphis distinctis evoluta vel illis capitatis commixta, opposita vel alternata, ampullacea, 12—18 $\Rightarrow$ 7—9 μ . Setae myceliales nullae. Perithecia laxae aggregata, atra, globosa, verrucosa, usque ad 210 μ diam., cellulis parietis obtuse conoideis, usque ad 18 μ alt. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, leniter constrictae, 36—47 $\Rightarrow$ 18—21 μ .

Hab. in foliis *Canthii* spec., Woodbush, Transvaal, South Africa, Herb. Pretoria 1780.

(461) *Asteridiella hughesii* Hansf., sp. n.

Plagulae epiphyllae, usque ad 3 mm diam., densae, leves. Hyphae subrectae, brunneae, oppositae acuteque ramosae, dense reticulatae, cellulis plerumque 15—25 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, antrorsa, recta, 16—21 μ longa; cellula basali cylindracea, 3—6 μ longa; cellula apicali ovata vel piriforme, integra, 12—15 $\Rightarrow$ 9—11 μ . Hyphopodia mucronata in centro plagularum illis capitatis commixta, opposita vel alternata, ampullacea, 17—22 $\Rightarrow$ 7—9 μ . Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, — 240 μ diam., cellulis parietis obtuse conoideis vel rotundatis, usque ad 20 μ alt. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 47—51 $\Rightarrow$ 18—21 μ .

Hab. in foliis *Syzygii ?guineensis*, Aburi, Gold Coast, Hughes 172 (= IMI 49535-a, typus).

(462) *Asteridiella lagerheimii* (Gaill.) Hansf., comb. n.

Syn.: *Meliola lagerheimii* Gaill., Le Genre *Meliola*, 1892, p. 49. — *Irene lagerheimii* (Gaill.) Theiss. & Syd., Ann. Mycol. **15**: 461. 1917. — *Irenina lagerheimii* (Gaill.) Stev., loc. cit., **25**: 466. 1927.

The type, on *Citharexylum*, Ecuador, Lagerheim in Herb. Paris has been re-examined:

Colonies rather dense, to 3 mm diam. or confluent, smooth. Hyphae closely radiating-reticulate, substraight, dark brown, the cells $8-10 \Rightarrow 25-35 \mu$, branching opposite, acute, close. Capitate hyphopodia alternate, antrorse, straight or bent, $20-35 \mu$ long; stalk cell cylindric to cuneate, $5-10 \mu$ long; head cell cylindric to clavate, widely rounded and often recurved towards the apex, entire, $17-28 \Rightarrow 9-17 \mu$. Mucronate hyphopodia mixed with capitate, opposite or alternate, ampulliform, $17-22 \Rightarrow 8-10 \mu$. Setae none. Perithecia closely scattered or in a loose central group, black, globose, to 230μ diam.; surface cells rounded, projecting only to about 10μ . Spores dark brown, cylindric to ellipsoid, obtuse, 4-septate, rather strongly constricted, $57-66 \Rightarrow 21-26 \mu$.

The host was given originally as *Ilex scopulorum*. Other specimens examined and belonging here are Rehm, Ascomyc. 1048 and Sydow, Fung. exot. exs. 1140 on *Citharexylum ilicifolium*, Pichincha, Ecuador, the type locality; this last specimen has spores only $46-54 \Rightarrow 18-21 \mu$.

(463) ***Asteridiella longipedicellata*** (Stev.) Hansf., var. **major** Hansf., var. n.

Plagulae amphigenae, plerumque epiphyllae, tenues, effusae leves. Hyphae brunneae, subrectae, oppositae vel irregulariter ramosae, laxae reticulatae, cellulis plerumque $20-30 \Rightarrow 6-8 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, recta vel curvata, $23-50 \mu$ longa; cellula basali cylindracea, recta vel curvata, $10-25 \mu$ longa; cellula apicali clavata, saepe curvata, saepius irregulariter rotundato-lobata, $14-28 \Rightarrow 10-16 \mu$. Hyphopodia mucronata non visa. Setae myceliales nullae. Perithecia dispersa, atra, globosa, immatura. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $40-43 \Rightarrow 16-18 \mu$.

Hab. in foliis *Doliocarpus* sp., Panama, Stevens 233 p. p. (typus in Farlow Herb.).

(464) ***Asteridiella longipoda*** (Gaill.) Hansf., var. **minor** Hansf., var. n.

Plagulae epiphyllae, usque ad 2 mm diam., subdensae. Hyphae brunneae, subrectae vel undulatae, oppositae acuteque ramosae, dense reticulatae, cellulis plerumque $15-20 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta, $17-24 \mu$ longa; cellula basali cuneata vel cylindracea, $4-7 \mu$ longa; cellula apicali ovata, integra, $12-18 \Rightarrow 9-12 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, ampullacea, $15-20 \Rightarrow 7-9 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 180μ diam., cellulis parietis conoideis, — 20μ alt. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, leniter constrictae, $35-41 \Rightarrow 13-16 \mu$.

Hab. in foliis *Cordia nitida*, Porto Rico, Stevens 9329.

(465) **Asteridiella montecristensis** Hansf., sp. n.

Plagulae amphigenae, usque ad 5 mm diam. vel confluentes, tenues, leves. Hyphae brunneae, undulatae vel sinuosae, oppositae vel irregulariter lateque ramosae, laxae reticulatae, cellulis plerumque $20-25 \Rightarrow 6-8 \mu$. Hyphopodia capitata alternata, patentia, saepius curvata, $20-28 \mu$ longa; cellula basali cylindracea vel cuneata, $4-10 \mu$ longa; cellula apicali clavata, integra, irregulariter angulosa vel sublobata, versiformi, saepe curvata, $15-20 \Rightarrow 10-15 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $17-22 \Rightarrow 6-8 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, — 160μ diam., cellulis parietis obtuse conoideis, — 15μ alt. Sporae atrobrunneae, subellipsoideae, obtusae, 4-septatae, constrictae, $37-41 \Rightarrow 16-19 \mu$.

Hab. in foliis *Coccolobae* (? *buchii*), Monte Cristi, Moncion, San Domingo, Ciferri, Mycofl. doming. exs. 301-bis, (typus in Herb. Plant Path., Univ. Cornell).

(466) **Asteridiella naucleae** (Boedijn) Hansf., var. **ibericae** Hansf., var. n.

Plagulae amphigenae, dense, leves, usque ad 1.5 mm diam. Hyphae mycelii rectae vel sinuosae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $20-30 \Rightarrow 8-10 \mu$. Hyphopodia capitata alternata, recta vel curvata, antrorsa, $20-25-(30) \mu$ longa; cellula basali cuneata, $4-9 \mu$ longa; cellula apicali globosa, late ovata vel raro subangulosa, $15-19 \Rightarrow 10-15 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata, ampullacea, pauca. Setae nullae. Perithecia dispersa vel laxae aggregata, atra, globosa, verrucosa, usque ad 170μ diam., cellulis parietis obtuse conoideis vel mammillatibus, usque ad 18μ alt. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $38-45 \Rightarrow 16-21 \mu$.

Hab. in foliis *Coffeae libericae*, Sierra Leone, Deighton 1944, typus, Deighton 2247, 2019, 1960.

(467) **Asteridiella obesa** (Speg.) Hansf. var. **clausenae** Hansf., var. n.

Plagulae epiphyllae, usque ad 2 mm diam., densae, leves. Hyphae atrobrunneae, subrectae vel tortuosae, oppositae vel alternatim lateque ramosae, cellulis $15-20 \Rightarrow 5-8 \mu$, dense reticulatae et subsolidae. Hyphopodia capitata alternata vel circa 1% opposita, subantrorsa, recta vel curvata, $13-24 \mu$ longa; cellula basali cylindracea, $4-8 \mu$ longa; cellula apicali globosa vel ovoidea, integra, raro sublobata, $10-17 \Rightarrow 9-14 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel rarius opposita, ampullacea, $14-20 \Rightarrow 6-9 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, — 190μ diam., cellulis parietis rotundato-convexis, usque ad 10μ alt. Sporae atrobrun-

neae, cylindraceae vel subellipsoideae, 4-septatae, constrictae, $33-39 \Rightarrow 14-16 \Rightarrow 12-14 \mu$.

Hab. in foliis *Clausenae excavatae*, Tjikampek, Java. Boedijn 965 (= BO 12211, typus).

(468) **Asteridiella pentaclethrae** Hansf., sp. n.

Plagulae amphigenae, tenues, leves, usque ad 2 mm diam. Hyphae brunneae, subrectae, oppositae lateque ramosae, laxe reticulatae, cellulis plerumque $25-40 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata vel dispersa, antrorsa vel patentia, recta vel curvata, $15-23 \mu$ longa; cellula basali cylindracea, $2-5 \mu$ longa; cellula apicali piriformi, integra, vel subinde irregulariter rotundato-angulosa, saepe recurvata, $13-19 \Rightarrow 9-14 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea vel conoidea, $15-19 \Rightarrow 6-8 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, usque ad 180μ diam., cellulis parietis rotundatis, usque ad 10μ alt. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, $35-44 \Rightarrow 16-18 \mu$.

Hab. in foliis *Pentaclethrae* sp., British Guiana Stevens 387 a, p. p., typus in Herb. Farlow; in foliis ?*Acaciae* sp., Costa Rica, Stevens 787.

In the type this is mixed with *M. conigera* Stev., from which it is very different.

(469) **Asteridiella perseae** (Stev.) Hansf., var. **major** Hansf., var. n.

Plagulae amphigenae, subdensae, usque ad 5 mm diam., leves. Hyphae in epiphyllis rectae, oppositae lateque ramosae, subdense reticulatae, cellulis plerumque $25-40 \Rightarrow 7-8 \mu$, in hypophyllo hyphae tortuosae, intertextae. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $25-34 \mu$ longa; cellula basali cuneata, $6-10 \mu$ longa; cellula apicali subpiriformi, margine crenata vel sublobata, $18-24 \Rightarrow 14-18 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata, ampullacea, $22-28 \Rightarrow 7-9 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, — 190μ diam.; cellulis parietis conoideis, obtusis vel subacutis, usque ad 30μ alt. Sporae cylindraceae vel ellipsoideae, atrobrunneae, obtusae, 4-septatae, constrictae, $44-52 \Rightarrow 18-23 \mu$.

Hab. in foliis *Perseae americanae*, Irwin, Jamaica, Martyn 319 (= IMI 24811, typus).

(470) **Asteridiella puiggariana** Hansf., sp. n.

Syn.: „*Meliola callosperma* Speg.“. Bol. Acad. Nac. Cient. Cordoba, **23**: no. 275. 119, pro parte.

Plagulae epiphyllae, densae, leves, usque ad 1 mm diam. Hyphae subrectae, oppositae acuteque ramosae, dense radianto-reticulatae, cel-

lulis plerumque 20—25 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata vel rarissime opposita, antrorsa, recta vel curvata, 25—40 μ longa; cellula basali cylindracea vel cuneata, 5—15 μ longa; cellula apicali irregulariter clavata, angulosa vel lobata, versiformi, 18—30 $\Rightarrow$ 12—18 μ . Hyphopodia mucronata pauca, illis capitatis in centro plagarum commixta, opposita vel alternata, ampullacea, 20—26 $\Rightarrow$ 8—10 μ . Perithecia pauca, dispersa, atra, globosa, verrucosa, usque ad 300 μ diam., cellulis parietis rotundatis vel obtuse conoideis, usque ad 12 μ alt. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, 54—62 $\Rightarrow$ 27—32 μ .

Hab. in foliis ?*Gaylussaciae* spec. indet., Apiaty, Sao Paulo, Brazil, Puiggari 315 (SPEG 612, typus).

(471) **Asteridiella saurauina** Hansf., sp. n.

Plagulae epiphyllae, tenues, leves, usque ad 2 mm diam. Hyphae brunneae, undulatae vel sinuosae, oppositae lateque ramosae, laxae reticulatae, cellulis plerumque 15—20 $\Rightarrow$ 7 μ . Hyphopodia capitata alternata, antrorsa vel patentia, recta, 13—16 μ longa; cellula basali cylindracea vel cuneata, 2—5 μ longa; cellula apicali globosa vel piriformi, integra, 10—13 $\Rightarrow$ 8—11 μ . Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, ampullacea, 12—17 $\Rightarrow$ 6—8 μ . Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, —170 μ diam., cellulis parietis rotundatis vel submammillatis, —12 μ altis. Sporae cylindraceae, obtusae, atrobrunneae, 4-septatae, constrictae, 35—39 $\Rightarrow$ 14—15 μ .

Hab. in foliis *Saurauiae elegantis*, Benguet, Luzon, Philippines, Stevens 1627 (typus in Herb. Univ. Cornell).

In this specimen this species occurs mixed with *A. papillifera* (Syd.) Hansf., comb. n. (= *Irene papillifera* Syd.).

(472) **Asteridiella solanacearum** Hansf., sp. n.

Plagulae epiphyllae, subdensae, usque ad 1.5 mm diam., leves. Hyphae brunneae, tortuosae, alternatim vel irregulariter ramosae, dense reticulatae, cellulis plerumque 20—30 $\Rightarrow$ 6—7 μ . Hyphopodia capitata alternata, recta vel curvata, 13—24 μ longa; cellula basali cylindracea vel cuneata, 3—7 μ longa; cellula apicali raro subglobosa integraque, plerumque irregulariter rotundato-angulosa, 10—15 $\Rightarrow$ 8—13 μ . Hyphopodia mucronata in hyphis distinctis evoluta, alternata, raro opposita, ampullacea, 14—18 $\Rightarrow$ 6—8 μ . Setae nullae. Perithecia in centro plagarum laxae aggregata, atra, globosa, verrucosa, usque ad 215 μ diam., cellulis parietis conoideis, usque ad 30 μ alt. et basi 20—25 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 31—38 $\Rightarrow$ 14—15 μ .

Hab. in foliis *Solanacearum* spec. indet., San Miguel, Ecuador, Stevens 229 (typus in Herb. Farlow).

(473) **Asteridiella subglabroides** Hansf., sp. n.

Plagulae epiphyllae, raro etiam hypophyllae, tenues vel subdensae, usque ad 5 mm diam. Hyphae brunneae, sinuosae vel flexuosae, opposite vel irregulariter lateque ramosae, cellulis plerumque $2-25 \Rightarrow 6-8 \mu$. Hyphopodia capitata alternata, subantrorsa, saepius curvula, $17-27 \mu$ longa; cellula basali cylindracea, $4-11 \mu$ longa; cellula apicali subglobosa, integra, rotundato-angulosa vel sublobata, $12-17 \Rightarrow 10-14 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, ampullacea, $17-22 \Rightarrow 6-8 \mu$. Setae nullae. Perithecia laxè dispersa, atra, globosa, verrucosa, usque ad 170μ diam., cellulis parietis rotundatis vel subconoideis, usque ad 15μ alt. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $36-43 \Rightarrow 17-19 \mu$.

Hab. in foliis *Annonacearum* spec. indet., Kartabo, British Guiana, Stevens, Fungi of B. Guiana 667 (typus in Herb. Kew).

This was reported by Stevens & Tehon as *Irenina glabroides* Stev., of which the type is on *Piperaceae*.

(474) **Asteridiella tabaquitensis** Hansf., sp. n.

Plagulae epiphyllae, usque ad 2 mm diam., tenues, leves. Hyphae brunneae, sinuosae, opposite vel irregulariter acuteque ramosae, laxè reticulato-intertextae, cellulis plerumque $2-25 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, recta, $21-28 \mu$ longa; cellula basali cuneata vel cylindracea, $4-10 \mu$ longa; cellula apicali subglobosa vel piriforme, raro rotundato-angulosa, $15-18 \Rightarrow 11-14 \mu$. Hyphopodia mucronata illis capitatis commixta, ampullacea, $15-20 \Rightarrow 7-9 \mu$. Setae nullae. Perithecia laxè dispersa, atra, globosa, verrucosa, — 160μ diam., cellulis parietis rotundatibus, usque ad 10μ alt. Sporae atrobrunneae, cylindraceae vel ellipsoideae, obtusae, 4-septatae, constrictae, $38-44 \Rightarrow 16-18 \mu$.

Hab. in foliis *Cestri latifolii*, Tabaquite Forest, Trinidad, Baker in IMI 17957.

(475) **Asteridiella theisseniana** Hansf., sp. n.

Plagulae epiphyllae, densae, usque ad 3 mm diam. Hyphae subrectae vel sinuosae, atrobrunneae, opposite vel irregulariter ramosae, dense reticulatae et subsolidae, cellulis plerumque $15-30 \Rightarrow 8-11 \mu$. Hyphopodia capitata alternata, antrorsa, subrecta, $26-40 \mu$ longa; cellula basali cuneata, $5-10 \mu$ longa; cellula apicali versiformi, crenata vel fortiter irregulariterque lobata, $20-30 \Rightarrow 13-22 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $22-28 \Rightarrow 7-9 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, usque ad 170μ diam. Sporae ellipsoideae, obtusae, atrobrunneae, 4-septatae, constrictae, $50-59 \Rightarrow 25-30 \mu$.

Hab. in foliis *Myrsinis* spec., Rio Grande do Sul, Brazil, Theissen (typus in Herb. Farlow).

(476) **Asteridiella valdiviensis** (Speg.) Hansf., comb. n.

var. **integripoda** Hansf., var. n.

Plagulae plerumque hypophyllae, usque ad 1.5 mm diam., raro confluentes, tenues, leves. Hyphae brunneae, rectae, oppositae vel irregulariter lateque ramosae, laxae reticulatae, cellulis plerumque $25-30 \approx 8-10 \mu$. Hyphopodia capitata alternata, subantrorsa vel patentia, recta $25-35 \mu$ longa; cellula basali cylindracea vel cuneata, $5-14 \mu$ longa; cellula apicali cylindraceo-clavata, integra vel lenissime angulosa, $17-22 \approx 10-14 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, conoidea vel ampullacea, $17-23 \approx 8-9 \mu$. Setae myceliales nullae. Perithecia in centro plagularum aggregata, atra, globosa, verrucosa, usque ad 280μ diam., cellulis parietis rotundatis vel obtuse conoideis, usque ad 15μ alt. Sporae atrobrunneae, subellipsoideae, obtusae, 4-septatae, constrictae, $48-55 \approx 20-24 \mu$.

