

FUNGI GUARANITICI

AUCTORE

CAROLO SPEGAZZINI

(Italo)

PUGILLUS II

HYMENOMYCETEA Fr.

1. COLLYBIA AURANTIELLUS Speg. — Fung. guar. pug. I, n. 4.
Hab. Ad truncos in sylva virginea *Caá-quazú* vocata Jan. 1882
(sub num. 3384).
Obs. Species eximia, vix a *Collybia rheicolori* Berk. distincta stipite brevior pileoque centro non rugoso nec striato.
2. PLEUROTUS PETALOIDES Bull. — *Pleurotus portegnus* Speg., Fung. guar. p. I, n. 10.
Hab. Ad truncos vetustos muscosos in sylvis prope *Guarapí*, Jan. 1881 (sub num. 3383).
Obs. A *Pleuroto portegno* Speg. cum quo in l. c. injuste confusa longe abhorrens, nec quidem comparanda; sporae elliptico-globosae ($4-9 \times 2,5-3 \mu$) minutissime granulosa; cystidia lanceolata, magna ($60 \times 15-18 \mu$), hyalina in sicco fulvescentia.
3. PLEUROTUS PORTEGNUS Speg. — Fung. arg. pug. IV, n. 5.
Hab. Ad truncos muscosos in sylvis prope *Peribebuy*, 1 Nov. 1883 (sub num. 4094).
Obs. Specimina guarantica a typo nonnihil recedunt stipite magis conspicuo atque pileo magis velutino-furfurello.
4. PLEUROTUS TROPICALIS Speg. (n. sp.)
Diag. Pileus excentricus, plano-v. umbilicato-expansus, in juventute suborbicularis dein subspathulatus v. subcordatus

(1-1,5 cent. diam.), horizontalis, margine undulatus repandusve, albus, primo subtilissime pruinulosus dein glabratus laevis tenuis mollis; caro vix evoluta alba; lamellae in latere majore pilei tantum evolutae, polymacriae, confertissimae, strictissimae, tenues, acie integrae, utrinque acutatae, apice stipitis subcollariato-adnatae v. subdecurrentes, in vivo albae, in sicco rufescentes; stipes verticalis, plus minusve excentricus, breviusculus (5×1 mllm.) albus, glaber v. vix subpruinulosus, basi non incrassatus mycelio plus minusve radiatim expanso adfixus; basidia obclavulata ($16-18 \times 4 \mu$), 2-3-sterigmato-phora; sporae ovoideae v. subglobosae ($4-6 \mu$ diam.), non v. pluriguttulatae, hyalinae.

Hab. Ad radices putrescentes in sylvis subvirgineis prope *Peribebuy*, 1 Nov. 1883 (sub num. 4095).

5. PANUS CONCHATUS Fr. — Sacc., Syll. hym. I, p. 615.

Hab. Ad truncos emortuos in sylvis montanis *Sierra de Peribebuy*, 1 Nov. 1883 (sub num. 4091).

Obs. Species pulchella distinctissima a mycologis nonnullis cum *Lentino Lecomtei* Fr. confusa a quo tamen longissime abhorret nec quidem comparanda. Specimina guaranítica coespitosa, pileo cervino infundibuliformi-spathulato, superne adpresse minuteque squamuloso-furfuraceo, margine dense velutino-hispido, lamellis confertis latiusculis e rufescenti carneis acie integerrimis donata.

6. PANUS GUARANITICUS Speg. — Fung. guar. pug. I, n. 23.

Hab. Ad truncos dejectos putrescentes prope *Guarapí*, Oct. 1883 (sub num. 4092).

Obs. Species praecedenti peraffinis sed satis distincta, pileo rigidore lobato fissove cutique vix squamulosa tecto, margine laxo puberulo-hispido lamellis magis confertis atque strictioribus; variat nunc dimidiato-spathulata subsessilis, nunc stipitata infundibularis lobato-fissa.

7. POLYPORUS (*mesopus*) GUARAPIENSIS Speg. (n. sp.)

Diag. Lentus, truncigenus; pileus subhemisphaericus profunde umbilicatus excentricus (4-5 cent. diam.), lentus, subtenax, etiam in sicco flexilis, laevis, glaber, margine acutissimo integerrimo explanato vix undulato donatus, sordide testaceo-rufe-

scens, subconcentrice rugulosus ac radiatim non v. parcissime minuteque rimulosus (an etiam in vivo?); caro alba tenuissima vix centro evoluta (1 mllm. crass.), fibroso-stupposa; hymenium in vivo pallescenti-album in sicco sordide pallescenti-fulvescens, e poris brevissimis (0,5-1 mllm. long.) densissime constipatis, ore integro rotundato-angulato minuto (150-200 μ diam.), dissepimentis tenuibus donatis efformatum, non contracto-rimosum usque ad marginem evolutum etsi attenuatum, in stipite subdecurrens sed ab eo discretum ac facillime scissile; stipes teres, flaccido-tenax, undulatus, subtortuosus (3,5-4 cent. long. \times 4 mllm. crass.), basi subincrassatulus ac abrupte truncato-adnatus, intus albus fibrosus farctus, extus ex albo rufescens glaber laevis.

Hab. Ad truncos dejectos putrescentes prope *Guarapí*, Oct. 1883 (sub num. 4090).

Obs. Species *Polyporo guaranitico* Speg. affinis sed ab eo satis distincta.

8. POLYPORUS REPANDO-LOBATUS Speg. (n. sp.)

Diag. Lentus, truncigenus; pileus calyciformis v. infundibuliformis (4 cent. diam. \times 3,5 cent. alt.), lento-subcoriaceus, subtennis, rigidulus, margine acutissimus dense irregulariterque repando-lobatus v. subfissus, sordide testaceus, glaber, minute densissimeque radiatim fibroso-substriatus; caro alba, flocculoso-fibrosa, tenuis (1-1,5 mllm. crass.), usque ad marginem producta; hymenium e tubulis rigidulo-subcoriaceis, brevissimis (0,5 mllm. long.), densissime constipatis, ore minutissimis (250-300 μ diam.) rotundato-angulatis, dissepimentis subtennibus divisis efformatum, in vivo album, in sicco sordide pallescenti-rufescens, non rimosum, cum apice stipitis concretum atque evanescenti-confluens non decurrens, marginem versus evanescens ac zonam latiusculam (5 mllm. lat.) sterilem relinquens; stipes subteres (4 cent. long. \times 4 mllm. crass.), apice dilatato-compressulus, basi subincrassatus, truncato-adfixus, durus, lignosus intus farctus albus, extus rufescenti-testaceus, glaberrimus, laevissimus.

Hab. Ad truncos dejectos putrescentes cum priore prope *Guarapí*, Oct. 1883 (sub num. 4090).

9. POLYSTICTUS FULVICOLOR Speg. (n. sp.)

Diag. Pilei dimidiato-sessiles, spathulati v. flabellati (4 cent. diam. trans. \times 2,5-3 cent. ant. post.), saepius plures laterales connato-confluentes, antice rotundati, postice cuneati, superne applanati v. subconvexuli, in dimidia parte postica subazoni parcissime laxaque canescenti-velutini obscure fulvi opaci, in antica densiuscule concentrice zonati, pallescenti-fulvi, sulcis obscurioribus variegati, glaberrimi non v. parce radiatim noduloso-fibrosi, sericeo-subnitentes, margine repando-sublobati v. crenati, tenuissimi, acutissimi; hymenium sordide fulvescens v. fusco-pallescens, e tubulis breviusculis (1 mllm. long.), densissime constipatis, minutis, lacero-dedaleoideis, dissepimentis tenuibus divisis efformatum, ad marginem usque productum.

Hab. Ad truncos putrescentes in sylvis subvirgineis prope *Peribebuy*, Nov. 1883 (sub num. 4099).

Obs. Species pulchella sed facillime varietatem tantum *Polysticti versicoloris* (Fr.) sistens.

10. POLYSTICTUS SECTOR (Fr).

Hab. Ad truncos decorticatos putrescentes in sylvis prope *Peribebuy*, 1 Nov. 1883 (sub num. 4098).

11. POLYSTICTUS LUDENS Speg. — Fung. guar. pug. 1, n. 44.

Hab. Ad truncos putrescentes dejectos in sylvis densioribus prope *Peribebuy*, 1 Nov. 1883 (sub num. 4096).

Obs. Species, ut l. c. jam monui, *Polysticto sectori* Fr. affinis a quo recedit pileo spathulato, crassiore atque magis rigido hymenioque ex umbrino nigrescente dedaloideo.

12. POLYSTICTUS SUBTROPICALIS Speg. — Fung. guar. pug. 1, n. 46.

Hab. Ad truncos putrescentes in sylvis prope *Guarapí*, Mart. 1879 (sub num. 3400).

Obs. Species pulchella a *Polysticto flabelliformi* (Berk.) vix distincta.

13. POLYSTICTUS VERRUCOSO-HIRTUS Speg. — Fung. guar. pug. 1, n. 49.

Hab. Ad truncos putrescentes decorticatos in sylvis prope *Guarapí*, Jul. 1879 (sub num. 3363).

Obs. Specimina iterum ac sedulius inspecta comparataque, status juvenilus v. depauperatis *Trametis hydroidis* (Schw.) Fr. tantum videntur.

14. *PORIA LAEVIGATA* (Fr.) — Hym. eurp. p. 571.
Hab. Ad truncos dejectos putrescentes in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 3974).
Obs. Forma guaranítica *Poriam plebejam* (Berk.) accedens sed a typo certe non separanda.
15. *EXAGONA FRIESIANA* Speg. — Fung. guar. pug. I, n. 55.
Hab. Ad truncos dejectos putrescentes in sylvis montanis prope *Peribebuy*, 1 Nov. 1883 (sub num. 4089).
Obs. Specimina pileo superne zona marginale purpurascens-rufescente, glabrato-subnitente ornato donata.
16. *EXAGONA VERSICOLOR* Fr.
Hab. Ad truncos dejectos putrescentes in sylvis montanis prope *Peribebuy*, 1 Nov. 1883 (sub num. 4093).
Obs. Facile species in Fung. guar. pug. I, n. 54 sub nomine *Exagonae scutigerae* Fr. edita, sub hac militare videtur.
17. *LÁSCHIA GUARANITICA* Sp. — Fung. guar. pug. I, n. 57.
Hab. Ad ramos emortuos in sylvis prope *Guarapí*, Jan. 1883 (sub num. 3917).
Obs. Cum *Polyporo rhipidio* Berk. comparata, vix ab eo recedere videtur stipite brevior coloreque omnium partium pallidior ac rigiditate minore.
18. *SOLENTIA FASCICULATA* Pers. — Fr., Hym. eurp. p. 596.
Hab. Ad corticem truncorum putrescentem in sylvaticis *Calle poi* vocatis prope *Yaguaron*, 20 Sept. 1883 (sub num. 3999).
Obs. Clavulata, e niveo subcinerascens, minuta, dense congesta, extus squarrulosa; sporae e globoso obovatae ($5 \times 4 \mu$), hyalinae.
19. *ODONTIA BARBA-JOBI* Bull. — Fr., Hym. eurp. p. 627.
Hab. Ad ramos dejectos putrescentes in sylvis prope *Guarapí*, Sept. 1883 (sub num. 3975).
Obs. Specimina juvenilia subinevoluta sterilia.
20. *THELEPHORA ALBO-MARGINATA* Schw.
Hab. Ad corticem truncorum putrescentium in sylvis prope *Guarapí*, Sept. 1883 (sub num. 3973).

