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Diagnoses Fungorum novorum Agaricalium II*).

Rolf Singer.
Instituto Miguel Lillo, Tucumán.

Polyporus princeps Sing. nom. nov.
Polyporus megaloporus Mont., Ann. Sc. Nat. IV. 1: 124. 1854 non Pers., Mycol. Eur. **2:** 88. 1825.

Pleurotus sect. **Calyptrati** Sing. sect. nov. Pileo velo pelliculari ornato; stipite fortiter reducto; tramate lamellarum irregulari, multis hyphis crassitunicatis. Typus sectionis: *P. calyptratus* (Lindb. in Fr.) Sacc.

Pleurotus sect. **Tuberregium** Sing. ex Sing. sect. nov. Sclerotio typi Pachymatis praesente. Typus sectionis: *P. tuber-regium* (Fr.) Sing.

Pleurotus subtilis (Berk.) Sing. comb. nov.
Lentinus subtilis Berk., J. Linn. Soc., Bot. **15:** 83. 1876 (published 1877).

Pleurotus fockei (Miq.) Sing. comb. nov.
Lentinus fockei Miquel, Tijdsch. v. d. Wis. en Nytuurk. Wetenschappen **5:** 188. 1852.

Pleurotus geesterani Sing. spec. nov.
Pleurotus manifeste annulatus, P. sajor-caju (Fr.) Sing. peraffinis sed sporis majoribus (7—9.2×2.2—2.8 μ, plerumque 7.5 μ longis) differt; cystidiis hyalinis vel flavis, 18—27×3—4 μ, hyphis tramatis communicantibus, tenuitunicatis vel subcrassitunicatis; cystidiolis praesentibus; cheilocystidiis versiformibus, clavatis, fusoideis, clavato-mucronatis, etc., 20—30×4.5—8 μ; fasciculis hypharum conglomeratarum hymenialium projicientium numerosis; hyphis inamyloideis, fibulatis. Lamellis confertis sed haud confertissimis usque ad annulum decurrentibus. Totus fungus albus est. Ad truncum frondosum. South Africa, Cape Prov. Humansdorp Distr., 2—XII—1949. Leg. Maas Geesteranus no. 6736 (L), typus.

Pleurotus squarrosulus (Mont.) Sing. comb. nov.
Lentinus squarrosulus Mont., Ann. Soc. Nat. **18:** 257, n. 138, 1842.

Pleurotus javanicus (Lév.) Sing. comb. nov.
Lentinus javanicus Lév., Ann. Sc. Nat. III. **5:** 118, 1846.

Panus crinitus var. **schnyderi** (Speg.) Sing. comb. nov.
Lentinus schnyderi Speg., An. Soc. Cient. Arg. **9**: 165. 1880.

Panus badius (Berk.) Sing. comb. nov.
Lentinus badius Berk., London J. Bot. **1**: 148. 1842.

Panus brevipes (Cooke) Sing. comb. nov.
Lentinus brevipes Cooke, Grevillea **14**: 12. 1885.

*) Prima series sub titulo aequali in Sydowia 2: 26—42. 1948 publicata.

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Panus inquinans (Berk.) Sing. comb. nov.
Lentinus inquinans Berk., Hooker's J. Bot. 6: 132. 1954.
Panus polychrous (Lév.) Sing.
Lentinus polychrous Lév., Ann. Sc. Nat. III. 2: 175. 1844.
Hygroaster nodulisporus (Dennis) Sing. comb. nov.
Hygrophorus nodulisporus Dennis, Kew Bull. 1953 (no. 2): 259. 1953.
Hygroaster asterosporus (Lange) Sing. comb. nov.
Omphalia asterospora Lange, Dansk Bot. Ark. 6 (5): 10. 1930.
Aeruginospora dennisiana (Sing.) Sing. comb. nov.
Hygrotrama dennisianum Sing., Sydowia **12**: 221. 1958.
Aeruginospora hymenocephala (Sm. & Hesler) Sing. comb. nov.
Hygrophorus hymenocephalus Sm. & Hesler. J. Elisha Mitch. Sc. Soc. **56**: 311. 1940.
Aeruginospora paupertina (Sm. & Hesler) Sing. comb. nov.
Hygrophorus paupertinus Sm. & Hesler, Lloydia **5**: 13. 1942.
Aeruginospora microspora (Sm. & Hesler) Sing. comb. nov.
Hygrophorus microsporus Sm. & Hesler, Lloydia **5**: 11. 1942.
Hygrocybe sect. **Unguinosae** (Herink) Sing. = Neohygrocybe sect. Unguinosae Herink, Act. Mus. Boh. Sept. Liberec. **1**: 72. 1959.
Neohygrophorus Sing. ex Sing. gen. nov.

A Camarophyllis differt sporis amyloideis. Typus generis: *Hygrophorus angelesianus* Sm. & Hesler — Quamquam subgenus Pseudohygrophorus, quod est basonymon generis Neohygrophori Sing. Lilloa **22**: 149. 1949 (publ. 1951), contineat unam solam speciem (typum) ita ut huius diagnosis latina ab auctoribus (Smith et Hesler) provista ut diagnosis generico-specifia interpretari possit, descriptionem latinam novam praesentamus ubi genus ut novum proponitur.
Neohygrophorus angelesianus (Sm. & Hesler) Sing. comb. nov.
Hygrophorus angelesianus Sm. & Hesler, Lloydia **5**: 6. 1942.
(Tricholomataceae) tribus **Lyophylleae** Kühner ex Sing. trib. nov. Basidiis granulatione carminophila instructis. Typus tribus: *Lyophyllum* Karst.
Calocybe sect. **Heterosporae** Sing. ex Sing. sect. nov. (Calocybe sect. Heterosporae Sing. sine descriptionibus latinis, 1951). Pileo pigmento incrustante ornato; sporis basidiisque mediocriter voluminosis (sporis 6.7 μ cc. longis); illis echinatis, his pro ratione magnis; epicute haud cellulari; stipite velo destituto; in silvis tropicalibus. Typus sectionis:
Calocybe heterospora Sing. spec. nov.

Pileo flavo-ochraceo ("yellow ocher", Ridgway), disco brunneo ("amber brown" Ridgway), margine extremo eburneo ("ivory yellow" Ridgway) e tegumento tenui sericeo, subopimo sed haud viscido, levi, glabro, umbilico minutissimo ornato, margine primum incurvato, ceterum convexo, 23 mm. lato; lamellis cremeis, angustis, confertissimis, adnatis; stipite ad apicem lamellis concolori et subfibrilloso,

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ceterum sordido subfibrillosoque sed glabrescente, basin versus attenuato, 29 mm. longo, 6 mm. lato ad apicem sed usque ad 3 mm. diam. angustato ad basin; rhizomorphis albis inter folia extensis, ad basin radicelliformiter adhaesis; velo nullo; carne cremea, farinolente. Sporis (6)—6.8×3.5—4.2 μ, hyalinis, ellipsoideis, fortiter asperulis, applanatione suprahilari praeditis, inamyloideis; basidiis 28—39× 7.5—9.5 μ, i. e. pro ratione longis latisque, sed haud Hygrophoracearum modo cum manifeste granulatione carminophila impletae sint; cystidiis nullis visis; epicute ex hyphis repentibus levibus (pigmento excepto) efformata, tenuissima; hypodermio ex hyphis similibus crassioribus efformato; hyphis cuticularibus pigmento pallide roseolo intracellulari nec non pigmento atrocastaneo incrustante ornatis; hyphis in tramate hymenophorali regulari cylindraceis, densis, parallelis, 2—12 μ crassis hyalinis; elementis subhymenii ramosis, densis, exiguis; hyphis omnibus fibulatis, inamyloideis. In silva tropicali Floridae (U.S.A.), Matheson Hammock, 9—XI—1942. Leg. Singer no. F 1452 C (FH), typus.

Calocybe constricta (Fr.) Kühner comb. nov.
Agaricus constrictus Fr., Syst. Mycol. **1**: 28. 1821.

Calocybe pseudoflammula (Lange) Morten Lange comb. nov.
Tricholoma pseudoflammula Lange, Dansk Bot. Ark. 8 (3): 24. 1933.

Calocybe chrysentera (Fr.) Sing. comb. nov.
Agaricus chrysenteron Bull. ?, ex Fr., Syst. Mycol. **1**: 126. 1821.

Calocybe juncicola (Heim) Sing. comb. nov.
Tricholoma chrysenteron var. *juncicola* Heim, Treb. Mus. Cienc. Nat. Barcelona, **15** (3): 101—102. 1934.

Calocybe alpestris (Britz.) Sing. comb. nov.
Agaricus alpestris Britz., Hym. Südb. 8: 4. 1891.

Calocybe naucoria (Murr.) Sing.
Melanoleuca naucoria Murr., North Amer. Flora **10**: 15. 1914.

Calocybe caucasica Sing.

Pileo vitellino brunneo-tincto vel vitellino-alutaceo-brunneolo, subglabro, sublevi, convexo, dein applanato, margine initio involuto, 10—35 mm. lato; lamellis concoloribus, ammoniaci ope sulphurescentibus, subconfertis, anguste adnexis, demum separantibus, interdum dente decurrentibus; sporis in massa albis; stipite pileo concolori vel dilutiore, glabro, subcylindraceo vel basin versus incrassato, farcto, 22—40, ×2—5 mm.; carne pallide sulphureo vel cuperficiebus concolori; odore nullo; sapore miti; consistentia carnosa. Sporis 3.3—4× 1.8—2.5 μ, levibus, inamyloideis, ellipsoideis; basidiis brevibus; cystidiis nullis; epicute pilei ex hyphis 3.3—6.6 μ latis et sphaerocystibus globosis 8—14 μ diam. efformata; hyphis fibulatis. Ad terram et herbas putridas in pratis alpinis et subalpinis. U.R.S.S.,

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Caucasus, Krasnodarsk. reg., Yatyrgvarta, 29—VII—1935, Leg. L. N. Vassilieva (LE, KAZ), typus.

Calocybe carnea (Bull. ex Fr.) Kühner comb. nov.

Agaricus carneus Bull. ex Fr., Syst. Mycol. **1**: 130. 1821.

Calocybe persicolor (Fr.) Sing. comb. nov.

Agaricus ionides var. *persicolor* Fr., Icon. Sel. **1**: 35. 1870.

Clitocybe glaucoalba (Sing.) Sing. comb. nov.

Tricholoma glaucoalbum Sing., Sydowia **2**: 28. 1948.

Clitocybe ericeticola Sing. nom. nov.

Agaricus ericetorum Bull. ?, ex Fr. Epicr. p. 73. 1838 non Fr. (1821).

Clitocybe sect. **Aberrantissimae** Sing. sect. nov. Sectioni Candidis analoga sectio sed stipite semper excentrico obliquoque (habitu pleuroidi), lignigeno, typice (in speciebus tropicalibus vel subtropicalibus) cystidiis praesentibus; tramate hymenophorali interdum non typi Clitocybarum sed magis irregulari aut hyphis subcrassitunicatis praesentibus. Typus sectionis: *C. aberrantissima* Sing.

Clitocybe sect. **Augustinenses.** Basi communi squamosa sub fasciculis carpophororum praesente; cystidiis nullis; ceterum sectionibus Candidis et Aberrantissimis analoga sectio. Typus sectionis: *C. augustinensis* Sing.

Clitocybe decembris Sing. nom. spec.

Clitocybe dicolor "(Pers. ex Pers.)" Lange *non* Pers.

Clitocybe vibecina (Fr.) Quél. sensu Konrad & Maublanc (sec. Kühner & Romagnesi).

Pileo griseofusco, margine subtiliter striatulo, demum infundibuliformi, 30—50 mm. lato; lamellis decurrentibus, pallidis vel griseolo-albidis; stipite magis sericeo quam farinoso-pruinoso ad apicem. Sporis usque ad 8 μ longis. Ceterum *C. metachroae* (Fr.) Kummer et *C. favrei* Kühn. & Romagnesi simillima species. Typus est icon Langei, Flora Agaricina Danica, pl. 38, fig. B.

Clitocybe sect. **Farinolentes** (Sing.) Sing. = *Collybia* sect. *Farinolentes* Sing., Pap. Mich. Acad. Sc. **32**: 122. 1946 (publ. 1948).

Clitocybe vulgaris Sing. spec. nov.

Pileo vix viscido, griseo-ochraceo; lamellis rotundato-adnexis vel adnato-decurrentibus, pallide cremeo-griseolis, subpallidis, latis, in junioribus irregulariter decurrentibus, mediocriter distantibus vel distantibus; stipite pileo pallidiore, anguste tubulari, initio innate sericeo-fibrilloso (longitudinaliter) sed mox glabrescente; sporis in massa, carne farinolente, mycelio — albis. Sporis 6.5—8.2×4.8—5.3 μ, membrana hyalina tenui homogenea, inamyloidea, levi instructis; basidiis tetrasporis; hyphis cuticularibus pilei pigmento-incrustatis, omnibus fibulatis; cystidiis et dermatocystidiis nullis. Ad terram prope domicilia plenumque sub arboribus. U.S.A., Mass., Cambridge, Leg. Singer (FH), typus. Haec species *Omphaliae barbularum* Romagnesi proxima est et praecipue habitu magis collybioide, pileo minus

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gelatinisato in strato cuticulari differt. Descriptio amplior in Pap. Mich. Acad. Sc. **32**: 121—122. 1946 (1948). Probabiliter *Omphalina mellea* Murr., Proc. Fla. Acad. Sc. **7**: 112. 1945 et *Collybia ignobilis* auctorum Americanorum p. p. identicae sunt, sed ad Clitocybes transfertae homonymae evadunt.

Tricholoma subgen. **Pardinicutis** Sing. subgen. nov. Fibulis praesentibus; strato cuticulari pilei ex hyphis haud intertextis atque subparallelis efformato, pileo superficialiter tomentoso-subsquamoso, haud viscido; odore debili vel nullo; sporis pro ratione maiusculis (8—10×5—7 μ); pigmento abundante prope superficiem pilei. Typus subgeneris:

Tricholoma (subgen. *Tricholoma*) sect. **Adusta** Sing. sect. nov. Pileo glabro, hygrophano, griseo, umbrino, atrofuligineo, opace fusco vel olivaceofusco; habitu carpophororum collybioide (vel subcollybioide). Typus sectionis: *T. adustum* (Murr.) Murr.

Armillariella omnituens (Berk.) Sing. comb. nov.

Agaricus omnituens Berk., Hookers J. Bot. & Kew Gard. Misc. **2**: 46. 1850.

Omphalina telmatiaea (Berk. & Cooke) Dennis ex Sing. comb. nov.

Agaricus telmatiaeus Berk. & Cooke, in Cooke, Handb. Brit. Fung. 2nd ed., p. 93, 1885.

Gerronema subgen. **Omphaliopsis** (Pilát in Kaviná & Pilát emened. Josserand) Sing. = *Pleurotus* sect. *Omphaliopsis* Pilát in Kaviná & Pilát (em. Joss.) Atlas Champ. Eur. **2**: 135. 1935. Species minutiores stipite excentrico vel subcentrali, pigmento destitutae, fibuligerae; tramate hymenophorali ex hyphis filamentosis tenuibus efformato, hyphis omnibus tenuitunicatis, in tramate hymenophorali fortiter intertextis sed mediostrato interdum regulari intercalato. Frequenter inter muscos crescentes. Typus sectionis: *Pleurotus mutilus* (Fr.) Gillet (= *Gerronema josserandii*, Sing.)

Gerronema josserandii Sing. spec. nov.

Pileo albo, depresso; lamellis albis, ochrascentibus, decurrentibus; sporis in massa albis; sporis levibus, 6.3—7.5×3.5—4.5 μ ellipsoideis, haud angularibus, inamyloideis; basidiis tetrasporis; hyphis epicutis pilei haud differentiatis, fibuligeris, inamyloideis; stipite praecipue adultorum excentrico; tramate hyalino, ex hyphis irregularibus (cuticula pilei et mediostrato nonnumquam exceptis) filamentosis, haud gelatinosis efformato. Ad Muscos praesertim supra truncos. Hollandiae, Terschelling 16—VII—1955. Leg. P. B. Jansen, det Bas (L.), typus. Est *Pleurotus mutilus* (Fr, sensu Josserand) vix Fr.

Gerronema albidum (Fr.) Sing. comb. nov.

Cantharellus albidus Fr., Syst. Mycol. 1: 319. 1821.