Hab. in foliis *Myrceugeniae chequentis*, Marilnan, Chile, Spegazini 13406.

(477) **Asteridiella valerianae** Hansf., sp. n.

Plagulae epiphyllae, tenues vel densae, usque ad 2 mm diam., leves. Hyphae brunneae, undulatae, sinuosae vel tortuosae, oppositae vel irregulariter ramosae, subdense reticulatae, cellulis plerumque $15-25 \approx 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $15-20 \mu$ longa; cellula basali cuneata vel cylindracea, $3-7 \mu$ longa; cellula apicali irregulariter subglobosa, angulosa vel sublobata, raro subintegra, $11-15 \approx 9-14 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $12-17 \approx 7-9 \mu$. Setae nullae. Perithecia dispersa, atra, globosa, verrucosa, 180μ diam., cellulis parietis obtuse conoideis, usque ad 15μ alt. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $34-39 \approx 13-15 \mu$.

Hab. in foliis *Valerianoidis cayennensis*, Guaynabo, Porto Rico, Whetzel et al. 2515 (typus in Herb. Plant Path., Univ. Cornell).

(478) **Asteridiella vilis** (Syd.) Hansf. var. **caracasensis** Hansf., var. n.

Plagulae amphigenae, usque ad 1 mm diam., saepe numerosae sed raro confluentes, densae, leves. Hyphae brunneae, subrectae vel undulatae, oppositae acuteque ramosae, dense radianto-reticulatae, cellulis plerumque $20-30 \approx 7-8 \mu$. Hyphopodia capitata alternata, antrorsa, recta vel curvula, $20-28 \mu$ longa; cellula basali cuneata vel cylindracea, $4-10 \mu$ longa; cellula apicali ovata, raro subintegra, plerumque rotundato-angulosa vel sublobata, $14-19 \approx 10-16 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, $15-18 \approx 6-8 \mu$. Setae nullae. Perithecia in centro

plagularum aggregata, atra, globosa, verrucosa, — 230 μ diam., cellulis parietis rotundatis vel obtuse conoideis, usque ad 12 μ alt. Sporae cylindraceae, obtusae, atrobrunneae, 4-septatae, constrictae, 37—42 $\Rightarrow$ 15—18 μ .

Hab. in foliis *Citharexylis subthyrsoidei*, Jaguera Caracas, Venezuela. T a m a y o 2395 (typus in Herb. Plant Path. Univ. Cornell).

(479) **Asteridiella vilis** (Syd.) Hansf. var. **citharexylis** Hansf., var. n.

Plagulae amphigenae, densae, leves, usque ad 1 mm diam., raro confluentes. Hyphae brunneae, subrectae vel undulatae, opposite vel irregulariter acuteque ramosae, dense reticulatae, cellulis plerumque 15—25 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, subantrorsa, recta vel curvata, 19—28 μ longa; cellula basali cuneata vel cylindracea, 5—10 μ longa; cellula apicali ovata vel clavata, integra, 14—20 $\Rightarrow$ 10—13 μ . Hyphopodia mucronata praecipue in hyphis distinctis evoluta, alternata vel opposita, ampullacea, 15—21 $\Rightarrow$ 6—8 μ . Perithecia dispersa, verrucosa, — 180 μ diam., cellulis parietis rotundatis, usque ad 10 μ alt. Sporae atrobrunneae, cylindraceae vel ellipsoideae, obtusae, 4-septatae, leniter constrictae, 39—45 $\Rightarrow$ 16—19 μ .

Hab. in foliis *Citharexylis fruticosi*, San Domingo, Ciferri, Mycofl. doming. exs. 241.

(480) **Meliola africana** Hansf., sp. n.

Plagulae amphigenae, 0.5—3.0 mm diam., atrae, densae, subvelutinae. Hyphae mycelii sinuosae, opposite vel irregulariter ramosae, dense reticulatae et subsolidae, cellulis plerumque 20—30 $\Rightarrow$ 8—9 μ . Hyphopodia capitata alternata, antrorsa, recta, 21—30 μ longa; cellula basali cuneata vel cylindracea, 5—11 μ longa; cellula apicali subglobosa vel late ovata, integra, 15—20 $\Rightarrow$ 11—16 μ . Hyphopodia mucronata illis capitatis commixta, pauca, alternata, raro opposita, ampullacea, 18—23 $\Rightarrow$ 8—10 μ . Setae myceliales laxae dispersae etiam juxta perithecia aggregatae, erectae, rectae, simplices, obtusae, usque ad 680 $\Rightarrow$ 9—11 μ . Perithecia dispersa, atra, globosa, verrucosa, usque ad 230 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, leniter constrictae, 42—48 $\Rightarrow$ 16—20 μ .

Hab. in foliis *Psychotriae* spec., Kampala, Uganda, Hansford 1854, typus; in foliis *Pouchetiae africanae*, Sierra Leone, Deighton 2483 (IMI 6913), Deighton 3641 (IMI 46523); in foliis *Chasaliae curviflorae*, Java, Boedijn 2661 (BO 14437), BO 5067.

This was formerly recorded by me as *M. longiseta* Hoehnel. The West African collections by Deighton on *Pouchetia* have slightly smaller spores, 38—44 $\Rightarrow$ 16—19 μ .

(481) **Meliola amphigena** Stev. & Tehon var. **tontaneae** Hansf., var. n.

Plagulae amphigenae, usque ad 4 mm diam., tenues, aegre perspicues. Hyphae mycelii brunneae, subrectae vel sinuosae, oppositae vel irregulariter lateque ramosae, laxae reticulatae, cellulis plerumque $20-30 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, $15-20 \mu$ longa; cellula basali cuneata vel cylindracea, $3-6 \mu$ longa; cellula apicali globosa, ovata vel lenissime rotundato-angulosa, $10-15 \Rightarrow 9-12 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $15-19 \Rightarrow 7-8 \mu$. Setae myceliales praecipue juxta perithecia aggregatae, erectae, rectae vel flexuosae, simplices, sursum attenuatae, apice subacutae, $260-340 \Rightarrow 7-8 \mu$. Perithecia laxae dispersa, atra, globosa, verrucosa, usque ad 140μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $27-33 \Rightarrow 12-13 \mu$.

Hab. in foliis *Tontaneae guianensis*, Trinidad, R. Baker (IMI 139, typus; 17876, 23463); in foliis *Warczewicziae coccineae*, Trinidad, Baker (IMI 19337).

(482) *Meliola argentina* Speg. var. *leeuwenii* Hansf., var. n.

Plagulae amphigenae, usque ad 4 mm diam., densae, velutinae. Hyphae brunneae, subrectae vel undulatae, alternatim vel irregulariter ramosae, dense radianto-reticulatae, cellulis plerumque $15-25 \Rightarrow 9-10 \mu$. Hyphopodia capitata alternata, antrorsa, recta vel curvata, $25-35 \mu$ longa; cellula basali cuneata vel cylindracea, $6-14 \mu$ longa; cellula apicali versiformi, subglobosa vel irregularia, saepe curvata, rotundato-angulosa vel sublobata, $16-27 \Rightarrow 13-19 \mu$. Hyphopodia mucronata in hyphis distinctis in centro plagularum evoluta, alternata, ampullacea, $18-25 \Rightarrow 7-10 \mu$. Setae myceliales dispersae, rectae, rigidae, simplices, acutae usque ad $750 \Rightarrow 11-14 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 220μ diam.; setae peritheciales $2-6$, circinatae, simplices, acutae, — $120 \Rightarrow 8-10 \mu$. Sporae allipsoideae, obtusae, 4-septatae, constrictae, atrobrunneae, $50-61 \Rightarrow 20-24 \Rightarrow 18-21 \mu$.

Hab. in foliis *Cyperacearum* spec. indet., Havik I., New Guinea, Docters van Leeuwen 9581 (BO 5607, typus).

(483) *Meliola atkinsonii* Hansf., sp. n.

Plagulae caulicolae, densae, velutinae, — 6 mm diam. vel confluentes. Hyphae brunneae, subrectae vel sinuosae, alternatim vel irregulariter acuteque ramosae, dense reticulatae et subsolidae, cellulis plerumque $20-30 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata vel usque ad 5% opposita, antrorsa vel patentia, curvata, $25-40 \mu$ longa; cellula basali cylindracea vel cuneata, $7-23 \mu$ longa; cellula apicali irregulariter fortiterque lobata, versiformi, $18-24 \Rightarrow 13-26 \mu$; hyphis compluribus exhyphopodiat. Hyphopodia mucronata in hyphis di-

stictis evoluta, alternata, ampullacea, $17-22 \rightleftharpoons 7-9 \mu$. Setae myceliales numerosissimae, rectae, simplices, acutae, — $530 \rightleftharpoons 10-11 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 350μ diam. Sporae atrobrunneae, fusoideae, curvulae, obtusae, 3-septatae, constrictae, $60-72 \rightleftharpoons 20-24 \mu$.

Hab. in caulibus *Vaccinii corymbosi*, Alabama, USA, Atkinson 2333 (typus in Herb. Plant Path., Univ. Cornell).

(484) **Meliola bactridis** Hansf., sp. n.

Plagulae epiphyllae, densae, subvelutinae, usque ad 3 mm longae. Hyphae brunneae, subtiliter sinuosae, opposite vel irregulariter lateque ramosae, dense reticulatae, cellulis plerumque $20-30 \rightleftharpoons 7-9 \mu$. Hyphopodia capitata alternata, recta vel curvata, $25-33 \mu$ longa, antrorsa vel patentia, margine subtiliter sinuosa, cellula basali cylindracea vel cuneata, $6-12 \mu$ longa; cellula apicali irregulariter ovata vel cylindracea, crenulato-sinuosa, $17-22 \rightleftharpoons 8-12 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposite vel alternata, ampullacea, $18-25 \rightleftharpoons 7-9 \mu$, collo elongato. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, simplices, obtusae, — $300 \rightleftharpoons 10-11 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 200μ diam. Sporae subellipsoideae, obtusae, 4-septatae, constrictae, atrobrunneae, $44-49 \rightleftharpoons 19-21 \mu$.

Hab. in foliis *Bactridis majoris*, Arima, Trinidad, Baker in IMI 105.

(485) *Meliola bignoniacearum* Stev. var. **weigeltii** Hansf., var. n.

Hyphae rectae vel subundulatae, opposite acuteque ramosae, laxae vel subdense reticulatae, cellulis $20-30 \rightleftharpoons 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $17-24 \mu$ longa; cellula basali cylindracea, $4-8 \mu$ longa; cellula apicali cylindracea, integra, recta curvula vel sinuosa, $13-18 \rightleftharpoons 6-8 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $20-25 \rightleftharpoons 6-8 \mu$. Setae myceliales laxae dispersae, etiam juxta perithecia aggregatae, rectae, usque ad $350 \rightleftharpoons 7-9 \mu$, apice 2-5-dentatae usque ad 10μ , subcristatae. Perithecia dispersa, atra, globosa, verrucosa, usque ad 180μ diam. Sporae cylindraceae vel ellipsoideae, atrobrunneae, obtusae, 4-septatae, constrictae, $40-48 \rightleftharpoons 18-23 \mu$.

Hab. in foliis *Spathodeae bracteosae* („*Bignoniae albae*“), Surinam, Weigelt exs. in Herb. Berlin sub „*Bryocladium weigeltii* Kunze“, ined.

This species is known to me only from a slide prepared by Dr. S. J. Hughes while on a visit to Berlin.

(486) *Meliola borneensis* Syd. var. **ugandae** Hansf. var. n.

Plagulae amphigenae, in epiphyllis densae, 1-2 mm diam., in hypophyllo tenuiores, usque ad 10 mm diam., velutinae. Hyphae

brunneae, subrectae vel undulatae, oppositae vel irregulariter acuteque ramosae, subdense reticulatae, cellulis plerumque $25-40 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata, recta vel curvula, subantrorsa vel patentia, $21-35 \mu$ longa; cellula basali cylindracea vel leniter cuneata, $7-14 \mu$ longa; cellula apicali oblonga vel clavulata, integra, $15-23 \Rightarrow 10-13 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $25-35 \Rightarrow 8-10 \mu$, collo elongato. Setae myceliales numerosae, rectae, simplices, acutae vel subacutae, $-800 \Rightarrow 8-11 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -220μ diam. Sporae atrobrunneae, cylindraceae vel ellipsoideae, obtusae, 4-septatae, constrictae, $46-54 \Rightarrow 19-23 \Rightarrow 12-15 \mu$.

Hab. in foliis *Popowiae maillandii*, Uganda, Hansford 2303.

(487) **Meliola bryae** Hansf., sp. n.

Plagulae amphigenae, -1 mm diam. vel confluentes, subdensae. Hyphae atrobrunneae, subrectae, oppositae acuteque ramosae, laxae vel dense radiato-reticulatae, cellulis plerumque $20-30 \Rightarrow 6-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $22-32 \mu$ longa; cellula basali cuneata, $7-12 \mu$ longa; cellula apicali ovata, integra, apice late vel subattenuato-rotundata, $16-20 \Rightarrow 9-12 \mu$. Hyphopodia mucronata in hyphis distinctis in centro plagularum evoluta, pauca, opposita vel alternata, ampullacea, $16-20 \Rightarrow 7-9 \mu$. Setae myceliales laxae dispersae, erectae, rectae, simplices, obtusae vel subacutae, $-400 \Rightarrow 8-10 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -170μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $38-42 \Rightarrow 18-20 \mu$.

Hab. in foliis *Bryae ebeni*, Long. Mtn., Jamaica, Martyn 111 (= IMI 19663-a, typus).

(488) **Meliola bumeliae** Hansf., sp. n.

Plagulae amphigenae, usque ad 5 mm diam., subdensae, numerosae et confluentes. Hyphae brunneae, subrectae vel undulatae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $15-25 \Rightarrow 5-6 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, recta vel curvula, $12-15 \mu$ longa; cellula basali cylindracea vel cuneata, $2-4 \mu$ longa; cellula apicali ovato-cylindracea, integra, $9-12 \Rightarrow 6-9 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $14-18 \Rightarrow 6-7 \mu$. Setae myceliales tenuiter dispersae, etiam juxta perithecia aggregatae, $-350 \Rightarrow 6-8 \mu$, simplices, obtusae. Perithecia dispersa, atra, globosa, verrucosa, -160μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $34-39 \Rightarrow 14-16 \mu$.

Hab. in foliis *Bumeliae parviflorae*, Manatee, Florida, USA, Tracy 7268 (typus in Herb. Plant Path., Univ. Cornell).

(489) *Meliola byrsonimae* Stev. var. **minor** Hansf., var. n.

Plagulae epiphyllae, subdensae, tenuiter velutinae, usque ad 3 mm diam. Hyphae brunneae, rectae, oppositae lateque ramosae, dense reticulatae, in centro subsolidae, cellulis plerumque $25-30 \mu$ $\Rightarrow$ $8-9 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, saepe curvula $12-26 \mu$ longa; cellula basali cylindracea vel cuneata, $5-8 \mu$ longa; cellula apicali ovata vel clavata, integra, $13-18 \mu \Rightarrow 10-17 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, opposita, ampullacea, $20-25 \mu \Rightarrow 9-11 \mu$. Setae myceliales dispersae, rectae, simplices, obtusae vel acutae, usque ad $1000 \mu \Rightarrow 8-11 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 170μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $39-47 \mu \Rightarrow 16-18 \mu$.

Hab. in foliis *Byrsonimae crassifoliae*, San Domingo, Ciferri, Mycofl. doming. exs. 46 (typus); Ciferri 2696, 2714; Petrak, Mycoth. generalis 1441; Panama, Standley 29027, Stevens 888, 159; in foliis *B. spicatae*, San Domingo, Ciferri, Mycofl. doming. exs. 46-bis, 46-ter. (*Meliola cibaoensis* commixta); in foliis *Byrsonimae sericeae*, Pernambuco, Brazil, Herb. Inst. Micol. Recife, 18, 273.

(490) *Meliola cantareirensis* Hansf., sp. n.

Plagulae epiphyllae, usque ad 5 mm diam., tenues. Hyphae brunneae, subrectae vel undulatae, alternatim vel irregulariter acuteque ramosae, laxe radianto-reticulatae, cellulis plerumque $30-45 \mu \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $19-23 \mu$ longa; cellula basali cylindracea vel cuneata, $5-8 \mu$ longa; cellula apicali subglobosa vel ovata, integra vel saepe rotundato-angulosa, $14-17 \mu \Rightarrow 10-13 \mu$. Hyphopodia mucronata in hyphis distinctis in centro plagularum evoluta, opposita vel alternata, ampullacea, $16-20 \mu \Rightarrow 7-8 \mu$, stipata. Setae myceliales paucae, juxta perithecia aggregatae, subrectae, simplices, obtusae, — $250 \mu \Rightarrow 6-7 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 150μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $34-39 \mu \Rightarrow 13-15 \mu$.

Hab. in foliis *Vitidis montevidensis*, Sierra Cantareira Sao Paulo, Brazil, Puttemans, Fungi paulenses 202 (typus in Herb. Plant Path., Univ. Cornell).

(491) *Meliola capensis* (K. & C. Theiss. var. **cupaniae** Hansf., var. n.

Plagulae epiphyllae, densae, usque ad 2 mm diam. Hyphae brunneae, rectae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $10-15 \mu \Rightarrow 6-7 \mu$. Hyphopodia capitata opposita, subantrorsa, dense stipata, $11-14 \mu$ longa; cellula basali cylindracea, $2-3 \mu$ longa; cellula apicali conoidea, apice attenuato-rotundata et saepe leniter reflexa, integra, $10-13 \mu \Rightarrow 7-8 \mu$. Hyphopodia mucronata illis

capitatis commixta, opposita vel alternata, ampullacea, $14-18 \Rightarrow 6-8 \mu$. Setae myceliales paucae, dispersae etiam juxta perithecia aggregatae, rectae, — $360 \Rightarrow 7-8 \mu$, apice simplices, acutae, vel 2—3-dentatae (— 7μ). Perithecia dispersa, atra, globosa, verrucosa, — 170μ diam. Sporae cylindratae vel ellipsoideae, obtusae, 4-septatae, constrictae, atrobrunneae, $35-40 \Rightarrow 15-18 \mu$.