21. CORTICIUM CALCEUM (Pr.) Fr. — Hym. eurp. p. 652.

Hab. Ad corticem truncorum in umbrosis prope *Guarapí*, Sept. 1883 (sub num. 3977).

Obs. Specimina guaranítica varietatem majorem latissime effuso-incrustantem crassiusculam (4 mllm. crass.), in vivo mollem, in sicco rigidam, laevissimam, laxè spurieque tuberculosam, parce atque tenuiter rimulosam ex albo subcinerascentem sistentia. Sporis non visis.

22. CORTICIUM COMEDENS Fr.? — Hym. eurp. p. 656.

Hab. Ad ligna decorticata patrescentia prope *Guarapí*, Oct. 1883 (sub num. 3976).

Obs. Sterile; membranaceo-effusum, vix margine subliberum; hymenium sordide e glauco v. cinereo-carneum dense spurieque tuberculoso-undulatum, margine tantum laeve, plus minusve dense tenuiterque rimulosum. An species diversa?

23. CORTICIUM SERUM (Pers.) Fr. — Hym. eurp. p. 659.

Hab. Ad ramulos subvivos in dumetis prope *Paraguarí*, Aug. 1882 (sub num. 3983).

Obs. Sterile; flocculoso-compactiusculum, ex albo perdilute roseum.

24. CORTICIUM MICHELIANUM (Cald.) Fr. — Speg., Fung. guar. pug. 1, n. 78.

Hab. Ad ramulos foliaque viva *Citri aurantii* prope *Guarapí*, Mart. 1883 (sub num. 3892).

Obs. Species pulchella ac nonnihil *Thelephorae setiformi* Berk. vergens!

GASTEROMYCETEA Willd.

25. LYCOPERDON LILACINUM (Montg. et Berk.) Speg. — Fung. guar. p. I, n. 93.

Hab. Vulgatum in campis prope *Paraguarí* et *Guarapí*, Aut. 1881-83.

Obs. Specimina, quae sub num. 94 et sub nomine *Lycoperdi pseudo-lilacini* Speg. l. c. descripsi, nunc melius inspecta ac comparata forma tantum immatura hujus speciei videntur!

HYPODERMEAE DBy.

26. *CINTRACTIA PERIBEBUYENSIS* Speg. — Fung. guar. pug. 1, n. 104 (sub *Ustilagine*).

Hab. Ad basin pedunculorum spicularum *Cyperi* cujusdam in montuosis *Sierra de Peribebuy* vocatis, 25 Mart. 1883 (sub num. 3575).

27. *CINTRACTIA JUNCI* (Schw.) Farl.

f. *cylindrica* Wint., Exot. pilz. IV, p. 5.

Hab. Ad pedunculos spicularum *Cyperaceae* cujusdam in inundatis prope *Tacurú-pucú*, Oct. 1883 leg. Cl. Carl v. Gülich.

Obs. Species vulgatissima, etiam in *Chaco* argentino, a priore sporis minoribus, pallidioribus, lateraliter non compressis recedens.

28. *PUCCINIA BIGNONIACEARUM* Speg. (n. sp.)

Diag. Maculae nullae v. amphigenae, indeterminatae parum perspicuae superne fuscescentes inferne pallescentes, parvulae (1-3 mllm. diam.) sparsae v. hinc inde paucigregariae saepeque confluentes; acervuli hypophylli, macularum centro insidentes, e lenticulari subglobosi, pallide fusco-fulvescentes, parum manifesti, subpulverulenti, parvuli (100-150 μ diam.), sparsi v. 3-4-confluentes; teleutosporeae ellipticae v. elliptico-obovatae, utrinque late obtuseque rotundatae (35-40 \times 22-24 μ), medio parum constrictae, episporio crassiusculo, laxè minuteque verruculoso-hirto donatae, loculis 1-guttulatis, supero non v. vix majore, pallide testaceae; stipes subhyalinus v. chlorinus, breviusculus (35-40 \times 5-6 μ) sursum teres deorsum sensim attenuatus ac laxè verruculosus; paraphyses nullae v. paucae cylindraceae, arcuatae, continuae sursum crassiuscule tunicatae laeves atque obscure fulvescentes (35-40 \times 6-7 μ). Adsunt saepe etiam uredosporae.

Hab. Ad folia viva v. languida *Bignoniae* cujusdam scandentis in sylvis subvirgineis prope *Guarapí*, Oct. 1883 (sub num. 3932-4029).

29. *PUCCINIA PARAGUAYENSIS* Speg. (n. sp.)

Diag. Maculae nullae; acervuli hypophylli, sparsi v. hinc inde

densiuscule gregarii ac saepe subconfluentes, minuti (350-500 μ), non v. vix pulvinulati, pulverulenti, ferrugineo-cinnamomei; teleutosporeae ellipticae v. subclavulatae, obscure cinnamomeae, apice umbone crassiusculo subhyalino coronatae, inferne obtuse rotundatae (34-38 \times 24-26 μ), medio constrictulae episporio ubique crassiusculo laxè minuteque verruculoso-papilloso vestitae, loculis non v. grosse 1-guttulatis, supero non v. vix crassiore; stipes rectus, hyalinus (35-40 \times 5 μ), late fistulosus, medio subattenuatus, basi non v. vix subincrassatus verrucis paucis majusculis (saepe subspiniformibus) ornatus; paraphyses nullae. Adsunt saepe etiam uredosporeae.

Hab. Ad folia viva *Lippiae* arborescentis cujusdam in dumetis prope *Paraguarí*, Aug. 1883 (sub num. 3930).

Obs. Species *Puc. tuberculatae* Speg., Fung. arg. p. II, n. 28 peraffinis, vix teleutosporis brevioribus stipiteque verrucoso diversa!

30. PUCCINIA GUARANITICA Speg. (n. sp.)

Diag. Maculae nullae v. totum folium pallescens; acervuli hypophylli, obscure ferrugineo-cinnamomei, pulvinatuli, compactiusculi, subhemisphaerici (300-500 μ diam.), saepe confluentes et tandem lineares atque longissimi; teleutosporeae pulchre ferrugineo-fulvae, ellipticae v. obovatae, utrinque obtusae (30 \times 20 μ), medio non v. vix subconstrictae, apice non v. parcissime lateque umbonatae, episporio ubique crassiusculo vix apice incrassatulo vestitae, laevissimae, loculis non v. 1-guttulatis, supero nonnihil crassiore; stipes longiusculus, gracilis (70-80 \times 5 μ), sursum chlorinulus inferne hyalinus, laevis, teres. Uredosporeae desunt.

Hab. Ad folia viva *Tricuspidis latifoliae* in sylvis umbrosis prope *Guarapí*, Oct. 1883 (sub num. 3966).

31. UROMYCES PONTERIAE Speg. (n. sp.)

Diag. Maculae amphigenae, subdeterminatae, ellipticae (2 mllm. diam.), intense violaceo-purpurascens, saepe confluentes; acervuli amphigeni centro macularum insidentes, solitarii v. 1-3-aggregati, erumpentes, parvuli (250-400 μ), compactiusculi, intense ferrugineo-cinnamomei; teleutosporeae obovatae, lanceolatae v. trigonae, superne acute v. obtuse rotundatae, ibique crassissime tunicatae, inferne cuneatae, laevissimae (35-30 \times 15 μ), fulvo-fuligineae; stipes crassiusculus teres (30 \times 4-5 μ), subfulvescens, medio subattenuatus, laevis.

Hab. Ad folia viva *Pontederiae cordatae* in paludosis prope *Areguá*, Aug. 1883 (sub num. 3949).

Obs. Status uredosporicus *Uredinem pontederiae* Speg., Fung. arg. pug. I, n. 49 sistit.

32. *CRONARTIUM PARAGUAYENSE* Speg. (n. sp.)

Diag. Maculae amphigenae v. hypophyllae tantum, indeterminatae (3-4 mllm. diam.) pallescentes; pseudoperidia hypophylla in maculis irregulariter v. subcircinatim 6-18 laxe aggregata, parvula (1-2 mllm. long. \times 75-110 μ crass.), teretia, apice obtusa, basi non v. vix subincrassata, recta v. sufflexuosa, glabra, pallide testaceo-olivascens, contextu densissime minuteque subparenchymatico-oblongo, pellucido, olivaceo; sporulae ellipticae v. elliptico-angulosae, utrinque subtruncato-rotundatae, e mutua pressione saepe difformes, (30 \times 14-18 μ), tenuissime tunicatae, non v. grosse 1-guttulatae, laeves, pallide fulvescentes. Adest status microstylosporicus.

Hab. Ad folia viva *Bardanesiae* cujusdam in dumetis prope *Guarapí*, Aug. 1883 (sub num. 3938).

33. *COLEOSPORIUM?* *IGNOBILE* Speg. (n. sp.)

Diag. Maculae nullae v. totum folium utrinque indeterminato-pallescens; acervuli hypophylli, minuti (250-300 μ diam.) hinc inde densissime aggregati, rarius subsparsi, erumpentes, pulverulenti, pallidissime e lutescente fulvelli; stylosporae globoso-ovoidae (15-18 μ), modice tunicatae, episporio hyalino ubique densiuscule verruculoso, protoplasmate nubiloso-grumoso flavescens donatae, non v. 1-guttulatae, primo catenulatae dein liberae.

Hab. Ad folia plantae cujusdam ignotae in sylvis subvirgineis prope *Guarapí*, Aug. 1883 (sub num. 3941).

34. *UREDOPHYLLACEARUM* Cda. — Ic. fung. tom. III, p. 3, tab. 1, f. 9.

Hab. Ad folia viva *Orchideae* epiphytae cujusdam in sylvis prope *Guarapí*, Oct. 1883 (sub num. 4061).

Obs. Maculae nullae v. vix pallescentes; acervuli hypophylli sparsi minuti (300-450 μ diam.), diu tecti dein erumpentes, pallide fusco-fulvi; stylosporae globosae v. ovoideae (28-35 \times 24-26 μ), tenuiter tunicatae, laxissime verruculosae, pallide rufescentes.

35. UREDO INCOGNITA Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae pallescentes indeterminatae; acervuli amphigeni sparsi, mediocres (400-700 μ diam.), diu tecti dein erumpentes, epidermide laciniatim fissa cincti, pallide fulvi; stylosporae obovatae (22-25 \times 18-20 μ), episporio crassiusculo sublaxe verrucoso-hirto vestitae, pallide melleae.

Hab. Ad folia viva *Orchideae* terrestris (an *Liliaceae*?) cujusdam in herbosis prope *Guarapí*, Oct. 1883 (sub num. 4163).

Obs. Species priori affinis sed ut videtur satis distincta.

36. UREDO IGNOTA Speg. (n. sp.)

Diag. Maculae amphigenae orbiculares (2 mllm. diam.), indeterminatae, pallescentes; acervuli hypophylli, lineares minuti circinatim in margine macularum erumpentes, epidermide diu tecti dein subnudi, pallide fulvi; stylosporae globosae v. ovoideae (20-22 \times 18 μ), subtenuiter tunicatae, densiuscule verruculosae, non v. grosse 1-guttulatae, e hyalino pallidissime melleae.

Hab. Ad folia adhuc ignota in sylvis subvirgineis prope *Paraguari*, Oct. 1883 (sub num. 4021).

37. UREDO TUBERCULATA Speg. — Fung. arg. pug. I, n. 44.

Hab. Ad folia viva *Lantanae* species cujusdam in sylvis subvirgineis prope *Paraguari*, Oct. 1883 (sub num. 3924).

Obs. Stylosporae globosae (24-28 μ), verrucosae, fulvo-cinnamomeae.