Gerronema sect. **Xanthophylla** (Sing.) Sing. (= *Marasmiellus* sect. *Xanthophylli* Sing. nom. subnud.) sect. nov. Hyphis fibuligeris; carne subtenacella, elas tica; pigmentis flavis vel aureis praesentibus prae-

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sertim in lamellis, raro sine pigmento flavo. Typus sectionis: *G. icterinum* (Sing.) Sing.

Gerrnonema strombodes (Berk. & Mont.) Sing. comb. nov.

Agaricus strombodes Berk. & Mont., in Mont., Syll. Gen. spec. crypt. p. 112. 1856.

Gerronema clavuligerum (Sing.) Sing. comb. nov.

Armillariella clavuligera Sing. in Singer & Digilio, Lilloa **25**: 70. 1951 (publ. 1952).

Gerronema subgenus **Quetria** Sing. subg. nov. Pigmento praesente at haud aurantiaco vel olivaceo vel rubido-castaneo; a subgenero Gerronema differt praesertim structura tramatis hymenophoralis regulari et contextu carnoso; cystidiis in tyyo praesentibus et fibulis nullis. Typus subgeneris *G. minutum* (Sing. & Digilio in Sing.) Sing.

Gerronema minutum (Sing. & Digilio) Sing. comb. nov.

Armillariella minuta Sing. & Digilio in Sing., Sydowia 8: 106. 1954.

Gerronema subgen. **Romagnesia** (Sing.) Sing. = *Omphalina* subgen. *Romagnesia* Sing., Mycologia **39**: 83. 1947.

Gerronema (subg. *Romagnesia*) sect. **Cyathiformia** Sing. sect. nov. Cystidiis nullis; fibulis praesentibus; pileo haud aurantiaco; contextu carnoso. Typus subgeneris: *G. cyathiforme* (Berk. : Curt.) Sing.

Gerronema bryogeton Sing. spec. nov.

Pileo olivaceo („tennis" M&P), convexo-applanato, centro plano vel depresso circum discum papillatum vel subumbonatum, subglabro sed in siccis s. l. subtomentoso, opaco, levi, 10—12 mm. lato; lamellis 9—10, haud intervenosis, olivaceo-flavis („banana" M&P), nonnullis furcatis, intermixtis, arcuatis, moderatim latis, decurrentibus, distantibus; stipite ad apicem lamellis concoloribus, umbrino vel brunneo basin versus, subglabro, subcurvatulo, aequali, 8.5—9.5×0.5—1 mm. Sporis 7.5—9.5—(11)×4—5.5—(6.2) μ, hyalinis, vel pallide aurantiacis, levibus, inamyloideis, applanatione levi suprahilari provisis vel destitutis, ellipsoideis, membrana homogenea instructis; basidiis aurantiacis (in alkali) 20—36×6—7 μ, tetrasporis, paucis 2—3-sporis, clavatis; cystidiis et cheilocystidiis nullis; epicute pilei ex hyphis irregulariter elongatis vel, filamentosis levissimis repentibus subhyalinis radialiter dispositis efformata; infra epicutem hyphis angustissimis vel admodum voluminosis repentibus intertextis; tramate hymenophorali regulari, subintertextis ex hyphis dense congregatis efformato; hyphis omnibus inamyloideis, nonnullis fibulatis, aliis defibulatis. Surpeficie pilei NH_4OH et KOH ope castanescente. Ad thallum Musci supra lignum in silva tropicali-montana. Bolivia, Yungas, La Paz, Nor-Yungas, Carmen Pampa, 1—II—1956. Leg. Singer no. B 811 (LIL), typus.

Gerronema postii (Fr.) Sing. comb. nov.

Agaricus postii Fr., Monogr. Hymenom. Suec. 2: 291. 1863.

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Gerronema macrosporum (Sing.) Sing. comb. nov.

Phaeomycena macrospora Sing. in Sing. & Digilio, Lilloa **25**: 176. 1951 (publ. 1952).

Gerronema venustissimum (Fr.) Sing. comb. nov.

Agaricus venustissimus **Fr.**, Monogr. Hymenom. Suec. **2**: 289. 1863.

Gerronema brevibasidiatum (Sing.) Sing.

Clitocybe brevibasidiata Sing., Ann. Mycol. **41**: 45—6. 1943.

Gerronema (subg. *Romagnesia*) sect. **Fibulae** (Sing.) Sing. = *Marasmiellus* sect. *Fibulae* Sing., Sydowia **2**: 32. 1948.

Gerronema setipes (Fr.) Sing. comb. nov. (sensu Ricken!).

Agaricus setipes **Fr.**, Syst. Mycol. **1**: 159. 1821, esp. var. acrocyaneus Fr., Icon. pl. 75, fig. 4. 1873.

Gerronema alexandri Sing. spec. nov.

A *Gerronema fibula* (Bull. ex Fr.) Sing. proxima absentia fibularum certe distinguitur. Inter Polytricha, gregatim. U. S. A., Michigan, prope Tahquamenon Falls, 23—VI—1953, leg. Singer no. N 127 (F).

Callistosporium chrysophorum Sing. spec. nov.

Pileo dilute olivaceobrunneo vel alutaceobrunneo ("light brownish olive" vel "buffy brown" Ridgway), interdeum isabellino ("isabella color" Ridgway), dein cremeoalutaceo vel isabellino ("cream buff" vel "isabella color" Ridgway), dehydratione aut isabellino auf frequentius brunneolo-ochraceo ("colonial buff" Ridgway), levi, glabro, hygrophano, levissimo in humidis, usque ad 19 mm. lato; lamellis subconcoloribus, mediocriter latis (usque ad 3.5 mm.), confertis vel subconfertis, rotundatis vel emarginatis, anguste adnexis; stipite concolori, leniter longitudinaliter innate striatulo-fibrilloso, cavo, saepe canaliculato, aequali vel subtus vel ad apicem incrassato, 34 × 4 mm. cc.; mycelio tenui. albo ad basin; velo nullo; carne subconcolori sed interiore in parte cavitatis stipitis albida; odore iucundo; sapore amaro. Sporis 4.8—5.5 × 3.7—3.9 μ, hyalinis, dein pigmento amorpho haud dissoluto melleo-aureo impletis, levibus; basidiis 20—24 × 5—6.2 μ, plerumque tetrasporis, in multis basidiis corpusculum aureo-melleum praesens; cheilocystidiis nullis; hyphis hyalinis, defibulatis. Exsiccatione lamellae brunnescunt („vinaceous cinnamon" Ridgwayi); solutionibus alkalinis fortibus pileus cinnamomeus fit, sed etiam pallescit. Ad truncum *Pini* putridum. U.S.A., Fla., Alachua Co., south of Dayville, 8—VI—1943. Leg. Singer no F 2227 (F), typus.

Lactocollybia sect. **Betrandiella** (Heim) Sing. stat. nov.

Bertrandiella Heim (ut gen.) Rev. Mycol. **24**: 192. 1959.

Lactocollybia ianthina (Heim) Sing. comb. nov.

Bertrandiella ianthina Heim, l. c.

Lactocollybia microspora Sing. spec. nov.

Habitu Marasmielli! Pileo albo, putredine tantum flavescente, levi, convexo, 5—9 mm. lato; lamellis albis, demum flavescentibus, moderatim confertis vel subconfertis, latis, angustato-adnato-sub-

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decurrentibus; stipite concolori, subcentrali vel manifeste excentrico, curvato, glabro. levi, aequali, brevi, 3—5×0.5—0.8 mm.; carne alba, immutabili, inodora. Sporis parvis: 5.5—6.5×3.8—4.8 μ, hyalinis, levibus, ellipsoideis; basidiis clavatis, 23—24.5×6—6.5 μ, tetrasporis; cheilocystidiis versiformibus, 35—42×9—10 μ, plerumque fusoideo-ventricosis vel subcylindraceis vel ampullaceis, interdum constrictis, hyalinis, contentu visibili in ammoniaco destitutis, levibus; gloeocystidiis numerosissimis ad latera aciemque lamellarum, e. gr. 24—32× 6.5—8.5 μ, saepe gloeo-vasculis communicantibus, plerumque fusoideis apice rotundatis, contentu laete aureo-luteo gaudentibus, intense azureis caerulei cresylici ope; dermatopseudocystidiis gloeocystidiis hymenialibus homologis sed frequentius maioribus (e. gr. 80—85× 10—15 μ), gloeovasculis communicantibus; dermatocystidiis haud gloeocystidioideis rarioribus, cheilocystidiis analogis sed minoribus atque minus conspicuis, hyalinis, e. gr. 27—28×5—6 μ; tramate hymenophorali pallide flavido, regulari, ex hyphis normalibus hyalinis nec non gloeovasculis efformato, omnibus parallelis vel subparallelis; tramate pilei laxe contexto cum spatiis aeriferis sed haud gelatinoso, irregulari, hyalino; hyphis omnibus hyalinis, levibus, inamyloideis, fibuligeris. Ad latus inferius trunci vetusti in silva subtropicali. Argentina, Misiones, Iguazú, Puerto Iguazú, 12—IV—1957. Leg. Singer no. M 950 (LIL), typus. — *L. cycadicolae* (Josserand) Sing. nec non facile etiam *Gymnopodi marasmioidi* Murr. affinis sed certe ab ambobus distincta species.

Leptoglossum tremulum (Schaeff. ex Fr.) Sing. comb. nov.
Agaricus tremulus Schaeff. ex Fr., Syst. Mycol. **1**: 191. 1821.

Tricholomataceae tribus **Biannularieae** Sing. (1936) ex Sing. Tramate lamellarum bilaterali in juventute; sporis amyloideis; lamellis decurrentibus; velo praesente; sporis uni-nucleatis. Genus typicum: *Biannularia* G. Beck = *Catathelasma* Lovej.

Asterotus bicolor (Mont.) Sing. ex Sing. comb. nov.
Panus bicolor Mont., Crypt. Guy. no. 329. 1855.

Stigmatolemma poriaeforme (Pers. ex Mérat) Sing., comb. nov.
Peziza anomala var. *poriaeformis* Pers. Syn. **1**: 656. 1801 ex Mérat.

Pseudoclitocybe obbata (Fr.) Sing. comb. nov.
Agaricus obbatus Fr., Epicr., p. 74, 1838.

Pseudoclitocybe oregonensis (Murr.) Sing., comb. nov.
Clitocybe oregonensis Murr. Mycologia **5**: 211. 1913.

Pseudoclitocybe coprophila (Speg.) Sing., comb. nov.
Clitocybe coprophila Speg., Bol. Ac. Nac. Cienc. Cordoba **11**: 386. 1889.

Pseudoomphalina felloides (Kauffm.) Sing. comb. nov.
Cantharellula felloides (Kauffm.) Sing., Lilloa **22**: 238. 1949 (publ. 1951).

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Pseudoomphalina intermedia (Kauffm.) Sing. comb. nov.
Cantharellula intermedia (Kauffm.) Sing. l. c.
Clitocybula abundans (Peck) Sing. ex Sing. comb. nov.
Agaricus abundans Peck Ann. Rep. N. Y. St. Mus. **29**: 38. 1878.
Clitocybula subgen. **Neocantharellula** (Sing.) Sing. n. c.
Cantharellula subgen. **Neocantharellula** Sing., Sydowia **6**: 194. 1952.
Clitocybula lacerata (Lasch) Sing. comb. nov.
Agaricus laceratus Lasch apud Fr., Epicrisis p. 97. 1838 (syn. ex clusis!).
Clitocybula aperta (Peck) Sing. comb. nov.
Agaricus apertus Peck, Ann. Rep. N. Y. State Mus. **30**: 38. 1878.
Clitocybula atrialba (Murr.) Sing. comb. nov.
Clitocybe atrialba Murr., Mycologia **5**: 207. 1913.
Clitocybula familia (Peck) Sing. comb. nov.
Agaricus familia Peck, Ann. Rep. N. Y. State Cab. **23**: 79. 1872.
Clitocybula oculus (Peck) Sing. comb. nov.
Agaricus oculus Peck, Ann. Rep. N. Y. State Cab. **23**: 84. 1872.
Clitocybula tilieti (Sing.) Sing. comb. nov. [1]).
Fayodia tilieti Sing., Ann. Mycol. **41**: 63. 1943.
Clitocybula dusenii (Bres.) Sing. comb. nov.
Panus dusenii Bres., Overs. K. Vet-Akad. Förhandl. 1900 (2): 312. 1900.
Porpoloma subgenus **Pogonoloma** Sing. subgen. nov. Margine pilei piloso. Odor inocybis bongardii. Pigmento intracellulari. Cheilocystidiis paulum vel haud evolutis. Typus: *Tricholoma spinulosum* Kühn. & Romagnesi.
Porpoloma spinulosum (Kühner & Romagnesi) Sing. comb. nov.
Tricholoma spinulosum Kühn. & Romagnesi. Bull. Soc. L. Lyon **16**: 134. 1947.
Porpoloma subgen. **Pseudotricholoma** (Sing.) Sing. = *Cantharellula* subgen. *Pseudotricholoma* Sing. Sydowia **2**: 30. 1948.
Porpoloma umbrosum (A. H. Smith & Walters) Sing. comb. nov.
Tricholoma umbrosum A. H. Smith & Walters, Mycologia **35**: 477. 1943.
Leucopaxillus cerealis (Lasch) Sing. comb. nov.
Agaricus cerealis Lasch, Linnaea **4**: 526. 1829.
Melanoleuca microcephala (Karst.) Sing., comb. nov.
Tricholoma microcephalum Karst., Hedwigia **20**: 177. 1881.
Grifola sordulenta (Mont.) Sing. comb. nov.
Polyporus sordulentus Mont., in Gay, Hist. Nat. Chile **7**: 357. 1854.
Collybia retiaria (Berk.) Sing. comb. nov.
Paxillus retiarius Berk., Hook. J. Bot. & Gard. Misc. **8**: 133. 1856.

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1) Haec et 7 transferentiae anteriores e literis prop. cl. Deightonii Regn. Veg. **14**: 39 (G/H). 1959 necessariae apparent sed cf. Sydowia **8**: 110. 1954.

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Collybia kuehneriana Sing. nom. nov.

Marasmius bresadolae Kühn. & Romagnesi, Flore anal. p. 88. 1953, non *Collybia bresadolae* Sacc & Sacc (1905).

Marasmius erythropus „Pers." sensu Bresadola pl. 496, non *Agaricus erythropus* Pers.

We refer to the original diagnose given by Bresadola (l. c.) and the material preserved under that name at the Riksherbarium in Stockholm.

Collybia konradiana Sing. nom. nov.

Collybia fuscopurpurea (Pers. ex Fr.) Kummer sensu Konrad & Maublanc, Kühner & Romagnesi (as *Marasmius*).

A *C. fuscopurpurea* (Pers. ex Fr.) sensu Persoon, Fries, (ut *Agaricus*) differt stipite brunneo-fulvo subrubescente sporisque paulum minoribus pro medio et praecipue granulis pigmenti extracellularis absentibus in carne tramateque lamellarum. Typus sub nom. *fuscopurpureae* in Herb. L conservatur.

Collybia neotropica Sing. nom. nov.

Pileo cinnamomeo in umbone, pallidiore in parte externa, albido in margine extremo, hygrophano, sulcato usque ad (sed umbone excepto) centrum, convexo, umbone lato obtuso praedito, 23 mm. lato. Lamellis sordide pallidis, subalbidis, moderate latis, subdistantibus. adnexis vel adnatis, haud intervenosis. Stipite concolori lamellis sed basin versus magis griseolo-cinnamomeo-pallido, subtiliter velutino, basin versus incrassato, 33×2.5 „mm.; mycelio basali fibrilloso sordide pallido. Contextu albido, tenui; odore *Collybiae dryophilae*.

Sporis hyalinis, inamyloideis, levibus, ellispoideis vel oblongis, 8.2—9.7×4.3—4.8 μ. Basidia clavatis tetrasporis, hyalinis, 29—32× 6.8—9.7 μ. Cystidiis nullis. Cheilocystidiis filamentosis, irregularibus, nonnumquam basin versus incrassatis vel ventricosis vel apicem versus incrassatis, plerumque basidiis angustioribus, plerumque hyalinis, saepe pluries constrictis, 2—6.5 μ latis. Tramate hyalino, regulari, hyphis filamentosis. Epicute ex hyphis tenuibus, filamentosis efformata; hyphis eis hyalinis vel dilute brunneolis, levibus vel raro subsinuose tunicatis, rarius ramulos terminales breves emittentibus qui pilositatis stipitis elementa in mentem revocant sed sunt leves, haud incrustati, Ramealium structuram haud imitant. Pilis stipitis erectis, filamentosis, nonnumquam incrassatis cheilocystidiaque in mentem revocantibus, usque ad 60 μ longis, 2.5—8.3 μ latis, hyalinis, haud incrustatis, multis apice capitato vel subcapitato gaudentibus, sed apice sat moniliformi in nonnullis pilis, capitulo semper exiguo; pilis illis totam longitudinem stipitis tegentibus. Hyphis omnibus hyalinis vel subhyalinis, inamyloideis, fibulatis, in pileo radiati, dispositis (epicute inclusa).