Hab. in foliis *Cupaniae americanae*, Porto Rico, Stevens 7372, typus; in foliis *C. vernalis*, Brazil, Theissen, Decad. fung. brasil. 21.

(492) *Meliola capensis* (K. & C.) Theiss. var. **malayensis** Hansf., var. n.

Plagulae epiphyllae, subtenues, usque ad 4 mm diam. vel numerosae et confluentes. Hyphae rectae, atrobrunneae, opposite lateque ramosae, laxe reticulatae, cellulis $18-25 \Rightarrow 6-7 \mu$. Hyphopodia capitata opposita, recta vel leniter reflexa, $13-17 \mu$ longa; cellula basali cuneata, $2-4 \mu$ longa; cellula apicali ovata, integra, apice lenter recurvata plus minusve attenuata, $11-14 \Rightarrow 6-8 \mu$. Hyphopodia mucronata illis capitis commixta, opposita vel alternata, ampullacea, $16-25 \Rightarrow 6-7 \mu$. Setae myceliales laxae dispersae, erectae, rectae, simplices, acutae, vel 2—3-dentatae usque ad 5μ , — $650 \Rightarrow 10-14 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 170μ diam. Sporae atrobrunneae, cylindratae vel ellipsoideae, obtusae, 4-septatae, constrictae, $33-37 \Rightarrow 15-17 \mu$.

Hab. in foliis *Nephelii mutabilis*, Serdang, Malaya, Johnston 1056 (= IMI 54870, typus).

(493) *Meliola carissae* Doidge var. **indica** Hansf., var. n.

Plagulae epiphyllae, densae, usque ad 2 mm diam., parasiticae. Hyphae subrectae, opposite acuteque ramosae, dense radiato-reticulatae, cellulis plerumque $15-25 \Rightarrow 6-8 \mu$. Hyphopodia capitata alternata, curvata, $20-27 \mu$ longa; cellula basali cuneata, $4-7 \mu$ longa; cellula apicali versiformi, irregulariter lobata, apice saepe truncata, $15-20 \Rightarrow 10-16 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, pauca, alternata, raro opposita, ampullacea, $13-22 \Rightarrow 6-8 \mu$. Setae myceliales dispersae etiam juxta perithecia aggregatae, numerosae, rectae, simplices, acutae, usque ad $650 \Rightarrow 8-10 \mu$. Perithecia dispersa, atra, globosa, verrucosa, usque ad 180μ diam. Sporae cylindratae vel ellipsoideae, obtusae, atrobrunneae, 4-septatae, leniter constrictae, $35-40 \Rightarrow 15-17 \mu$.

Hab. in foliis *Carissae carandatis*, Bassein, India, typus in Farlow Herb. ex Herb. Plant Pathol., Poona, Bombay.

Each colony cause a pale brown leafspot, visible on the lower surface as well as beneath the colony above.

(494) **Meliola caseariae-arborea** Hansf., sp. n.

Plagulae hypophyllae, usque ad 5 mm diam., tenues. Hyphae brunneae, tortuosae, opposite vel irregulariter ramosae, laxae reticu-

lato-intertextae, cellulis plerumque $20-40 \rightleftharpoons 5-6 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, recta vel curvata, $15-25 \mu$ longa; cellula basali cylindracea, $3-6 \mu$ longa; cellula apicali ovata, clavata vel leniter rotundato-angulosa, saepe curvata, $11-18 \rightleftharpoons 6-9 \mu$. Hyphopodia mucronata illis capitatis commixta, ampullacea, opposita vel alternata, $15-20 \rightleftharpoons 6-7 \mu$. Setae myceliales tenuiter dispersae, etiam juxta perithecia aggregatae, rectae vel subflexuosae, simplices, obtusae, $-280 \rightleftharpoons 6-7 \mu$. Perithecia dispersa, atra, verrucosa, globosa, -140μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $32-37 \rightleftharpoons 15-17 \rightleftharpoons 12-13 \mu$.

Hab. in foliis *Caseariae arboreae*, Mts. above Yanco, Porto Rico, Whetzel-Cardon-Toro 3307 (typus in Herb. Plant Path., Univ. Cornell).

(495) **Meliola ceriopsidis** Hansf., sp. n.

Plagulae hypophyllae, tenues vel subdensae, usque ad 6 mm diam. Hyphae brunneae, tortuosae vel subrectae, oppositae lateque ramosae, laxae vel dense intertexto-reticulatae, cellulis plerumque $15-20 \rightleftharpoons 6-7 \mu$. Hyphopodia capitata alternata vel opposita, patentia vel subantrorsa, recta vel curvula, $12-18 \mu$ longa; cellula basali cylindracea vel cuneata, $2-7 \mu$ longa; cellula apicali subglobosa vel ovata, integra, $9-13 \rightleftharpoons 7-10 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $15-22 \rightleftharpoons 7-8 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, simplices, obtusae vel acutae, $-700 \rightleftharpoons 7-9 \mu$, sursum gradatim attenuatae. Perithecia dispersa, atra, globosa, verrucosa, -140μ diam. Sporae atrobrunneae, subellipsoideae, obtusae, 4-septatae, constrictae, $36-41 \rightleftharpoons 16-18 \mu$.

Hab. in foliis *Ceriopsidis tagalis*, Sandakan, Br. North Borneo, Elmer 20046 (typus in Farlow Herb.).

(496) **Meliola cordiae-rufescentis** Hansf. & Batista, sp. n.

Plagulae epiphyllae, tenues usque ad 4 mm diam. Hyphae brunneae, subrectae, oppositae ramosae, laxae reticulatae, cellulis plerumque $20-30 \rightleftharpoons 6-7 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, recta vel curvula, $14-24 \mu$ longa; cellula basali cylindracea vel cuneata, $3-8 \mu$ longa; cellula apicali ovata, piriformi vel cylindracea, integra, $11-18 \rightleftharpoons 7-11 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, $15-22 \rightleftharpoons 6-7 \mu$. Setae myceliales tenuiter dispersae, etiam breviores juxta perithecia aggregatae, rectae, simplices, acutae, usque ad $400 \rightleftharpoons 7-8 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -140μ diam. Sporae atrobrunneae, obtusae, cylindraceae, 4-septatae, constrictae, $28-34 \rightleftharpoons 13-15 \mu$.

Hab. in foliis *Cordiae rufescentis*, Pernambuco, Brazil, Herb. Inst. Micol. Univ. Recife 2174, typus, leg. S. J. da Silva.

(497) **Meliola cumbrensis** Hansf., sp. n.

Plagulae amphigenae, usque ad 4 mm diam vel confluentes, tenues vel subdensae, leniter velutinae. Hyphae brunneae, rectae, undulatae vel sinuosae, irregulariter, raro oppositae ramosae, dense reticulato-intertextae, cellulis plerumque $25-40 \Rightarrow 7-9 \mu$. Hyphopodia capitata alternata, rarissime opposita, recta vel curvata, patentia vel antrorsa, $22-30 \mu$ longa; cellula basali cylindracea, $4-8 \mu$ longa; cellula apicali ovata vel cylindraceo-clavata, integra, $15-22 \Rightarrow 12-14 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $18-24 \Rightarrow 7-9 \mu$. Setae myceliales bifformes: (a) dispersae, rectae, simplices, obtusae, $-880 \Rightarrow 9-11 \mu$, (b) juxta perithecia aggregatae, rectae vel flexuosae, simplices, obtusae, $-180 \Rightarrow 7-8 \mu$, apice rectae, curvatae, uncinatae vel tortuosae, interdum deficientes. Perithecia dispersa, verrucosa, -160μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $40-48 \Rightarrow 15-17 \mu$.

Hab. in foliis *Phoebes* sp., La Cumbre, San Domingo, Ciferri, Mycofl. doming. exs 351 (typus in Herb. Plant. Path., Univ. Cornell).

(498) *Meliola dactylopoda* Syd., var. **jamaicensis** Hansf., var. n.

Plagulae amphigenae, usque ad 5 mm diam., subtenues. Hyphae rectae, brunneae, oppositae acutaeque ramosae, laxae reticulatae, cellulis plerumque $25-50 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $24-31 \mu$ longa; cellula basali cylindracea $5-10 \mu$ longa; cellula apicali cylindracea, apice rotundata, integra, $17-24 \Rightarrow 8-10 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, ampullacea, $20-27 \Rightarrow 8-10 \mu$. Setae myceliales juxta perithecia aggregatae, rectae, simplices, obtusae, $-450 \Rightarrow 8-9 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -180μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $44-49 \Rightarrow 18 \mu$.

Hab. in foliis *Nectandrae coriaceae*, Long. Mtn. Jamaica, Martyn 423 (= IMI 34793, typus).

(499) **Meliola desmonci** Hansf., sp. n.

Plagulae hypophyllae, usque ad 1.5 mm diam. vel confluentes, densae, subsolidae. Hyphae atrobrunneae, sinuosae, oppositae vel irregulariter lateque ramosae, dense reticulatae, cellulis plerumque $20-30 \Rightarrow 8-11$. Hyphopodia capitata alternata, recta vel curvata, antrorsa, $25-35 \mu$ longa; cellula basali cuneata, $8-13 \mu$ longa; cellula apicali subglobosa vel irregulari, angulosa vel sublobata, versiformi, $20-26 \Rightarrow 13-22 \mu$. Hyphopodia mucronata pauca, in hyphis distinctis evoluta, alternata, ampullacea, $20-26 \Rightarrow 8-10 \mu$. Setae myceliales paucae, dispersae, rectae, simplices, obtusae, $-300 \Rightarrow 10 \mu$. Perithecia atra,

globosa, verrucosa, — 220 μ diam. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, 54—59 $\Rightarrow$ 22—25 μ .

Hab. in foliis *Desmonci majoris*, Piarco, Trinidad, Baker in IMI 103.

(500) *Meliola dissotidis* Hansf. & Deight., var. **minor** Hansf., var. n.

Plagulae epiphyllae, tenues vel subdensae, — 2 mm diam. Hyphae brunneae, subrectae vel undulatae, oppositae lateque ramosae, laxae vel dense reticulatae, cellulis plerumque 20—30 $\Rightarrow$ 5—6 μ . Hyphopodia capitata alternata, patentia vel subantrorsa, recta vel curvula, 20—30 μ longa; cellula basali cuneata vel cylindracea, 5—11 μ longa; cellula apicali ovata vel raro subglobosa, integra, 14—19 $\Rightarrow$ 9—12 μ . Hyphopodia mucronata in hyphis distinctis in centro plagarum evoluta, opposita vel alternata, ampullacea, 15—20 $\Rightarrow$ 7—8 μ . Setae myceliales juxta perithecia aggregatae, rectae, simplices, obtusae, — 250 $\Rightarrow$ 7—8 μ . Perithecia laxae dispersa, atra, globosa, verrucosa, — 160 μ diam. Sporae cylindraceae, obtusae, 4-septatae, constrictae, atrobrunneae, 33—39 $\Rightarrow$ 13—14 μ .

Hab. in foliis *Dissochaetae gracilis*, Pantjar, Java, Boedijn 1740 (BO 13510, typus).

(501) *Meliola durionis* Hansf., sp. n.

Plagulae epiphyllae, subdensae, usque ad 3 mm diam. vel numerosae confluentesque. Hyphae rectae, oppositae et subrectangulariter ramosae, reticulatae, cellulis plerumque 20—30 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, subantrorsa, recta, 22—33 μ longa; cellula basali cylindracea, 3—7 μ longa; cellula apicali cylindracea, integra, 15—25 $\Rightarrow$ 9—12 μ . Hyphopodia mucronata illis capitatis commixta, alternata, ampullacea, 20—25 $\Rightarrow$ 7—9 μ . Setae myceliales juxta perithecia aggregatae, rectae, simplices, obtusae, — 700 $\Rightarrow$ 1—12 μ . Perithecia dispersa, atra, globosa, verrucosa, immatura. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, 43—47 $\Rightarrow$ 22—24 μ .

Hab. in foliis *Durionis zibethini*, Serdang, Malaya, Johnston 739 (= IMI 50533, typus), 1240 (IMI 56058).

(502) *Meliola erythrinae* Syd., var. **psophocarpi** Hansf., var. n.

Plagulae epiphyllae, usque ad 3 mm diam., numerosae et late confluentes, subvelutinae, subdensae. Hyphae leniter undulatae, oppositae acuteque ramosae, brunneae, dense intertexto-reticulatae, cellulis plerumque 30—40 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, antrorsa vel patentia, 17—24 μ longa; cellula basali cylindracea, 4—8 μ longa; cellula apicali subglobosa, piriformi vel ovata, integra vel

rotundato-angulosa, $12-18 \rightleftharpoons 12-15 \mu$. Hyphopodia mucronata in centro plagularum in hyphis distinctis praecipue evoluta, opposita vel alternata, ampullacea, $20-28 \rightleftharpoons 7-10 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, simplices, obtusae vel subacutae, $-600 \rightleftharpoons 9-10 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -180μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $42-48 \rightleftharpoons 16-18 \mu$.

Hab. in foliis *Psophocarpi tetragonolobi*, Serdang, Malaya, Johnston 430 (= IMI 38879, typus), 299 (IMI 35604).

(503) **Meliola echitis** Hansf., sp. n.

Plagulae epiphyllae, usque ad 4 mm diam., subtenues. Hyphae brunneae, undulatae vel flexuosae, oppositae ramosae, laxae reticulatae, cellulis plerumque $20-40 \rightleftharpoons 6 \mu$. Hyphopodia capitata alternata, subantrorsa, recta, $16-20 \mu$ longa; cellula basali cuneata vel cylindracea, $3-5 \mu$ longa; cellula apicali ovata, integra, $12-15 \rightleftharpoons 7-10 \mu$, saepe apice attenuata. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $12-16 \rightleftharpoons 6-8 \mu$. Setae myceliales tenuiter dispersae, etiam juxta perithecia aggregatae, subrectae, simplices, acutae, $-280 \rightleftharpoons 6-8 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -140μ diam. (immatura). Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $37-41 \rightleftharpoons 14-15 \mu$.

Hab. in foliis *Echitis angustifoliae*, San Domingo, Ciferri 2856 (typus in Herb. Stockholm).

(504) **Meliola eugeniae-calophylloidis** Hansf. & Deight., sp. n.

Plagulae epiphyllae, atrae, tenues, usque ad 3 mm diam., leves. Hyphae brunneae, subrectae, oppositae lateque ramosae, laxae reticulatae, cellulis plerumque $15-25 \rightleftharpoons 7 \mu$. Hyphopodia capitata alternata, patentia, $18-23 \mu$ longa; cellula basali cylindracea, $2-6 \mu$ longa; cellula apicali cylindracea, recta vel curvula, integra, $15-20 \rightleftharpoons 7-9 \mu$. Hyphopodia mucronata illis capitatis commixta, pauca, opposita vel alternata, conoidea vel ampullacea, $18-25 \rightleftharpoons 7-9 \mu$. Setae myceliales laxae dispersae, etiam juxta perithecia aggregatae, haud numerosae, subrectae vel leniter curvatae, simplices, obtusae, $150-200 \rightleftharpoons 7-8 \mu$. Perithecia dispersa, atra, globosa, -170μ diam., cellulis parietis rotundatis, leniter prominulis. Sporae atrobrunneae, cylindraceae vel subellipsoideae, 4-septatae, constrictae, $44-49 \rightleftharpoons 17-21 \rightleftharpoons 13-15 \mu$.

Hab. in foliis *Eugeniae calophylloides*, Mabang, Sierra Leone, Deighton M 1020.

(505) **Meliola feretiae** Hansf., sp. n.

Plagulae epiphyllae, usque ad 0.5 mm diam., subdensae, tenuiter velutinae, subinde confluentes. Hyphae mycelii subrectae vel fle-

xuosae, alternatim vel irregulariter lateque ramosae, dense reticulatae, vellulis plerumque $20-30 \rightleftharpoons 9-11 \mu$. Hyphopodia capitata alternata, subantrorsa, recta, $20-28 \mu$ longa; cellula basali cylindracea vel cuneata, $5-10 \mu$ longa; cellula apicali ovata vel clavata, integra, $14-19 \rightleftharpoons 10-14 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita, ampullacea vel conoidea, $13-17 \rightleftharpoons 8-9 \mu$. Setae myceliales laxae dispersae, erectae, rectae, simplices, subacutae, usque ad $320 \rightleftharpoons 8-10 \mu$. Perithecia in centro plagarum laxae aggregata, subinde singula, globosa, verrucosa, atra, usque ad 200μ diam. Sporae atrobrunneae, cylindraceae, vel subellipsoideae, obtusae, 4-septatae, leniter constrictae, $42-47 \rightleftharpoons 16-20 \mu$.

Hab. in foliis *Feretiae*, spec., Mt. Biega, Congo Belge, Hendrickx 2527.

(506) *Meliola ficium* Yates var. **ugandensis** Hansf., var. n.

Plagulae amphigenae, 1—3 mm diam., subdensae; hyphae rectae, atrobrunneae, opposite acuteque ramosae, cellulis $15-40 \rightleftharpoons 7-8 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, recta vel curvata, $22-30 \mu$ longa; cellula basali cylindracea vel cuneata, $5-10 \mu$ longa; cellula apicali ovata vel clavata, integra, $14-19 \rightleftharpoons 11-15 \mu$. Hyphopodia mucronata non visa. Setae myceliales paucae, rectae, acutae, simplices, $300-600 \rightleftharpoons 12-15 \mu$. Perithecia in centro plagarum aggregata, atra, globosa, verrucosa, — 180μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $41-49 \rightleftharpoons 12-17 \mu$.