38. UREDO PARAGUAYENSIS Speg. (n. sp.)

Diag. Maculae nullae; acervuli hypophylli sparsi v. hinc inde gregarii, minuti, pulverulenti; stylosporae, teleutosporis saepe commixtae, globosae (18-20 μ), tenuiter tunicatae, laxe minuteque verruculosae, pallide fulvo-cinnamomeae. Status stylosporicus *Pucciniae paraguayensis* Speg.

Hab. Ad folia viva *Lippiae* cujusdam in sylvis prope *Paraguari*, Oct. 1883 (sub num. 3930).

39. UREDO BIGNONIACEARUM Speg. (n. sp.)

Diag. Maculae nullae v. pallescentes minutae indeterminatae; acervuli hypophylli, e globoso lenticulares (80-100 μ diam.),

sparsi v. gregarii, sordide fulvi; stylosporae, teleutosporis saepe commixtae, globosae (30 μ), modice tunicatae, minute verruculosae, fulvo-ferrugineae. Status stylosporicus *Pucciniae bignoniacearum* Speg.

Hab. Ad folia viva *Bignoniae* scandentis cujusdam in dumetis prope *Guarapí*, Oct. 1883 (sub num. 4029).

41. TUBERCULINA PARAGUAYENSIS Speg. (n. sp.)

Diag. Maculae amphigenae v. hypophyllae tantum pallescentes parvulae; acervuli hyphophylli laxissimae aggregati, subhemisphaerici, minuti (100-120 μ), parum prominuli, fusco-ferruginei v. ferrugineo-subpurpurascentes; sporulae globosae (10-12 μ), tenui tunicatae, laeves, fusco-subviolascetes; sterigmata elongato-clavulata (25-30 \times 7-10 μ), nonnulla sterilia apice obtusa, caetera fertilia apice mucronato-acutata basi subcoalescentia, fusco-fuliginea, subopaca. Status microstylosporicus *Cronartii paraguayensis* Sp.

Hab. Ad folia viva *Bardanesiae* cujusdam in dumetis prope *Guarapí*, Aug. 1883 (sub num. 3938).

PHYCOMYCETEAЕ DBY.

42. CYSTOPUS CANDIDUS (Pers.) Lév. — Sacc., Syll. fung. vol. VII, pars I, fl. 234.

Hab. Ad folia viva, caules atque inflorescentias *Brassicae* cujusdam in cultis prope *Guarapí*, Oct. 1883 (sub num. 4066).

PYRENOMYCETEAЕ Fr.

PERISPORIACEAЕ Fr.

43. DIMEROSPORIUM TROPICALE Speg. — Fung. guar. pug. I, n. 168.

Hab. Parasitans in mycelio *Meliolarum* ad folia viva prope *Guarapí*, hiem. 1883 (sub num. 4020-26).

Obs. Mycelium effusum tenuissimum membranaceo-subcrustaceum ex hyphis gracilibus (3-4 μ crass.) pallide olivaceis conti-

nuis (?), subdiffluentibus subiculum meliolarum incrustantibus efformatum, facillime a matrice secedens; perithecia globosa (70-100 μ) atra glabra membranacea, contextu parenchymatico olivaceo donata; asci cylindraceo-obclavulati, brevissime stipitati (40-50 \times 8-11 μ), parce paraphysati, octospori; sporidia elliptico-elongata, non v. vix subclavulata (13-15 \times 4-5,5 μ), loculo supero parum crassiore obtusioreque, medio parce constricta, diu hyalina dein e chlorino pallide olivacea. Perithecia stylosporica (*Chaetophoma tropicale* Sp.) saepe adsunt, ascigeris simillima, sporulis ellipticis v. ovoideis utrinque obtusiusculis grosse 2-guttulatis (5-7 \times 2,5-4 μ), e chlorino hyalinis farcta.

44. DIMEROSPORIUM GUARAPIENSE Speg. — Fung. guar. pug. I, n. 169.

Hab. Ad folia viva *Sebastianiae* cujusdam Meliolis infecta in sylvis subvirgineis prope *Mbatobí*, Jul. 1883 (sub num. 3848).

Obs. Sub hoc nomine in l. c. species duo distinctae confusae; nunc typus sic delimitandus: Mycelium in subiculo meliolarum parasitans tenuissime membranaceo-subcrustaceum, ex hyphis tenuibus (2-2,5 μ crass.) olivascentibus subcontinuis, dense intricato-ramosis, subdiffluentibus efformatum, a matrice non v. aegre secedens; perithecia e globoso ovata (80-100 μ diam.), atra astoma submembranacea, contextu minute parenchymatico olivaceo-fusco donata, superne pilis paucis teretibus breviusculis (10-40 \times 4-5 μ), apice incurvo-subcircinatis obtusissimisque subopacis adpersa; asci cylindraceo-obclavati, apice subtruncato-rotundati, crassiuscule tunicati, 1-foveolati, postice rotundato-cuneati in pedicello brevissimo crassoque producti (35-40 \times 12-14 μ), paraphysibus filiformibus paucis apice saepe ramulosis obvallati; sporidia di-tri-sticha, cylindraceo-subclavulata, utrinque obtuse rotundata (13-15 \times 4-4,5 μ), loculo supero subcrassiore, pallide olivacea.

45. DIMEROSPORIUM SOLANICOLUM (Bk & C.) Speg.

Hab. Ad folia viva *Solanacearum* in *Asterina* quadam parasitans in sylvis prope *Guarapí*, Jul. 1883 (sub num. 2731).

Obs. Species in Fung. guar. p. I cum priore confusa, sed ab illa satis recedens atque sic delimitanda: Mycelium tenuissimum, effusum arcte matrice adnatum subarachnoideum parum manifestum ex hyphis gracillimis (2-3 μ crass.) in subiculo *Asterinae* parasi-

tantibus subcontinuis olivaceis compositum; perithecia globosa (50-90 μ) sparsa atra submembranacea, contextu minute parenchymatico olivaceo donata, hinc inde praecipue basin versus pilis nonnullis breviusculis tenuibus (30-50 \times 3-5 μ) terebibus fuligineo-olivaceis pellucidis sursum attenuatis ac pallidioribus apice acutiusculis non v. parce flexuoso-subuncinatis inspersa; asci cylindraneo-obclavati utrinque abrupte obtusati (35-38 \times 8-9 μ), pedicello brevissimo nodulosoque instructi, aparaphysati, octospori; sporidia cylindracea non v. vix subclavulata, utrinque obtusiuscula (14-16 \times 4-5 μ), medio non v. vix constricta, olivacea. Perithecia stylosporica (*Chaetophoma solanicolum* Speg.) etiam adsunt, sporulis cylindraneo-fusoideis, utrinque acutato-subtruncatis (10-13 \times 3 μ), chlorinulis farcta.

Species jam sub nomine *Asterinae solanicolae* Bk. & C. ex Cuba cognita, sed clarissimi auctores perithecia *Asterinae* et ascos sporidiaque *Dimerosporii* descripserunt. Specimina guaranitica cum cubensibus typicis comparata perfecte convenientia. A priore pilorum perithecii forma, magnitudine partium stylosporiarumque praecipue differt.

46. DIMEROSPORIUM IMPERSPICUUM Speg. (n. sp.)

Diag. Mycelium tenuissimum effusum laxiusculum subarachnoideum parum manifestum matrice arctiuscule adnatum, in subiculo *Asteridii* cujusdam parasitans, ex hyphis tenuibus (2-3 μ crass.) laxe ramulosis parce septulatis olivaceis efformatum; perithecia hinc inde sparsa, globulosa (50-80 μ) astoma atra laevia membranacea, contextu parenchymatico-olivaceo donata; asci obovati, antice obtuse rotundati crassissimeque tunicati, postice rotundato-cuneati, brevissime crasseque pedicellati (40-45 \times 15-20 μ) aparaphysati, octospori; sporidia inordinate constipata, elliptico-subobovata, utrinque obtusiuscula (16-17 \times 6 μ), medio 1-septato-subconstrictula, pallide fumoso-rufescentia.

Hab. Ad folia viva *Bilbergiae* cujusdam in *Asteridio* parasitans, prope Guarapí, Oct. 1883 (sub num. 4059).

47. DIMEROSPORIUM PANNOSUM Speg. (n. sp.)

Diag. Mycelium crassiusculum pannosum totum hypophyllum, nervo centrali saepius excepto, obtegens, atro-olivascens, tactu velutinum, ex hyphis gracilibus (3-4 μ crass.) olivaceis pellucidis flexuosulis septulatis dense ramuloso-intertextis, hypho-

podiis destitutis efformatum; perithecia hinc inde plus minusve mycelio infossa v. insculpta, atra globosa (120-180 μ) glabra coriacella, contextu indistincto olivaceo-fusco, astoma; asci cylindranei, sursum rotundati subcrassiuscule tunicati ac 1-foveolati, postice breviter cuneato-attenuati, pedicello brevissimo crassoque suffulti (60-70 \times 8-10 μ), paraphysibus filiformibus paucis immixti, octospori; sporidia elliptica utrinque attenuato-acutata v. minute subtruncata (16-17 \times 4-5 μ), loculis aequalibus non v. grosse 1-guttulatis, primo hyalina dein e chlorino olivacea.

Hab. Ad folia viva *Randiae aculeatae* in sylvis subvirgineis prope *Peribebuy*, 15 Sept. 1883 (sub num. 3984).

Obs. Species pulchella statu juvenili *Dimerosporii Collinsii* (Schw.) Thm. simillima.

48. *ASTERIDIUM?* *CORONATUM* Speg. (n. sp.)

Diag. Mycelium epiphyllum foliorum epidermidi arcte adnatum, maculis nullis v. vix pallescentibus insidens, plagulas suborbiculares (5-8 mllm. diam.) olivaceo-fumosas v. nubilosas ambitu evanescenti-indeterminatas efficiens, submembranaceum tenuissimum, ex hyphis gracilibus (2-3 μ crass.) olivaceis pellucidis, dense ramoso-intricatis, hyphopodiis destitutis subcontinuis compositum; perithecia mycelii centro v. subcircinatim insidentia, numerosa, dense gregaria, in vivo globosa (100-120 μ), sicca collabescentia, sursum setulis nonnullis (saepius 10-20) longiusculis gracilibus (200 \times 5-6 μ) fulgineis basi opacis apice pellucidis flexuosulis continuis divaricatis vestita, atra, subcoriaceo-membranacea, contextu parenchymatico vix distincto donata; asci cylindranei non v. vix obclavulati, sursum obtuse rotundati ac subcrassiuscule tunicati, deorsum breviter attenuati pedicello crasso brevissimoque suffulti (32-35 \times 8 μ), octospori, paraphysibus nullis v. paucis immixti; sporidia 2-v. 3-sticha, cylindraneo-subfusoidea, utrinque acutiuscule rotundata (10 \times 3 μ), medio 1-septato-constrictula, loculis 1-pseudoseptatis, supero non v. vix crassiore, hyalina.

Hab. Ad folia viva *Compositae* cujusdam coriacea in sylvis densioribus prope *Paraguari*, Aug. 1883 (sub num. 3925).

49. *ASTERIDIUM?* *ERYSIPOIDE* Speg. (n. sp.)