Ad humum inter detritum silestrem ad marginem umbrosum platationum. BOLIVIA, La Paz, Coroico (Nor-Yungas), 15-II-1956.

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Leg. Singer no. B 1173, typus, in Herbario Lilloano conservatur (LIL).

This species may be identical with one collected by Dennis and determined as *Marasmius longipes* Mont. The Australian type of *M. longipes* Mont. is also a *Collybia* of the *C. confluens* group but I am not certain whether it is the same species. At any rate, in *Collybia*, *M. longipes* would be a homonym. Dennis' material comes from Trinidad (no. 33, K).

Collybia paurospora (Sing.) Sing. comb. nov.
Marasmiellus paurosporus Sing. Sydowia **11**: 228. 1958.

Collybia fascicularis (Rick ex Sing.) Sing. comb. nov.
Marasmiellus fascicularis Rick ex Sing., Lilloa 26: 112. 1953.

Collybia urubambae Sing.

A Collybia castaneidisca et C. fasciculari differt absentia cystidiorum, a *C. subfumosa* differt sporis majoribus (9—12.5×3.5—4.1 μ). Pileo 12—53 mm. lato; stipite 23—90×1.3—7 mm. Ad detritum (folia, e. gr. Piptadeniae et ramulos) et ad humum in silva montana et subalpina tropicali. Typus ad fl. Rio Urubamba, Machu Pichu (Peru) leg. Singer (20-V-1958, no. B 3024, LIL) in altitudine 2000 m. s. n. m. Species identica a cl. Dennis sub nom. *Marasmiellus urubambae* in Sierra S. Domingo (Mérida, Venezuelae) lectus fuit (J. J. Buza & Dennis no. 1713, K) et mihi in prov. Tucumán (Quebrada de La Higuera, 25-1-1955) no. T 2097 (LIL) obvia

Collybia distoriformis (Sing.) Sing. comb. nov.
Marasmiellus distortiformis Sing. in Sing. in Sing. & Digilio, Lilloa **25**: 155. 1951. (publ. 1952).

Collybia biformis (Peck) Sing. comb. nov. **Coll**

Collybia biformis (Peck) Sing. comb. nov.
Marasmiua biformis Peck, Bull N. Y. St. Mus. **67**: 25. 1903.

Collybia domestica (Murr.) Sing. comb. nov.
Marasmius domesticus Murr., Torr. Bot. Cl. Bull **66**: 160. 1939.

Collybia sacchari (Sing.) Sing. comb. nov.
Marasmiellus sacchari Sing. in Sing. & Digilio, Lilloa **25**: 170. 1951. (publ. 1952).

Neoclitocybe Sing. gen. nov.

Marasmiellis analogum et Collybiis interdum affine sed Clitocybis Omphalinisque plerumque habitu suo simillimum genus. Epicute structura Ramealium gaudente; lammellis decurrentibus; stipite centrali, mycelio basali plerumque praesente sed interdum sparso, sub lente haud insititio.

Species typica: **N. byssiseda** (Bres.) Sing. comb. nov. (*Omphalia byssiseda* Bres. in Rick, Fung. austroam. nol 47. 1906).

Neoclitocybe subnimbata (Rick) Sing. comb. nov.
Clitocybe subnimbata Rick, Lilloa **2**: 259. 1938.

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Neoclitocybe irregularis (Rick) Sing. comb. nov.
Omphalia irregularis Rick, Lilloa **2**: 292. 1938.
Neoclitocybe substenophylla (Murr.) Sing. comb. nov.
Marasmius substenophylla Murr., Bull. Torr. Bot. Cl. **67**: 153. 1940.
Neoclitocybe nauseosa (Rick) Sing. comb. nov.
Clitocybe nauseosa Rick, Broteria **17**: 103. 1919.
Neoclitocybe nivea (Rick) Sing. comb. nov.
Clitocybe nivea Rick, Lilloa **2**: 261. 1938.
Neolitocybe omphalina (Sing.) Sing. comb. nov.
Marasmiellus omphalina (Sing., in Sing. & Digilio, Lilloa **25**: 167. 1951. (publ. 1952).
Neoclitocybe myceliosa Sing. spec. nov.

Pileo brunneo. pellucide striato sulcatoque, umbilicato-infundibuliformi, membranaceo, 7—10 mm. lato. Lamellis dilute cremeo-grisellis, subangustis, subdistantibus, decurrentibus, Stipite vitreo-fusco, apice hyalino vel subhyalino, apicem versus incrassato, glabro vel subglabro, ad basin mycelio lanato griseolo-sordido, subtili ornato. Sporis hyalinis, inamyloideis, oblongis vel late ellipsoideis, levibus, tenuitunicatis, 4—6.3×2.8—3.8 (4,5) μ. Basidiis longis, tetrasporis, 30—40×5.7—7 μ. Cystidiis nullis. Cheilocystidiis irregularibus, haud conspicuis, excrescentiis praeditis vel destitutis, basidiis juxtapositis. Hyphis epicutis pilei filamentosis sed in maculis punctiformibus sub lente visibilibus congregatis et intertextis, excrescentiis et nodulis instructis, pigmento epicellulari incrustatis. Hyphis omnibus inamyloideis, fibulatis. N. omphalinae similis est. Ad lignum emortuum in silva tropicali montana. Specimen typicum (leg. Singer no. B 1211, Rio Yariza, Nor-Yungas, La Paz, Boliviae, 16-II-1956) in Herbario Lilloano conservatur.

Neoclitocybe portentosa Sing. spec. nov.

Pileo caeruleo-atro, convexo, centro fortiter depresso, in juvenilibus saepe umbilicato aut papillato, glabro, sicco, 14—72 mm. lato. Lamellis caerulescente-griseis, acie pallescente, 6 mm. latis, vel angustioribus, i. e. mediocriter latis, confertis, arcuato-decurrentibus, Stipite azureo dein pallide caeruleo, ad basin obscure luteo, glabro, solido, centrali vel saepius subexcentrico, erecto vel curvato, 16—17×2—5 mm. Basi sub lente manifeste strigoso, sparse mycelioso, albo. Sporis hyalinis, membrana subtenui instructis, globosis vel breviter ellipsoideis, levibus, inamyloideis, 4.8—5.6×4—4.2 μ. Basidiis sublongis, 25—27×5—7 μ. Cystidiis nullis. Cheilocystidiis coralloideo-brassiciformibus Epicute structura Ramealium gaudente at debiliter evoluta, nodulis semilobatis dispersis vel congregatis ornata sed maxima e parte ex hyphis levibus vel sublevibus efformata. Tramate hymenophorali regulari vel subintertexto-subregulari; subhymenio bene evoluto. Hyphis tramatis pilei et tramatis hymenophoralis inamyloideis vel lenissime pseudoamyloideis, tenui- vel crassi-tuni-

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catis, fibulatis. Pigmento in cuticula pilei (minus evoluto in tramate) nigrescenti-viridi vel viridulo (NH_4OH, KOH), amethystino in acidis (HCl), membranas incrustante maculis vel lineis helicoideis, abundante. In palmis in silva tropicali pluviali. Bolivia, Riberalta, leg. Singer no. B 2368, 31-III-1956 (LIL), typus.

Marasmiellus subingratus (Dennis) Sing. comb. nov.
Marasmius subingratus Dennis, Trans. Brit. Mycol. Soc. **34**: 427. 1951.

Marasmiellus cubensis (Berk. & Curt.) Sing. comb. nov.
Marasmius cubensis Berk. & Curt. L. Linn. Soc. Bot. **10**: 296. 1868.

Marasmiellus pulchellus (Berk.) Sing. comb. nov.
Marasmius pulchellus Berk., Hook. J. Bot. & Kew Gard. Misc. 8: 138. 1856.

Marasmiellus eburneus (Theissen) Sing. comb. nov.
Marasmius eburneus Theissen, Brot. **8**: 55. 1909.

Marasmiellus synodicus (Kunze in Fr.) Sing. comb. nov.
Agaricus synodicus Kunze in Fr., Linnaea **5**: 507. 1830.

Marasmiellus subcoracinus (Berk. & Curt.) Sing. comb. nov.
Marasmius subcoracinus Berk. & Curt., J. Linn. Soc. Bot. **10**: 294. 1869.

Marasmiellus brasiliensis (Berk. & Mont.) Sing. comb. nov.
Marasmius brasiliensis Berk. & Mont., Ann. Sc. Nat. III, **11**: 236. 1849.

Marasmiellus rugulosus (Berk. & Curt.) Sing. comb. nov.
Marasmius rugulosus Berk. & Curt., L. Linn. Soc. Bot. **10**: 294. 1869.

Marasmiellus purpureoalbus (Petch) Sing. comb. nov.
Marasmius purpureoalbus Petch, Trans. Brit. Mycol. Soc. **31**: 37. 1947.

Marasmiellus purpureus (Berk. & Curt.) Sing. comb. nov.
Marasmius purpureus Berk. & Curt., J. Linn. Soc. Bot. **10**: 299. 1869.

Marasmiellus luteus (Dennis) Sing. comb. nov.
Micromphale luteum Dennis, Trans Brit. Mycol. Soc. **34**: 458. 1951.

Marasmiellus epochnous (Berk. & Curt.) Sing. comb. nov.
Marasmius epochnous Berk. & Curt., in Berk. & Br., J. Linn. Soc., Bot. **14**: 41. 1873.

Marasmiellus concolor (Berk. & Curt.) Sing. comb. nov.
Marasmius concolor Berk. & Curt., J. Linn. Soc. Bot. **10**: 299. 1869.

Marasmiellus devenulatus Sing. spec. nov.

Pileo albido vel arenicolori ("Cuban sand" M & P), profunde sulcato, glabriusculo vel paullum subtomentoso, ostreato, convexo, 5—132 mm. lato. Lamellis concoloribus ("polo tan" M & P) vel pallidioribus, distantibus vel distantissimis, haud intervenosis, latius-

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culis, integris sed nonnullis interdum furcatis, intermixtis. — Stipite concolori, exiguo, curvato, primum centrali vel subcentrali dein excentrico vel laterali et inconspicuo, fibrilloso in juvenilibus, insititio, 2×1 mm. — Cortexto albo, inodoro. — Sporis oblongis subclaviformibus, levibus, hyalinis, inamyloideis, 9.5—13.2×4—4.8 μ. Basidiis 29×5.5 μ vel minoribus, Cystidiis in juvenilibus absentibus, vel inconspicuis, dein manifestis sed paucis sparsis praesentibus, ventricosis, integris, hyalinis, levibus, tenuitunicatis, facile collabentibus, haud incrustatis, 33—41×9—13 μ. Cheilocystidiis brassiciformibus vel furcato-diverticulatis, stramineo-hyalinis. Elementis epicuticularibus pilei irregularibus, versiformibus, diverticulatis. Hyphis laxe dispositis in pileo, radiatim filamentosis et vere gelatinosis prope subhymenium ubi irregulares sunt atque totis tenuibus, hyalinis (sed in epicute stramineohyalinis), in subhymenio haud gelatinascentibus, fibulatis. Ad stipulos ligneos in silva pluviali gregatim. Bolivia, Beni, Vaca Diez, Riberalta, 1-IV-1956. Leg. Singer no. B 2417 (LIL) typus. — A. M. distantifolio lamellis haud intervenosis differt.

Marasmiellus gossypinulus (Speg.) Sing. comb. nov.

Agricus gossypinulus Speg., Bol. Acd. Nac. Cienc. Cordoba **11**: 9. 1887.

Marasmiellus sectio **Distantifolii** Sing. sect. nov. Tramate gelatinoso Species typica: *M. distantifolius* (Murr.)

Marasmiellus distantifolius (Murr.) Sing. comb. nov.

Scytinotus distantifolius Murr., N. Amer. Flora **9**: 239. 1915.

Marasmiellus sect. **Candidi** (Bat.) Sing. stat. nov., comb. nov.

Marasmius, subseries *Candidi* Bat., Mar. Eur. p. 27. 1919.

Marasmius dealbatus (Berk. & Curt.) Sing. comb. nov.

Marasmius dealbatus Berk. & Curt., J. Linn. Soc. Bot. **10**: 294. 1869.

Marasmiellus sprucei (Berk.) Sing. comb. nov.

Heliomyces sprucei Berk., Hook. J. Bot. & Kew Misc. 8: 134. 1856.

Marasmiellus tetrachrous (Sing. in Sing. & Digilio) Sing. comb. nov.

Collybia tetrachroa Sing. in Sing. & Digilio, Lilloa **25**: 52. 1951 (publ. 1952).

Marasmiellus saccharophilus (Speg.) Sing. comb. nov.

Omphalia sacchorophila Speg., Bol. Acad. Nac. Cordoba **28**: 287. 1926.

Marasmiellus stenophyllus (Speg.) Sing. comb. nov.

Marasmius stenophyllus Mont. Ann. Sc. Nat. IV, **1**: 116. 1854.

Marasmiellus pruinosulus (Murr.) Sing. comb. nov.

Marasmius pruinosulus Murr., North Amer. Flora 9: 258. 1915. Subtribus **Oudemansiellinae** Sing. subtrib. nov. (*Tricholomataceae*, trib. *Marasmieae* Fayod). Sporis hyphisque inamyloideis; elementis epicutis inamyloideis, trichodermium vel stratum hymeniforme formantibus, rarius diverticulatis et hyphosis et repentibus; sporis

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plerumque subisodiametricis vel globosis, appendice hilari saepe majusculo; cystidiis plerumque manifestis ad latera lamellarum. Stipite haud manifeste insititio sed frequenter radicante. Genus typicum: *Oudemansiella* Speg.

Oudemansiella subgenus **Xerula** (Maire) Sing. stat. nov.

Xerula Maire (ut genus), Publ. Junta Cienc. Nat. Barcelona, p. 66. 1933.

Oudemansiella pilosa (Rick) Sing. comb. nov.

Lentinus pilosus Rick, Lilloa **2**: 310. 1938.

Oudemansiella macracantha Sing. spec. nov. Ab *Oudemansiella steffenii* sporis echinatis, spinis 4—5.5 μ longis differt. Bolivia, Pando, Madre de Dios, Las Piedras, leg. Singer no. B 2525 (ILI), 5-IV-1956, typus.

Oudemansiella kuehneri (Romagnesi) Sing. comb. nov.

Mycenella kuehneri Romagnesi, Bull. Soc. Mycol. Fr. **56**: 65. 1940.

Xerulina Sing. gen nov. (Tricholomataceae). Epicute pilei floccoso-diffracta, trichodermica, subpulverulenta, aurantiaco-, flavo-, vel olivaceopigmentata. Ceterum cum genere Oudemansiella subgen. Xerula congruens. Species typica: *Xerula chrysopepla* (Berk. & Curt.) Sing.

Xerulina chrysopepla (Berk. & Curt.) Sing. comb. nov.

Lentinus chrysopeplus Berk. & Curt., J. Linn. Soc. Bot. **10**: 301. 1869.

Xerulina lachnocephala (Pat.) Sing. comb. nov.

Collybia lachnocephala Pat., Bull. Soc. Mycol. Fr. **18**: 299 bis. 1902.

Xerulina verruculosa (Sing.) Sing. comb. nov.

Xerula verruculosa Sing., Rev. Myc. **18**: 6. 1953.

Mycenella margaritispora (Lange) Sing. comb. nov.

Mycena margaritispora Lange, Dansk Bot. Ark. **5**: 37. 1914.

Pseudohiatula callistosporoides Sing. spec. nov.