Hab. in foliis *Fici* sp., Uganda, Hansford 1409.

(507) **Meliola floridensis** Hansf., sp. n.

Plagulae amphigenae, densae, usque ad 8 mm diam. vel confluentes, subvelutinae. Hyphae brunneae, in epiphyllis subrectae, in hypophyllo undulatae vel sinuosae, opposite lateque ramosae, dense reticulatae, cellulis plerumque $15-25 \rightleftharpoons 7-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $19-25 \mu$ longa; cellula basali cylindracea vel cuneata, $6-10 \mu$ longa; cellula apicali ovata vel cylindracea, integra, $12-18 \rightleftharpoons 8-11 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita, vel alternata, ampullacea, $17-21 \rightleftharpoons 8-9 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, simplices, subacutae vel obtusae, — $480 \rightleftharpoons 8-9 \mu$. Perithecia dispersa, verrucosa, atra, globosa, — 220μ diam. Sporae cylindraceae vel subellipsoideae, atrobrunneae, obtusae, 4-septatae, constrictae, $47-52 \rightleftharpoons 20-23 \mu$.

Hab. in foliis *Perseae palustris*, Dunedin, Florida, Tracy 6560 (typus in Herb. Plant Path., Univ. Cornell).

(508) **Meliola fruticicola** Hansf., sp. n.

Plagulae densae, velutinae, usque ad 1 mm diam. vel numerosae et confluentes. Hyphae rectae vel flexuosae, atrobrunneae, oppositae vel irregulariter acuteque ramosae, dense reticulatae, cellulis plerumque $13-30 \rightleftharpoons 5-8 \mu$. Hyphopodia capitata opposita vel alternata, subantrorsa, $12-21 \mu$ longa; cellula basali cylindracea vel cuneata, $2-7 \mu$ longa; cellula apicali globosa vel breviter piriformi, integra, $10-14 \rightleftharpoons 9-12 \mu$. Hyphopodia mucronata non visa. Setae myceliales numerosae, erectae, rectae, simplices, acutae, usque ad $300 \rightleftharpoons 9-10 \mu$. Perithecia numerosa, subaggregata, globosa, atra, leniter verrucosa, usque ad 230μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, leniter constrictae, $37-44 \rightleftharpoons 12-15 \mu$.

Hab. in fructibus et pedunculibus *Maesae* spec., Mt. Kinabulu, North Borneo, C l e m e n s 29594-a.

(509) **Meliola furcillata** Doidge var. **singalensis** Hansf., var. n.

Plagulae epiphyllae, usque ad 2 mm diam. vel confluentes, densae, subvelutinae. Hyphae brunneae, subrectae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $12-18 \rightleftharpoons 7-8 \mu$. Hyphopodia capitata alternata vel usque ad 10% opposita, recta, subantrorsa, $15-23 \mu$ longa; cellula basali cylindracea, $3-6 \mu$ longa; cellula apicali cylindracea vel clavulata, integra, $11-18 \rightleftharpoons 9-11 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, conoidea vel breviter ampullacea, $15-20 \rightleftharpoons 7-9 \mu$. Setae myceliales dispersae, rectae, — $290 \rightleftharpoons 8-9 \mu$, apice 2—6-cristato-dentatae (— 6μ). Perithecia dispersa, atra, globosa, verrucosa, — 150μ diam. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, leniter constrictae, $37-47 \rightleftharpoons 16-21 \mu$.

Hab. in foliis *Allophyli* spec., Ceylon, Herb. Peradeniya 5187.

When mixed with the mucronate, the capitate hyphopodia are mostly opposite and closely crowded. The perithecia arise from a solid disc, and when mature are often surrounded by a subiculum of radiating exhyphopodiate hyphae.

(510) **Meliola galopinae** Hansf., sp. n.

Plagulae amphigenae, usque ad 1 mm diam., tenuiter setosae. Hyphae brunneae, undulatae vel sinuosae, oppositae vel alternatim ramosae, laxae reticulato-radiantes et intertextae, cellulis plerumque $25-35 \rightleftharpoons 6-7 \mu$. Hyphopodia capitata alternata, patentia vel antrorsa, recta, $17-26 \mu$ longa; cellula basali cylindracea vel cuneata, $4-10 \mu$ longa; cellula apicali ovata vel cylindracea, integra, apice rotundata, $11-17 \rightleftharpoons 7-9 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, opposita vel alternata, ampullacea, $13-22 \rightleftharpoons 7-9 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, haud nume-

rosae, rectae vel subflexuosae, simplices, obtusae, — $400 \approx 7-8 \mu$, apice $3-4 \mu$ cr. Perithecia singula, vel aggregata, atra, globosa, verrucosa, — 180μ diam. Sporae cylindraceae, vel subellipsoideae, obtusae, 4-septatae, subconstrictae, atrobrunneae, $26-32 \approx 10-14 \mu$.

Hab. in foliis *Galopinae circaeoidis*, South Africa, Herb. Pretoria 1760, 12323, 17752, 29926, 32214.

(512) **Meliola grewiae** Hansf., sp. n.

Plagulae hypophyllae, tenues, effusae, usque ad 10 mm diam. vel late confluentes. Hyphae brunneae, subrectae, opposite acuteque ramosae, laxe radianto-reticulatae, cellulis plerumque $30-40 \approx 4-6 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, subrecta, $16-22 \mu$ longa; cellula basali cylindracea, $3-8 \mu$ longa; cellula apicali ovata vel cylindracea, integra vel subinde subangulosa, $12-16 \approx 8-9 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel raro opposita, ampullacea, $18-27 \approx 6-8 \mu$, collo elongato. Setae myceliales praecipue juxta perithecia aggregatae, paucae, subrectae, simplices, obtusae, — $290 \approx 7 \mu$. Perithecia laxe dispersa, atra, globosa, verrucosa, — 150μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $29-36 \approx 11-13 \mu$.

Hab. in foliis *Grewiae stylocarpae*, Philippines, PBS 2937 (typus in Herb. Stockholm).

(513) *Meliola guareae* Speg. var. **major** Hansf., var. n.

Plagulae epiphyllae, densae, usque ad 1 mm diam., subvelutinae. Hyphae brunneae, subrectae, opposite lateque ramosae, dense reticulatae, cellulis $25-30 \approx 10-11 \mu$. Hyphopodia capitata alternata, curvata, antrorsa vel patentia, $25-40 \mu$ longa; cellula basali cylindracea, $7-14 \mu$ longa; cellula apicali clavato-cylindracea, curvula, uncinata vel sinuosa, integra vel leniter rotundato-angulosa, $18-28 \approx 12-17 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $18-24 \approx 9-10 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, simplices, acutae, — $750 \approx 11-12 \mu$. Perithecia in centro plagularum laxe aggregata, globosa, atra, verrucosa, — 180μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $56-64 \approx 20-24 \mu$.

Hab. in foliis *Guareae spec.*, Misiones, Argentina, Rodriguez in Speg. Herb. 1223 p. p.

This is mixed with the quite distinct *M. bersamicola* Hansf.

(514) **Meliola guareina** Hansf., sp. n.

Plagulae hypophyllae, usque ad 10 mm diam., densae, velutinae. Hyphae brunneae, sinuosae vel tortuosae, opposite acuteque ramosae, dense reticulato-intertextae, cellulis plerumque $20-30 \approx 7-8 \mu$. Hy-

phopodia capitata alternata, recta vel varie curvata, patentia, antrorsa vel retrorsa, 17—25 μ longa; cellula basali cylindracea vel cuneata, recta vel curvata, 4—8 μ longa; cellula apicali globosa vel cylindracea, integra, 13—20 $\Rightarrow$ 11—14 μ . Hyphopodia mucronata pauca, illis capitatis commixta, plerumque alternata, ampullacea. Setae myceliales numerosae, rectae, simplices, acutae, — 450 $\Rightarrow$ 8—11 μ . Perithecia dispersa, atra, globosa, verrucosa, — 210 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 45—52 $\Rightarrow$ 18—20 μ .

Hab. in foliis *Guareae* spec., Brazil, Rick, Fung. austro-amer. 99 (typus in Herb. Stockholm), Rick 1907, 1909 (Stockholm, Farlow Herb.).

The type was originally determined by Rehm as *M. araliae*, and so reported by Rick and by Theissen.

(515) *Meliola holarrheniae* Hansf. & Thirum. var. **major** Hansf., var. n.

Plagulae amphigenae, usque ad 4 mm diam., tenues, subinde subvelutinae. Hyphae tortuosae, atrobrunneae, opposite vel irregulariter lateque ramosae, laxae reticulatae, cellulis plerumque 20—30 $\Rightarrow$ 6 μ . Hyphopodia capitata alternata, patentia, recta, 10—16 μ longa; cellula basali cylindracea, 2—5 μ longa; cellula apicali globosa, integra, 8—11 μ diam. Hyphopodia mucronata illis capitatis commixta, opposita, ampullacea, 15—20 $\Rightarrow$ 6—9 μ . Setae myceliales dispersae, erectae, rectae vel flexuosae, simplices, obtusae, — 200—330 $\Rightarrow$ 6—8 μ . Perithecia dispersa, atra, globosa, leniter verrucosa, — 140 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, leniter constrictae, 33—40 $\Rightarrow$ 12—15 μ .

Hab. in foliis *Holarrheniae antidysentericae*, Dacca, Bengal, A. L. Som (typus in Herb. Crypt. Ind. Or.).

(516) *Meliola homalanthi* Boedijn var. **oldfieldiae** Deighton, var. n.

Plagulae amphigenae, plerumque hypophyllae, tenues vel densae, usque ad 4 mm diam. Hyphae brunneae, rectae, opposite lateque ramosae, dense intertexto-reticulatae, cellulis plerumque 15—25 $\Rightarrow$ 7—8 μ . Hyphopodia capitata opposita vel alternata, recta vel curvata, 15—20 μ longa; cellula basali cylindracea, 3—6 μ longa; cellula apicali ovata vel cylindracea, integra, saepe curvata, 12—15 $\Rightarrow$ 8—11 μ . Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, 16—22 $\Rightarrow$ 7—9 μ . Setae myceliales juxta perithecia aggregatae, rectae, simplices, acutae, — 250 $\Rightarrow$ 9 μ . Perithecia dispersa, atra, globosa, verrucosa, — 180 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 40—46 $\Rightarrow$ 15—16 μ .

Hab. in foliis *Oldfieldiae africanae*, Gola Forest, Tunkia, Sierra Leone, Deighton M 5349 (= IMI 53141, typus).

(517) **Meliola hughesiana** Hansf., sp. n.

Plagulae amphigenae, subtenues, usque ad 3 mm diam. vel confluentes. Hyphae subrectae vel leniter sinuosae, oppositae acuteque ramosae, laxae radiato-reticulatae et intertextae, cellulis plerumque $20-30 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $21-30 \mu$ longa; cellula basali cylindracea vel cuneata, $5-10 \mu$ longa; cellula apicali ovata, apice rotundata vel subattenuata, integra, $13-20 \Rightarrow 9-11 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, plerumque alternata, ampullacea, $14-20 \Rightarrow 6-9 \mu$. Setae myceliales dispersae, rectae, simplices, obtusae, $-430 \Rightarrow 8-9 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -180μ diam. Sporae subellipsoideae, obtusae, 4-septatae, constrictae, atrobrunneae, $37-44 \Rightarrow 14-17 \mu$.

Hab. in foliis *Telosmae africanae*, Gold. Coast, Hughes in IMI 49164 a.

(518) **Meliola hydnocarpi** Hansf., sp. n.

Plagulae amphigenae, tenues, usque ad 4 mm diam. Hyphae brunneae, in epiphylla subrectae, oppositae acuteque vel late ramosae, laxae reticulatae, cellulis plerumque $20-30 \Rightarrow 6-7 \mu$; in hypophyllo sinuosae vel tortuosae. Hyphopodia capitata alternata vel usque ad 2% opposita, recta vel curvula, antrorsa vel patentia, $13-17 \mu$ longa; cellula basali cylindracea, $2-5 \mu$ longa; cellula apicali subglobosa vel ovata, saepe curvula, integra, $10-13 \Rightarrow 8-10 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $20-28 \Rightarrow 6-8 \mu$, collo elongato. Setae myceliales plerumque juxta perithecia aggregatae, rectae vel leniter flexuosae, simplices, obtusae, $-480 \Rightarrow 8-9 \mu$. Perithecia laxae dispersa, atra, globosa, verrucosa, -140μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $36-41 \Rightarrow 15-16 \mu$.

Hab. in foliis *Hydnocarpi hutchinsonii*, Tawao, British North Borneo, Elmer 20717, typus in Herb. Bogor.

(519) **Meliola johnstonii** Hansf., sp. n.

Plagulae amphigenae, plerumque epiphyllae, tenues, usque ad 4 mm diam. vel confluentes. Hyphae subrectae vel sinuosae, oppositae vel irregulariter lateque ramosae, laxae reticulatae, cellulis $25-35 \Rightarrow 5-7 \mu$. Hyphopodia capitata alternata vel usque ad 10% opposita, patentia, recta vel curvata, $11-15 \mu$ longa; cellula basali cylindracea, $2-5 \mu$ longa; cellula apicali globosa, integra, $8-12 \mu$ diam. Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, $20-25 \Rightarrow 7-9 \mu$. Setae myceliales praecipue juxta perithecia aggregatae, rectae, simplices, acutae, $-350 \Rightarrow 7-9 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -170μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $34-39 \Rightarrow 12-15 \mu$.

Hab. in foliis *Albizziae odoratissimae*, Serdang, Malaya, Johnston 614 (= IMI 49576, typus).

(520) ***Meliola kawandensis*** Hansf., sp. n.

Plagulae caulicolae, densae, semicrustosae, usque ad 3 mm diam., parasiticae. Hyphae subrectae, atrobrunneae, oppositae lateque ramosae, densissime reticulatae, subsolidae, cellulis plerumque $10-20 \Rightarrow 7-8 \mu$. Hyphopodia capitata opposita vel alternata, dense stipata, patentia, recta, $10-16 \mu$ longa; cellula basali cylindracea, $2-5 \mu$ longa; cellula apicali globosa, integra, $9-12 \mu$ diam. Hyphopodia mucronata in hyphis distinctis evoluta, opposita, ampullacea. Setae myceliales numerosae, rectae, simplices, acutae, $-200 \Rightarrow 8-10 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -190μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, leniter constrictae, $36-41 \Rightarrow 11-13 \mu$.

Hab. in caulibus *Desmodii salicifolii*, Kawanda, Uganda, Hansford 2547, typus; Uganda, Hansford 2706; Kivu, Congo Belge, Hendrickx 1786.

This was previously recorded as *M. desmodii* Karst. & Roum.

(521) ***Meliola lisianthicola*** Hansf., sp. n.

Plagulae plerumque epiphyllae, usque ad 2 mm diam., densae, subcrustosae, interdum velutinae. Hyphae brunneae, oppositae acuteque ramosae, dense reticulatae, in centro subsolidae, cellulis plerumque $10-18 \Rightarrow 6-8 \mu$. Hyphopodia capitata opposita, antrorsa, recta vel curvula, $12-19 \mu$ longa; cellula basali cylindracea vel cuneata, $3-6 \mu$ longa; cellula apicali globosa vel ellipsoidea, integra, $10-13 \Rightarrow 7-10 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, opposita vel alternata, ampullacea, $14-18 \Rightarrow 7-8 \mu$. Setae myceliales dispersae, rectae, simplices, acutae vel subacutae, $-360 \Rightarrow 8-9 \mu$. Perithecia in centro plagularum laxae aggregata, atra, globosa, verrucosa, -220μ diam. Sporae ellipsoideae, obtusae, 4-septatae, constrictae, atrobrunneae, $39-47 \Rightarrow 20-24 \mu$.

Hab. in foliis *Lisianthi laxiflori*, Porto Rico, Whetzel 3325, typus in Herb. Plant Path., Univ. Cornell.

(522) ***Meliola litseicola*** Hansf., sp. n.

Plagulae epiphyllae, usque ad 5 mm diam. vel confluentes, densae. Hyphae brunneae, rectae vel leniter undulatae, oppositae lateque ramosae, dense reticulato-intertextae, cellulis $20-40 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata, recta vel curvata, $26-38 \mu$ longa; cellula basali cylindracea, $7-15 \mu$ longa; cellula apicali angulosa vel lobata, saepe curvata, $17-22 \Rightarrow 11-20 \mu$. Hyphopodia mucronata rara, illis capitatis commixta, ampullacea. Setae myceliales numerosae, dispersae, rectae, simplices, acutae, $-420 \Rightarrow 7-9 \mu$, rarissime apice curvatae vel subhamatae. Perithecia dispersa, atra, globosa, verrucosa, -140μ

diam. Sporae atrobrunneae, ellipsoideae, obtusae, 3-septatae, constrictae, $50-55 \Rightarrow 18-20 \mu$.

Hab. in foliis *Litsea* spec., Philippines., Baker, Fungi malay. 42 p. p., (typus in Herb. Pretoria); Phil. Bur. Sci. 23977 p. p.

(523) **Meliola manaosellae** Hansf., sp. n.

Plagulae epiphyllae, usque ad 2 mm diam. vel numerosae confluentesque, densae. Hyphae brunneae, undulatae vel flexuosae, opposite vel irregulariter, lateque ramosae, cellulis plerumque $15-20 \Rightarrow 6-8 \mu$, dense reticulatae. Hyphopodia capitata alternata vel usque ad 10% opposita, antrorsa vel patentia, recta vel curvula, $12-18 \mu$ longa; cellula basali cylindracea, $2-6 \mu$ longa; cellula apicali globosa, integra, $10-14 \Rightarrow 8-11 \mu$. Hyphopodia mucronata illis capitatis commixta, pauca, ampullacea, $14-19 \Rightarrow 7-9 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae vel curvulae, haud uncinatae, simplices, obtusae — $290 \Rightarrow 6-8 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 150μ diam. Sporae cylindraceae, obtusae, atrobrunneae, 4-septatae, constrictae, $33-38 \Rightarrow 13-15 \mu$.