Diag. Maculae nullae v. totum folium vix pallescens; mycelium

hypophyllum laxissimum facillime detersile, subarachnoideum ex olivascente albicans vix perspicuum, ex hyphis laxe ramuloso-intricatis subhyalinis gracilibus (2-5 μ crass.) septulatis efformatum; perithecia in mycelio hinc inde sparsa v. subaggregata, superficialia globosa (100-120 μ) tenui membranacea, contextu atro-fuligineo parenchymatico donata, pilis basi subfasciculatis sursum liberis divaricatis subhyalinis rectiusculis subseptulatis, laevibus (150-220 \times 4-6 μ) e hyalino fumoso-chlorinis simplicibus vestita; asci cylindranei sursum obtusiuscule rotundati crasseque tunicati, deorsum cuneati ac in pedicello brevi crassoque producti (80-90 \times 18-20 μ), aparaphysati octospori; sporidia 2-3-sticha, cylindraneo-fusoidea utrinque acutiuscule rotundata (40-45 \times 5 μ), primo 5-8-guttulata, dein 7-septato-constricta non v. subtorulosa, loculo tertio supero non v. vix crassiore, hyalina.

Hab. Ad folia viva *Cupaniae* cujusdam in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 4075).

Obs. Species a genere satis recedens primo intuitu pro *Erysiphe* quadam facillime sumenda.

50. ASTERIDIUM DIMEROSPOROIDE Speg. (n. sp.)

Diag. Mycelium epiphyllum arctiuscule matrici adnatum tenuissimum late vageque serpens plus minusve obscure olivaceum ex hyphis tenuibus (3-3,5 μ crass.) flexuosis longissimis laxe ramuloso-intertextis septulatis olivaceis, hyhopodiis destitutis compositum: perithecia hinc inde plus minusve dense aggregata, viva globulosa (60-100 μ), sicca collabescentia fibris hyphis simillimis vestita, atra subverruculosa coriacella, contextu indistincto olivaceo donata; asci ovati sursum umbonato-rotundati crassissimeque tunicati, deorsum abrupte in pedicello minuto producti (50 \times 25 μ) aparaphysati, 4-8-spori; sporidia elliptica v. cymbaeformia utrinque acutiuscula (26 \times 8 μ), 2-septata, septis a centro remotis subpolaribus, non v. vix subconstricta, fumoso-olivacea, polis pallidioribus. Adest status stylosporicus.

Hab. Ad folia viva *Bilbergiae* v. *Pitchairniae* cujusdam in dumetis prope *Paraguarí*, Oct. 1883 (sub num. 4059).

51. ASTERIDIUM HIRSUTUM Speg. (n. sp.)

Diag. Maculae nullae; mycelium amphigenum v. saepius epi-

phyllum totum folium obtegens subcrustaceo-membranaceum compactiusculum, a matrice frustulatim facile secedens, fusco- v. olivaceo-atrum pruinulosum, ex hyphis subdiffluentibus longe denseque ramoso- intricatis, dense septato-subtorulosis (5-12 μ , crass.), hyphopodiis destitutis efformatum; perithecia hinc inde in mycelio sparsa v. pauci-aggregata, subsuperficialia atra, e globoso depressula (150-200 μ), in sicco subcollabescentia astoma (?), contextu parenchymatico-olivaceo, setulis nonnullis rigidulis rectis v. flexuosulis (50-200 \times 10 μ) divaricatulis obscure fuligineis sursum attenuatis pallidioribusque inspersa; asci obclavulati, sursum obtusissime rotundati crassissimeque tunicati 1-foveolatique, deorsum in pedicello brevi crassoque abrupte rotundati (80-100 \times 20 μ), aparaphysati, octospori; sporidia oblique disticha elliptica utrinque acutiuscula (25-28 \times 10 μ), tripseudoseptata, ad septa constrictula, hyalina.

Hab. Ad folia viva *Eugeniae* cujusdam in dumetis prope *Paraguari*, Sept. 1883 (sub num. 4083).

52. MELIOLA GUARANITICA Speg. — Fung. guar. pug. 1, n. 177.

Hab. Ad folia viva ignota in sylvis subvirgineis prope *Guarapi*, Nov. 1883 (sub num. 4019).

Obs. Pulvinuli arctiuscule matrici adnati effusi, irregulariter anguloso-repandi, atrii velutini; ramuli mycelii alterni ac hyphopodiis paucis sparsis alternis ramululiformibus elongato-subclavulatis apice subtruncatis 2-3-noduloso-geniculatis ornati; setulae erectae rigidulae opacae basi abrupte incurvatae non v. vix incrassatae, apice attenuatae integrae acutae atrae opacae; perithecia globosa (150-220 μ) rugulosa glabra membranaceo-coriacella; asci ellipsoidei breviter crasseque pedicellati (55-65 \times 20-30 μ), 2-4- spori, mox diffuentes; sporidia cylindracea utrinque rotundata (45-50 \times 15-18 μ), triseptato-constricta, opace fuliginea, in juventute loculis extimis pallidioribus.

Species *M. gangliiformi* Klkb. & Ck peraffinis, sed mihi specimina autentica ad comparandum deficiunt et descriptio auctorum nimis manca. Hyphopodia adsunt quae in descriptione primitiva l. c. negavi!

53. MELIOLA WINTERII Speg. (n. sp.)

Diag. Pulvinuli epiphylli, orbiculares (4-6 mllm. diam.) saepe hinc inde 2-3-confluentes, villo foliorum fere absconditi atque

intermixti et tandem parum manifesti, atrii, ex hyphis gracilibus (4-7 μ crass.) fuliginosis septulatis flexuosulis oppositè v. alterne ramosis, hyphopodiis destitutis, vix ramululis curvulis acutiusculis (15 \times 15 μ) hinc inde alterne ornatis, compositum, setulis destitutum; perithecia globosa (200-220 μ) subexerto-superficialia, centro pulvinulorum laxè aggregata, atra glabra verruculosa membranacea, contextu parenchymatico fuligineo donata; asci ellipsoidei antice rotundati postice cuneati breviter crasseque pedicellati (65 \times 30 μ), 2-spori, mox diffluentes; sporidia elliptico-cylindracea utrinque rotundata (50-55 \times 20 μ), 4-septata, ad septa parum constricta, fuliginea.

Hab. Ad folia viva *Solani verbascifolii* in sylvis montanis in *Sierra de Peribebuy*, 15 Sept. 1883 (sub num. 3986).

Obs. Species cum nonnullis aliis sub nomine *M. ludibundae* Speg. edita, sed nunc monente Cl. Wintero, sedulius inspecta bene riteque distincta.

54. MELIOLA BIDENTATA Ck. — Grev. VI, p. 37.

Hab. Ad folia viva *Bignoniae* cujusdam in dumetis prope *Guarapí*, Maj. 1883 (sub num. 2730).

Obs. Species imprudenter sub nomine *M. furcatae* Lév. in *Fung. guar. p. I* edita, a qua longissime recedit nec quidem comparanda. Mycelium epiphyllum maculare tenuissime pelliculosum subvelutinum arctiuscule matrice adnatum; hyphopodia elliptico-obovata (18-20 \times 8-10 μ) pedicellata alterna; setulae densiusculae apice breviter 2-5-dentatae; perithecia globosa (150-200 μ) glabra atra papillulosa in sicco cupulato-collapsa; sporidia cylindracea utrinque obtusa (35-45 \times 12-13 μ) 4-septata, ad septa constrictula, fuliginea.

55. MELIOLA WEIGELTII Kunz. — Weigelt's exsiccata n. 137 (fid. Winter.).

Hab. Ad folia viva *Astronii* species in sylvis montanis *Sierra de Peribebuy*, Jul. 1883 (sub num. 3791-3844).

Obs. Species in *Fung. guar. pug. I*, cum priore sub nomine *M. furcatae* Lév. ignoranter confusa, ab utraque tamen longe recedens. Mycelium epiphyllum tenuissimum arachnoideo-effusum laxissime setulosum atrum parum manifestum; hyphopodia subopposita v. alterna cylindraceo-subobovata pedicellata (18-20 \times 6-8 μ); setulae paucissimae apice brevissime tridentatae;

perithecia globosa (150 μ) atra granulosa coriacea, in sicco subcollabescentia; asci non visi; sporidia cylindracea, utrinque obtusa (36-40 \times 14-16 μ), 4-septato-constricta, fuliginea.

56. MELIOLA BICORNIS Wint. — Hedw. 1886 p. 99.

Hab. Ad folia viva *Mimosae procurrentis* in herbosis prope sylva *Caá-guazú*, Jan. 1882 (sub num. 3503).

Obs. Specimina guaranítica sub *M. ludibunda* Speg. in l. c. edita a typo sporidiis conspicue brevioribus (28-34 \times 9-12 μ) setulisque apice vix denticulatis v. ramulo tantum evoluto recedentia.

57. MELIOLA BICORNIS Wint.

var. *constipata* Speg.

Diag. Pulvinuli saepius epiphylli orbiculares (2-5 mllm.) sparsi v. subconfluentes, arctiuscule matrici adnati, subcrustaceo-pelliculosi, atrii vix centro subhispiduli; hyphae repentis dense intricatae, crassiusculae (8-9 μ) fuliginis rectiusculae densiuscule alterno- v. opposito-ramulosae; hyphopodia conferta alterna v. subopposita, obovata v. clavulata 1-cellulari-stipitata (12-16 \times 10 μ), fuliginea, non v. grosse 1-guttulata; setulae saepius centro pulvinuli evolutae, erectae (80-200 \times 5-7 μ) rectae rigidulae apice obtusissimae v. subtruncatae integrae v. vix subbicrenatae subpellucidae, ceterum atro-fuliginis opacae, basi non v. vix curvulae, teretes; perithecia centro pulvinulorum dense constipata, viva globosa (120-200 μ), sicca non v. parce collabescentia, atra minute verruculosa glabra v. basi setulis paucis minoribus cincta; asci elliptici, basi crasse brevissimeque stipitati (60 \times 22 μ), 2-sporei; sporidia cylindracea, utrinque rotundata (40-44 \times 13-15 μ), recta v. subcurvula, 4-septata, ad septa parce constrictula, loculis omnibus subaequalibus, fuliginea.

Hab. Ad folia *Leguminosae* cujusdam in *Sierra de Peribebuy*, Aug. 1883 (sub num. 4022).

58. MELIOLA ARALIAE (Spr.) Mntgn.

Hab. Ad folia viva plantae cujusdam ignotae in sylvis subvirginis prope *Guarapí*, Jun. 1881 (sub num. 2745).

Obs. Specimina typum Sprengelianum, nescio si etiam Montagnanum, sistunt, et in Fung. guar. pug. I sub *M. ludibunda* Speg. edita. Mycelium plagulas suborbiculares atras velutinas tenui-

ter pelliculosas efficiens, arcte matrice subbullosa adnatum; hyphopodia subopposita v. alterna densissima, obovata, subpedicellata ($10-15 \times 8-9 \mu$); setulae densiusculae erectae cylindraceae subcarbonaceae rigidae opacae apice acutissimae integrae; perithecia basi non v. vix setulosa, globosa ($200-250 \mu$), non collabescentia, glabra atra laevia v. vix subverruculosa; sporidia cylindracea v. cylindraceo-subelliptica, utrinque obtusa ($44-46 \times 14-15 \mu$), 4-septata parum constricta, fuliginea.

59. MELIOLA MALACOTRICHIA Speg. (n. sp.)

Diag. Mycelium plagulas atras suborbiculares (1-3 mllm. diam.) saepe confluenti-irregulares, pelliculoso-velutinas, matrici arcte adnatas efficiens; hyphae repentes dense oppositi-v. suboppositi-ramosae pellucidae septulatae fuligineae (5-6 μ crass.) hyphopodiis oppositis v. suboppositis ovoideis v. subglobosis pedicellatis ($10-12 \times 5-8 \mu$) dense ornatae; setulae confertiusculae molliusculae pellucidae 5-7-septatae olivaceo-atrae apice pallidiores integrae obtusiusculae ($150-250 \times 5-10 \mu$), basi non v. parce incrassatae; perithecia centro plagularum laxe aggregata, uda globosa ($150-200 \mu$), sicca cupulato-collapsa, glabra setulis paucis basi cincta, laevia v. vix subrugulosa, coriaceo-membranacea, contextu parenchymatico fusco-atro; asci non visi; sporidia cylindracea utrinque obtusa ($28-38 \times 9-16 \mu$), 4-septata ad septa leniter constricta, fuliginea.