Pileo flavo vel aureo, dein fulvo-maculato, 3—35 m. lato; lamellis flavidis, subconfertis, latiusculis, haud ventricosis, rotundato-adnexis vel subliberis; stipite lamellis concolore, demum fulvescente, 27—29×1.5—4 mm., mycelio basali pallido; carne subconcolori, carnosa vel carnoso-subgelatinosa, haud revivescente, immutabili, inodora. Sporis 6.8—8×3.5—4.2 μ, hyalinis, dein rubido-fulvescentibus in membranis aut in parte interna aut in ambobus, levibus, inamyloideis, depressione suprahilari destitutis; basidiis tetrasporis, 20—21×4.5—5 μ; cystidiis numerosis eis epicutis pilei analogis; epicute pilei hymeniformi, ex elementis clavato-subvesiculosis (20—21×9—11 μ) et dermatocystidiis ventricosis, ampullaceis, plerumque rubidofulvescentibus in KOH et in ammoniaco sed flavidis in acidis (48—94×11—17.5 μ) efformata; hypodermio gelatinoso hyalino, intertexto tramate hymenophorali bilaterali; hyphis carnis pilei partim subgelatinosis (praecipue prope lamellas); elementis cystidiformibus ad apicem stipitis hyalinis vel fuslvescentibus, 40—75×13—14 μ vel

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angustioribus; hyphis in basi subpseudoamyloideis fibulatis. Ad truncum *Alni jorullensis* var. *spachii* in silva montana. San Agustin, Taficillo, Sierra de San Javier, Tucumán, Argentina. Leg. Singer no. T 3196 (LIL), 7-I-1959, typus.

Subtribus *Marasmiinae* Sing. (tribus *Marasmieae* Fayod, *Tricholomataceae*). Elementis epicuticularibus, sporis, hyphis haud omnibus inamyloideis formis reductis (hymenophoro carentibus) exceptis. Genus typicum: *Marasmius* Fr.

Crinipellis micropilus (Reichardt) Sing. comb. nov.

Marasmius micropilus Reichardt, Verh. Zool.-Bot. Ges. Wien **16**: 375. 1856.

Crinipellis pseudoarachnoides (Dennis) Sing. comb. nov.

Marasmius pseudoarachnoides Dennis, Trans. Brit. Myc. Soc. **34**: 425. 1951.

Crinipellis sarmentosus (Berk.) Sing. comb. nov.

Marasmius sarmentosus Berk., Hook. J. Bot. **5**: 2. 1846.

Crinipellis actinophorus (B. & Br.) Sing. comb. nov.

Marasmius actionophorus Berk. & Br., J. Linn. Soc., Bot. **14**: 39. 1873.

Chaetocalathus hispidus (Mass.) Sing. comb. nov.

Trogia hispida Mass., Kew Bull. f. 1901: 162. 1901.

Lachnella pulchra (Berk. & Br.) Sing. comb. nov.

Cyphella pulchra Berk. & Br., J. Linn. Soc., Bot. **14**: 74. 1875.

Palaeocephala Sing. gen. nov.

Characteribus eis Gloiocephalae gaudentibus, sed cystidiis hymenialibus destitutae et crinibus carentes fructificationes quae exiguae, foliicolae, palaeotropicae sunt. Species typica: **Palaeocephala cymatelloides** (Dennis & Reid) Sing. comb. nov. = *Marasmius cymatelloides* Dennis & Reid, Kew Bull. f. 1957: 292. 1957.

Subtribus **Myceninae** Sing. subtrib. nov. (*Marasmieae* Fayod, *Tricholomataceae*). Sporis amyloideis vel rarius inamyloideis; hyphis pseudoamyloideis vel inamyloideis; cystidiis praesentibus vel absentibus; semper inamyloideis; epicute numquam pseudoamyloidea; hyphis in formis heterothallicis fibuligeris; tramate haud revivescente; hymenophoro plerumque bene evoluto et lamelloso vel tubuloso. Genus typicum: *Mycena* (Pers. ex Fr.) S. F. Gray.

Hemimycena rickenii (A. H. Smith) Sing. comb. nov.

Mycena rickenii A. H. Smith, North Amer. Spec. Mycena, p. 158. 1947.

Hemimycena delicatella (Peck) Sing. comb. nov.

Agaricus delicatellus Peck, Ann. Rep. N. Y. State Mus. **30**: 39. 1878.

Hemimycena angusta Sing. spec. nov.

Pilei cylindrico albo, 3 mm. alto, 1.5 mm. lato, acute papillato; lamellis minime evolutis; hymenio sublevi, albo; stipite albo, subtili-

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ter piloso sub lente ad basin et pilis aliis substrato appressis, haud viscido, filiformi, 12×0.1 mm. ad apicem, 0.2 mm. lato ad basin; carne subnulla, inodora. Sporis 8—8.5×3.3—3.7 μ, fusoideis, levibus, inamyloideis, contentu oleaginoso impletis, tenuitunicatis; basidiis clavatis, hyalinis, atrolilaceis in caeruleo cresylico, plerumque tetrasporis, 16—25×4.8—6.2 μ; cystidiis nullis visis. Tramate hymenophorali subnullo; tramate pilei ex hyphis tenuissimis vel sublatiusculis (usque as 12 μ diam.) densissimis et compacte conglomeratis sed parallelis vel subparallelis, inamyloideis, fibulatis efformato; epicute pilei cutem formante, hyphis 1.5—2 μ latis, e papilla ad marginem verticaliter subparalleleque decurrentibus, diverticulatis (diverticulis 1.2—2.8×0.3—0.5 (1.3) μ), inamyloideis. Ad folia arboris dicotyledonum, probabiliter Ilicis. Bolivia, Yungas, La Paz, Nor-Yungas, Cotapata, 3000 m. alt. 28-I-1956, leg. Singer nol B 631 (LIL) typus. — Haec species inter affines (*H. crispata* etc.) unica insignisque forma pilei et habitatione.

Hemimycena epibiotica Sing. spec. nov.

Pileo alutaceo (M & P 11-K-7), subaurantiaco-ochraceo-tincto, campanulato, papillato, glabro. pellucide striato sulcatoque, 6×6 mm.; lamellis alutaceis, latioribus quam longis. arcuatis, profunde decurrentibus, distantibus (9—10); stipite alutaceo, glabro, filamentoso, aequali, haud viscido, anguste cavo in maturitate, 26×0.5—0.8 mm., ad basin frustulis minimis incrustato sed vix fibrilloso; carne exigua, fragili, inodora. Sporis 6—8.2×4—5.5 μ, ellispoideis, hyalinis, contentu refringente repletis, inamyloideis; basidiis 25—26×7—7.5 μ, tetrasporis; cystidiis cheilocystidiisque nullis. Epicute pilei ex elementis hyphosis elongatis repentibus efformata, appendicibus irregularibus diverticulatis et interdum appendicibus diverticulatione secundaria ornatis; hyphis superficialibus stipitis item ornamentatis vel elementis exiguis ramosis ornatis sed pilis destitutis; hyphis stipitis ab eis pilei haud differentibus. parallelis, interioribus subochraceis (KOH), in pileo latioribus quam in stipite; hypodermio cellulari absente; tramate hymenophorali flavido angustissimo, regulari, ex hyphis mediocriter latis efformato; hyphis omnibus haud gelatinosis, fibulatis, subinamyloideis vel minime pseudoamyloideis. Ad lignum detritum et excrementa insectorum lignivororum in cavitatibus ligni trunci in aquam delapsi. Bolivia, Yungas, La Paz, Nor-Yungas, Charobamba, 13-II-1956. Leg. Singer no. B 1146 (LIL), typus.

Hemimycena albida (Murr.) Sing. comb. nov.

Gymnopus albidus Murr., Bull. Torr. Bot. Cl. **66**: 32. 1939.

Hemimycena subnigricans (Murr.) Sing. comb. nov.

Marasmius subnigricans Murr., Bull. Torr. Bot. Cl. **67**: 152. 1940.

Hemimycena longicystis Heim spec. nov.

Pileo albo, semiglobose-campanulato, 6—20 mm. lato. Hymenophoro separabili, lamellis distantibus (e. gr. 12), undulatis, venoso-

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anastomosantibus, adnato-decurrentibus; stipite longo. Sporis 12.5—15.5×4.5 μ, lacrimiformibus-elongatis, irregularibus; basidiis tetrasporis; cystidiis usque ad 100 μ longis, apice longo cylindraceo angusto praeditis; cuticula pilei paullum differentiata. In olla bambusae et ad terram circumdantem Leg. Stehle no. 5 (P), 28-V-1936. Etiam a cl. Dennis in ins. Trinidad nec non a me in Bolivia collectus fuit. Ab auctore descriptione gallica sub *Mycena* (*Hemimycena*) publicata et Dennisio *Collybia*! Typus est collectio boliviana (Charobamba, Nor-Yungas, 30-I-1956, Singer B 707 (LIL).

Hemimycena truncicola Sing. spec. nov.

Pileo albo, rugoso-sulcato, umbilicato vel subumbilicato, campanulato-subpapillato in juvenilibus, dein convexulo, glabro; lamellis bene evolutis, albis, subdecurrentibus, distantibus; stipite albo, fuscescente et umbrino basin versus, levi, minute pubescente, glabrescente, ad basin stellatim fibrilloso, 10—40×0.2—0.3 mm. Carne exigua, inodora. Sporis 7—9.5×3.5—5 (5.5) μ, hyalinis, levibus, contentu oleaginoso abundante impletis, inamyloideis; basidiis tetrasporis, 18—28×7—7.5 μ; cystidiis nullis; cheilocystidiis numerosis, cylindraceo-filamentosis vel irregulariter tumescentibus, excrescentiis praeditis vel diverticulatis vel furcatis, interdum latera lamellarum invadentibus; pubescentia stipitis pilis erectis consistente; pilis 27—63×4—8.5 μ, plerumque subulatis, subacutis vel acutis, interdum subdiverticulatis. Hyphis pilei hymenophorique inamyloideis, stipitis partim subrubidis iodi ope (subpseudoamyloideis), constanter fibulatis. Elementis epicutis pilei diverticulatis. Ad lignum truncorum Dicotyledonum partim adustum. Argentina, Tucumán, Ciudad Universitaria (Sierra de San Javier), 12-I-1957. Leg. Singer no. T 2872 (LIL), typus.

Hemimycena angustispora (Josserand ex Orton) Sing.

Mycena angustispora Josserand ex Orton, Trans. Brit. Myc. Soc. **43**: 305. 1960.

Mycena sotae Sing. spec. nov.

Pileo albo vel griseo-fusco, partim caeruleo, convexo, dein centro applanato, papillato vel depapillato, sed papilla semper paullum manifesta, subglabro, margine striato, 6—7.5 mm. lato; lamellis albis vel albidis, confertiusculis, liberis; stipite pileo concolori, pubescente vel piloso debiliter ad apicem, fortiter ad basin, insititio ad discum latum sulcatum pulverulentum griseum basalem; carne tenui, inodora, concolori superficiebus. Sporis 6.8—8.2×5—5.5 μ, ellipsoideis, raro oblongis, levibus, tarde leviterque amyloideis, hyalinis in KOH; basidiis 15—17×6—6.5 μ, tetrasporis; cystidiis nullis; cheilocystidiis 23—35×15—18 μ, echinulatis, vesiculosis (setulis 1—1.5 μ altis); epicute pilei consistente sphaerocystibus quae saepe separantur cellulis hypodermü atque inter se, demum multis liberis, echinulatis ut cheilocystidia, globosis vel rotundato-triangularibus, succo fusco

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impletis; pilis stipitis ventricosis in tertia inferiore, ampullaceis, ad apicem longe cylindraceis. hyalinis vel fuscis, echinulatis, 55—310× 6—20 μ, apex 3.5—7 μ diam.; hyphis haud gelatinosis, fibuligeris. Ad lignum sub arbustis Dicotyledonibus. Bolivia, Yungas, La Paz, Nor-Yungas. Las Ciénagas, 10-II-1956. Leg. Singer & E. R. de la Sota no B 1073 (LIL), typus. — Species insignis correlatione characterum *M. osmundicolae* et *M. discopodae*; in exsiccatore brunnescit! Species collectori et amico Elias Ramón de la Sota, botanico tucumanensi dedicata.

Mycena squamulosa Sing. spec. nov.

Pileo cylindrico-oblongo ut in Coprinis, dein subexpanso, campanulato papillatoque, glabro sed disco furfuraceo Coprinorum modo, longe subtiliter pectinato, mox rimoso Inocybarum modo, margin frequenter crenato, sicco, brunneolo (inter „Cookie" et „Malay" M&P), 15—20 mm. lato; lamellis albis, ascendentibus vel subascendentibus, confertis dein subconfertis, liberis; stipite albo, pruinato, aequali, 20—30×1.5—2 mm.; carne alba, tenuissima in pileo, inodora. Sporis 7.5—9×3.7—4.5 μ, caeruleo-amyloideis, hyalinis in KOH, cylindraceis vel ellipsoideo-oblongis vel ellipsoideis, interdum subcurvulis, tenuitunicatis, levibus, guttula una vel guttulis duobus impletis; basidiis 15—18.7×5.5—7.5 μ, exiguis angustisque, setrigmatibus uno vel duobus vel tribus ornatis, ad basin fibuligeris vel defibulatis; cystidiis nullis, sed cheilocystidiis numerosis (et uno alioque ad latera lamellarum scandente, ventricosis in parte inferiore, apice appendice longo filamentoso acuto vel obtuso ornatis, numerosis vel dense congregatis, hyalinis, 27—65×5—7 μ; subhymenio ex elementis minutissimis consistente; tramate hymenophorali regulari, ex elementis voluminosis longis efformato; epicute pilei ex elementis repentibus catenatis (cellulis longis cylindraceis et aliis subisodiametricis) levibus consistente, cellulis terminalibus plerumque breviter cylindraceis, ampullaceis, capitatis, clavatis etc. et ibidem parietibus interdum crassitunicatis observatis; hypodermio ex elementis repentibus sat voluminosis elongatis efformato; hyphis omnibus carnis et hymenophori pseudoamyloideis, fibulis sparsis munitis. Ad *Tipuanae* corticem vivae gregatim. Argentina, Tucumán, Capital, 4-I-1959. Leg. Singer no. T 3175 (LIL), typus. — An cum *Leptomycete squamuloso* Mont. identica species? Huius typus in Herbario P haud conservatur, sed facile hic spectat.

Mycena alexandri Sing. spec. nov.

Mycena psammicola (Berk. & Broome) Sacc. sensu Alexander H. Smith non Berk. & Br.

Carpophoris galerinoideis (colore *Galerinae leavis*); pseudocystidiis destitutis, fragilibus; cheilocystidiis echinulatis. Ad acus pini. USA, Michigan, 23-IX-1911 leg. Kauffman (MICH) est typus (*M. psammicola*, det. Smith).

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Mycena palmivora Sing. spec. nov.

Pileo centro avellaneo, margine roseolo, umbilicato, convexo, margine substriato, neque hygrophano nec viscido, pubescente in juvenilibus, glabrescente in maturis, margine stricto in juvenilibus, 22 mm. lato vel minore; lamellis candidis, subventricosis, sinuatis, subdistantibus, adnexed, mediocriter latis vel latiusculis; stipite albo, pubescente praesertim prope basin, ad basin albo-strigoso, aequali, 30×2.2 mm. Sporis $6-7.8 \times 4.3-6$ μ, levibus, ellipsoideis, amyloideis; basidiis tetrasporis; $38-42 \times 7.8-8.3$ μ; pro ratione longis; cystidiis fusiformi-ventricosis, rarius late cylindraceis vel ampullaceis, hyalinis, $47-68 \times 9-14.3$ μ; epicute pilei e dermatocystidiis densissimis sed haud stratum hymeniforme formantibus efformata; dermatocystidiis pilei cylindraceis, rarius ampullaceis, hyalinis, levibus, raro basi ventricosa praeditis, $8-47 \times 3.5-5$ μ; hypodermio cutem efformante, ex hyphis levibus elongatis usque ad 15 μ latis efformatam; hyphis omnibus pseudoamyloideis, fibulatis; hymenio in solutione ammoniaca crystalla Conocybis tenerae modo formante. Ad folia delapsa Sabali palmetto in silva. — USA, Florida, Highlands Hammock State Park, 11-VIII-1942. Leg. Singer no. F 158 (F sub nom. *Mycena sabali* Murr.), typus. — Siccus in herbario totus cinereus, pruinosus.

Mycena viridula (Berk. & Cooke) Sing. comb. nov.

Laschia viridula Berk. & Cooke, Grevillea 19: 105. 1891.

Mycena holoporphyra (Berk. & Curt.) Sing. comb. nov.

Agaricus holoporphyrus Berk. & Curt., J. Linn. Soc., Bot. **10**: 284. 1869.