Hab. in foliis *Manaosellae platydictylae*, Monte Allegre, Para, Brazil, Froes 30491 (typus in Herb. Kew).

(524) **Meliola memecyli** Syd., var. **microspora** Hansf., var. n.

Plagulae amphigenae, plerumque epiphyllae, usque ad 2 mm diam., densae. Hyphae brunneae, subrectae vel undulatae, opposite lateque ramosae, dense reticulatae, cellulis plerumque $12-20 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata vel opposita, antrorsa vel patentia, recta vel curvula, $13-18 \mu$ longa; cellula basali cylindracea, $2-5 \mu$ longa; cellula apicali ovata vel cylindracea, integra, $10-14 \Rightarrow 7-8 \mu$. Hyphopodia mucronata illis capitatis commixta, ampullacea, $18-22 \Rightarrow 7-9 \mu$. Setae myceliales plerumque juxta perithecia aggregatae, rectae, simplices acutae, vel 2-dentatae, — 7μ , usque ad $700 \Rightarrow 9-11 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 120μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, 4-septatae, constrictae, obtusae, $35-40 \Rightarrow 14-15 \mu$.

Hab. in foliis *Memecyli* sp., socio *Meliola affinis* Syd., San Jose, Balete Road, Nueve Eciya, Luzon, Philippines, Stevens 1777 (typus in Herb. Plant Path., Univ. Cornell).

(525) **Meliola memecylicola** Hansf., sp. n.

Plagulae epiphyllae, usque ad 1 mm diam., subdensae. Hyphae subrectae, brunneae, opposite lateque ramosae, dense reticulatae, cellulis circa 20μ longis, $6-7 \mu$ cr. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $15-20 \mu$ longa; cellula basali cylindracea $4-7 \mu$ longa; cellula apicali ovata, integra, $12-16 \Rightarrow 7-9 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, alternata vel oppo-

sita, ampullacea, $16-20 \Rightarrow 7-9 \mu$. Setae myceliales paucae, praecipue juxta perithecia aggregatae rectae atrae, simplices, acutae, — $300 \Rightarrow 8-9 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 170μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, constrictae, $34-41 \Rightarrow 15-17 \mu$.

Hab. in foliis *Memecyli lanceolati*, Philippines, PBS 24006 p. p.

(526) *Meliola millettiae-rhodanthae* Hansf. & Deight., var. **longiseta** Hansf. & Deight., var. n.

Plagulae amphigenae, plerumque hypophyllae, usque ad 5 mm diam., tenues, subvelutinae. Hyphae in epiphyllis subrectae, oppositae lateque ramosae, laxae reticulatae, cellulis $18-25 \Rightarrow 6-7 \mu$; in hypophyllo tortuosae. Hyphopodia capitata alternata vel opposita, recta, patentia vel subantrorsa, $12-17 \mu$ longa; cellula basali cylindrata, $2-5 \mu$ longa; cellula apicali ovata vel oblonga, integra, $9-13 \Rightarrow 7-9 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $17-20 \Rightarrow 7-10 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, erectae, rectae, simplices, acutae, in epiphyllis — 350μ longae, in hypophyllo — $550 \Rightarrow 7-9 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 210μ diam. Sporae atrobrunneae, cylindratae vel subellipsoideae, obtusae, 4-septatae, constrictae, $39-44 \Rightarrow 15-18 \mu$.

Hab. in foliis *Millettiae rhodanthae*, Njala, Kori, Sierra Leone, Deighton 3725 (= IMI 46581, typus).

(527) **Meliola misantecae** Hansf., sp. n.

Plagulae amphigenae, in maculas brunneas sitae, circa 2 mm diam., densae, subleves. Hyphae in epiphyllis rectae, in hypophyllo undulatae vel sinuosae, brunneae, oppositae vel irregulariter ramosae, dense reticulatae, subsolidae, cellulis plerumque $20-25 \Rightarrow 7-9 \mu$. Hyphopodia capitata alternata vel 2% opposita, antrorsa vel patentia, recta vel curvata, $20-32 \mu$ longa; cellula basali cylindrata, $4-11 \mu$ longa; cellula apicali cylindrato-clavata, integra, recta vel curvata, $15-21 \Rightarrow 11-13 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, alternata, ampullacea, $20-27 \Rightarrow 7-8 \mu$. Setae myceliales tenuiter dispersae, rectae, simplices, acutae, — $300 \Rightarrow 9-11 \mu$. Perithecia 1-2 in centro plagularum, atra, globosa, verrucosa, — 190μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, constrictae, $52-58 \Rightarrow 20-21 \mu$.

Hab. in foliis *Misantecae triandrae*, San Domingo, Ciferri, Mycofl. doming. exs. 368 (typus in Herb. Plant Path., Univ. Cornell).

(528) **Meliola motatanensis** Hansf., sp. n.

Plagulae epiphyllae, usque ad 3 mm diam., tenues. Hyphae brunneae, rectae vel subundulatae, oppositae acuteque ramosae, laxae ra-

dianto-reticulatae, cellulis plarumque $30-40 \Rightarrow 8-10 \mu$. Hyphopodia capitata opposita vel alternata, subantrorsa, recta vel curvata, $19-24 \mu$ longa; cellula basali cylindracea vel cuneata, $4-7 \mu$ longa; cellula apicali ovata vel clavata, integra vel rotundato-angulosa, recta vel curvata, $13-18 \Rightarrow 10-13 \mu$. Hyphopodia mucronata illis capitatis commixta, pauca, opposita vel alternata, ampullacea, $18-25 \Rightarrow 8-10 \mu$, collo elongato. Setae myceliales laxae dispersae, etiam juxta perithecia aggregatae, atrae, simplices, rectae, subacutae, — $650 \Rightarrow 9-10 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 150μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae. $35-43 \Rightarrow 16-18 \mu$.

Hab. in foliis *Leguminosarum* spec. indet., Motatan, Trujillo, Venezuela, Chardon 924 (typus in Herb. Plant Path., Cornell Univ.).

(529) *Meliola nephelii* Sacc. var. **singalensis** Hansf., var. n.

Plagulae epiphyllae, usque ad 2 mm diam. vel numerosae confluentesque, atrae, subvelutinae. Hyphae subrectae, atrobrunneae, opposite lateque ramosae, dense reticulatae, cellulis $12-18 \Rightarrow 7-8 \mu$. Hyphopodia capitata opposita (10%) vel alternata, recta, subantrorsa, $15-23 \mu$ longa; cellula basali cylindracea, $3-6 \mu$ longa; cellula apicali cylindracea, apice rotundata, integra, $11-18 \Rightarrow 9-11 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, conoidea vel ampullacea, $15-20 \Rightarrow 7-9 \mu$. Setae myceliales dispersae, rectae, $200-290 \Rightarrow 8-9 \mu$, apice dentato-cristatae — 6μ . Perithecia dispersa, atra, globosa, verrucosa, — 150μ diam., basi hyphis exhyphopodiatis, radiantibus circumdata. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, $37-47 \Rightarrow 16-21 \mu$.

Hab. in foliis *Allophyli* sp., Hakgala, Ceylon, Herb. Peradeniya 5187.

(530) ***Meliola nothopegiae*** Hansf., sp. n.

Plagulae amphigenae, plerumque hypophyllae, usque ad 5 mm diam., densae. Hyphae sinuosae vel tortuosae, opposite vel irregulariter lateque ramosae, dense intertexto-reticulatae, cellulis $20-30 \Rightarrow 9-10 \mu$. Hyphopodia capitata alternata, saepius curvata, subantrorsa vel patentia, $25-35 \mu$ longa; cellula basali cylindracea, $4-10 \mu$ longa; cellula apicali raro oblonga integraque, saepius irregulariter crenata vel sublobata, versiformi, $18-26 \Rightarrow 9-15 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, conoidea vel ampullacea, $20-27 \Rightarrow 8-10 \mu$. Setae myceliales dispersae, rectae, simplices, acutae, — $800 \Rightarrow 10-11 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 220μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $45-50 \Rightarrow 20-22 \Rightarrow 17-19 \mu$.

Hab. in foliis *Nothopegiae colebrookianae*, Mysore, India, Kulkarni in Herb. Ind. Or. Crypt. 1970 (= IMI 18936 b, typus).

(531) ***Meliola opuntiae*** Hansf., sp. n.

Plagulae numerosae, densae, — 2 mm diam., velutinae. Hyphae brunneae, rectae, oppositae acuteque ramosae, dense radianto-reticulatae, cellulis plerumque $20-25 \Rightarrow 8-9 \mu$. Hyphopodia capitata alternata, antrorsa, recta vel curvata, $19-28 \mu$ longa; cellula basali cylindracea vel cuneata, $4-9 \mu$ longa; cellula apicali subglobosa, cylindracea vel piriformi, integra, $14-20 \Rightarrow 10-15 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $14-20 \Rightarrow 7-10 \mu$. Setae myceliales numerosae, dispersae, rectae, simplices, acutae, — $400 \Rightarrow 10-41 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 170μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $46-51 \Rightarrow 17-20 \mu$.

Hab. in phyllodiorum *Opuntiae tunae*, Mona, Jamaica, Martyn 151 (= IMI 19665, typus), 298 (= IMI 24374).

(532) ***Meliola oteroana*** Hansf., sp. n.

Plagulae amphigenae, usque ad 4 mm diam. vel confluentes, densae, velutinae. Hyphae subrectae vel undulatae, brunneae, opposite lateque ramosae, dense reticulatae, cellulis plerumque $15-25 \Rightarrow 6-8 \mu$. Hyphopodia capitata opposita vel alternata, saepe curvata, $14-20 \mu$ longa; cellula basali cylindracea, $2-5 \mu$ longa; cellula apicali cylindracea, recta vel curvata, integra, $10-14 \Rightarrow 7-9 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, opposita vel alternata, ampullacea, $14-19 \Rightarrow 7-8 \mu$. Setae myceliales numerosae, rectae, atrae, — $250 \Rightarrow 7-9 \mu$, apice 2-dichotome-divisae, ramis — 15μ longis, acutis vel 2-dentatis. Perithecia laxae dispersae, atra, globosa, verrucosa, — 180μ diam. Sporae cylindraceae, obtusae, atrobrunneae, 4-septatae, constrictae, $38-44 \Rightarrow 16-18 \mu$.

Hab. in foliis *Ingae* spec., San Christobal, Tachira, Venezuela, Otero 1644 (typus in Herb. Plant Path., Cornell Univ.).

(533) ***Meliola palmicola*** Wint. var. ***africana*** Hansf., var. n.

Plagulae amphigenae, plerumque epiphyllae, velutinae, subdensae, — 6 mm diam. Hyphae brunneae, rectae vel undulatae, cellulis $17-30 \Rightarrow 6-9 \mu$, opposite ramosae, dense reticulatae. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $23-33 \mu$ longa; cellula basali cylindracea vel cuneata, $8-15 \mu$ longa; cellula apicali subglobosa, ovata vel piriformi, plerumque integra, raro angulosa vel sublobata, $14-20 \Rightarrow 9-15 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $18-24 \Rightarrow 7-9 \mu$. Setae myceliales numerosae, rectae, — $520 \Rightarrow 8-11 \mu$, apice 1-4-dentatae usque ad 20μ . Perithecia subaggregata, globosa, atra, verrucosa,

— 240 μ diam. Sporae atrobrunneae, suballipsoideae, obtusae, 4-septatae, constrictae, 47—57 $\Rightarrow$ 18—22 μ .

Hab. in foliis *Phoenixis reclinatae*, Port Shepstone, Natal, South Africa, Pole Evans (Herb. Pretoria 5607, typus); Kentani, Cape Province, South Africa, (Herb. Pretoria 9170); Uganda, Dummer 916, Hansford 1781, 2523, 759, 3553; in foliis *Phoenixis dactyliferae*, India, Rabh.-Wint., Fung. europ. 2846, Roum., Fung. gall. sel. 4647, Thuemen, Mycoth. univ. 2155; Uganda, Hansford 1860; in foliis *Phoenixis* sp., India, Herb. Crypt. Ind. Or., 1045, 1046, 1047, 1048, 1049.

(534) *Meliola panici* Earle var. **olyrae** Hansf., var. n.

Plagulae amphigenae, usque ad 4 mm diam., atrae, subvelutinae, densae, in maculas flavidas insidentes. Hyphae subrectae vel sinuosae, brunneae, oppositae vel irregulariter lateque ramosae, laxae vel dense reticulatae, cellulis plerumque 20—30 $\Rightarrow$ 6—7 μ . Hyphopodia capitata alternata, saepius irregulariter curvata, 20—35 μ longa; cellula basali cylindracea, curvata, 6—19 μ longa; cellula apicali versiformi, irregulariter fortiterque lobata, 13—20 $\Rightarrow$ 8—15 μ . Hyphopodia mucronata pauca, illis capitatis commixta, opposita vel alternata, ampullacea. Setae myceliales numerosae, dispersae, rectae, simplices, acutae, — 420 $\Rightarrow$ 8—10 μ . Perithecia dispersa, atra, globosa, verrucosa, — 170 μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, 36—41 $\Rightarrow$ 14—16 μ , cellula media longiore.

Hab. in foliis *Olyrae latifoliae*, Porto Rico, Stevens 7390, typus; Uganda, Hansford 2088; in foliis *Phari parviflori*, San Domingo, Ciferri, Mycofl. doming. exs. 205-ter.

(535) *Meliola panici* Earle var. **vetiveriae** Hansf. & Deight., var. n.

Plagulae amphigenae, atrae, subdensae vel crustosae, velutinae, — 4 mm diam. Hyphae subrectae, brunneae, oppositae vel irregulariter ramosae, dense reticulatae, cellulis plerumque 25—35 $\Rightarrow$ 7—8 μ . Hyphopodia capitata alternata, curvata, 20—38 μ longa, antrorsa vel patentia; cellula basali cylindracea vel cuneata, 7—18 μ longa; cellula apicali irregulariter sinuoso-angulosa vel lobata, 14—21 $\Rightarrow$ 10—51 μ . Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea. Setae myceliales dispersae, numerosae, rectae, simplices, obtusae vel subacutae, 300—600 $\Rightarrow$ 9—11 μ . Perithecia dispersa, atra, globosa, verrucosa, — 150 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 36—44 $\Rightarrow$ 14—17 μ .

Hab. in foliis *Vetiveriae zizanoidis*, Port Loko, Sierra Leone, Deighton M 1797 (typus); in foliis *Vetiveriae nigritanae*, Mesima, Sierra Leone, Deighton M 2013, M 2025.

(536) *Meliola pogostemonis* Hansf., sp. n.

Plagulae epiphyllae, raro amphigenae, tenues, subvelutinae, usque ad 1 mm diam. Hyphae undulatae vel sinuosae, brunneae, oppositae, acuteque ramosae, laxae vel subdense reticulatae, cellulis plerumque $25-35 \Rightarrow 6 \mu$. Hyphopodia capitata alternata, antrorsa, recta, $17-26 \mu$ longa; cellula basali leniter cuneata, recta vel curvula, $5-9 \mu$ longa; cellula apicali ovata vel clavata, apice rotundata vel subacuta, $12-18 \Rightarrow 7-10 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $20-24 \Rightarrow 6-9 \mu$. Setae myceliales modice numerosae, dispersae, simplices, obtusae, rectae vel flexuosae, $200-320 \Rightarrow 7 \mu$. Perithecia in centro plagularum aggregata, atra, globosa, verrucosa, — 180μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, constrictae, $27-35 \Rightarrow 11-13 \mu$.

Hab. in foliis *Pogostemonis heyneani*, Ceylon, Herb. Peradeniya 5205, typus; 5100.

(537) *Meliola psychotriae* Earle var. *chiococcae* Hansf., var. n.

Plagulae circa 0.5 mm diam., numerosae et subconfluentes, tenues, subvelutinae, amphigenae. Hyphae mycelii brunneae, subrectae vel leniter sinuosae, oppositae acuteque ramosae, reticulatae, cellulis plerumque $15-20 \Rightarrow 7 \mu$. Hyphopodia capitata alternata, antrorsa, recta, $20-25 \mu$ longa; cellula basali cuneata, $5-10 \mu$ longa; cellula apicali ovata, recta, integra, apice rotundata vel subacuta, $13-16 \Rightarrow 8-10 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, $15-20 \Rightarrow 7-9 \mu$. Setae myceliales dispersae et juxta perithecia aggregatae (breviores), erectae, rectae, simplices, acutae, usque ad $600 \Rightarrow 9-11 \mu$. Perithecia dispersa vel laxae aggregata, atra, globosa, verrucosa, usque ad 150μ diam. Sporae atrobrunneae, cylindratae vel ellipsoideae, obtusae, 4-septatae, constrictae, $34-39 \Rightarrow 15-18 \mu$.

Hab. in foliis *Chiococcae albae*, Barbados, Baker (IMI 13256, typus).

(538) *Meliola psychotriae* Earle var. *coffae* Hansf., var. n.

Plagulae amphigenae plerumque hypophyllae, atrae, tenues, leves, 2–3 mm diam. Hyphae mycelii subrectae vel undulatae, oppositae vel alternatim ramosae, laxae reticulatae, cellulis plerumque $25-30 \Rightarrow 7 \mu$. Hyphopodia capitata alternata, antrorsa, $20-30 \mu$ longa; cellula basali cylindrata vel cuneata, $5-10 \mu$ longa; cellula apicali ovata vel clavato-cylindrata, integra, recta vel curvula, $15-21 \Rightarrow 10-13 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, pauca, opposita vel alternata, conoidea vel ampullacea, recta vel curvata, circa 15μ longa. Setae myceliales paucae, plerumque juxta perithecia aggregatae, erectae, rectae, simplices, obtusae, $150-200 \Rightarrow 7-8 \mu$.

Perithecia laxae dispersa, atra, globosa, verrucosa, usque ad 150 μ diam. Sporae atrobrunneae, cylindratae utrinque rotundatae, 4-septatae, leniter constrictae, leves, 35—42 $\Rightarrow$ 15—18 μ .