Hab. Ad folia viva *Dichondrae repentis* in herbosis prope *Paraguari* et in sylva *Caá-guazú*, per ann. 1881-82 (sub num. 2720-3494).

Obs. Species sub nomine *M. ludibunda* Speg. cum prioribus confusa, *M. araliae* (Spr.) Mntgn. peraffinis, a qua tamen recedit setulis mycelii molliusculis pellucidis obtusioribusque ac sporidiis conspicue brevioribus. An tantum ejusdem varietas?

60. MELIOLA LUDIBUNDA Speg. — Fung. guar. pug. I, n. 178 (pro parte).

Hab. Ad folia viva *Pilocarpi pinnatae* in sylvis prope *Villarica*, Jan. 1882 (sub num. 3489).

Obs. Speciei hujusdem typus sic delimitandus videtur: Mycelium plagulas irregulariter expansas (3-5 mllm. diam.), saepe confluentes subpelliculosas atras velutinas matrice adnatas efficiens; hyphae repentes septulatae (6-7 μ crass.) opposito-ra-

mosae, hyphopodiis oppositis v. suboppositis longe pedicellatis irregulariter ovato-repandis subtuberculosis ($30 \times 14 \mu$) densiuscule ornatae; setulae laxe gregariae molliusculae olivaceae septulatae apice pallidiores obtusae integrae ($250-300 \times 8-10 \mu$); perithecia globosa ($150-200 \mu$) verruculosa non v. vix collabescentia glabra basi setulis paucis cincta contextu parenchymatico-fuligineo parum distincto; asci 2-4-spori ovati ($45 \times 30 \mu$); sporidia subcylindracea, utrinque obtusa ($40-50 \times 16-17 \mu$), 4-septata ad septa parum constricta, loculo medio nonnihil longiore crassioreque, fuliginea. A *M. malacotricha* Speg. recedit hyphopodiis longius pedicellatis subtuberculatisque atque sporidiis conspicue longioribus.

61. MELIOLA POLYTRICHA Kalk. & Ck. — Sacc., Syll. pyr. I, p. 67, n. 26.

Hab. Ad folia viva *Schini mollis* in sylvis subvirgineis prope *Guarapí*, 1880 (sub num. 2800).

Obs. Species in Fung. guar. pug. 1, n. 178 cum *M. ludibunda* Speg. confusa etsi satis riteque distincta. Mycelium irregulariter maculosum saepe totum folium obtegens, tenuissime pelliculoso-crustaceum, arcte matrici adnatum, atrum, centro setuloso-velutinum; hyphae flexuosae repentes ($7-8 \mu$ crass.), oppositi-v. alterni-ramosae, dense intricatae; hyphopodia confertiuscula alterna, circa perithecia saepius ampulluliformia, caetera obovato-subglobosa repandula v. sublobata pedicellata ($20 \times 14 \mu$); setulae rigidulae graciles longiusculae ($300-500 \times 4-10 \mu$) atrae opacae, sursum attenuatae, apice obtuse acutatae integrae; perithecia centro macularum subconferta globosa ($200-250 \mu$), subcollabescentia atra granulosa, basi setulis paucis cincta, contextu indistincto atro; asci obovati v. elliptici ($50-55 \times 30 \mu$), 4-spori; sporidia cylindracea utrinque obtusa ($35-42 \times 13-15 \mu$) recta v. curvula, loculo centrali non v. crassiore fuliginea.

62. MELIOLA ERIOPHORA Speg. (n. sp.)

Diag. Pulvinuli epiphylli suborbiculares ($2-5$ mllm. diam.) sparsi v. hinc inde confluentes, aterrimi lanuginoso-hirsuti, arctiuscule matrici adnati; hyphae repentes dense intertextae, crassiusculae ($10-15 \mu$ crass.) atrae opacae dense opposito-ramosae, ramulis v. hyphopodiis subclavulatis ($25-30 \times 15 \mu$)

opacis rectis, in juventute pellucidis ac transverse subarcuato-rugulosis alternis sessilibus densis ornatae; setulae densiusculae erectae, sursum subattenuatae arcuato-subcircinatae integrae, deorsum non v. vix incrassatae ($250-300 \times 10-15 \mu$), atrae opacae; perithecia hinc inde sparsa, setulis abscondita, globosa ($150-200 \mu$) non collabescentia, coriacea opaca glabra basi nuda v. setulis nonnullis cincta, verruculosa, contextu indistincto; asci elliptici ($60 \times 30 \mu$), 2-3-spori, basi crassissime brevissimeque umbonato-stipitati; sporidia cylindracea non v. vix subcurvula, utrinque rotundata ($48-58 \times 15-22 \mu$), 4-septata, ad septa constrictula, loculis subcuboideis, omnibus subaequalibus, primo diuque hyalina dein fuliginea.

Hab. Ad folia viva *Fici ibapoy* Pdi. in sylvis montanis prope *Paraguari*, Jan. 1883 (sine num.)

63. MELIOLA DELICATULA Speg. (n. sp.)

Diag. Pulvinuli hypophylli, latiusculi (1 cent. diam.), effuso-arachnoidei, centro subcompactiusculi, marginem versus gradatim tenuiores ac nubiloso-evanescentes, atrii velutini; hyphae repentes flexuosulae laxiusculae graciles ($5-6 \mu$ crass.) fuligineae pellucidae septulatae, opposite rarius alternatim ramosae, hyphopodiis paucis globoso-v. ovoideo-angulosis ($8-10 \mu$) 1-cellulari-pedicellatis alternis ornatae; setulae laxae erectae rectae rigidulae ($180-200 \times 7-8 \mu$) atrae opacae, apice acutae integerrimae, basi teretes non v. vix curvulae; perithecia centro pulvinulorum plus minusve confertiuscula, globosa ($150-200 \mu$), atra coriacea glabra, vix basi setulis 5-10-brevioribus cincta, laevia; asci non visi; sporidia cylindraceo-subelliptica utrinque obtusiuscule subrotundata ($45-50 \times 11-12 \mu$), 4-septata, ad septa constrictula loculo intimo submajore, opace fuliginea.

Hab. Ad folia viva *Myrsinis* cujusdam in dumetis montanis, *Sierra de Peribebuy*, 15 Sept. 1883 (sub num. 3985).

64. MELIOLA SPEGAZZINIANA Wint (n. sp.) in litt. 14 Jan. 1887.

Diag. Mycelium maculas effusas irregulariter orbiculares saepius confluentes hypophyllas, tomento foliorum absconditas, non v. parcissime setulosas efficiens; hyphae repentes pellucidae septulatae (8μ crass.) alterni-ramosae flexuosulae dense intricatae; hyphopodia pauca, alterna obovata, pedicellata ($20 \times 8 \mu$), a ramululis parum diversa; setulae paucissimae erectae ($300-500$

$\times 5-10 \mu$) subopacae atrae subrigidulae, apice subrugulosa obtusae integrae; perithecia globosa (250-300 μ), sicca collabescentia subsuperficialia, centro macularum laxe gregaria, glabra v. basi vix setulis paucis cincta, verruculosa atra subcoriacea, contextu indistincto; asci ovati 3-4-spori, mox diffluentes; sporidia elliptica, utrinque attenuato-rotundata (50-62 \times 20-24 μ), loculo medio conspicue crassiore longioreque, extimis hemisphaericis parvulis, fuliginea.

Hab. Ad folia *Compositarum* arborescentium in sylvis prope *Paraguari*, 5 Mart. 1883 (sub num. 3751).

Obs. Species in *Fung. guar.* pug. I, sub num. 174 et sub nomine *M. amphitrichae* Fr. edita, a qua tamen longissime abhorret fabrica magnitudineque omnium partium.

SPHAERIACEAE Fr.

65. EUTIPA AURANTICOLA Speg. (n. sp.)

Diag. Stroma late ambiens per lignum corticatum v. decortiatum nigrefactum profunde ac tortuose excurrens, linea nigra plus minusve manifesta limitatum; perithecia dense aggregata hinc inde tuberculos e conoideo mammoideos efficientia, immersa globosa (200-250 μ) atra coriacea, contextu indistincto olivaceo, nucleo chlorinulo mucoso farcta, in ostioli rectis v. flexuosulis subcylindraceutis plus minusve longe exertis (1-3 mllm. long. \times 0,3-0,4 mllm. crass.) atris carbonaceis apice laevibus obtusiusculis, subfasciculatim tuberculos peritheciigeros coronantibus producta; asci clavulati (14-16 \times 4-5 μ) primo pedicello fluxili suffulti, mox liberi, octospori aparaphysati; sporidia disticha cylindraceuta utrinque obtusiuscula ac minute 1-guttulata, valide arcuato-botuliformia (4-5 \times 1 μ), hyalina.

Hab. Ad radices crassiores emortuas *Citri aurantii* in cultis prope *Posta-cué* et *Yaguaron*, Sept. 1883 (sub num. 3997).

Obs. Species habitu praecipue *Eut. comosae* Speg. peraffinis, a qua tamen sporidiorum magnitudine ac eorum coloratione longe recedens.

66. EUTYPA COMOSA Speg. — *Fung. arg.* pug. IV, n. 121.

Hab. Ad truncos emortuos putrescentes *Celtidis boliviensis* in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 3970).

Obs. Specimina guaranitica a typo nonnihil deflectentia, ostioli minus elongatis gracilioribusque, nec non sporidiis subnavicularibus utrinque acutiusculis atque 1-guttulatis ($4-5 \times 2 \mu$), brevioribus.

67. *EUTYPA FLAVOVIRESCENS* (Hoff.) Tul. — Sacc., Syll. pyr. I, p. 172.

Hab. Ad ramos emortuos dejectos in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 3971).

Obs. Forma guaranitica fere diatrypea ac *Diatrypi chlorosarcae* B & Br. peraffinis! Sporidia cylindracea utrinque obtusiuscula ($9-10 \times 2-3 \mu$) chlorinula.

68. *EUTYPA HETERACANTHA* Sacc. — Syll. pyr. I, p. 177.

Hab. Ad ramulos emortuos putrescentes in sylvis subvirgineis prope *Guarapí*, Aug. 1883 (sub num. 3959).

Obs. Asci in parte sporifera $14 \times 4 \mu$, in stipite $25-30 \times 1 \mu$, octospori, paraphysibus paucis longioribus guttulatis obvallati; sporidia 2-sticha v. subconglobata, cylindracea lunato-arcuata, utrinque obtusiuscula ac minute 1-guttulata ($4-5 \times 1 \mu$) chlorinula. Characteres stromatis ac perithecorum cum typo perfecte conveniunt.

69. *EUTYPA LUDIBUNDA* Sacc. — Syll. pyr. I. 167.

Hab. Ad ramulos dejectos putrescentes in sylvis prope *Guarapí* Aug. 1883 (sub num. 3958).

Obs. Ostiola non v. vix exerta obtusa profunde umbilicata 3-5-sulcata; asci clavulati, apice truncatuli ($80-100 \mu$ long. tot. = $35-40 \times 5 \mu$ in p. sp.), octospori, aparaphysati; sporidia disticha, cylindraceo-allantoidea utrinque rotundata atque 1-guttulata ($9-10 \times 2-3 \mu$) chlorinula; characteres caeteri cum typo perfecte conveniunt.