Mycena griseorete Sing. spc. nov.

Pileo atropurpureo („Maracaibo" M&P), conico-expanso, interdum subumbonato, subumbilicato vel truncato in centro, longe radiatim pellucide striato, glabro, 10—17 mm. lato; lamellis griseis („Kaffa" M&P), sed albis in vicinitate acieis, subangustis, confertis vel subconfertis, dense intervenosis, adnatis, dente decurrente; stipite lamellis concolori, obscuriore ad apicem, ad basin albido-pubescente, $48-51 \times 1-1.5$ mm. sed ad apicem usque ad 3.5 mm. incrassato; carne odore raphanaceo praedita. Sporis $7-8.5 \times 4.5-4.8$ μ, hyalinis, levibus, tarde subtiliter amyloideis; basidiis $23-33 \times 7-8.3$ μ, tetrasporis; cystidiis nullis; cheilocystidiis $30-45 \times 9-13$ μ, ventricosis, ampullaceis, ampullaceo-subcapitatis vel gradatim apicem versus attenuatis, obtusis, raro furcatis; epicute ex hyphis hyalinis levibus, filamentosis, repentibus efformata, tenui; hyphis hypodermii in ammoniaco lilaceo-amethystinis, voluminoso-inflatis, frequenter brevissimis, cutem formantibus; hyphis omnibus fortiter pseudoamyloideis, fibulatis. Ad folia dejecta in plantatione Coffeae arabicae. Bolivia, Yungas, La Paz, Nor-Yungas, Coroico, 27-I-1956. Leg. Singer no. B 566 (LIL), typus.

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Mycena coccinea (Murr.) Sing. comb. nov.
Omphalina coccinea Murr., North Amer. Flora **9**: 350. 1916.
Mycena drepanocladi (Sing.) Sing. comb. nov.
Hemimycena drepanocladi Sing., Ann. Mycol. **41**: 123. 1943.
Mycena sectio **Sacchariferae** Kühner sect. nov. Species disco basali destitutae aut praeditae; pileo haud gelatinoso in cuticula, epicute cum multis cellulis inflato-vesiculosis diverticulatis et frequenter acanthophysoideis. Typus: *M. tenerrima* (Berk.) Sacc.
Mycena sectio **Citricolores** Sing. sect. nov. Stipite disco basali destituto, insititio vel subinsititio; elementis epicutis pilei diverticulatis; tramate pilei gelatinos;o cheilocystidiis echinulatis (acanthophysoideis), hyphis gelatinosis inamyloideis; hyphis non gelatinosis fortiter pseudoamyloideis; carpophoris omphalioideis; sporis ellipsoideis vel oblongis, minoribus, inamyloideis. Generatio asexualis ad folia vigentia ubi stilboideae fructificationes (propagula) formantur. Typus: *M. citricolor* (Berk. & Curt.) Sacc.
Mycena sectio **Radiatae** Sing. sect nov. Stipite disco basali destituto, insititio vel subinsititio, pigmento caeruleo nullo; epicute pilis longis ornata vel catenulis elementorum breviusculorum consistente; cheilocystidiis absentibus vel haud echinulatis; hyphis saepe fibulis inconstantibus praeditis; carpophoris mycenoideis vel mycenoideo-pluteoideis; hyphis pseudoamyloideis vel inamyloideis; sporis amyloideis, ellipsoideis vel cylindraceis. Ad ligna vel humum lignosum in tropicis vel subtropicis. Typus: *M. radiata* (Dennis) Sing.
Mycena subgen. *Glutinipes* subsectio **Fuliginellae** A. H. Smith (primitus ut sectio sed sine diagnose). Pileo viscido; species solitariae vel gregariae humicolae. Typus subsectionis: *M. vulgaris* (Pers. ex Fr.) Kummer.
Mycena subgen. *Glutinipes* subsect. **Caespitosae** A. H. Smith (primitus ut sectio sed sine diagnose) Pileo viscido; species caespitosae vel dense gregariae, lignicolae. Typus subsectionis: *M. texensis* A. H. Smith.
Mycena sect. **Aciculae** Kühner (ut subsectio sed sine diagnose latina). Stipite structura sua a tramate pilei zona heterogenea separato; carpophoris mycenoideis; lamellis primum plus minusve ascendentibus, adnatis vel dente decurrentibus, haud ventricosis; pigmento microscopice flavo, macroscopice aurantiaco vel rubro; cheilocystidiis et plerumque etiam plenrocystidiis praesentibus; hyphis epicuticularibus pilei diverticulatis; tramate hymenophorali subregulari; hyphis oleiferis laticiferis similibus nullis vel paucis et exiguis. Typus sectionis: *M. acicula* (Schaeff. ex Fr.) Kummer.
Mycena sect. *Hiemales* subsect. **Insititiopedes** Sing. subsect. nov. A stirpibus sectionis Hiemalium ceteris differt stipite insititio radicellis destituto nec pseudorhiza praedito. Typus subsectionis: *M. tucumanensis* Sing.
Hydropus sectio **Mycenoides** Sing. sect. nov. Sporis inamyloideis a

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sectione Hydropode differt. Typus sectionis: *H. mycenoides* (Dennis) Sing.

Hydropus mycenoides (Dennis) Sing. comb. nov.

Collybia mycenoides Dennis, Trans. Brit. Mycol. Soc. **34**: 439. 1951.

Hydropus aristoteliae (Sing.) Sing. comb. nov.

Mycenella aristoteliae Sing., Arkiv för Botanik 2. **4**: 381. 1959.

Hydropus sect. **Floccipedes** Kühn. (ut subsectio Mycenae sine diagnose latina) ex Sing. sect. nov. Sporis amyloideis vel inamyloideis; hyphis debiliter pseudoamyloideis; hyphis pilei epicutis levibus, elongatis, pigmento frequenter intracellulari praesente in epicute; pleurocystidiis et cheilocystidiis praesentibus. Typus sectionis: *M. floccipes* (Fr.) Kühner.

Hydropus scabripes (Murr.) Sing. comb. nov.

Prunulus scabripes Murr., North American Flora **9**: 331. 1916.

Hydropus sect. *Floccipedes* subsectio **Spuriae** Kühn. (ut *Mycena* sect. *Mycenopsis* subsect. *Spuriae*, Enc. Mycol. **10**: 515. 1938) Characteribus sectionis Floccipedes; sporis amyloideis. Typus subsectionis: *H. scabripes* (Murr.) Sing.

Hydropus sect. *Floccipedes* subsectio **Floccipedes** Kühn. (ut *Mycena* subgen. *Paramycena-Hemimycena* sect. *Genuinae* subsectio *Floccipedes*, l. c. p. 538) Characteribus sectionis Floccipedes; sporis inamyloideis. Typus subsectionis: *H. floccipes* (Fr.) Sing.

Hydropus floccipes (Fr.) Sing. comb. nov.

Agaricus floccipes Fr., Epicrisis p. 87. 1838 (sensu Kauffman).

Hydropus subalpina (Höhnel) Sing. comb. nov.

Mycena subalpina Höhnel, Fragm. XV, p. 275. 1913 (sensu Kühner).

Fayodia subgenus **Myxomphalia** Kühn. (ut subdivisio Spuriarum *(Mycena)* sine hierarchia definita, Enc. Mycol. **10**: 535. 1938) ex Sing. Pleurocystidiis frequenter praesentibus; cheilocystidiis numerosis; sporis subcrassitunicatis sed apparenter membrana homogenea praeditis, levibus vel subasperulis; lamellis decurrentibus. Typus subgeneris *F. maura* (Fr.) Sing.

Fayodia subgenus **Heterosporula** Sing. subgen. nov. Sporis membrana heterogenea vel haud levi praeditis, inamyloideis. Typus subgeneris: *F. pseudoclusilis* (Josserand & Konrad) Sing.

Fayodia pseudoclusilis (Josserand & Konrad) Sing. comb. nov.

Collybia pseudoclusilis Josserand & Konrad, Bull. Soc. Linn. Lyon 1931, p. 4 (repr.).

Baeospora pleurotoides (Dennis) Sing. comb. nov.

Collybia pleurotoides Dennis, Trans. Brit. Myc. Soc. **34**: 455. 1951.

Baeospora brunneipes (Sing.) Sing. comb. nov.

Heimiomyces brunneipes Sing. in Sing. & Digilio, Lilloa **25**: 242. 1951 (publ. 1952).

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Baeospora pruinatipes (Sing.) Sing. comb. nov.
Heimiomyces pruinatipes Sing. in Sing. & Digilio, l. c. p. 243.
Amanita sect. **Ovigerae** Sing. sect. nov. A sectione *Vaginatae* differt sporis ovoideis vel ellipsoideis nec globosis nec subglobosis. Typus sectionis: *A. biovigera* Sing.
Amanita sect. **Roanokenses** Sing. sect. nov. Pileo stipiteque pulvere detersili obtectis. Typus sectionis: *A. roanokensis* Coker.
Volvariella fibrillosa (Bres. ex Rick. Broteria **17**: 117, 1919; Lilloa **3**: 451, 1938) Sing. comb. nov.
Volvariella pseudovolvacea (Berk. & Br.) Sing. co, b. nov.
Agaricus pseudovolvaceus Berk. & Br., J. Linn. Soc., Bot. **11**: 530. 1871.
Volvariella villosovolva (Lloyd) Sing.
Volvaria villosovolva Lloyd, Mycol. Notes 31. 1899.
Volvariella cycnopotami(a) (Berk.) Sing.
Agaricus cycnopotami(a) J. Linn. Soc., Bot. **18**: 389. 1881.
Volvariella californica (Earle) Sing.
Locellina californica Earle, Bull. N. Y. Bot. Gard. 1904: 299. 1904.
Volvariella arenaria (Pat.) Sing.
Pluteus arenarius Pat., Rev. Mycol. 13: 136. 1891.
Macrolepiota zeyheri (Fr.) Sing. comb. nov.
Agaricus zeyheri Fr., Fungi natalenses, p. 2. 1848.
Leucocoprinus birnbaumii (Corda) Sing. comb. nov.
Agaricus birnbaumii Corda, Icon. Fung. **3**: 48. 1839.
Coprinus sect. *Coprinus* subsect. **Alachuani** Sing. ex Sing. sect. nov. Hyphis epicuticularibus pilei ramoso-dichophysatoideis. Typus subsectionis *Coprinus alachuanus* Murr.
Subfam. **Psathyrelloideae** Sing. Lamellis in sectione transversali subulatis. Surperficie pilei haud pectinato-fissa; sporis in acido sulphurico concentrato pallide lividis. Genus typicum: *Psathyrella* (Fr.) Quél.
Psathyrella subgen. **Psalliotina** (Velen.) Sing. stat. nov.
Psalliotina Velen. (ut genus), Nov. Mycol. p. 155. 1939.
Psathyrella sect. **Candolleanae** Romagnesi sect. nov. Sporis minoribus 10 μ; pleurocystidiis nullis; tramate hymenophorali hyalino; carpophoris carnoso-fragilibus, velo abundante, frequenter caespitose crescentes. Species typica: *P. candolleana* (Fr.) Maire in Maire & Werner.
Psathyrella sect. **Fatuae** Romagnesi sect. nov. Sporis minoribus 11 μ; pleurocystidiis abundantibus, raro mucronatis; carne demum hyalina. *Species typica: P. pygmaea* (Quél.) Sing.
Psathyrella muricellata (Sing.) Sing. comb. nov.
Psathyra muricellata Sing., Notul. Syst. Inst. Bot. USSR 10—12: 13. 1938.
Psathyrella sect. **Typhicolae** Romagnesi sect. nov. Sporis 10 μ maiori-

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bus; pleurocystidiis nulis; tramate hymenophorali colorato pigmento membranali; lamellis subanguste adnexis. Species typica: *P. typhae* (Kalchbr.) Pearson & Dennis.

Psathyrella sect. **Hydrophilae** Romagnesi sect. nov. Sporis 11.5 µ minoribus frequenter sat minusculis; cystidiis utriformibus; tramate colorato. Species typica: *P. hydrophila* (Bull. ex Mérat) Maire in Maire & Werner.

Psathyrella sect. **Frustulentae** sect. nov. (Romagnesi ut subsectio). Sporis 6—11.5 µ longis; pleurocystidiis numerosis; carpophoris minoribus et velo fugaci. Species typica: *P. frustulenta* (Fr.) A. H. Smith sensu A. H. Smith.

Psathyrella sect. **Microrhizae** Romagnesi sect. nov. Characteribus subgeneris *Psathyrella*; tramate hymenophorali colorato; stipite pseudorhiza praedito; velo plus minusve evoluto. Species typica: *P. microrhiza* (Lasch) Konrad & Maublanc.

Psathyrella sect. **Atomatae** Romagnesi sect. nov. Characteribus subgeneris *Psathyrellae*; differt a sectione praecedente absentia pseudorhizae. Species typica: *P. prona* (Fr.) Gillet sensu Ricken.

Psathyrella sect. **Subatratae** Romagnesi sect. nov. Characteribus Psathyrel lae (subgeneris) sed velo nullo. Species typica: *P. subatrata* (Batsch ex Fr.) Quél.

Psathyrella subgenus **Cystopsathyra** Sing. subgen. nov. Vestimento velari pilei et stipitis pulverulento-farinoso, consistente e sphaerocystibus; pleurocystidiis praesentibus, late rotundatis, non muricatis. Species typica: *P. kellermanii* (Peck) Sing.

Subfamilia **Panaeoloideae** Sing. subfam. nov. Cortinacearum (Ann. Myc. 34: 339. 1936 sine diagnose latina). Ab aliis subfamiliis Coprinacearum differt sporis atris vel fuscis in acido sulphurico haud pallescentibus Genus typicum: *Panaeolus* (Fr.) Quél.

Conocybe siennophylla (Berk. & Br.) Sing. comb. nov.

Agaricus siennophyllus Berk. & Br., J. Linn. Soc., Bot. **11**: 545. 1871.

Conocybe martiana (Berk. & Curt.) Sing. comb. nov.

Agaricus martianus Berk. & Curt., J. Linn. Soc., Bot. **10**: 291. 1869.

Conocybe umbellula (Mont.) Sing. comb. nov.

Agaricus umbellula Mont., Ann. Sc. Nat. IV. 1: 100. 1854.

Conocybe sect. **Mixtae** Kühn. (primitus subsectio!) ex Sing. sect. nov. Dermatocystidiis stipitis et capitatis et non capitatis praesentibus; pilis stipitis etiam numerosis. Typus sectionis: *C. cryptocystis* (Atk.) Sing.

Conocybe sect. **Pilosellae** Kühn (primitus ut subsectio!) ex Sing. sect. nov. Stipite haud toto albo; hyphis pilosis numerosis; dermatocystidiis capitatis in stipite nullis. Typus sectionis: *C. pilosella* (Pers. ex Fr) Kühner.

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Conocybe sect. **Candidae** Kühner (primitus subsectio!). Stipite candido-dermatocystidiis stipitis nullis capitatis; hyphis piliformibus numerosis; pileo frequenter striato; pseudoparaphysibus frequenter numerosis. Typus sectionis: *C. lateritia* (Fr.) Kühner sensu Kühner.

Pholiotina sect. **Piliferae** Kühner (ut sectio generis Conocybe sed sine diagnose latina). A Pholiotina sectione Pholiotina differt absentia veli. Typus sectionis: *P. pygmaeoaffinis* (Fr. sensu Kühner) Sing.

Bolbitius tucumanensis Sing. spec. nov.

Pileo atrobrunneo dein griseolocastaneo („broncho" dein „auburn" M&P), disco albicante, glutinoso, longe denseque pectinato Coprinorum modo, campanulato margine stricto et stipite applicato, dein expanso, demum applanato, glabro, 36—44 mm. lato; lamellis brunneis (inter „Cochin" et „burnt umber" M&P), angustis, adnexis vel liberis, confertis vel confertissimis; sporis in massa brunneo-ferrugineis („cocoa", in massa densa copiosa inter „Mandalay" et „burnt umber" M&P); stipite albo, floccoso, ad apicem attenuato, 75—96 × 4—5 mm.; carne fragili, alba, tnui, inodora. Sporis 18—20.7 × 7—8.7 μ, ferrugineis, levibus, crassitunicatis, membrana complexa et poro germinativo praeditis, sporis Conocybis analogis; basidiis bi- vel tetrasporis, 18—21.5 × 14 μ; pseudoparaphysibus 13.7—18.8 × 12—14.5 μ, vesiculoso-clavatis, numerosis; cheilocystidiis e. gr. 25 × 12.7 μ, ventricosis; hyphis defibulatis. Ad fimum equinum gregatim. Argentina, Tucuman, Quebrada de la Higuera, 25-I-1955, leg. Singer no. T 2081a (LIL), typus.