Hab. in foliis *Coffeae stenophyllae*, Sierra Leone, Deighton 1365, typus, Deighton 1922.

(539) *Meliola psychotriae* Earle var. **pavettae** Hansf. & Deight., var. n.

Plagulae epiphyllae, usque ad 2 mm diam. vel numerosae, minutae et confluentes. Hyphae mycelii brunneae, subrectae, oppositae acutaeque ramosae, dense reticulatae, cellulis plerumque 20—35 $\Rightarrow$ 7—8 μ . Hyphopodia capitata alternata, subantrorsa, recta vel curvata, 20—27 μ longa; cellula basali cuneata, 3—10 μ longa; cellula apicali ovata, integra, 14—20 $\Rightarrow$ 9—11 μ , apice rotundata vel subacuta. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, curvata, 20—28 $\Rightarrow$ 7—9 μ . Setae myceliales dispersae et juxta perithecia aggregatae, rectae, simplices obtusae, usque ad 550 $\Rightarrow$ 10—12 μ . Perithecia dispersa, atra, globosa, verrucosa, usque ad 200 μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, constrictae, 37—43 $\Rightarrow$ 15—17 μ .

Hab. in foliis *Pavettae* spec., Sierra Leone, Deighton 4054 (IMI 49250).

(540) *Meliola psychotriae* Earle var. **rondeletiae** Hansf., var. n.

Plagulae amphigenae, usque ad 3 mm diam. vel confluentes, tenues. Hyphae brunneae, flexuosae vel tortuosae, oppositae ramosae, dense intertexto-reticulatae, cellulis plerumque 20—30 $\Rightarrow$ 6—8 μ . Hyphopodia capitata alternata, subantrorsa, recta vel curvata, 15—23 μ longa; cellula basali cylindrata vel cuneata, 2—6 μ longa; cellula apicali globosa vel ovata, apice rotundata vel subattenuata, integra, raro rotundato-angulosa vel sublobata, versiformi, 12—16 $\Rightarrow$ 9—14 μ . Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, 15—20 $\Rightarrow$ 6—7 μ . Setae myceliales modice numerosae, dispersae, rectae, simplices, obtusae vel acutae, — 600 $\Rightarrow$ 7—8 μ , juxta perithecia breviores. Perithecia dispersa vel subaggregata, atra, globosa, verrucosa, — 170 μ diam. Sporae cylindratae vel ellipsoideae, obtusae, 4-septatae, leniter constrictae, atrobrunneae, 27—35 $\Rightarrow$ 13—15 $\Rightarrow$ 11—13 μ .

Hab. in foliis *Rondeletiae purdiei*, Venezuela, Sydow, Fung. exot. exs. 798 (typus); in foliis *R. brachycarpae*, San Domingo, Ciferri, Mycofl. doming. exs. 257.

(541) **Meliola phthirusae** Hansf., sp. n.

Plagulae plerumque epiphyllae, usque ad 5 mm diam., tenues. Hyphae rectae vel undulatae, brunneae, oppositae ramosae, laxae reti-

culatae, cellulis plerumque $20-40 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata, antrorsa, recta, $12-14 \mu$ longa; cellula basali cylindracea, $2-4 \mu$ longa; cellula apicali globosa, integra, $10-12 \mu$ diam. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, $14-18 \Rightarrow 8-9 \mu$. Setae myceliales juxta perithecia plerumque aggregatae, erectae, atrae, subrectae, simplices, obtusae, $-250 \mu \Rightarrow 7-8 \mu$. Perithecia dispersa, subverrucosa, atra, globosa, -150μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $34-39 \Rightarrow 13-15 \mu$.

Hab. in foliis *Phthirusae pyrifoliae*, Guarenas Miranda, Venezuela, Chardon & Toro 524 (typus in Herb. Plant Path., Cornell Univ.).

(542) **Meliola phyllanthicola** Hansf. & Deight., sp. n.

Plagulae epiphyllae, minutae, atrae, subdensae. Hyphae subrectae vel leniter sinuosae, brunneae, opposite lateque ramosae, dense radianto-reticulatae, cellulis $13-25 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata vel usque ad 2% opposita, recta, subantrorsa, $10-14 \mu$ longa; cellula basali cylindracea, $2-4 \mu$ longa; cellula apicali globosa, integra, $8-11 \Rightarrow 7-11 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, alternata vel opposita, ampullacea, $13-16 \Rightarrow 6-9 \mu$. Setae myceliales paucae, juxta perithecia aggregatae, rectae, simplices, obtusae, $-220 \Rightarrow 7-8 \mu$. Perithecia in centro plagularum aggregata, atra, globosa, verrucosa, -160μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $29-34 \Rightarrow 12-14 \mu$.

Hab. in foliis *Phyllanthi reticulati* var. *glabris*, Sierra Leone, Deighton 1835 (typus in Herb. Pretoria).

(543) **Meliola pleioceratis** Hansf., sp. n.

Plagulae amphigenae, usque ad 3 mm diam., subdensae, velutinae. Hyphae subrectae, brunneae, opposite acuteque ramosae, dense radianto-reticulatae, cellulis $25-45 \Rightarrow 6-7 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $21-29 \mu$ longa; cellula basali cylindracea, $5-11 \mu$ longa; cellula apicali ovata, apice rotundata, truncata vel attenuata, integra, $14-20 \Rightarrow 8-10 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $20-31 \Rightarrow 6-8 \mu$. Setae myceliales numerosae, dispersae, erectae, rectae, simplices, obtusae, $-750 \Rightarrow 7-9 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -170μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $35-38 \Rightarrow 14-15 \mu$.

Hab. in foliis *Pleioceratis barteri*, Aprembo, Gold Coast, Hughes 543 (= IMI 45072, typus).

(544) **Meliola polyodonta** Syd. var. **major** Hansf., var. n.

Plagulae plerumque epiphyllae, usque ad 3 mm diam., tenues vel subdensae, tenuiter velutinae. Hyphae undulatae, brunneae, oppo-

sitae vel irregulariter lateque ramosae, laxae vel subdense reticulatae, cellulis plerumque $25-30 \Rightarrow 6-8 \mu$. Hyphopodia capitata alternata, curvata, $16-21 \mu$ longa; cellula basali cylindracea, $3-6 \mu$ longa; cellula apicali ovata, integra vel lenissime rotundato-angulosa, curvata vel transversa, $13-17 \Rightarrow 10-12 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, alternata vel opposita, ampullacea, $14-19 \Rightarrow 7-9 \mu$. Setae myceliales dispersae, rectae, atrae, $-350 \Rightarrow 8-9 \mu$, sursum torulosae vel scabrosae, apice simplices, obtusae, vel plerumque 2-dentatae (-15μ), dentibus obtusis. Perithecia laxae dispersa, atra, globosa, verrucosa, -170μ diam. Sporae atrobrunneae, obtusae, cylindraceae, 4-septatae, constrictae, $38-42 \Rightarrow 14-15 \Rightarrow 11-12 \mu$.

Hab. in foliis *Papilionacearum* spec. indet., Valencia, Carabobo, Venezuela, Chardon & Stelling 844 (typus in Herb. Plant Path., Cornell Univ.).

(545) *Meliola polytricha* K. & C. var. **fijiensis** Hansf., var. n.

Plagulae amphigenae, densae, subvelutinae, usque ad 3 mm diam. vel confluentes. Hyphae subrectae vel leniter undulatae, brunneae, oppositae vel irregulariter acuteque ramosae, ramis saepe tortuosis, cellulis plerumque $20-25 \Rightarrow 6-8 \mu$. Hyphopodia capitata alternata vel opposita, subantrorsa, recta vel curvata, $23-30 \mu$ longa; cellula basali cylindracea vel cuneata, $5-10 \mu$ longa; cellula apicali ovata vel subpiriformi, margine sinuoso-sublobata, $14-20 \Rightarrow 11-15 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, $14-20 \Rightarrow 7-8 \mu$. Setae myceliales dispersae, rectae vel arcuatae, haud uncinatae, simplices, acutae, $-320 \Rightarrow 8-10 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -170μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, fortiter constrictae, $53-58 \Rightarrow 18-21 \Rightarrow 15-16 \mu$.

Hab. in foliis *Pittospori brockeridgei*, Viti Levu, Fiji, A. C. Smith 4618 (typus in Herb. Kew ex Univ. Harvard).

(546) *Meliola pycnanthi* Hansf., sp. n.

Plagulae epiphyllae, tenues, usque ad 3 mm diam. Hyphae subrectae vel leniter undulatae, brunneae, oppositae acuteque ramosae, laxae radianto-reticulatae, cellulis plerumque $20-35 \Rightarrow 7-8 \mu$. Hyphopodia capitata alternata, antrorsa, recta vel curvata, $24-31 \mu$ longa; cellula basali cylindracea vel cuneata, $8-14 \mu$ longa; cellula apicali ovata vel clavata, integra, $15-20 \Rightarrow 10-13 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita, ampullacea. Setae myceliales numerosae, simplices, obtusae vel acutae, $-250 \Rightarrow 7-8 \mu$, sursum curvatae vel subuncinatae. Perithecia dispersa, atra, globosa, verrucosa, -180μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $41-45 \Rightarrow 17-20 \mu$.

Hab. in foliis *Pycnanthi Komboi*, Uganda, Hansford 2281.

This was formerly recorded as *M. uncinata* Syd.

(547) *Meliola randicola* Hansf., sp. n.

Plagulae amphigenae, in epiphylllo densae, usque ad 2 mm diam., in hypophyllo tenuiores, majores et saepe confluentes. Hyphae brunneae, subrectae vel sinuosae, (in hypophyllo subtortuosae), oppositae lateque ramosae, dense reticulatae, cellulis plerumque $20-25 \approx 7-8 \mu$. Hyphopodia capitata opposita, subantrorsa, recta vel curvula, $13-18 \mu$ longa; cellula basali cylindracea vel cuneata, $2-5 \mu$ longa; cellula apicali ovata vel cylindracea, integra, apice rotundata, $9-14 \approx 8-10 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $15-22 \approx 7-8 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, simplices, acutae, — $650 \approx 7-9 \mu$. Perithecia dispersa vel subaggregata, atra, globosa, verrucosa, — 170μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, fortiter constrictae, $42-48 \approx 17-19 \mu$.

Hab. in foliis *Randia patulae*, Java, Herb. Bogor 14049.

(548) *Meliola rhoina* Doidge var. *schini* Hansf., var. n.

Plagulae plerumque epiphyllae, densae, usque ad 1.5 mm diam. Hyphae brunneae, undulatae, alternatim vel irregulariter acuteque ramosae, dense reticulato-intertextae et subsolidae, cellulis plerumque $15-25 \approx 7-9 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvata, $16-24 \mu$ longa; cellula basali cylindracea vel cuneata, $3-10 \mu$ longa; cellula apicali ovata, cylindracea, clavulata vel piriformi, integra vel lenissime rotundato-angulosa, saepe curvata, $11-17 \approx 8-12 \mu$. Hyphopodia mucronata in hyphis distinctis in centro plagularum evoluta, alternata vel unilateralia, ampullacea, $16-22 \approx 7-9 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae vel curvulae, simplices, obtusae, usque ad $250 \approx 7-9 \mu$. Perithecia in centro plagularum aggregata, atra, globosa, verrucosa, — 270μ diam. Sporae cylindraceae, obtusae, 4-septatae, constrictae atrobrunneae, $45-50 \approx 18-20 \approx 16 \mu$.

Hab. in foliis *Schini latifolii*, Jujuy, Argentina, Herb. Spegazzini 623, typus; in foliis *Schini* spec., La Plata, Herb. Spegazzini 628 p. p., 631.

(549) *Meliola rigida* Doidge var. *ugandae* Hansf., var. n.

Plagulae amphigenae, usque ad 5 mm diam., densae, atrae, velutinae. Hyphae sinuosae vel flexuosae, atrobrunneae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $15-25 \approx 7-9 \mu$. Hyphopodia capitata alternata, rarissime opposita, antrorsa vel patentia, recta vel curvata, $20-28 \mu$ longa; cellula basali cylindracea, $6-14 \mu$ longa; cellula apicali cylindracea vel clavata, integra, recta vel curvata, $12-18 \approx 9-13 \mu$. Hyphopodia mucronata illis capitatis commixta, breviter ampullacea. Setae myceliales numerosae, rectae, simplices, acutae, — $600 \approx 8-10 \mu$. Perithecia dispersa, atra, globosa,

verrucosa, — 240 μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, constrictae, 46—54 $\Rightarrow$ 16—19 μ .

Hab. in foliis *Xymalodis monosporae* Uganda, Hansford 2673, typus; 2843, 3339.

This was given previously as *M. borneensis* Syd.

(550) *Meliola schizolobii* Syd. var. **bauliniae** Hansf., var. n.

Plagulae epiphyllae, tenuissimae, — 2 mm diam. vel confluentes. Hyphae undulatae vel sinuosae, oppositae vel irregulariter ramosae, laxae reticulato-intertextae, cellulis plerumque 20—30 $\Rightarrow$ 5—7 μ . Hyphopodia capitata alternata vel usque ad 5 % opposita, subantrorsa, curvula, 12—16 μ longa; cellula basali cylindrata, 2—4 μ longa; cellula apicali ovata vel cylindrata, curvula, integra, 8—13 $\Rightarrow$ 6—10 μ . Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, pauca, ampullacea, 15—20 $\Rightarrow$ 6—7 μ , collo elongato. Setae myceliales laxae dispersae, etiam juxta perithecia aggregatae, erectae, atrae, subrectae, — 270 $\Rightarrow$ 8 μ , apice dentatae (— 8 μ). Perithecia laxae dispersae, atra, globosa, verrucosa, — 170 μ diam. Sporae cylindratae, obtusae, 4-septatae, constrictae, 30—37 $\Rightarrow$ 12—13 $\Rightarrow$ 8—10 μ , atrobrunneae.

Hab. in foliis *Bauhiniae cumanensis*, Motatan, Trujillo, Venezuela, Chardon 927 (typus in Herb. Plant Path., Cornell Univ.).

(551) *Meliola scott-elliottii* Hansf., & Deighton, sp. n.

Plagulae epiphyllae, densae, usque ad 3 mm diam. Hyphae sinuosae, brunneae, oppositae acuteque ramosae, dense reticulatae, cellulis plerumque 20—30 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata vel usque ad 5% opposita, recta vel curvata, antrorsa vel patentia, 18—28 μ longa; cellula basali cylindrata, 3—8 μ longa; cellula apicali globosa, ovata vel piriformi, integra, 13—20 $\Rightarrow$ 8—14 μ . Hyphopodia mucronata non visa. Setae myceliales modice numerosae, dispersae, rectae, simplices, obtusae, — 350 $\Rightarrow$ 9—10 μ . Perithecia dispersa, atra, globosa, verrucosa, immatura. Sporae atrobrunneae, cylindratae vel subellipsoideae, obtusae, 4-septatae, constrictae, 39—43 $\Rightarrow$ 15—16 μ .

Hab. in foliis *Dichapetali toxicarii*, Makunde, Limba, Sierra Leone, Scott-Elliott 5688 (= IMI 47516, typus).

(552) *Meliola securidacae* Hansf., sp. n.

Plagulae amphigenae, usque ad 3 mm diam. vel confluentes, tenues vel subdensae, subvelutinae. Hyphae brunneae, subrectae vel tortuosae, oppositae lateque ramosae, subdense reticulatae, cellulis plerumque 15—20 $\Rightarrow$ 6—7 μ . Hyphopodia capitata alternata vel usque ad 5% opposita, patentia vel subantrorsa, recta vel curvula, 12—16 μ longa; cellula basali cylindrata, 2—5 μ longa; cellula apicali ovata vel piriformi, integra, 9—13 $\Rightarrow$ 6—8 μ . Hyphopodia mucronata illis

capitatis commixta, opposita vel alternata, ampullacea, $15-20 \Rightarrow 7-8 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, — $600 \Rightarrow 8-9 \mu$, apice 2—4-dentatae — 15μ . Perithecia dispersa, leniter verrucosa, atra, globosa, — 170μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, constrictae, $33-37 \Rightarrow 13-14 \Rightarrow 9-10 \mu$.

Hab. in foliis *Securidacae volubilis*, Maricao-Yanco Road, Porto Rico, Whetzel-Kern-Toro 2619 (typus in Herb. Plant Path., Univ. Cornell).

(553) **Meliola sesami** Hansf. & Deight., sp. n.

Plagulae epiphyllae, rara amphigenae, — 2 mm diam. vel numerosae confluentesque, subdensae. Hyphae tortuosae, opposite vel irregulariter acuteque ramosae, dense radiato-reticulatae, cellulis plerumque $20-35 \Rightarrow 5-6 \mu$. Hyphopodia capitata alternata, subantrorsa, recta vel curvula, $12-18 \mu$ longa; cellula basali cylindrata vel cuneata, $2-5 \mu$ longa; cellula apicali globosa vel rotundato-angulosa, $9-13 \Rightarrow 8-14 \mu$. Hyphopodia mucronata pauca, illis capitatis commixta, ampullacea, opposita vel alternata, $14-20 \Rightarrow 6-8 \mu$. Setae myceliales dispersae, rectae, simplices, obtusae, — $200 \Rightarrow 6-7 \mu$. Perithecia dispersa vel laxe gregaria, atra, globosa, verrucosa, — 140μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, leniter constrictae, $28-35 \Rightarrow 10-14 \mu$.

Hab. in foliis *Sesami indici*, Sierra Leone, Deighton M 478, typus, 1192; in foliis *S. radiati*, Sierra Leone, Deighton 1196, 546.

(554) *Meliola simillima* Ell. & Everh. var. **major** Hansf., var. n.