70. *DIATRYPELLA VERRUCIFORMIS* (Ehrh) Nits — Sacc., Syll. pyr. I, p. 200.

Hab. Ad ramulos dejectos putrescentes plantae cujusdam ignotae in sylvis prope *Guarapí*, 15 Oct. 1883 (sub num. 4067).

Obs. Sporidia botuliformia vix curvula utrinque obtusula ($7-8 \times 2-2,5 \mu$) ac minute 1-guttulata e chlorino hyalina.

71. LAESTADIA ENGLERI Speg. (n. sp.)

Diag. Maculae arescentes, sordide albae subpellucidae (in sicco), latissimae (5-10 cent. diam.), irregulariter expansae determinatae; perithecia in maculis sparsa v. hinc inde laxe gregaria, parenchymate immersa, ad epiphyllum tantum perspicua ac suberumpenti-prominula, lenticularia minuta (80-120 μ) atra glabra astoma? atque irregulariter dehiscentia, superne coriacea contextu eximie parenchymatico-olivaceo inferne tenuissima (an dimidiata?) fumosa, contextu indistincto; asci subcylindracei antice obtuse rotundati crasseque tunicati, postice rotundato-cuneati, breviter crasseque pedicellati (40 \times 15 μ), octospori, aparaphysati; sporidia disticha elliptico-subcymbaefermia utrinque acutiuscule rotundata (15-17 \times 5-6 μ) saepeque minute 1-guttulata, hyalina.

Hab. Ad folia viva *Spathicarpae lanceolatae* in umbrosis montanis *Sierra de Peribebuy*, Nov. de 1883 (sub num. 4106).

72. PHOMATOSPORA BOTRYOSPHAERIOIDES Speg. (n. sp.)

Diag. Perithecia subepidermica, hinc inde densiuscule gregaria, semper tamen discreta e lenticulari conoidea (200-250 μ), tecta, ostiolo papillulato epidermidem perforante donata, atra glabra subcarbonacea, contextu indistincto; asci cylindracei antice rotundati crasseque tunicati 1-foveolatique, deorsum leniter attenuati pedicello crasso brevique suffulti (85-90 \times 18 μ), octospori, aparaphysati; sporidia disticha elliptica v. subrhomboidea utrinque obtusiuscule subacutata (18-20 \times 8-9 μ), continua hyalina.

Hab. Ad ramulos dejectos putrescentes in umbrosis humidis prope *Guarapí*, 10 Dic. 1883 (sub num. 4102).

Obs. Species pulchella, formae gregariae ac aparaphysatae *Botryosphaeriae Berengerianae* DNtrs. simillima! An ejusdem varietas?

73. TRICHOSPHERIA ACANTHOSTROMA (Mntg.) Sacc — Syll. pyr. I, p. 455.

Hab. Ad corticem crassiorem arbusculae cujusdam prope *Guajaviti*, Aug. 1883 (sub num. 3950).

Obs. Species sine ullo dubio cum *Sphaeria* (byssiseda) *foveolata* B. & C. (sub *Rosellinia* in Sacc., Syll. pyr. I, pag. 271) identica. Subiculum late effusum subpannosum crassiusculum olivascenti-

atrum, ex hyphis crassiusculis olivaceo-fuligineis flexuosis dense ramoso-intertextis efformatum; perithecia hinc inde dense aggregata primo clavulato-subglobosa (250-300 μ). mox cupulato-collapsa, in subiculo subsuperficialia, basi stipitulo crasso brevique setulis nonnullis erecto-divaricatis atro-opacis apice integris atque acutis armato suffulta, glabra laevia, e carnosio subcoriacea, contextu atro indistincto; asci clavulati antice rotundati postice longe attenuato-pedicellati (p. sp. 15-16 \times 8 μ), octospori aparaphysati; sporidia 2-3-sticha, elliptica, in sicco navicularia, utrinque obtuse rotundata (6 \times 2,5 μ), majusculae biguttulata, hyalina.

Specimina guaranitica cum cubensibus comparata perfecte convenientia, et species a *Scortechinia acantostroma* Sacc. & Berl. (nec Mntgn.) longissime recedens.

74. SCORTECHINIA CULCITELLA (B. & Rav.) Speg.

Hab. Ad corticem crassiorem arbusculae cujusdam in sylvis prope *Calle-poi*, *Yaguaron* et *Guarapi* Sept. 1883 (sub num. 3972-4001).

Obs. Species sine dubio ullo cum *Scortechinia acantostroma* Sacc. & Berl. identica, et a priore plane distincta nec quidem comparanda. Specimina guaranitica cum nicaraguensibus nec non cum frustulo cubensi a Cl. Wrightio mihi misso (una cum *Hypoxilo marginato* (Schw.), num. 830) perfecte congruentia. Subiculum plus minusve crasse pannosum late effusum atrum v. olivascenti-atrum, ex hyphis basi dichotomis, sursum distichosimpodiceis (zig-zac-formibus!) opace fuligineis septulatis (internod. 10-15 μ long. \times 5-6 μ crass), ramululis spiniformibus divaricatulis (5-18 \times 5 μ), apice breviter patenteque bifidis, rarius simplicibus v. subdichotomis compositum; perithecia subiculo immersa, globosa (100-150 μ) atra coriacella, contextu parenchymatico parum distincto atro-fuligineo donata, glabra v. hyphis mycelialibus paucis radiantibus ornata, astoma saepissime sterilia; asci non visi; sporidia elliptica, utrinque obtusiuscula (10 \times 3,5 μ) grosse 2-guttulata hyalina

75. ANTHOSTOMELLA HEMILEUCA Speg. (n. sp.)

Diag. Maculae nullae v. totum folium pallescens; perithecia hinc inde sparsa v. laxissime 3-10-aggregata, epiphylla, parenchymate immersa, epidermide vix nigrefacta arctiuscule adnato-tecta, lenticularia minuta (120-150 μ) ostiolo papillaeformi vix

evoluta ac non v. vix subexserta coronata, atra coriacella, contextu indistincto; asci cylindranei apice rotundati deorsum in pedicello breviusculo crassiusculoque attenuati ($150 \times 10-14 \mu$), aparaphysati octospori; sporidia oblique monosticha, e fronte elliptica utrinque acutiuscule rotundata ($20-24 \times 8-10 \mu$), e latere elliptico-dimidiata, parte deficiente segmento isomorpha mucoso hyalino sostituta, ad extremitatem inferam caudula subconoidea ($4-5 \times 1-2 \mu$) hyalino-mucosa aucta.

Hab. Ad folia dejecta ac putrescentia *Cocos australis* in montanis *Sierra de Peribebuy* vocatis, 24 Mayo 1883 (sub num. 4035).

76. HYPOXYLON ANTRACHODERMA Speg. (n. sp.)

Diag. Stromata innato-erumpentia difformia late irregulariterque expansa (1-3 cent. diam.), parum incrassata, crustaceo-carbonacea durissima, margine abruptiuscule marginata, planissima, oculo nudo vix lenissime densissimeque colliculoso-papillosa, papillis ostiolo stigmatiforme subimperspicuo instructis, aterrima opaca glabra; perithecia elliptico-globosa, densissime constipata ($250-300 \mu$), saepe e mutua pressione angulosa, superne non v. vix prominula ostiolo minutissimo perforata, atra carbonacea subnitentia; asci cylindranei gracillimi longiusculi (p. sp. $70-80 \times 5 \mu = \text{ped. } 50 \times 2-3 \mu$) aparaphysati, octospori; sporidia recte v. oblique monosticha elliptico-navicularia, utrinque obtusiuscula ($8-10 \times 3,5-4 \mu$) non v. grosse 2-guttulata, fuliginea.

Hab. Ad corticem crassiorem truncorum putrescentium in sylvis prope *Guarapí*, Sept. 1883 (sub num. 3996).

Obs. Species trivialis inter *Placoxylon* et *Endoxylon* media, aliis perplurimis affinis, cum nulla autem comparata bene congruens.

77. HYPOXYLON BALANSAE Speg. (n. sp.)

Diag. Stromata sublinearia v. elliptico-elongata, utrinque rotundata saepeque confluentia (1-3 cent. long. \times 2-4 mllm. lat. \times 500-700 μ crass.) margine rotundata, plana v. vix longitudinaliter leniterque undulata, minute laxaque papillulosa, fusco-atra subopaca carbonacea glabra; perithecia densissime constipata, globosa (250μ) atra carbonacea, ostiolo subconoideo non v. vix e stromate erumpenti-subprominulo simplice instructa; asci mox diffluentes non visi; sporidia cylindranea, utrinque subtruncato-rotundata ($8-12 \times 4-5 \mu$), nunquam inaequilateralia, grosse biguttulata, pallide fuliginea.

Hab. Ad lignum denudatum mucidum dealbatumque in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 3978).

Obs. Species aliis per plurimis, *Hyp. udo* (Prs.) Fr. praecipue, cognata, sporidiorum fabrica tamen mox dignoscenda.

78. *HYPOXYLON BAMBUSICOLUM* Speg. — Fung. guar. p. I, n. 280 (sub *Auerswaldia*).

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in sylvis uliginosis prope *Carapeguá*, 24 Jul. 1883 (sub num. 4036).

Obs. Species generi *Auerswaldiae* antea adscripta nunc melius inspecta stromatis natura peritheciorumque fabrica ad *Hypoxylon* sine dubio transferenda. Sporidia subopace fuliginea ($14-15 \times 6 \mu$). Facillime cum *Hyp. culmorum* Ck., ut l. c. jam monui, identica!

79. *HYPOXYLON INTERMEDIUM* Speg. — Fung. guar pug. I, n. 203.

Hab. Ad truncos corticatos muscosos in sylvis roridis inter *Callepoi* et *Yagaron*, 20 Sept. 1883 (sub num. 4005).

Obs. Sporidia elliptica ($12-13 \times 6 \mu$); ascorum apex luce refracta tri-foveolatus.

80. *HYPOXYLON LATISSIMUM* Speg. (n. sp.)

Diag. Stromata cortice innato-superficialia, latissime expansa, (5-10 cent. diam.) ambitu repando-sinuosa, pulvinulata (1,5 mllm. crass.) superne applanata, non v. vix hinc inde undulata, margine abrupte subtruncato-rotundata ac effuso-subareolata, atra v. fusco-atra opaca in parte pulvinata laxe papillato-asperula; perithecia elliptica (1 mllm. alt. $\times 0,5-0,6$ mllm. crass.) atra carbonacea non exerta nec prominula, ostiolo conoideo-papillaeformi simplice in stromate vix punctulato-subexerto ornata; asci cylindranei, antice rotundati crasseque tunicati, postice breviter attenuato-pedicellati (p. sp. $90-100 \times 10 \mu$), octospori, paraphysibus filiformibus longioribus guttulatis obvallati; sporidia oblique v. subrecte monosticha, elliptico-navicularia ($18-20 \times 8 \mu$), utrinque acutiuscule rotundata, non v. grosse 1-2-guttulata, fuliginea.

Hab. Ad corticem crassiorem truncorum adhuc viventium in sylvis prope *Guarapí*, Sept. 1883 (sub num. 4030).

Obs. Species inter *Hypoxylon* et *Nummulariam* ambigua; an huc *Hyp. Broomeanum* B. & C.?

81. HYPOXYLON MINUTUM Nits. — Sacc., Syll. pyr. I, pag. 387.

Hab. Ad lignum mucidum decorticatum in sylvis roridis prope *Guarapí*, Sept. 1883 (sub num. 3969).