Agrocybe underwoodii (Murr.) Sing. comb. nov.

Naucoria underwoodii Murr., Mycologia 4: 80. 1912.

Agrocybe sect. **Microsporae** Sing. (1936) ex Sing. sect. nov. Velo nullo, cystidiis ad latera lamellarum praesentibus aut sporis 10 μ minoribus. Typus sectionis: *A. tuberosa* (Henn.) Sing.

Agrocybe subgen **Aporus** Sing. (1936) ex Sing. subg. nov. Poro germinativo frequenter indistincto vel nullo aut sporis, si porus praesens, haud manifeste truncatis. Typus subgeneric: *Agrocybe aegerita* (Brig.) Sing. Subfamilia **Strophariodeae** Sing. (fam. *Strophariaceae*). Sporis in massa atrolilaceis, fusco-sepiaceis; sporis siccis s. l. saepe olivaceis vel linea annulari endosporiali castaneo-ruba ornatis, interdum lentiformibus. Genus typicum: *Stropharia* (Fr.) Quél.

Stropharia sect. **Stercophila** (Romagnesi ex) Sing. (primitus ut genus sed sine diagnose). Pileo stipiteque glutinosis e velo toto glutinoso-sporis grandibus. Typus sectionis *S. semiglobata* (Batsch ex Fr.) Quél.

Stropharia pendolae (Speg.) Sing. comb. nov.

Pilosace pendolae Speg. Bol. Acad. Cienc. Cord. **28**: 332. 1926.

Psilocybe sect. **Deconica** (W. G. Smith) Sing. stat. nov.

Deconica W. G. Smith (ut subgenus Agarici), Clavis Agaricorum p. 23. 1870.

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Psilocybe crobula (Fr.) Morten Lange ex Sing. comb. nov.
Agaricus crobulus Fr., Epir. p. 199. 1838.

Psilocybe goniospora (Berk. & Br.) Sing.
Agaricus goniosporus Berk. & Br., J. Linn. Soc. Bot. **11**: 541. 1871.

Melanotus ridleyi (Mass.) Sing.
Crepidotus ridleyi Mass., Bull. Misc. Inf. 1899: 169. 1899.

Melanotus cassiaecolor (Berk.) Sing. comb. nov.
Agaricus cassiaecolor Berk., Hooker, Fl. Tasmania **2**: 246. 1860.
Pholiota subgenus **Hemipholiota** Sing. ex Sing. subgenus nov. Pleurocystidiis nullis vel sparsis; chrysocystidiis nullis; typus subgeneris: *Pholiota destruens* (Brond.) Gillet.
Pholiota sect. **Albocrenulatae** Sing. ex Sing. sect. nov. Characteribus subgeneris *Hemipholiotae*; pileo viscido, squamoso. Typus sectionis: *Pholiota albocrenulata* (Peck) Sacc.

Pholiota heliocaes (Berk. & Br.) Sing. comb. nov.
Agaricus heliocaes Berk. & Br., J. Linn. Soc., Bot. 11: 544. 1871.
Pholiota sect. **Sordidae** Sing. sect. nov. Characteribus Hemipholiotae; pileo primum pellicula gelatinosa tecto, hygrophano; sporis poro minuto germinativo instructis sed apice rotundatis. Typus sectionis: *Flammula sordida* Kühn. in Kühn. & Romagnesi nom. nud. = *Pholiota oedipus* (Cooke) Orton.
Pholiota sectio **Subflammantes** Sing. sect. nov. Pileo superficie subviscida vel lubrica gaudente, floccis magnis mollibus squarroso, sed floccis pallide coloratis fugacibus ita ut pileus facile denudetur. Typus sectionis: *Pholiota subflammans* (Speg.) Sacc.
Pholiota sect. **Sericellae** (Fr.) Sing.
Agaricus tribus *Flammula* sect. *Sericellae* Fr., Hymen. Europ. p. 252. 1874.
Typus sectionis: *Agaricus scambus* Fr.
Pholiota sect. **Privignae** Sing. sect. nov. Pileo subviscido vel viscido; pellicula gelatinosa crassa praedito; pleurocystidiis ad typum metuloideum vergentibus sed interdum contentu chrysocystidiali impletis. Typus sectionis: *Pholiota privigna* (Speg.) Sing.

Pholiota anomala (A. H. Smith) Sing. comb. nov.
Hypholoma anomalum A. H. Smith. Mycologia **33**: 2, 1941.

Pleuroflammula hibernianus (Pears. & Dennis in Pearson) Sing.
Crepidotus hibernianus Pearson & Dennis in Pearson, Trans. Brit. Mycol. Cl. 32: 268. 1949.

Inocybe sect. **Cervicolores** Kühner & Romagnesi ex Sing. Sporis levibus; metuloideis nullis; pileo squamoso vel tomentoso; carne rubescente; odore arcomatico vel fructuum vel terreo. Species typica: *Inocybe cervicolor* (Pers.) Quél.

Alnicola mirabilis (Atk.) Sing. comb. nov. [1]).
Galerula mirabilis Atk., Proceedings Amer. Phil. Soc. 57: 3. 1918.

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Alnicola inculta (Peck) Sing. comb. nov. [1]).

Galera inculta Peck, Ann. Rep. N. Y. St. Mus. 41:69. 1888.

Alnicola sect. **Submelinoideae** Sing. ex Sing. sect. nov. Cheilocystidiis plerumque crassiusculis haud attenuatis vel acutis ad apicem. Typus sectionis: *A. submelinoides* Kühner.

Alnicola velutina (Murr.) Sing. comb. nov.

Naucoria velutina Murr. North Amer. Flora **10**: 177. 1917.

Simocybe tiliophila (Peck) Sing. comb. nov.

Agaricus tiliophilus Peck, Ann. Rep. N. Y. State Mus. **35**: 133. 1884.

Simocybe reductoaffinis Sing. spec. nov.

Pileo pallide sordideque brunneolo, pellucide striato, hygrophano, convexo, obtuso, 12 mm. lato; lamellis pileo concoloribus, subventricosis, confertiusculis, adnatis vel subsinuato-adnatis; stipite pallido, glabro, aequali, 19×1.5 mm.; carne pallida vel subconcolori super-

[1]) I cannot understand the statement by Dennis, Orton & Hora (Trans. Brit. Myc. Soc., Suppl. p. 200 under "*mirabilis*" and Trans. Brit. Myc. Soc. **43**: 319. 1960, by Orton) in which it is said that "Singer ... maintains that *G. mirabilis* is the same as *N. alnetorum*; I think this unlikely, however, on account of ..." etc. This equation is not only unlikely but erroneous and, what is more, has never been "maintained" by me. I identified (Singer in Sydowia 9: 406)*Alnicola mirabilis* (Atk.) Sing. with *A. bohemica* (Velen.) Sing. It is *G. inculta* Peck which I identified (l. c.) with *A. alnetorum* (Maire in Kühner) Romagnesi. These two statements were obviously confused by Orton. It is quite another question whether within the species earlier defined by Kühner and keyed out by Romagnesi as *A. bohemica* respectively *N. bohemica*, there are one, two or three species hidden. In view of the latest notes published by Kühner & Romagnesi (Bull. Soc. Nat. Oyon. 10—11: 9 11. 1957) one would be inclined to agree with Orton that the *A. bohemica* in its original sense should be separated from the forms with broadly clavate-capitate cheilocystidia. I do not wish to enter this discussion because I have never studied the form with the narrow cheilocystidia. However, if the forms now distinguished from *A. bohemica* as *Naucoria langei* forma *tetraspora* Kühner in Kühner & Romagnesi and as *Naucoria salicis* Orton (apparently both once described by Lange under the common denomination *Naucoria macrospora* Lange non Patouillard & Doassans) are actually specifically different as suggested by Orton (not by Kühner & Romagnesi, l. c.), *Naucoria salicis* Orton must be called *Alnicola mirabilis* (Atk.) Sing. If they are identical and merely represent a two and a four-spored race of the same species the species must be known as *Alnicola mirabilis* (Atk.) Sing. whereby the two-spored race is the type form. I know the four-spored form only from one American collection (received from A. H. Smith under the name *Naucoria hamadryas* and commented on in Rev. Myc. 5: 11. 1940) which is evidently quite identical with *N. langei* Kühner. The other (numerous) collections I have made or received are bisporous and obviously the same as *N. salicis* Orton; with the exception of one collection from USSR, Tataria, Kazan, leg. Vasilieva (LE) which agreed in all regards with A. H. Smith's specimens. My two-spored material: Holland: Reijnders no. 2254 (LIL, L); Tristan da Cunha (K); U.S.A., N. Y. (type of *G. mirabilis*); Mich.: Singer N 744 (F) and N 948 (F). It should be noted that N 744 was collected definitely under *Alnus*. It appears therefore that *A. mirabilis*, two-spored form, not grow exclusively under *Salix* as suggested by Orton.

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ficiebus, subinodora. Sporis 6.8—7.8×5—5.5 μ, levibus, sublate ellispoideis, haud reniformibus vel phaseoliformibus, poro germinativo destitutis; basidiis tetrasporis, 15.5—19.5×7.2 μ; cystidiis nullis; cheilocystidiis cc. 32 μ longis, versiformibus sed semper rotundatis in apice, frequenter ventricosis in parte superiore aut capitatis aut subcapitatis. interdum semel bisve constrictis vel breviter mucronatullis, 7.8—12 μ latis, pedicellatis; epicute e dermatocystidiis haud in hymenium condensatis consistente, e cellula subisodiametrica ortis e qua frequenter nascuntur sine septa limitante, interdum basi incrassata sed generatum filiformibus vel filiformi-subcapitatis, 25—37.5×7—9.3 μ, cellulis subjacentibus e. gr. 14—20 μ in diam. et si cum dermatocystidiis confluent, cellula integra 35—60 μ longa; hyphis fibuligeris. Ad lignum putridissimum in silva subtropicali. U.S.A., Florida, Dade Co., Brickel's Hammmock, leg. Singer no. F 1618 (F), Typus.

Simocybe rubi (Berk.) Sing. comb. nov.

Agaricus rubi Berk., in Hooker, English Flora 5 (2): 102. 1836.

Simocybe junquillea Sing. spec. nov.

Pileo luteo ("jonquil" + "deep chrome" M & P), dein pallidiore aurantiaco-flavido, levi, subglabro, dein sicco irregulariter punctato, subpruinato in juvenilibus, convexo dein applatato, interdum paullum concavo in vetustis, 17—22 mm lato; lamellis ochreo-griseolis (inter "Longbeach" et "fallow" M & P), demum brunneolis, subdistantibus, sublatis, adnatis; stipite albo, pubescente vel hirsuto e tomento basali pruinato ad apicem extremum, in zona intermedia glabro, et ad basin ipsam tomentoso-hirsuto; curvato, excentrico vel sublaterali sed haud continuo cum margine pilei, 5—10×2—4 mm.; mycelio basali albo; velo nullo; carne alba, miti, inodora. Sporis 6—8.5×4.7—6 μ, levibus, obovoideis, poro germinativo destitutis, melleis vel dilute ochraceo-brunneis, applanatione depressioneque suprahilari destitutis; basidiis 26.5×6.7 μ, 2—4-sporis, plerumque tetrasporis; cystidiis nullis; cheilocystidiis 29.5—43×6.7—10.7 μ, hyalinis vel pallide aureis, clavatis vel capitatis, numerosis, ex eis acie lamellarum heteromorpha; epicute ex hyphis filamentosis consistente quae elementa terminalia cystidiformia exhibunt; dermatocystidiis hyalinis vel aureis, plenumque hyalinis, ascendentibus, e. gr. 26—36×4.7—6.8 μ, clavatis vel subcapitatis, rarius erectis, clavatis vel capitatis; tramate hymeniophorali ex hyphis hyalinis parallelo-subintertextis consistente; regulari; hyphis hypodermii frequenter incrustationibus aureo-ochraceis gaudentibus, sed haud abundanter incrustatis, pigmento membranali. Ad truncum arboris Dicotyledonum in silva subtropicali gregatim. Argentina, Tucumán, Sierra de San Javier, Parque Aconquija, 17-II-1955, leg. Singer no. T 2176 (LIL), typus.

Simocybe tucumana Sing. spec. nov.

Pileo pallide fusco vel fusco ("yellow beige", 14-I-9, "cowboy",

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M & P), margine frequenter pallidiore, hygrophano, dehydratione usque ad eburneum vel brunneolum pallescente (sicco "ivory", "putty", "chipmunk"), subglabro vel subtomentoso, pallidiore etiam in siccis, aut pallide alutaceo in toto pileo sicco, circumferentia circulari vel oblonga (longitudinaliter), integra vel lobata, margine stricto in juvenilibus, convexo, papillato aut obtuso, levi nec transparentia striato, 7—29 mm. lato; lamellis pileo subconcolori dein sporis in massa concoloribus, mediocriter confertis, mediocriter latis, adnexis vel adnatis; sporis in massa brunneolis ("butterscotch" M & P); stipite pileo subconcolori sed tomento ascendente a basi albo, centrali vel sublaterali, apicem versus subattenuato vel subaequali, obliquo et stricto aut curvato, 3—10 × 1.5—3 mm.; velo nullo; carne exigua, superficiebus subconcolori, subinodora. Sporis 6—7.5 × 4.7—5.5 μ, levibus. membrana firma sed non crassa ochraceo-brunneola (ex endo- et episporio consistente) instructis, ovalibus (sed basi latioribus et lateraliter visis uno in latere minus convexis quam in altero in latere interno applanatis, rarissime subdepreesis in latere interno), apice continuis haud papillatis nec porigeris, appendice hilari exiguo munitis; basidiis 14—20 × 5.2—7.4 μ, tetrasporis; cystidiis nullis sed interdum basidiolis pigmentatis visis; cheilocystidiis 16—41 × 6.7—14 μ, versiformibus, plerumque clavatis, paucis ascendentibus, plurimis erectis, hyalinis, rarius ochraceo-brunneolis, levibus, densis (ex eis acie heteromorpha); epicute pilei hymeniformi sed hymenio pilei interrupto irregularique vel in fascicula hymeniformia disrupta, dermatocystidiis hyalinis vel brunneolis, cheilocystidiis simillimis sed interdum oblique appendiculatis, raro subisodiametricis, aut applicatis, aut geniculatis, 13—40 × 6.5—12 μ; infra dermatocystidia hyphis plus minusve intertextis subinaequalibus, interdum membrana subincrassata praeditis vel melleo-tunicatis, paucis pigmento melleo incrustatis; tramate hymenophorali regulariter dispositis, hyalinis, dein e pigmento intracellulari stramineis, haud incrustatis, crassitudine variabilibus (2.5—16.5 μ in diam.) vel tenuibus; hyphis ceteris hyalinis vel subhyalinis, fibuligeris. Ad superficiem stipitis dermatocystidiis in apice tantum praesentibus, fasciculatis et eis pilei simillimis. Ad lignum arborum Dicotyledonum in silva subtropicali gregatim, Argentina, Tucumán, Sierra de San Javier, Parque Aconquija, 17-II-1955 et 26-II-1961, leg. Singer no. T 2181 (LIL, paratypus); T 3661 (LIL, holotypus).

Simocybe curvipes (Sing.) Sing. comb. nov.

Naucoria curvipes Sing., Sydowia 8: 135. 1954.

Simocybe ovalis Sing. spec. nov.