Plagulae amphigenae, usque ad 4 mm diam., tenues, subinde tenuiter velutinae. Hyphae brunneae, sinuosae vel tortuosae, opposite vel irregulariter lateque ramosae, laxae reticulatae, cellulis plerumque $20-30 \Rightarrow 5-6 \mu$. Hyphopodia capitata alternata, antrorsa vel patentia, recta, $10-16 \mu$ longa; cellula basali cylindrata, $2-5 \mu$ longa; cellula apicali globosa, integra, $8-11 \Rightarrow 7-11 \mu$. Hyphopodia mucronata illis capitatis commixti, opposita, ampullacea, $15-20 \Rightarrow 6-9 \mu$. Setae myceliales dispersae, rectae vel flexuosae, simplices, obtusae, — $330 \Rightarrow 6-8 \mu$. Perithecia dispersa, atra, globosa, verrucosa, — 140μ diam. Sporae atrobrunneae, cylindratae, obtusae, 4-septatae, constrictae, $33-40 \Rightarrow 12-15 \mu$.

Hab. in foliis *Holarrhenae antidysentericae*, India, 1913, Som in Herb. Crypt. Ind. Or.

(555) **Meliola solteroi** Hansf., sp. n.

Plagulae amphigenae, usque ad 5 mm diam., subdensae, velutinae. Hyphae rectae, brunneae, opposite acuteque ramosae, dense

radianto-reticulatae, cellulis plerumque $20-30 \approx 6-8 \mu$. Hyphopodia capitata alternata vel usque ad 5% opposita, subantrorsa, recta vel curvula, $15-20 \mu$ longa; cellula basali cuneata vel cylindracea, $4-8 \mu$ longa; cellula apicali subglobosa, ovata vel clavulata, integra, $11-14 \approx 8-12 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $20-30 \approx 7-8 \mu$, collo elongato. Setae myceliales numerosae, dispersae etiam juxta perithecia aggregatae, simplices, obtusae vel subacutae, $-1400 \approx 8-10 \mu$, sursum attenuatae. Perithecia dispersa, atra, globosa, verrucosa, -230μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $38-44 \approx 15-17 \approx 12-14 \mu$.

Hab. in foliis *Coccolobae caracasanae*, Upata, Bolivar, Venezuela, Soltero 1536 (typus in Herb. Plant Path., Cornell Univ.).

(556) *Meliola soroceae* Speg. var. **africana** Hansf., var. n.

Plagulae plerumque hypophyllae, -2 mm diam., densae, subcrustosae. Hyphae brunneae, leniter undulatae, cellulis $10-20 \approx 8-10 \mu$, opposite, lateque ramosae, dense reticulatae. Hyphopodia capitata alternata vel unilateralia, antrorsa vel patentia, stipata, $25-35 \mu$ longa; cellula basali cylindracea vel cuneata, $5-15 \mu$ longa; cellula apicali ovata vel piriformi, integra vel rotundato-angulosa, $15-20 \approx 12-15 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea. Setae myceliales paucae vel numerosae (in plagulas numerosas subnullae), dispersae, rectae, $-320 \approx 9-11 \mu$. apice 2-lobatae, 2-5-dentatae (-10μ) vel breviter 2-furcatae et ramulis lobatis vel dentatis. Perithecia dispersa, atra, globosa, verrucosa, -200μ diam. Sporae atrobrunneae, cylindraceae vel ellipsoideae, obtusae, 4-septatae, constrictae, $48-56 \approx 19-23 \mu$.

Hab. in foliis *Bosquiae phoberodis*, Uganda, Hansford 2912 (typus) 2893, 2972, 3124, 3150, 3440, 3561.

(557) *Meliola stenospora* Wint. var. **major** Hansf., var. n.

Plagulae amphigenae, plerumque epiphyllae, usque ad 3 mm diam. vel confluentes, subdensae, subvelutinae. Hyphae brunneae, subrectae vel leniter undulatae, opposite vel irregulariter lateque ramosae, dense reticulatae, cellulis plerumque $20-25 \approx 8-10 \mu$. Hyphopodia capitata alternata vel rarissime opposita, antrorsa vel patentia, recta vel curvata, $17-23 \mu$ longa; cellula basali cuneata vel cylindracea, $3-9 \mu$ longa; cellula apicali subglobosa, margine crenato-lobulata, $11-15 \approx 12-20 \mu$. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, $17-20 \approx 7-9 \mu$. Setae myceliales praecipue juxta perithecia aggregatae, rectae, opacae, simplices, acutae, $-1000 \approx 10-12 \mu$. Perithecia laxe gregaria, atra, globosa, verrucosa, -170μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $37-43 \approx 13-15 \approx 11-12 \mu$.

Hab. in foliis *Piperis* spec., Philippine Is., Phil. Bur. Sci. 2884 (typus in Herb. Stockholm); PBS 2990, 23479, 770.

(558) **Meliola styracina** Hansf., sp. n.

Plagulae semper epiphyllae, subdensae, usque ad 1 mm diam. vel numerosae confluentesque, interdum subvelutinae. Hyphae brunneae, subrectae, oppositae acuteque ramosae, dense reticulatae, cellulis $12-18 \div 6-7 \mu$. Hyphopodia capitata alternata, antrorsa, recta, $15-23 \mu$ longa; cellula basali cuneata, $3-7 \mu$ longa; cellula apicali ovata vel cylindracea, integra, $12-17 \div 7-9 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, conoidea vel ampullacea, $18-28 \div 7-9 \mu$. Setae myceliales dispersae, paucae vel numerosae, rectae, simplices obtusae, $-550 \div 9-10 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -180μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $36-40 \div 14-15 \mu$.

Hab. in foliis *Styracis leprosa*e, Misiones, Argentina, Herb. Spegazzini 16958 p. p.

In the type specimen *Asteridiella styracicola* (Speg.) Hansf. (= *Meliola styracicola* Speg. in Anal. Mus. Nac. Buenos Aires, 23, no. 1344, 1912) occurs on the lower surface, and is very different in colony appearance, mycelium and spores.

(559) **Meliola sudanensis** Hansf., sp. n.

Plagulae epiphyllae, densae, velutinae, 2–3 mm diam vel minores, numerosae et confluentes. Hyphae flexuosae vel subrectae, brunneae, oppositae vel alternatim acuteque ramosae, dense radianto-reticulatae, cellulis plerumque $20-30 \div 6-7 \mu$. Hyphopodia capitata alternata, antrorsa, recta, $15-20 \mu$ longa; cellula basali cuneata vel cylindracea, $4-7 \mu$ longa; cellula apicali ovata vel clavulata, integra, $12-16 \div 10-12 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, ampullacea, $17-30 \div 7-9 \mu$, collo elongato. Setae myceliales numerosae, dispersae, rectae, simplices, obtusae, $-250 \div 709 \mu$. Perithecia dense dispersa, atra, globosa, verrucosa, -190μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $33-38 \div 13-14 \mu$.

Hab. in foliis *Combreti* sp., Yambo, Sudan, Tarr 409 (= IMI 40111, typus); Tarr 432, 431 (= IMI 40112, 40113).

(560) *Meliola tabernaemontanae* Speg. var. **major** Hansf., var. n.

Plagulae amphigenae, atrae, subdensae, usque ad 1 mm diam. Hyphae atrobrunneae, sinuosae vel flexuosae, oppositae acuteque ramosae, laxe radianto-reticulatae, cellulis $20-25 \div 6-7 \mu$. Hyphopodia capitata alternata, antrorsa, recta vel curvata, $19-29 \mu$ longa; cellula basali cylindracea vel cuneata, $5-10 \mu$ longa; cellula apicali clavato-

cylindracea vel elongato-ovata, integra, $13-21 \rightleftharpoons 8-10 \mu$, recta vel curvula. Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea $13-20 \rightleftharpoons 7-9 \mu$. Setae myceliales praecipue juxta perithecia aggregatae, erectae, rectae, obtusae, simplices, $-280 \rightleftharpoons 8 \mu$. Perithecia in centro plagarum aggregata, atra, globosa, verrucosa, -160μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $39-45 \rightleftharpoons 12-16 \mu$.

Hab. in foliis *Conopharyngiae* sp., Kivu, Congo Belge, Hendrickx 2077.

What appears to be this same variety was also found on *Plumiera pluvialis*, San Domingo, Ciferri, Mycofl. doming. exs. 92-bis, in Herb. Kew.

(561) *Meliola tabernaemontanae* Speg. var. **odontadeniae** Hansf., var. n.

Plagulae epiphyllae, usque ad 5 mm diam vel confluentes, subtenues, subvelutinae. Hyphae subrectae vel leniter flexuosae, atrobrunneae, oppositae lateque ramosae, laxae reticulatae, cellulis $20-40 \rightleftharpoons 6-8 \mu$. Hyphopodia capitata alternata, subantrorsa, recta, $15-19 \mu$ longa; cellula basali cylindracea vel cuneata, $2-6 \mu$ longa; cellula apicali globosa, integra, $12-15 \rightleftharpoons 11-13 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $15-20 \rightleftharpoons 7-9 \mu$. Setae myceliales dispersae, erectae, rectae, simplices, obtusae, $-280 \rightleftharpoons 7-8 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -140μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, $30-35 \rightleftharpoons 13-15 \rightleftharpoons 10-12 \mu$.

Hab. in foliis *Odontadeniae nitidae*, Trinidad, Baker 1340 (= IMI 19330, typus).

(562) ***Meliola tawaoensis*** Hansf., sp. n.

Plagulae hypophyllae, usque ad 4 mm diam. vel confluentes, densae, subvelutinae. Hyphae brunneae, rectae vel undulatae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $15-25 \rightleftharpoons 7-9 \mu$. Hyphopodia capitata opposita vel alternata, antrorsa vel patentia, recta vel curvula, $17-23 \mu$ longa, cellula basali cylindracea vel cuneata, $3-7 \mu$ longa; cellula apicali ovata vel cylindracea, integra, $12-17 \rightleftharpoons 8-12 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $22-28 \rightleftharpoons 8-9 \mu$, collo elongato. Setae myceliales dispersae etiam juxta perithecia aggregatae, erectae, rectae, simplices, obtusae, $-600 \rightleftharpoons 9-11 \mu$, sursum gradatim attenuatae. Perithecia dispersa, atra, globosa, verrucosa, usque ad 190μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $47-54 \rightleftharpoons 17-21 \mu$.

Hab. in foliis *Rubiacearum* spec. indet., Tawao, British North Borneo, Elmer 20412, typus in Herb. Bogor.

(563) **Meliola telensis** Hansf., sp. n.

Plagulae epiphyllae, tenues, usque ad 2 mm diam., dispersae vel subinde confluentes. Hyphae brunneae, undulatae vel sinuosae, opposite vel irregulariter lateque ramosae, laxe reticulatae, cellulis plerumque $20-30 \div 6-8 \mu$. Hyphopodia capitata alternata, patentia vel antrorsa, recta vel curvata, $16-20 \mu$ longa; cellula basali cylindracea vel cuneata, $2-6 \mu$ longa; cellula apicali ovata vel cylindracea, integra, saepe curvata, $12-15 \div 7-10 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $18-21 \div 7-9 \mu$. Setae myceliales paucae, plerumque juxta perithecia aggregatae, $-240 \div 8-9 \mu$, rectae vel leniter arcuatae, apice irregulariter dentatae vel breviter furcatae, dentibus -20μ longis. Perithecia dispersa, atra, globosa, -180μ diam. Sporae atrobrunneae, cylindraceae, obtusae 4-septatae, constrictae, $35-40 \div 13-14 \mu$.

Hab. in foliis *Calatheae* sp., Tela, Honduras, Standley 55790 p. p.

(564) **Meliola tetrorchidiicola** Hansf., sp. n.

Plagulae hypophyllae, tenues, usque ad 10 mm diam. Hyphae brunneae, subrectae, opposita vel irregulariter ramosae, laxe reticulatae, cellulis plerumque $25-40 \div 5-7 \mu$. Hyphopodia capitata alternata vel dispersa, rarissime opposita, recta vel curvata, patentia, $17-24 \mu$ longa; cellula basali cylindracea, $4-7 \mu$ longa; cellula apicali ovata, clavata vel cylindracea, recta vel curvata, integra, $12-17 \div 8-10 \mu$. Hyphopodia mucronata illis capitatis commixta, alternata vel opposita, conoidea vel ampullacea, $18-25 \div 7-8 \mu$, collo elongato. Setae myceliales praecipue juxta perithecia aggregatae, rectae, simplices obtusae vel subacutae, $-490 \div 9-11 \mu$. Perithecia dispersa, atra, globosa, verrucosa, -160μ diam., basi hyphis radiantibus circumdata. Sporae atrobrunneae, cylindraceae vel ellipsoideae, obtusae, 4-septatae, constrictae, $38-46 \div 16-17 \div 13-14 \mu$.

Hab. in foliis *Tetrorchidii rubivenii*, Sta. Catharina, Brazil, Ule, Herb. brasil. 1496 (typus in Herb. Kew).

(565) **Meliola theissenii** Hansf., sp. n.

Plagulae epiphyllae, numerosissimae et confluentes, subtenues. Hyphae sinuosae vel tortuosae, atrobrunneae, opposita lateque ramosae, subdense intertecto-reticulatae, cellulis $20-30 \div 6 \mu$. Hyphopodia capitata alternata vel rarissime opposita, $10-13 \mu$ longa; cellula basali cylindracea, $2-3 \mu$ longa; cellula apicali globosa, integra, $7-10 \mu$ diam. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, $14-18 \div 6-9 \mu$. Setae myceliales dispersae, etiam juxta perithecia aggregatae, rectae, atrae, $-360 \div 7-8 \mu$, apice acutae vel 2-3-dentatae (-15μ), in parte superiore saepe subtorulosae. Perithecia dispersa, atra, globosa, verrucosa,

—160 μ diam. Sporae atrobrunneae, cylindratae vel subellipsoideae, 4-septatae, constrictae, 32—36 $\Rightarrow$ 11—13 μ .

Hab. in foliis *Bauhiniae* sp., Rio de Janeiro, Brazil, Theissen 12 in Herb. Stockholm.

(566) **Meliola thwaitesiana** Hansf., sp. n.

Plagulae amphigenae, densae, usque ad 3 mm diam. vel confluentes, subvelutinae. Hyphae brunneae, subrectae vel flexuosae, oppositae subrectangulariterque ramosae, dense reticulato-intertextae, cellulis plerumque 15—20 $\Rightarrow$ 6—8 μ . Hyphopodia capitata opposita vel usque ad 10% opposita, antrorsa vel patentia, 15—22 μ longa, recta vel curvula; cellula basali cylindrata, 2—6 μ longa; cellula apicali oblonga vel cylindrata, apice rotundata, integra, 11—18 $\Rightarrow$ 6—10 μ . Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, ampullacea, 17—25 $\Rightarrow$ 7—9 μ . Setae myceliales tenuiter dispersae, rectae, simplices, acutae, usque ad 1100 $\Rightarrow$ 9—11 μ . Perithecia dispersa, atra, globosa, verrucosa, —210 μ diam. Sporae cylindratae vel subellipsoideae, obtusae, 4-septatae, constrictae, 41—48 $\Rightarrow$ 18—20 μ .

Hab. in foliis *Ixorae coccineae*, Ceylon, Thwaites 419 (typus in Herb. Kew, *M. ixorae* Yates commixta).

(567) **Meliola torulosiseta** Hansf., sp. n.

Plagulae amphigenae, subdensae, usque ad 4 mm diam. Hyphae brunneae, tortuosae, alternatim vel irregulariter ramosae, laxae reticulatae, cellulis plerumque 30—50 $\Rightarrow$ 7—10 μ . Hyphopodia capitata alternata, 35—140 μ longa, tortuosa; cellula basali cylindrata vel irregulariter tumida, curvata vel geniculata, saepe 1—3-septata, 15—115 μ longa; cellula apicali irregulariter ovata, angulosa vel sublobata, versiformi, 20—28 $\Rightarrow$ 15—22 μ . Hyphopodia mucronata in hyphis distinctis evoluta, opposita vel alternata, ampullacea, 20—30 $\Rightarrow$ 7—10 μ . Setae myceliales modice numerosae, dispersae, etiam juxta perithecia aggregatae, rectae vel flexuosae, simplices, obtusae, apice torulosae, subuncinatae vel circinatae, —280 $\Rightarrow$ 8—9 μ . Perithecia dispersa, atra, globosa, verrucosa, —170 μ diam. Sporae atrobrunneae, ellipsoideae, obtusae, 4-septatae, constrictae, 45—50 $\Rightarrow$ 22—25 $\Rightarrow$ 16—20 μ .

Hab. in foliis *Tabebuiae* (? *stenocalycis*), Long Stretch Forest, Trinidad, Baker 1890 (= IMI 27672, typus).

(568) **Meliola trichoscyphae** Hansf. & Deight., sp. n.

Plagulae plerumque epiphyllae, subdensae, velutinae, usque ad 3 mm diam., in hypophyllo tenuiores. Hyphae subrectae, atrobrunneae, oppositae vel alternatim lateque ramosae, dense reticulatae, cellulis 20—35 $\Rightarrow$ 9—11 μ . Hyphopodia capitata alternata, patentia, saepius leniter curvata, 25—35 μ longa; cellula basali cylindrata,

8—13 μ longa; cellula apicali ovata vel late piriforme, integra, 19—25 $\Rightarrow$ 11—15 μ . Hyphopodia mucronata illis capitatis commixta, alternata, ampullacea, 20—30 $\Rightarrow$ 9—11 μ . Setae myceliales dispersae, etiam juxta perithecia aggregatae, erectae, rectae, subopace atrae, — 800 $\Rightarrow$ 10—11 μ , apice 2—3-dentatae — 12 μ . Perithecia dispersa, atra, globosa, verrucosa, — 250 μ diam. Sporae atrobrunneae, cylindraceae vel ellipsoideae, obtusae, 4-septatae, constrictae, 54—59 $\Rightarrow$ 21—25 μ .

Hab. in foliis *Trichoscyphae* (?*arboreae*), Sierra Leone, Deighton 5786-a (= IMI 56519-a, typus).

(569) *Meliola vicina* Syd. var. **vangueriae** Hansf., var. n.