Obs. Specimina guaranítica cum europeis nec non cum nicaraguen-sibus congruentia, habitu inter *Hypoxylon* et *Roselliniam* media. Perithecia sparsa v. aggregata, globosa, matrici insculpta papillulato-ostiolata in juventute subiculo gossypino albo tecta ac juncta; asci cylindranei (p. sp. $75-80 \times 7-9 \mu$), modice pedicellati paraphysati octospori; sporidia elliptica non v. vix subinaequilateralia, utrinque acutiuscule rotundata ($8-10 \times 5-6 \mu$), recte v. oblique monosticha, fuliginea.

82. HYPOXYLON RUBIGINOSUM (Prs.) Fr. — Speg., Fung. guar. pug. I, n. 198.

Hab. Ad truncos ramulosque dejectos emortuos in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 3993).

Obs. Forma guaranítica a typo nonnihil recedens; perithecia subcarbonacea prominula atra squarruloso-rubiginosa, globosa ($200-300 \mu$ diam.), ostiolo non v. vix perspicuo donata, in crusta plus minusve late irregulariterque expansa constipata; asci cylindranei longiuscule pedicellati (p. sp. $60 \times 7-9 \mu =$ ped. $25-35 \times 4-5 \mu$), superne obtusissime rotundati, deorsum sensim attenuati, paraphysibus parvis filiformibus obvallati; sporidia elliptica v. navicularia utrinque acutiuscule rotundata ($10-12 \times 5-6 \mu$), non v. 1-2-guttulata, subopace fuliginea.

83. HYPOXYLON SUBEFFUSUM Speg. — Fung. guar. pug. I, n. 204.

Hab. In ligno indurato atque decorticato truncorum in sylvis prope *Guaiavití*, Aug. 1883 (sub num. 3951).

Obs. Species pulcherrima, *Hyp. Micheliano* Ces. & DNts peraffinis ac subsimilis, a quo peritheciis nigro-fuscis minute subrugulosis, circa ostiolum plus minusve discoideo-impressis, sporidiisque minoribus ($8-9 \times 4-4,5 \mu$) pallidioribusque differt.

84. HYPOXYLON SUBAENEUM (B. & C.) Speg. — *Hyp. plumbeum* Speg. l. c., n. 193.

Hab. Ad truncos decorticatos putrescentes in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 3992).

Obs. Specimina guaranítica a cubensibus sub nomine *Sphaeriae subaeneae* B. & C. (Sacc., Syll. pyr. I, f. 256 sub *Rosellinia*)

mihi a Cl. Wrightio missis vix pruinula magis cinerascente ac peritheciis densius constipatis differre videntur. Sporidia etiam forma magnitudineque simillima ($12-14 \times 6-7 \mu$).

85. *SPHAERELLA CONFERTA* Speg. — Fung. guar. pug. I, n. 216.
Hab. Ad folia languida *Sapindaceae* cujusdam in sylvis prope *Guarapí*, Sept. 1883 (sub num. 4075).
Obs. Sphaerella vera; asci antice crassiuscule tunicati ($40 \times 10 \mu$) aparaphysati; sporidia 1-septata non constricta ($12-15 \times 3-3, 5 \mu$) hyalina.
86. *SPHAERELLA?* *BALANSAE* Speg. (n. sp.)
Diag. Maculae nullae; perithecia hypophylla hinc inde densissime conferta, plagulas atrasubdothideaceas (1-2 mllm. lat.) angulosas granulosas fusco-atras efficientia, globoso-lenticularia ($80-90 \mu$), prominula, saepe confluentia (dothideacea?), membranaceo-coriacella atra glabra, contextu subpellucido parenchymatico olivaceo donata, ostiolo latissimo (20μ diam.) pertusa; asci cylindraceo-obclavati v. subfusoidei, apice subtruncato-rotundati, deorsum cuneati stipiteque brevissimo crassiusculo suffulti ($40 \times 12-14 \mu$) octospori aparaphysati; sporidia 2-3-sticha cylindraceo-subclavulata, superne obtusiuscule rotundata ($20 \times 4-5 \mu$), medio 1-septata non v. vix constricta, recta v. subcurvula, hyalina.
- Hab.* Ad folia viva *Sapindaceae* cujusdam in sylvis prope *Guarapí*, Sept. 1883 (sub num. 4081).
Obs. Species priori peraffinis sed satis ac facile distincta, notis nonnullis ad dothideaceas vergens.
87. *AMPHISPHAERIA OBTUSISSIMA* (B. & C.) Speg. — *Sphaeria obtusissima* B. & C. Ceyl. fung. n. 853.
Hab. In ligno denudato emortuo induratoque in sylvis subvirginis prope *Guarapí*, Sept. 1883 (sub num. 3952).
Obs. Specimina guaranitica cum cubensibus (? a Cl. Wrightio missis!) comparata nullo modo distinguenda. Perithecia obtuse conoidea, basi matrici insculpta, apice minute irregulariterque ruguloso-ostiolata ($500-600 \mu$ alt. $\times 350-450 \mu$ diam. bas.) atra laevissima subnitentia carbonacea dura saepissime sterilia; asci cylindraceuti apice obtuse rotundati basi breviter attenuato-pedicellati ($180-250 \times 18-20 \mu$), paraphysibus filiformibus densiusculis obvallati,

octospori; sporidia recte v. suboblique disticha, fusoidea, utrinque obtusiuscule acutata ($40-60 \times 10-12 \mu$), medio 1-septata non constricta, recta v. vix curvula, primo diu hyalina dein fuliginea.

88. *THYRIDIUM QUILMENSE* Speg. — Fung. arg. pug. IV, n. 176.

Hab. Ad ligna decorticata subputrescentia in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub. num. 3969).

Obs. Specimina guaranítica nonnihil a typo recedunt; asci cylindraceo-clavati apice obtuse rotundati crasseque tunicati 1-foveolatique, deorsum attenuati modice pedicellati (p. sp. $80-120 \times 18-20 \mu = \text{ped. } 20-30 \times 5 \mu$), densiuscule paraphysati, octospori; sporidia elongato-elliptica, superne obtusiuscule inferne acutiuscule rotundata ($30-35 \times 9-10 \mu$) subcurvula, horizontaliter 9-11-septato-constrictula, septis 1 v. 2 interrupte verticalibus percursa, pallide fusco-olivacea.

HYPOCREACEAE DNtrs.

89. *NECTRIA COCCORUM* Speg. — Fung. guar. pug. I, n. 234.

Hab. Ad *Coccos* emortuos in foliis *Nectandrae* cujusdam in sylvis uliginosis prope *Paraguarí*, Nov. 1883 (sub num. 4046).

Obs. Sporidia germinantia ex apicibus utrinque hypham praelongam gracillimam apice ramulosam (subverticillatam?) emittentia.

90. *NECTRIA GUARANITICA* Speg. (n. sp.)

Diag. Perithecia solitaria v. 1-2-aggregata, primo hyphis gossypinulis albis vestita, dein nuda rufescenti-aurantia v. subsuccineo-vinosula, globosa ($150-180 \mu$) laevia subcarnosulo-membranacea, contextu subindistincto, superne latiuscule perforato-ostiolata; asci subclavati apice obtusiuscule rotundati, deorsum breviter crasseque stipitati ($80-95 \times 20 \mu$) octospori aparaphysati; sporidia oblique disticha elliptico-elongata utrinque acutiuscule rotundata ($26-30 \times 10 \mu$), primo 4-guttulata, dein medio 1-septata non constricta, episporio subimperspicue longitudinaliter striolato, hyalina in senectute saepe fuscescencia.

Hab. Ad ostiola *Phomatosporae botryosphaeroidis* Speg. parasitans in ramulis putrescentibus prope *Guarapí*, Oct. 1883 (sub num. 4102).

Obs. Pruinula peritheciolorum juvenilium an status conidiophorus *Phomatosporae*?

91. *NECTRIA PARAGUAYENSIS* Speg. — Fung. guar. pug. I, n. 238.

Hab. Ad corticem ramorum putrescentium in sylvis densioribus prope *Paraguari* et *Guarapi*, Aug. et Oct. 1883 (sub num. 3956-4074).

Obs. Acervuli plus minusve compacti, margine saepe subsoluti, e lateritio purpurascens; asci fusosubclavulati, apice subtruncati crasseque tunicati ac 1-foveolati, basi modice attenuato-pedicellati (p. sp. $45-65 \times 12-15 \mu = \text{ped. } 20-25 \mu$), aparaphysati, octospori; sporidia utrinque plus minusve obtusata ($14-18 \times 6-8 \mu$), medio 1-septata, non v. vix per aetatem subconstricta.

92. *HYPOCREA PEZIZAEFORMIS* Speg. (n. sp.)

Diag. Stromata sparsa v. hinc inde laxe gregaria orbicularia lenticulari-turbinatula, inferne centro papillato-adfixa, superne applanata v. vix undulata, tenuiuscula (3 mllm. diam. $\times 0,5-0,6$ mllm. crass.), margine integra obtusiuscule rotundata, intus extusque ceraceo-candida, in disco ex ostioli subprominulis densiuscule minuteque fusco-papillulata, glabra laevia, contextu carnosulo imperspicuo hyalino; perithecia globosa (90-100 μ) mellea stromate immersa, vix ostiolo papillato-prominula, tenui-membranacea; asci cylindranei apice subtruncato-rotundati, postice breviter crasseque pedicellati ($90 \times 5 \mu$) octospori aparaphysati; sporidia recte monosticha bilocularia, loculis e globoso ellipticis ($5 \times 4 \mu$) utrinque rotundatis, grosse 2-guttulatis, hyalina.

Hab. Ad ramos dejectos putrescentes in sylvis uliginosis inter *Calle-poi* et *Yaguaron*, 20 Sept. 1883 (sub num. 4004).

Obs. Species a *Hyp. pezizoidis* B. & Br. longissime abhorrens.

93. *CALONECTRIA LEUCORRHODINA* Speg. — Fung. guar. pug. I, n. 242.

Hab. Ad folia arborum plurimarum in *Perisporiaceis* parasitans vulgarissima ubique per ann. 1881-83 (sub num. 2729-3504-3795).

Obs. *Peziza leucorrhodina* Mntgn. Syll. n. 629 est vera disco-mycetea!

94. *CALONECTRIA AMBIGUA* Speg. — Fung. guar. I, n. 245.

Hab. Ad folia *Trichiliae* nec non *Bignoniae* cujusdam in *Perisporiaceis* parasitans in dumetis prope *Guarapi*, Nov. 1883 (sub num. 4012-15).

95. *CALONECTRIA MELIOLOIDES* Speg. — Fung. guar. pug. I, n. 246.
Hab. Ad folia viva ignota in *Meliola* quadam parasitans in sylvis prope *Guarapí*, Nov. 1883 (sub num. 4017).
Obs. Perithecia in juventute pilis hyalinis gracillimis ($50-120 \times 2-5 \mu$) apice obtusis basi non v. vix incrassatis continuis v. 2-5-septatis, mox evanescentibus adpersa; species *Cal. volutellae* (B & Br.) Sacc., Syll. pyr. II, p. 544 peraffinis et facillime identica!
96. *BROOMELLA MUNKII* Speg. — Fung. guar. pug. I, n. 249.
Hab. Ad folia viva *Bignoniaceae* cujusdam in dumetis prope *Guarapí*, Aug. 1883 (sub num. 3931).
Obs. Huc ducenda fere sine dubio *Plowrightia Balanseaana* Sacc & Roum. in Rev. myc. 1885, p. 157. Species ut jam monui inter *Nectriaceas* et *Dothideaceas* fere intermedia!
97. *PLEONECTRIA GUARANITICA* Speg. — Fung. guar. pug. I, n. 250.
Hab. Ad corticem putrescentem palorum in cultis prope *Guarapí*, 16 Aug. 1883 (sub num. 3944).
Obs. Sporidia elliptico-subglobosa ($8-12 \times 7-9 \mu$) primo cribrose guttulata, dein horizontaliter 3-septato-constrictula, loculis septulo altero verticali subcontinuo divisis, hyalina, in senectute chlorinula.