Pileo pallidissime ochraceo, macroscopice subglabro, asperulato-velutino sub lente in siccis, levi, circumferentia ovali, 5—6 mm. lato; lamellis albis, dein brunneolis acie albidis, latis, subdistantibus, interdum distantibus (11 lamellis integris!), anguste adnexis vel

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sublate adnatis; stipite albo vel pallide flavido, fibrilloso- vel flocculoso-scabro sub lente, brevi, prope latus latius pilei affixo, curvato, sublateriali, 1×0.6 mm.; mycelio basali sparso vel abundante, albo, Sporis $7-8.2 \times 5.8-6.3$ μ, levibus, ellispoideis vel breviter ellipsoideis, latus ad interius haud applanatis nec applanatione aut depressione suprahilari gaudentibus, numquam reniformibus, apice rotundatis, poro germinativo destitutis sed rarius interruptione membranae ad apicem notata (callo vel poro vis evoluto); basidiis 22×8.2 μ, tetrasporis, pro ratione brevibus et latis, hyalinis; cystidiis nullis; cheilocystidiis $31-40 \times 4.3-6$ μ, filamentosis vel e basi ventricosa filamentosis, apice claviculatis vel subclaviculatis et saepe sub apice constrictis, usque ad 5.5 μ latis, constrictione 2.7—3.5 μ diam. hyalinis vel pallidissmime flavidis, densis (ex eis acie heteromorpha); epicute subpalisadica, ex elementis filamentosis vel filamentoso-capitatis pallide melleis vel flavis (NH_4OH aut KOH) subtus magis pigmentatis et ibidem frequenter pigmento epicellulari flavido adspersis, elementis eis (dermatocystidiis) $18-41 \times 3.5-4.8$ μ; hyphis hypodermii partim flavidis, ceterum hyphis hyalinis, omnibus fibulatis. Ad ramulos delapsos Dicotyledonum gregatim in Horto Bogotensi Venezuelae. Leg. Dennis no. 1072 (LIL, K), typus.

Simocybe sumptuosa (Orton) Sing. comb. nov.
Naucoria sumptuosa Orton, Trans. Brit. Myc. Soc. **43**: 324. 1960.

Simocybe olivaceonana (Sing.) Sing. comb. nov.
Naucoria olivaceonana Sing., Sydowia 8: 136. 1954.

Simocybe pantelaeodes (Sing.) Sing. comb. nov.
Naucoria pantelaeodes Sing., Sydowia 8: 138, 1954.

Simocybe melleiceps (Murr.) Sing. comb. nov.
Galerula melleiceps Murr., Proc. Fla. Acad. Sc. **7**: 119. 1944 (publ. 1945).

Simocybe citrinipes (Murr.) Sing. comb. nov.
Naucoria citrinipes Murr., l. c. p. 124.

Simocybe olivaceiceps (Sing.) Sing. comb. nov.
Naucoria olivaceiceps Sing., Sydowia 8: 137. 1954.

Simocybe subolivacea (Murr.) Sing. comb. nov.
Naucoria subolivacea Murr.. North Amer. Flora **10**: 182. 1917.

Simocybe praeandina (Sing.) Sing. comb. nov.
Naucoria praeandina Sing., Sydowia 4: 149. 1950.

Simocybe polytropa (Sing.) Sing. comb. nov.
Naucoria polytropa Sing., Sydowia **7**: 237. 1953.

Simocybe polytropoides Sing. spec. nov.

Pileo dilute brunneo ("Aztec" M & P); lamellis subconfertis vel subdistantibus, latis; stipite curvato excentricoque; sporis minoribus ($6.8-7.7 \times 4.2-4.8$ μ, haud $6.8-8.5 \times 4.8-5.5$ μ); ceterum *N. polytropae* Sing. holotypo, simillima species. Ad ramum delapsum. Argen-

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tina, Tucumán, Playa Grande, Rio de los Sosas, 800 m. altitudinis. Leg. Singer no. T 1120 (LIL), typus.

Simocybe atomacea (Murr.) Sing. comb. nov.
Atylospora atomacea Murr., Lloydia **5**: 152. 1942.

Simocybe subvelutina (Sing.) Sing. comb. nov.
Naucoria subvelutina Sing. Sydowia **4**: 149. 1950.

Simocybe serrulata (Murr.) Sing. comb. nov.
Naucoria serrulata Murr., North Amer. Flora **10**: 178. 1917.

Simocybe pallidissmima (Sing.) Sing. comb. nov.
Naucoria pallidissima Sing., in Sing. & Digilio, Lilloa **25**: 366. 1951 (publ. 1952).

Simocybe alachuana (Murr.) Sing. comb. nov.
Naucoria alachuana Murr., Lloydia **5**: 149. 1942.

Simocybe tepeitensis (Murr.) Sing. comb. nov.
Naucoria tepeitensis Murr., Mycologia **4**: 79. 1912.

Simocybe unicolor (Peck) Sing. comb. nov.
Naucoria unicolor Peck, Ann. Rep. N. Y. State Mus. **41**: 68. 1888.

Phaeomarasmius limulatus (Fr. ex Weinm.) Sing. comb. nov.
Agaricus limulatus Fr. ex Weinm., Hymen. Ross. p. 201, 1836.

Phaeomarasmius nebularum Sing. spec. nov.

Pileo dilute ochraceobrunneo (12—J—8 M&P), opaco, sub lente tenuiter tomentoso, levi, convexo, papilla minutissima instructo, 7 mm. lato; lamellis pileo concoloribus, intermixtis, distantibus (13 lamellae integrae!), adnatis, latis; stipite intense saturateque castaneo, floccoso vel subglabro, subaequali, 8×0.5 mm. Sporis 9.5—13×7.2—7.7 μ, facile collabentibus, dilute ochraceo-brunneis, membrana tenui duplici instructis, late ellipsoideis vel ellipsoideis, levibus, poro germinativo destitutis, applanatione depressioneque suprahilari destitutis; basidiis 15—18×(7)—8.3—11.7 μ, tetrasporis, paucis bisporis; cystidiis nullis; cheilocystidiis (20)—55—60×8.5—11 μ, prope basin ventricosis, longe rostratis in parte apiculari (rostro 44—40 μ longo, 2—2.8 μ lato), hyalinis; epicute ex elementis elongatis (cylindraceis incrustatis, latis, e. gr. 9 μ diam.) apice late rotundatis, numquam isodiametricis (raro uno duobusve membris subisodiametricis praesentibus), catenulatis, interdum nonnullis membris catenulae ventricosis, tenuiparietalibus; hyphis fibulatis. Ad stipitem ligneum exiguum, in humo profundo putrescentem. Bolivia, Yungas, La Paz, Nor-Yungas, Cotapata, 3000 m. altitudinis, 28-I-1956. Leg. Singer no. B 637 (LIL), typus.

Phaeomarasmius sect. **Confragosi** Sing. sect. nov. Pileo epicute tecto quae ex elementis catenulatis (cellulis) elongatis efformata est. Membrana celullarum epicuticularium pigmento incrustata. Species typica sectionis: *P. confragosa* (Fr.) Sing.

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Phaeomarasmius muricatus (Fr. ex Fr.) Sing. in Sing. & Digilio ex Sing. comb. nov.

Agaricus muricatus Fr. ex Fr., Syst. Mycol. **1**: 244. 1821.

Gymnopilus sect. **Annulati** Romagnesi ex Sing. Annulo praesente. Typus sectionis: *G. spectabilis* (Fr.) Sing.

Gymnopilus oxylepis (Berk. & Br.) Sing. comb. nov.

Agaricus oxylepis Berk. & Br., J. Linn. Soc., Bot. **11**: 541. 1871.

Gymnopilus filiceus (Cooke) Sing.

Agaricus filiceus Cooke, Seeman's J. Bot. 1863: 65.

Gymnopilus traillii (Berk. & Cooke) Sing. comb. nov.

Agaricus traillii Berk. & Cooke, J. Linn. Soc. **15**: 368. 1876.

Gymnopilus crocias (Berk. & Br.) Sing. comb. nov.

Agaricus crocias Berk. & Br., J. Linn. Soc., Bot. **11**: 542. 1871.

Gymnopilus chrysites (Berk.) Sing. comb. nov.

Paxillus chrysites Berk., Hooker's J. Bot. & Kew Gard. Misc. **3**: 41. 1851.

Gymnopilus marasmioides (Berk.) Sing. comb. nov.

Agaricus marasmioides Berk. Hookers's J. Bot & Kew Gard. Misc. 8: 133. 1856.

Gymnopilus humicola P. R. Harding ex Sing. spec. nov.

Pileo intense ferrugineo-brunneo vel obtuse brunneo vel obscure melleo, juventute et marginem versus interdum dilutius colorato, sicco, subumbonato vel obtuso, disco interdum olivaceo-umbrino, squamuloso, 22—34 mm. lato; — Lamellis siennicoloribus ("raw sienna" M&P), juventute flavis, marginem pilei versus etiam magis flavidis, aciem versus flavidis, angustis vel subangustis, confertis vel confertissimis, frequenter brunneo-maculatis, adnatis; stipite flavo, dein flavido basique fusca vel olivaceo-umbrino obscurato, fibrilloso, solido, dein farcto, aequali, 16—42 × 3—6 mm.; velo nullo; carne ochracea, e basi brunnescente, in apice pilei flava, in pileo dein alutacea; odore subaromatico, sed debili, Naematoloma fasciculare in mentem revocante, sapore submiti vel subamariusculo. Sporis 7.3—9 × 4.5—6 μ, verruculosis, area suprahilari levi destitutis; basidiis 24—30 × 6.5—7 μ, tetrasporis; cystidiis nullis; cheilocystidiis 19.5—24 × 5.2—6.8 μ, aureo-ferrugineis vel hyalinis, ampullaceis, apice capitatis; tramate hymenophorali hyalino, regulari vel subregulari; epicute e catenulis elementosrum elongatorum pigmeto incrustatoeum 4—13.5 μ diam., efformata; hyphis omnibus (exceptis septis secundariis interdum numerosis) fibuligeris. Ad humum silvestrem nec non ad terram arenosam in silva mixta. Reactiones chemicas: NH_4OH ope superficiebus atroferrugineo-maculantibus et KOH ope superficiebus nigrescentibus. U.S.A., Michigan, Emmet Co., Colonial Pt., 4-VII-1953. Leg. Singer no. N 383 (F), paratypus — Cheboygan Co., east shore of Burt Lake, 3-VII-1953 (F), typus. — Praeterea collectiones in MICH conservatae a cl. Harding determinatae.

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Pyrrhoglossum holocrocinum (Berk.) Sing. comb. nov.
Agaricus holocrocinus Berk., Hook. J. Bot. **5**: 485. 1846.

Pyrrhoglossum lilaceipes Sing. spec. nov.

Pileo ferrugineo (inter "alamo" et "agate" M&P), marginem versus aureobrunneo ("Titian gold" M&P), hygrophano, in siccis vivis usque ad stramineum pallescente, glabro sed in parte posteriore tomentoso, margine lobato, convexulo sed in siccis parte posteriore umbonato, usque ad 50 mm. lato, circumferentia elliptica; lamellis ferrugineo-brunneolis ("Alamo" M&P), angustis (3 mm. latis), confertis; subdecurrentibus vel decurrentibus; stipite lilaceo ("orchis" vel "windflower" M&P), velutino-tomentoso, usque ad 11×3 mm.; carne tenuissima, inodora. Sporis 5.4—5.6×4.2—4.4 μ, intense ferrugineo-verrucosis ornamentatione exosporiali supra episporio flavido, typo ornamentationis VI, raro VI—II—IV, verrucis 0.5 μ altis; basidiis 18—18.5×6—6.2 μ, tetrasporis; cystidiis nullis; cheilocystidiis zonam citrinam formantibus, 20—27.5×5.5—7.5 μ, versiformibus, plerumque capitatis basi ventricosis, interdum ampullaceo-cylindraceis, capitulo 2.8—7 μ diam., irregulariter dispositis; tramate hymenophorali citrino, regulari, membranis hypharum usque ad 1 μ crassis; subhymenio citrino, ex elementis exiguis efformato; tramate pilei ex hyphis frequenter crassitunicatis et magnis composito; apicute ex hyphis tenuioribus quam in carne et tenuitunicatis efformata, earum membris terminalibus interdum liberis et piliformibus vel dermatocystidioideis, tenuitunicatis, citrinis, subulosis vel cylindraceis, 26—26.5×5.5 μ (apice interdum usque ad 2.7—3.5 μ attenuatis). Hyphis omnibus fibuligeris. Ad lignum putridum in silva montano-tropicali. Bolivia, Yungas, La Paz, Nor-Yungas, Carmen Pampa, 17-II-1956. Leg. Singer no. B 1225 (LIL), typus.

Phaeocollybia amazonica Sing. spec. nov.

Pileo brunneo ("burnt umber" M&P) et partim atrobrunneo ("leafmold" M&P) hygrophano, desiccatione multum pallidiore, per quartam partem radii pellucide striato, 40—45 mm. lato, convexo sed maturitate circum umbonem depresso; lamellis ochraceo-brunneis ("Sudan brown" M&P), demum intensius ferrugineis e massis sporarum depositis ("alamo" M&P), confertis, latis, liberis; stipite dilute alutaceo-cinnamoneo vel cinnamomeo ("dorado" vel "cinnamon" M&P), glabro, levi, cavo, ad basin incrassato sed basi pseudorhiza prolongata, parte epigea 40—45×8 mm.; ad apicem 5 mm. diam., pseudorhiza acute longeque attenuata; carne odore saporeque raphanaceo insigni. Sporis 8.2×4.8 μ; levibus sed subtiliter nebuloso-marmoratis (immersionis ope in KOH visibili ornamentatione exosporiali), fusiformibus, depressione haud levi sed paullum manifesta suprahilari praeditis, membrana manifeste duplici crassiuscula, saturate fulvo-ferruginea instructis, apice callum exhibentibus sed poro germinativo genuino destitutis; basidiis 15—20×6—8.3 μ,

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tetrasporis; cystidiis nullis; cheilocystidiis 33—47×6.8—8.2 μ, subcylindraceis, sed subirregularibus, subflexuosis, subcapitatis vel subampullaceis vel filamentoso-curvatis, hyalinis; ad aciem lamellarum etiam pseudoparphysibus sparsis, e. gr. 25×14 μ interdum praesentibus, vesiculoso-clavatis, contentu granuloso brunneolo repletis; hyphis tramatis hymenophoralis regularis et epicutis filamentosis, subparallelis vel subintertextis, hyalinis, fibulatis; epicute cutem repraesentante, dermatocystidiis nullis visis; hypodermio fortiter pigmentato sed haud fortiter incrustato; zonis gelatinosis haud praesentibus. Ad humum terramque (apparenter in ligno immerso) in silva hylaea pluviali solitario. Bolivia, Oriente, Beni, Vaca Diez, Riberalta, 31-III-1956. Leg. Singer no. B 2372 (LIL), typus.

Phaeocollybia subattenuata Sing. spec. nov.

Pileo brunneo (14 E 11 M&P) dehydratione hygrophanica usque ad ochraceum pallescente umbone brunneolo ("Ponce de Leon" M&P), leniter subviscido-subopimo, glabro, radiatim arato inter zonam marginalem, ubi striatellus est per radii partem minutissimam et umbonem qui levis est, campanulato, 40 mm. cc. lato et usque ad 20 mm. alto; lamellis subargillaceo-brunneis ("Aztec" M&P), confertis, subliberis; stipite pallido, subtus ferrugineo-maculato, glabro, levi, sicco, cavo, cepiformi ad basin, pseudorhiza subtus attenuata breviuscula ornato, apicem versus subaequali vel lenissime attenuato, parte epigaea plus minusve 100 mm. longo, ad apicem 5, ad basin 11 mm. diam.; carne odore raphani praedita. Sporis 7.5—8.2× 4.5—5.5 μ, late ellipsoideo-fusiformibus, circumferentia levibus sed subtiliter punctulatis (ut in P. radicata, sed magis visibiliter ornamentatis quam in P. amazonica); basidiis 18.5—27.5×7.5—8.2 μ, hyalinis, clavatis, tetrasporis; cystidiis nullis; cheilocystidiis numerosis 20—28×3.5—5.5 μ, versiformibus, plerumque anguste filamentoso-subclavatis et interdum omnino filamentosis vel apicem versus subattenuatis, frequenter irregulariter furcatis vel excrescentiis ornatis vel geniculatis, sed frequentius simplicibus erectisque; tramate hymenophorali regulari; subhymenio hyalino, manifesto, ex elementis exiguis efformato; epicute subindifferentiata ab hypodermio, ex hyphis pigmentatis, angustis, parallelis, haud gelatinisatis, inamyloideis formata; hyphis omnibus inamyloideis, fibulatis. Ad terram humosam in silva pluviali tropicali solitario. Bolivia, Oriente, Pando, Madre de Dios, Las Piedras, 5-IV-1957. Leg. Singer no. B 2510 (LIL), typus. — Primae species tropicales huius generis cognitae sunt *P. amazonica* et *P. subattenuata*. Cheilocystidiis versiformibus nec non praesentia fibularum et tenuissima sporarum ornamentatione insignes et probabiliter primitivae sunt.

Crepidotus velutinoaffinis Sing. spec. nov.