Plagulae epiphyllae, atrae, densae, velutinae, usque ad 2 mm diam. Hyphae mycelii brunneae, subrectae vel leniter sinuosae, oppositae ramosae, dense reticulatae, cellulis plerumque 15—25 $\Rightarrow$ 7—9 μ . Hyphopodia capitata alternata, subantrorsa, recta, 16—21 μ longa; cellula basali cylindracea vel cuneata, 4—7 μ longa; cellula apicali subglobosa vel breviter clavata, integra, 11—14 $\Rightarrow$ 8—11 μ . Hyphopodia mucronata pauca, illis capitatis commixta, conoidea vel ampullacea, alternata, 14—18 $\Rightarrow$ 6—8 μ . Setae myceliales dispersae, numerosae, erectae, rectae, simplices, subacutae, 220—340 $\Rightarrow$ 9—10 μ . Perithecia in centro plagularum laxae aggregata, atra, globosa, verrucosa, usque ad 160 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 32—38 $\Rightarrow$ 13—16 μ .

Hab. in foliis *Vangueriae apiculatae*, Kisubi, Entebbe, Uganda, Hansford 3670, typus.

(570) *Meliola vignae-gracilis* Hansf. & Deight., var. **panamensis** Hansf., var. n.

Plagulae epiphyllae, densae, — 3 mm diam. Hyphae subrectae vel undulatae, brunneae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque 15—30 $\Rightarrow$ 7—8 μ . Hyphopodia capitata alternata (rarissime opposita), recta vel curvula, 15—21 μ longa; cellula basali cuneata vel cylindracea, 3—7 μ longa; cellula apicali globosa vel late ovata, integra, 11—16 $\Rightarrow$ 11—13 μ . Hyphopodia mucronata in hyphis distinctis, longis, evoluta, opposita vel alternata, ampullacea, 15—19 $\Rightarrow$ 7—9 μ . Setae myceliales laxae dispersae, erectae, suberectae, simplices, obtusae vel interdum 2-furcatae (— 20 μ), usque ad 280 $\Rightarrow$ 8 μ . Perithecia dispersa, atra, globosa, verrucosa, — 170 μ diam. Sporae atrobrunneae, cylindraceae, obtusae, 4-septatae, constrictae, 36—42 $\Rightarrow$ 13—14 μ .

Hab. in foliis *Meibomia* (Desmodii) spec., Panama, Stevens 152 (typus in Farlow Herb.), 370, 85, 869; in foliis *Wenderothiae* (*Canavaliae*) *leiocalycis*, Panama, Stevens 339; in foliis *Papilionacearum* spec. indet., Venezuela, Chardon & Stelling 844.

The distribution of the mucronate hyphopodia is peculiar, on few hyphae with cells $25-40 \Rightarrow 7-9 \mu$, growing out beyond the main colony margin; many colonies have none. The tips of the mycelial setae are very irregular, usually torulose below the apex and either simple and obtuse, or variously 2-furcate or dentate, the tips of the braches obtuse and torulose or bent.

(571) **Meliola whetzelii** Hansf., sp. n.

Plagulae amphigenae, usque ad 4 mm diam. vel confluentes, tenuis vel subdensae, in hypophyllo subvelutinae. Hyphae subrectae vel tortuosae, brunneae, oppositae lateque ramosae, laxae vel subdense reticulato-intertextae, cellulis plerumque $20-25 \Rightarrow 5-6 \mu$. Hyphopodia capitata alternata, patentia, recta, $15-21 \mu$ longa; cellula basali cylindracea, $2-4 \mu$ longa; cellula apicali obtuse conoidea vel ovata, integra, $13-18 \Rightarrow 6-9 \mu$. Hyphopodia mucronata non visa. Setae myceliales dispersae, rectae, simplices, obtusae, $-350 \Rightarrow 6-8 \mu$, sursum gradatim attenuatae, apice 3μ cr. Perithecia dispersa, atra, globosa, verrucosa, usque ad 140μ diam. Sporae ellipsoideae, corvulae, obtusae, 3-septatae, constrictae, atrobrunneae, $38-46 \Rightarrow 13-15 \mu$.

Hab. in foliis *Ocoteae leucoxyli*, Reservoir Road, Guaynabo, Porto Rico, Whetzel-Kern-Toro 2577 p. p. (typus in Herb. Plant Path., Univ. Cornell).

In the type collection this occurs mixed with *Meliola ocoteicola* Stev., from which it is easily distinguished by the finer mycelium and very different hyphopodia.

(572) *Meliola wismarensis* Stev. var. **brasiliensis** Hansf., var. n.

Plagulae epiphyllae, atrae, densae, usque ad 2 mm diam. Hyphae subrectae vel undulatae, oppositae lateque ramosae, dense reticulatae, cellulis plerumque $20-35 \Rightarrow 6-7 \mu$. Hyphopodia capitata opposita vel alternata, subantrorsa, recta vel curvata, $11-16 \mu$ longa; cellula basali cylindracea $2-4 \mu$ longa; cellula apicali ovata vel subglobosa, integra, $8-12 \Rightarrow 7-9 \mu$. Hyphopodia mucronata illis capitatis commixta, opposita vel alternata, pauca, ampullacea, $15-20 \Rightarrow 7-8 \mu$. Setae myceliales modice numerosae, dispersae, rectae vel subarcuatae, $-360 \Rightarrow 8-10 \mu$, apice $2-4$ -dentatae (-10μ), raro simplices acutae. Perithecia dispersa, atra, globosa, verrucosa, -220μ diam. Sporae atrobrunneae, cylindraceae vel subellipsoideae, obtusae, 4-septatae, constrictae, $36-43 \Rightarrow 16-19 \Rightarrow 14-15 \mu$.

Hab. in foliis *Solani* sp., S. Leopoldo do Sul, Brazil, Theissen Herb. Stockholm 43-b (ex Rehm, sub *M. bidentata*, typus); loc. cit. Theissen 847 (Herb. Farlow).

(573) **Masonia crescentiae** Hansf., sp. n.

Plagulae hypophyllae, tenues, effusae, leves. Hyphae subhyalinae vel dilute brunneae, 3 μ cr., rectae vel flexuosae, irregulariter ramosae, laxae reticulatae. Hyphopodia nulla. Setae myceliales (? an conidiophora) dispersae, erectae, suberectae, 1—2-septatae, simplices, usque ad 60 $\Rightarrow$ 3 μ , brunneae, sursum pallidiores et attenuatae, apice minute scabrosae. Conidia non visa. Perithecia laxae dispersa, omnino superficialia, sessilia in hyphis mycelii, atrobrunnea, depresso-globosa, levia, usque ad 100 μ diam. et 50—60 μ alt.; paries unistratosus, indistincte parenchymaticus, sursum in maturitate late apertus, haud mucoso-diffluens. Setae peritheciales nullae. Asci basales, usque ad 8, in successione maturescenti, apophysati, globosi, sessili, 8-spori, usque ad 45 $\Rightarrow$ 35 μ , tenuiter tunicati. Sporae conglobatae, ellipsoideae, atrobrunneae, leves, transverse 3-septatae, longitudinaliter 1-septatae, non vel vix constrictae, 20—25 $\Rightarrow$ 8—12 μ .

Hab. in foliis *Crescentiae* sp., Cumuto, Trinidad, Stevens 940 p. p. (typus in Herb. Farlow).

The mycelium is completely superficial and does not penetrate the host stomata, nor could any other definite evidence of parasitism be found; the leaf glands are totally enclosed by a single layer of hyphae, which may develop a complete parenchymatous coat over them. The mycelial setae are paler at the apex, and show vestiges of what may be minute conidial scars, though no conidia of any kind were found attached, nor loose amongst the mycelium.

(574) **Microcallis schizostachyi** Hansf., sp. n.

Plagulae effusae, epiphyllae, tenues, leves, dilute brunneae. Mycelium ex hyphis primariis rectis, dilute brunneis, 7—9 μ cr., cellulis plerumque 10—15 μ longis, non vel leniter constrictis, irregulariter ramosis, laxae reticulatis compositum; hyphis secundariis ramissimis et pelliculam 1—2-stratosam efformantibus, dilute brunneis vel subhyalinis, 3—11 μ crassiss. Hyphopodia, setae et conidia nulla. Perithecia pauca, laxae singulariter dispersa, atrobrunnea, depresso-globosa, usque ad 90 μ diam. et circa 60 μ alt., subinde obtuse papillata et apice obscuriora, poro apicali irregulari; paries extus hyphis reticulatis mycelii vestitus, intus hyalinus, concentrice fibrosus, fortiter compressus, totus circa 12 μ crassus, membranaceus. Setae peritheciales 5—15, in circulo uno dispositae, erectae, rectae, simplices, obtusae, septatae, atrobrunneae, circa 90 $\Rightarrow$ 7—9 μ , sursum attenuatae. Asci apophysati, basales, erecti, sessiles, recti vel curvuli, apice rotundati, haud incrassati, 8-spori, ellipsoidei vel saccati, usque ad 50 $\Rightarrow$ 15 μ . Sporae oblique 2—3-seriatae vel inordinatae, hyalinae, ellipsoideae, leves, 1-septatae, non vel vix constrictae, 15—18 $\Rightarrow$ 5—6 μ , cellulis aequalibus.

Hab. in foliis *Schizostachyi* spec., G. Boender, Java, Boedijn 1170 (BO 12425, typus).

The secondary hyphae of the mycelium are very variable in thickness; the narrower hyphae have straight walls, while the wider hyphae are often septate into subglobose cells. The form almost a continuous pellicle of 1—2 layers over the leaf, and this is continued over the outside of the perithecia, where about half-way up, a single circle of 5—15 erect setae is formed on most perithecia. There are no setae on the mycelium away from the perithecia, nor any mycelial conidia.

(575) **Phomatospora macarangae** Hansf., sp. n.

Perithecia subaggregata in areas griseas folii, plerumque hypophylla, subepidermalia, atra, punctiformia, glabra, subglobosa, usque ad 130 μ diam. et 100 μ alt. Asci fasciculati, basales, aparaphysati, cylindricei vel ellipsoidei, apice rotundati, haud incrassati, sessiles, 8-spori, usque ad $60 \div 12$ μ . Sporae 2-seriatae, hyalinae, ellipsoideae, utrinque obtusae, leves, continuae, $14-16 \div 5$ μ .

Hab. in foliis *Macarangae heudelotii*, Guinée Française, Pobequin 1999, typus in Herb. Paris.

The perithecia are scattered more or less closely on indefinite greyish areas of the leaf, not on definite leafspots, and are mostly hypophyllous. They develop as solid masses of parenchyma below the epidermis, the outer layers consisting of large, thick-walled cells which turn black, enclosing a solid mass of hyaline, delicate parenchyma, in which the asci develop from the base and gradually replace the whole centrum, leaving only the 1-2-layered outer, black wall, around the mature loculus, which opens finally at the apex by an irregular pore, without periphyses. The perithecia become more or less superficial by the disappearance of the overlying epidermis, and are connected with an extensive internal mycelium of intercellular, septate, ramosae, hyaline hyphae in the mesophyll, without haustoria in the host cells. The whole development is typical of *Pseudosphaeriales*.

(576) **Dimeriella macarangae** Hansf., sp. n.

Perithecia omnino superficialia, laxissime dispersa, atra, subglobosa vel subconoidea, usque ad 120 μ diam. et 140 μ alt., setosa; setae 8—12, erecto-patentes, rectae vel curvulae, simplices, obtusae, septatae, leves, deorsum atro-olivaceae, sursum pallidiores, usque ad $160 \div 7-8$ μ , sursum attenuatae. Paries perithecii membranaceus, unistratosus, brunneus, e cellulis angulosis 8—10 μ diam. et circa 5 μ cr. Asci in muco hyalino tenaci inclusi, aparaphysati, basales, ellipsoidei vel subcylindricei, sursum rotundati, subsessiles, 8-spori, usque ad $60 \div 12$ μ . Sporae hyalinae, clavulatae, utrinque rotundatae,

1-septatae, vix constrictae, leves, $17-20 \rightleftharpoons 4-5 \mu$, deorsum lenissime attenuatae, in asco 2—3-seriatae.

Hab. in foliis *Macaranga angolensis*, Ubangi, Bambari, West Africa, Tisserant in Herb. Paris.

The perithecia are only hypophyllous, very loosely scattered on a thin mycelium of pale brown hyphae $2-4 \mu$ thick, loosely ramifying over the leaf surface and not forming a visible and definite colony; the hyphae parasitise the leaf through the stomata, not causing leaf-spots.

(577) ***Caliciopsis elytranthicola*** Hansf., sp. n.

Ascstromata dispersa vel laxe aggregata, in summam et marginem sepalium florum ex hypostromate interno minuto producta, atra, subcylindracea, usque ad 900μ longa, in medio parte usque ad 150μ diam., deorsum in stipite solido, circa 80μ diam., et sursum in rostro elongato attenuata. Loculus ampullaceus, circa 300μ alt. et 100μ diam., sursum in canali rostri 20μ diam. attenuatus. Asci numerosi, aparaphysati, clavati, tenuissime tunicati, 8-spori, apice rotundati, p. p. circa $20 \rightleftharpoons 10 \mu$, deorsum in stipite elongato subito attenuati. Sporae inordinatae, subgloboae, dilute brunneae, leves, continuae, $5-6 \mu$ diam., episporio circa 1μ cr.

Hab. in sepalibus *Elytranthus albidus*, North Borneo, Clemens 28180-a (BO 13537, typus).

Ascomata not accompanied by pycnidia, scattered or in loose groups, arising from the edges and tips of the sepals, directly from a minute internal hypostroma, black, to 900μ long, straight, swollen in the middle to about 150μ , attenuate below into a solid stalk about 80μ diam. and above into a long rostrum 80μ diam. which is perforated by a central canal about 20μ diam. The stalk and upper wall portions are composed of parallel gelatinised dark brown hyphae, strongly adherent, in several layers, the wall in the upper part being $20-30 \mu$ thick. The loculus is at first filled with a mass of hyaline hyphae, within which the asci develop to form an imbricate columnar mass, ovoid in shape and difficult to separate out; this mass of asci fills the lower two-thirds of the loculus, the upper part and the canal of the rostrum being filled with a dark mass of discharged ascospores. The asci are very thin-walled, or perhaps merely enclosed in a membrane, at the end of a long stipe portion about 1μ thick, the sporiferous part being $15-20 \rightleftharpoons 7-10 \mu$, rounded above. Spores 8, inordinate, subglobose, becoming pale brown, smooth, continuous, $5-6 \mu$ diam., the wall about 1μ thick. No paraphyses.

(578) ***Chaetothyrium boedijnii*** Hansf., sp. n.

Plagulae epiphyllae, atrae, tenues, effusae, glabrae. Hyphae mycelii subrectae, brunneae, oppositae ramosae, reticulatae, cellulis ple-

rumque $15-20 \Rightarrow 6-7 \mu$, non vel vix constrictis, extus levibus vel indistincte granulosis. Setae myceliales nullae. Conidia nulla. Perithecia laxè dispersa, atra, depresso-globosa, usque ad 140μ diam. et $60-70 \mu$ alt., sursum subplana, in centro poro irregulari perforato; in sicco collabentia et subcupulata. Setae peritheciales usque ad 30, erecto-patentes; subrectae, obtusae, simplices, brunneae, septatae, usque ad $120 \Rightarrow 6-8 \mu$, sursum attenuatae ad $4-5 \mu$. Paries perithecii extus brunneus, parenchymaticus, deorsum in pelliculam mycelii transiens; intus hyalinus, fortiter compressus. Asci numerosi, aparyphysati, basales, clavati vel saccati, recti vel curvati, tenuiter tunicati, apice rotundati, haud incrassati, sessiles, $40-60 \Rightarrow 18-25 \mu$, 8-spori. Sporae multiseriatae vel inordinatae, hyalinae, clavulatae vel subfusoidae, utrinque obtusae, saepe curvulae, leves, transverse 3-septatae, non vel vix constrictae, $15-20 \Rightarrow 5-7 \mu$.

Hab. in foliis *Rubiacearum* spec. (? *Coffea*), Bantam, G. Karang, Java, Boedijn 1330 (BO 13376, typus).

(579) ***Polyrhizon cassipoureae*** Hansf., sp. n.

Plagulae epiphyllae, orbiculares, nigrae, usque ad 20 mm diam. Mycelium pelliculosum, tenuissimum, ex hyphis tortuosis, atrobrunneis, exhyphopodiatis, ramosis, dubie septatis compositum. Ascomata dense aggregata, rotundata, depresso-conica, glabra, atrobrunnea, radiata, mox stellatim dehiscentia; paries inferior subhyalinus, ex hyphis tortuosis compositus. Asci numerosi, erecti, cylindricei vel saccati, subsessili, sursum rotundati, 8-spori, usque ad $55 \Rightarrow 20 \mu$. Sporae 2-3-seriatae, clavulatae, 1-septatae, leniter constrictae, leves, $16 \Rightarrow 7 \mu$, cellula superiore globosa, cellula inferiore tenuiore et deorsum attenuata, diu hyalinae, denique brunnescentes.

Hab. in foliis *Cassipoureae barteri*, Oni, Nigeria, Sankey 11 (typus in Herb. Kew).

The colonies consist mainly of the closely aggregated ascomata, with little pelliculose mycelium between them; they are soon secedent, leaving a shining black spot on the leaf. There is a continuous layer of dark subcuticular mycelium 1-2 cells deep, in places extending between the host cells to the subepidermis and here passing into loose, hyaline, septate, intercellular hyphae without haustoria, sometimes penetrating down to the palisade layer. At many places the hyphae aggregate below or between the epidermal cells to form a stroma, which bursts through the epidermis and enlarges on the leaf surface to form an ascoma; each ascoma is thus anchored centrally to an internal stroma. The asci are doubtfully paraphysate.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Sydowia](#)

Jahr/Year: 1956/1957

Band/Volume: [10](#)

Autor(en)/Author(s): Hansford C. G.

Artikel/Article: [Tropical Fungi - VI. 41-100](#)