Pileo albido-tomentoso supra epicutem brunneolam, levi sed subtiliter ruguloso in siccis, 2—4 mm. lato.; lamellis in aciebus pallidis,

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ceterum sporis brunnescentibus, angustis, distantibus, subobtusis; stipite brunneo, albo-pruinoso, sublaterali, curvato, 1.8×0.4 mm. Sporis 7.5—9.7×7.5—9 μ, subglobosis vel globosis, crude verrucosis vel breviter cristatis et ornamentatione vix immersa, asperis circumferentia, episporio bene pigmentato, ornamentatione haud obscurius colorata quam episporium; basidiis 26—29.5×8.8—9.5 μ, clavatis, hyalinis, tetrasporis; pleurocystidiis nullis; cheilocystidiis numerosis, hyalinis, paucis ochraceis, 40—61×3.8—7 μ, cylindraceis vel subventricosis, rarius aequalibus quam apice subcapitatis; hyphis omnibus fibulatis. In muscis humidis. Venezuela, Mérida, Sierra de Santo Domingo, Laguna Negra, 31-VII-1958. Leg. Dennis no. 1801 (K, LIL). Typus in Herbario Kewensi conservatur.

Crepidotus serotinus Sing. spec. nov.

Pileo brunneolo, hygrophano, dehydratione in vivis usque ad flavido-album pallescente, striatulo in humidis, levi in siccis, sub lente subfibrilloso fimbriatoque, 8 mm. lato.; lamellis brunneis, latis, mediocriter confertis, concurrentibus; stipite nullo. Sporis 9.3—12.7×7—8.7 μ, ellipsoideis, multis submucronatis in apice, ochraceo-brunneis, callo munitis sed poro germinativo destitutis, basidiis 24—33×8—13 μ, tetrasporis; cheilocystidiis 40—56×6—8 μ, non capitatis, sed versiformibus: ampullaceis, cylindraceis, interdum ad apicem bifurcatis, hyalinis; cystidiis nullis; tramate pilei et lamellarum haud gelatinoso et zonis gelatinosis destituto vel paulum subgelatinoso (ut in C. antillarum), ex hyphis tenuibus fibulatis, filamentosis efformato. Ad ramum delapsum Dicotyledonum in silva semisicca serotinus (tarde autumno!). Argentina, Tucumán, Arroyo Mista, 15-VI-1955. Leg. Singer no. T 2782 (LIL), typus. — Mycelium basale abundans, subpelliculosus, albidus vel albus. *C. parlatorei* Sing. affinis.

Crepidotus polylepidis Sing. spec. nov.

Pileo intense aureoflavo, omnino pubescente, levi, convexo conchato, 5 mm. cc. lato; lamellis dilute flavis, dein brunneolis acie' flavis latissimis, mediocriter latis, concurrentibus; stipite rudimentario, haud manifesto, velutino. Sporis 6.2—7.5 μ diam. globosis, spinulis episporio concoloribus cylindricis in episporio immersis ornatis, paullum punctatis (ornamentatione typi C. applanati); basidiis 25×7 μ, tetraspooris; cystidiis nullis; cheilocystidiis 33—81×5.5—8.2 μ, hyalinis, subulatis apice subacuto angustato praeditis vel filamentosis basi dilatata; epicute pilei palisata trichodermiali formata elementorum dermatocystidioideorum et eorum continuationum hyphalium, intus succo auro-flavido impletorum, elementis vesiculosis inter ea admodum sparsis et 16—21×11 μ cc. metientibus; hyphis fibulatis. Venezuela, Mérida, Sierra de Santo Domingo, 3600 m. altitudinis, 24-VII-1958. Leg. Dennis no. 1726 (K), typus. — Ab

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affini C. crocophyllo carpophoris minoribus et forma cheilocystidiorum differt.

Clitopilus rhodophyllus (bres.) Sing. comb. nov.

Pleurotus rhodophyllus Bres., Ann. Mycol. **3**: 159. 1905.

Rhodocybe lignicola Sing. spec. nov.

Pileo rubescenti-brunneo ("Arab" M & P), hygrophano, longe pellucide striato, 18 mm. lato, convexo, umbilicato; lamellis carneis, confertis at haud confertissimis, adnatis; stipite pileo concolori, apice intensius rubrobrunneo („Mohawk" M & P), subaequali vel apicem versus subattenuato, 28×2 mm. (ad basin usque ad 3 mm. lato). Sporis a polo visis angularibus, asperulatis, 6.2—7×4.2 μ; basidiis tetrasporis, 24.5—25×8—8.5 μ cystidiis nullis; tramate hymenophorali regulari, hyalino, fibulato. Ad ligna emortua in zona superiore silvarum tropicali-montanarum. Bolivia, Yungas, La Paz, Nor-Yungas, Carmen Pampa, 26-II-1956. Leg. Singer no. B 1495 (LIL), typus.

Rhodocybe laeta Sing. spec. nov.

Pileo ferrugineo-aurantiaco ("Mosque" M & P) vel intense ferrugineo ("Kobe" M & P), margine aurantiaco-salmoneo ("honeydew" M & P), zonis concentricis sordidioribus vel aquosis vel obscurioribus adornato, umbilicato, irregulariter convexo vel centro applanato vel subdepresso, umbilicato, 52 mm. lato; lamellis obtuse ochraceis (11 D 6 M & P), confertis, in siccis haud distantioribus quam eae R. russulariae aut R. collybioideae, arcuato-decurrentibus; stipite pallidiore sordidioreque pileo, ad basin incrassato, 40 mm. cc. longo, 5 mm. lato ad apicem, basi 10 mm. diam.; carne miti. Sporis a polo visis angularibus, asperulatis, 4.8—6.2(7)×4—4.8(5.5) μ; basidiis (2)—4-sporis, 18—25×4.8—5.5 μ, clavatis, hyalinis; cystidiis paucis et sparsis, cylindraceo-subulatis vel subulatis, acuminatis vel subacutis vel acutis, supra basidia non vel vix projicientibus, inconspicuis, 3.5—4.5 μ diam., hyalinis. Ad humum silvestrem lignosum in hylaea. Bolivia, Oriente, Beni, Vaca Diez, Guayaramerin, 14-III-1956. Leg. Singer no. B 1951 (LIL), typus. — A. R. *collybioidea* coloribus nec non consistentia rigidiore fragili differt.

Rhodocybe rickii Sing. nom. nov.

Clitocybe gilvoides Rick, Broteria **24**: 101. 1930.

Rhodocybe rickii var. *convexa* (Sing.) Sing.

Rhodocybe gilvoides var. *convexa* Sing., Sydowia **12**: 242. 1958.

Rhodocybe russularia Sing. spec. nov.

Pileo dilute cinnamomeo, subaurantio-cinnamomeo in statu sicco, (13-C-9/11, 11-D-8; sicco 13-B/C-9/10, 11-R-7, 13-A-9 "creole", M & P), hygrophano. subopimo sed haud viscido, glabro et levi, sed dense pellucide striato in zona marginali vel estriato, convexo,dein applanato, frequenter umbilicato, 38—51 mm. lato; lamellis ochraceogilvis, vel sordide gilvis ("lariat" M & P), confertissimis, angustissimis

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vel angustis (usque ad 4 mm. latis), adnatis vel adnato-decurrentibus; sporis in massa pallide carneolis (2 A 8 M & P); stipite aut pileo aut lamellis concolori, glabro vel initio plus minusve innato-sericeo-striatulo apice pruinoso vel, subpruinoso, cavo, apicem vel basin versus attenuato, 46—68×4.5—7 mm., plus minusve subradicante; carne in humidis alba vel superficiebus plus minusve subconcolori sed tunc pallidiore in siccis, odore Collybiae dryophilae vel subfarinaceo; sapore miti vel farinaceo. Sporis polo visis angularibus, asperulatis, stramineo-carneolis, sed admodum pallidis, 4.8—6.5×3—4.3 μ; basidiis 22×6.5 μ tetrasporis; cystidiis contentu heterogeno visibili destitutis, 23—49×5.5—6.3 μ, tenuitunicatis, hyalinis, levibus, ventricosis, apice ampullaceo-extensis, filamentosis, pedicello longo instructis; epicute ex hyphis repentibus parallelis filamentosis efformata; tramate hymenophorali regulari, hyalino. Hyphis omnibus defibulatis. Ad terram arenosam vel ad detritum hylaeae. Bolivia, Oriente, Beni, Vaca Diez, Guayaramerin. Leg. Singer no. B 1709 (typus, LIL), B 2015 (LIL, paratypus). Color habitusque Lactarii cuiusdam e sectione Russulariarum.

Rhodocybe galerinoides Sing. spec. nov.

Pileo obtuse brunneo ("bure", "butterscotch" M & P), hygrophano, dehydratione flavo (10-E-5 M & P), haud profunde subsulcato, (glabro, conico, papillato, 16 mm. lato, 7 mm. alto; lamellis ochraceis 10/11-F-6 M & P), subdistantibus vel distantibus, profunde sinuatis, latisusculis, haud intervenosis, ventricosis; stipite aurantiaco vel aurantiaco-cinnamomeo, (12-G-11, 13-B-11 M & P), cylindraceo, sicco, glabro, 25×1.5 mm.; carne inodora. Sporis polo visis subangularibus, sublevibus vel crude asperulatis, 4.8—5.5×3.8—4.2 μ; basidiis 22×4.5—7 μ; cystidiis nullis, sed pseudocystidiis conspicuis, prope aciem mediocriter numerosis, cum hyphis oleiferis connexis, haud incrustatis, longis, ventricosis vel subcylindraceis, 6.8—9 μ latis; tramate lamellarum regulari, hyalino; strato cuticulari pilei ex hyphis melleis, pigmento membranali destitutis filamentosis repentibus efformato; hyphis omnibus defibulatis. Ad lignum putridum in silva pluviali tropicali. Bolivia, Oriente, Beni, Vaca Diez, Guayaramerin, 14-III-1956. Leg. Singer no. B 1973 (LIL), typus.

Rhodocybe lactariiformis Sing. spec. nov.

Pileo brunneo vel badio ("kiskilim" vel "montella" M & P), leniter pellucide striatulo, subapplanato, acute papillato, 29 mm. lato; lamellis cinnamomeis, confertis, adnatis; stipite cinnamomeo, glabro, apicem versus attenuato, 50×3.5 mm., ad basin 6 mm. diam. Sporis polo visis subangulatis vel angulatis, asperulatis, 4.8—6.2 (7.5×4—4.8(5.5) μ; basidiis 25×7 μ, hyalinis, clavatis, tetrasporis; pseudocystidiis contentu melleo guttiformi impleto, cum hyphis oleiferis concurrentibus, quae item contentu melleo guttato gaudent, haud incrustatis, 62 cc. μ longis et 4.8—8.2 μ latis, cylindraceo-vermiformi-

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bus, frequenter particus ventricosis instructis vel apice acuminato gaudentibus, sed constanter ad ipsum apicem rotundatis, longitudine variabilibus, contentu iodi ope castanescente (ut in R. caelata); tramate hymenophorali regulari, ex hyphis parallelis filiformibus hyalinis efformato; epicute ex hyphis repentibus, cutem formantibus efformata; hyphis omnibus defibulatis. Ad lignum Dicotyledonum in hylaea. Bolivia, Oriente, Beni, Vaca Diez, Guayaramerin, 17-III-1956. Leg. Singer no. B 2070 (LIL), typus. — Species R. naucorioide maior; lamellis confertis, cystidiis haud incrustatis recendes. A R. galerinoide forma et magnitudine pilei, coloribus obscurioribus et superficie haud hygrophana (vel vix hygrophana), contentu magis denso pseudocystidiorum differt. Habitum Lactarii coloresque eiusdem generis exhibit.

Paxillus sect. **Parapaxillus** (Sing. ex) Sing. sect. nov. Fibulis praesentibus; velo praesente. Typus sectionis: *Paxillus argentinus* Speg.

Paxillus sect. **Defibulati** Sing. sect. nov. Fibulis nullis; velo nullo. Typus sectionis: *Paxillus defibulatus* Sing.

Paxillus sect. **Veluticipites** Sing. sect. nov. Carpophoris evelatis; sporis elongatis (13—16 μ); cystidiis nullis; fibulis praesentibus. Typus sectionis: *Paxillus veluticeps* (Cooke & Mass.) Sing.

Paxillus veluticeps (Cooke & Mass.) Sing. comb. nov.

Agaricus veluticeps Cooke & Mass., Grevillea **18**: 4. 1889.

Gomphidiaceae Maire ex Sing. fam. nov. Habitus clitocyboideus; lamellae ceraceae; leptocystidia praesentia; hyphae defibulatae; trama hymenophorale bilaterale, sporae in massa subatrae, s. l. griseae, leves; fungi mycorrhizici, ectotrophici. Genus typicum: *Gomphidius* Fr.

Suillus nueschii Sing. nom. nov.

Boletus flavus With. ex Fr. sensu Bres., Icon. Mycol. **19**: 904 pl. 904. 1931.

Suillus nueschii var. **caerulescens** Sing. var. nov.

A Suillo nueschii var. nueschii carne autoxydatione caerulescente et KOH ope viridescente differt. Sub Laricibus sibiricis in zona montana et subalpina Montium Altaicorum, U.S.S.R., prope Kurai frequens. Leg. Singer & Vasilieva aestate 1937, typus in Herb. LE conservatus est.

(*Ixocomus flavus* f. *caerulescens* Sing. Rev. Myc. **3**: 42. 1938).

Suillus bovinus (L. ex Fr.) Kuntze var. **viridicaerulescens** (Pearson) Sing. comb. nov.

Phylloporus hyperion (Cooke & Mass.) Sing. comb. nov.

Agaricus hyperion Cooke & Mass., Grevillea **16**: 72. 1888.

Pulveroboletus sect. **Sulphurei** (Sing.) Sing. comb. nov.

Phlebopus sect. *Sulphurei* Sing., Am. Midl. Natur. **37**: 2. 1947.

Pulveroboletus hemichrysus (Berk. & Curt.) Sing. comb. nov.

Boletus hemichrysus Berk. & Curt., Ann. Mag. Nat. Hist. II. **12**: 429. 1853.

Boletus sulphureus Fr., Epicrisis, p. 413. 1838, non Bull. ex Mérat 1821.

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Boletellus verrucarius (Berk.) Sing. comb. nov.

Boletus verrucarius Berk., Hooker's J. Bot. & Kew Gard. Misc. **6**: 135. 1854.

Russula picearum Sing. nom. nov.

Russula rubra Fr. sensu Bresadola, Fungi Trid. 2: 91, pl. 203. 1887.

Lactarius sect. **Lactariopsidei** Sing. ex Sing. Velo praesente aut tramate hymenophorali heteromero insignes. Typus sectionis: *Lactarius zenkeri* (Henn.) Sing.

Lactarius reticulatus (Berk.) Sing. comb. nov.

Panus reticulatus Berk., Hooker's J. Bot. & Kew Gard. Misc. 8: 142. 1856.

Lactarius alni Sing. spec. nov.

A *L. obscurato* et *L. tabido* sporarum massae colore candido et associatione mycorrhizica cum *Alno jorullensi* differt. Argentina, Tucumán, Sierra de Sans Javier, San Agustin, 7-I-1959, 1500 m. altitudinis. Leg. Singer no. T 3181 (LIL), typus. In Alnetis austro-americanis frequens est (cf. Singer & Digilio in Lilloa 25: 452. 1951, publ. 1952 sub nom. *L. cupularis* (Bull. ex Fr.) Quél. sensu Bres.)

Galeropsis madagascariensis (Pat. ex) Sing. spec. nov.

Galera besseyi var. *madagascariensis* Pat. ined. ex Heim, Rev. Mycol. **15**: 11, 13. 1950.

Sporis minoribus, pileo saepe obtuso a G. besseyi differt. Madagascar (P).

Galeropsis angusticeps (Peck) Sing. comb. nov.

Galera angusticeps Peck, Bull. Torr. Bot. Cl. **24**: 143. 1897.

Xerotinus erubescens (Berk.) Sing. comb. nov.

Daedalis erubescens Berk., Notice on some fungi collected by C. Darwin Esqu., during the Expedition of H. M. Ship Beagle, Ann. Mag. Nat. Hist. **4**: 292. 1840.

Lenzites erubescens (Berk.) Sacc., Syll. **5**: 645. 1887.

Xerotus erubescens (Berk.) Sing. apud Martin, Contr. Science, Los Angeles Co. Mus. **24**: 6. 1958.

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