DOTHIDEACEAE Nits. et Fuck.

98. *PHYLLACHORA AMPHIGENA* Speg. — Fung. guar. pug. I, n. 259.
Hab. Ad folia viva *Bignoniae* cujusdam in sylvis prope *Guarapí*, Aug. 1883 (sub num. 3963).
Obs. Asci, melius inspecti, elliptico-fusoidei antice attenuati apiceque subtruncati lateque perforati, postice cuneati ac stipite brevissimo crassoque suffulti ($60-70 \times 20-25 \mu$) paraphysati octospori; sporidia cymbaeformia v. suballantoidea, utrinque obtusiuscula ($20-22 \times 6-8 \mu$), hyalina.
99. *PHYLLACHORA BIAREOLATA* Speg. (n. sp.)
Diag. Stromata sparsa saepius solitaria, parenchymate epidermideque innata, utrinque manifesta atque applanata, irregulariter suborbicularia (2-3 mllm. diam.), tenuia atra opaca non v. vix

ad hypophyllum subnitentia, subcarbonacea, contextu indistincto atro, primo macula pallescente indeterminata cincta, dein biareolata, arcola primaria strictiuscula ex albo-cinerascente determinata, secundaria v. externa latiore indeterminata fusco-atra; loculi stromate immersi e globoso elliptici v. ovati (200-250 μ alt. \times 100-150 μ diam.), non v. vix ad hypophyllum colliculo-prominuli, ostiolo fere subimperspicuo ornati; asci cylindraceuti antice subtruncato-rotundati crassiusculeque tunicati, postice in pedicello modice elongato producti (p. sp. 90-95 \times 6-9 μ = ped. 20-30 \times 3-5 μ), octospori, paraphysibus filiformibus densis obvallati; sporidia recte v. oblique disticha ex elliptico subrhomboidea, utrinque plus minusve acutiuscule rotundata (12 \times 5 μ), continua, hyalina.

Hab. Ad folia plantae cujusdam ignotae, non coriacea, in sylvis prope *Guarapí*, Nov. 1883 (sub num. 4025).

100. *PHYLLACHORA ENGLERI* Speg. — Fung. guar. pug. I, n. 267.

Hab. Ad folia languida *Spathicarpae lanceolatae* et *Anthurii?* speciei cujusdam in dumetis uliginosis prope *Guarapí*, Sept. 1883 (sub num. 4082-4106).

Obs. Forma *Anthurii?* a typo nonnihil deflectens; asci cylindraceuto-obelavulati, apice rotundato-subtruncati, tunica vix incrassatula, basi abrupte in pedicello crasso brevique producti (80-90 \times 12 μ), parce paraphysati; sporidia recte v. oblique disticha, cylindraceuto-elliptica, antice acutiuscule inferne obtuse rotundata (18-20 \times 6-7 μ), medio subcoarctata non septata (an postremo didyma?), nubiloso-farcta hyalina; caeteri characteres typici.

101. *PHYLLACHORA ENTEROLOBII* Speg (n. sp.)

Diag. Maculae nullae: stromata confertiuscule sparsa v. hinc inde 2-3- subaggregata, matrici innata, saepius hypophylla, lenticulari-v. subconoideo-pulvinulata, minuta (300-500 μ diam.), glabra, praecipue centro nitentia subcarbonacea, contextu indistincto, 1-rarius 2-3-locularia, albo-farcta, per aetatem vertice rimosula; loculi globosi v. e mutua pressione difformes (100-180 μ) saepeque confluentes; asci subcylindraceuti apice obtuse rotundati crassiusculeque tunicati, deorsum breviter attenuato-pedicellati (60-70 \times 10-12 μ), octospori, densiuscule paraphysati; sporidia recte v. oblique disticha, elliptica utrinque obtusiuscula (14-16 \times 6 μ) hyalina.

Hab. Ad folia viva *Enterolobii timbovae* in sylvis subvirgineis prope *Patino-cué*, Aug. 1883 (sub num. 3962).

102. *PHYLLACHORA GRACILIS* Speg. (n. sp.)

Diag. Maculae nullae; stromata saepius hypophylla, rarissime etiam epiphylla, linearia (0,5-1,5 mllm. long. \times 0,25-0,40 mllm. lat.) sparsa v. subgregaria, utrinque obtusiuscula, innata, vix prominula, atra glabra opaca per aetatem saepe subrimose dehiscentia, subcarbonacea, contextu indistincto; loculi 3-7 in quoque stromate, globosi, v. e mutua pressione angulosi v. subconfluentes, albo-farcti; asci subclavulati apice obtuse v. subtruncato-rotundati, deorsum breviter attenuato-pedicellati (80-90 \times 14-18 μ), parce paraphysati, octospori; sporidia elliptico-elongata, non v. vix subrhomboidea oblique mono-v. subdisticha, utrinque obtusiuscula (18-20 \times 7-8 μ), nubiloso-v. granuloso-farcta, hyalina.

Hab. Ad folia viva *Bambusaceae* cujusdam in montanis prope *Peribebuy*, 1 Nov. 1883 (sub num. 4050).

Obs. Species *Phyl. bonariensi* Speg. (quae in *Panico bambusoidi* Speg. nec in *Bambusa* viget) peraffinis, sed satis distincta.

103. *PHYLLACHORA?* *GUAVIRÁ* Speg. (n. sp.)

Diag. Maculae nullae; stromata matrici innata, utrinque manifesta, ad epiphyllum maculiformia non prominula irregulariter expansa determinata, fusco-atra, laevia v. vix subrugulosa, ad hypophyllum crassissime pulvinata (1-3 mllm. diam. \times 0,5 mllm. crass.), applanata ambitu irregulariter repanda abrupte subacuteque truncato-marginata, rarissime effuso-confluentia, subimperspicue punctulata, atra glabra subopaca coriacea, intus quoque atra multilocularia, contextu parenchymatico-celluloso atro; loculi globulosi confertiusculi (200-250 μ diam.) albo-farcti, in parte hypophyllica stromatis erumpenti-papillulosi v. impressi; asci cylindranei apice sub truncato-rotundati subcrassiusculeque tunicati, deorsum breviter attenuato-pedicellati (100-110 \times 6-8 μ), octospori paraphysati; sporidia recte, rarius suboblique monosticha, cylindranea, utrinque rotundata (12 \times 5 μ) non v. grosse 1-v. 2-guttulata, hyalina.

Hab. Ad folia viva *Myrtaceae* v. *Rubiaceae* arborescentis cujusdam, *guavirá* vulgo vocatae, in dumetis prope *Guarapí*, aug. 1883 (sub num. 3940).

Obs. Species pulcherrima stromatibus alte pulvinatis margine truncatis distinctissima, ac genere *Bagnisiella* accedens, a quo tamen stromatibus innatis nec erumpentibus recedit.

104. *PHYLLACHORA? MENISPERMI* Speg. (n. sp.)

Diag. Maculae nullae v. vix pallescentes ac perspicuae latissime effusae indeterminatae; stromata hinc inde densiuscule sparsa, epi-rarius hypo-phylla, ex uno latere tantum prominula, innata, lenticulari-subconoidea minutissima (120-200 μ diam.), atra carbonacea opaca, 1-rarius 2-3-locularia, contextu indistincto, albo-farcta; loculi globosi v. mutua pressione irregulares minuti (100-120 μ), ostiolo non v. vix perspicuo perforati; asci clavati antice obtuse rotundati crasseque tunicati, postice plus minusve attenuato-pedicellati (60-90 \times 18-20 μ), octospori aparaphysati; sporidia inordinate 2-3-sticha, elliptico-obovata, superne acutiuscule inferne obtusiuscule rotundata (16 \times 8 μ), medio saepe leniter subcoartatula (an demum 1-septata?) granuloso-farcta, hyalina.

Hab. Ad folia viva *Menispermi* specièi cujusdam in dumetis prope *Paraguari*, Aug. 1883 (sub num. 3928).

Obs. Species ob stromata minuta saepius 1-locularia sparsa generi *Physalosporae* accedens, fabrica tamen stromatum vere dothideacea; sporidia per aetatem facillime 1-septata et tandem generi *Dothidellae* adscribenda!

105. *PHYLLACHORA MICHELII* Speg. (n. sp.)

Diag. Maculae nullae v. vix pallescentes indeterminatae; stromata minuta e globoso conoidea (200-250 μ) matrici innata ad epiphyllum papillato-prominula, ad hypophyllum non v. vix prominula v. fusco-perspicua, subcarbonacea atra glabra subnitentia, hinc inde irregulariter v. seriatim v. concentricè laxè gregaria, 1- v. rarius 2-3-locularia; asci cylindranei apice obtuse rotundati basi breviter crassiusculeque pedicellati (90-100 \times 9-10 μ), parce paraphysati, octospori; sporidia recte v. oblique monosticha e globoso elliptica utrinque obtusa (10 \times 8-9 μ), hyalina.

Hab. Ad folia viva *Mimosae procurrentis* Bnth. in herbosis sylvae *Caà-guazú* vocatae, Jan. 1882 (sub num. 3503).

Obs. Species etiam ad *Physalosporam* vergens stromatibus 1-locularibus, sed eorum natura vere dothideacea.

106. PHYLLACHORA MUCOSA Speg. (n. sp.)

Diag. Maculae nullae; stromata elliptico-linearia v. linearia (1-2 mllm. long. \times 0,4-0,5 mllm. lat.), sparsa v. seriatim disposita, matrice innata, utrinque perspicua ad epiphyllum tumidula atra nitentia, ad hypophyllum non v. vix pulvinulata fusco-atra v. subglaucescentia, subcarbonacea laevia glabra, contextu indistincto, 3-10-locularia; loculi subglobosi v. confluentes minuti (120-180 μ) albo-farcti astomi (?); asci obclavato-sacati, apice obtusi, basi brevissime crasseque pedicellati (80-95 \times 20-28 μ), mox diffluentes, parce paraphysati (?), octospori; sporidia elliptica, utrinque obtusa (22-26 \times 10-12 μ), di- v. tri-sticha, hyalina, protoplasmate granuloso sub luce refracta subchlorinulo jodi ope intense flavescence farcta, strato mucoso hyalino (5-8 μ crass.) obovoluta.

Hab. Ad folia viva *Cocoes australis* in pratis uliginosis prope *Guarapí*, 15 Oct. 1883 (sub num. 4069).

107. PHYLLACHORA NYCTAGINEARUM Speg. (n. sp.)

Diag. Maculae hinc inde sparsae, orbiculares (5-10 mllm. diam.), indeterminatae, pallescentes; stromata in centro macularum laxè aggregata (15-30 in quoque macula) subglobosa (200-250 μ), matrici innata utrinque prominula, atra opaca glabra coriaceo-carbonacea, 1-3-locularia; loculi minuti globulosi (100-150 μ diam.) v. e mutua pressione difformes, albo-farcti; asci cylindraceo-subclavulati (90-110 \times 18-20 μ), apice obtuse rotundati, tunica vix incrassata vestiti, postice breviter crasseque pedicellati, paraphysati octospori; sporidia recte v. oblique disticha v. submonosticha, elongato-elliptica utrinque obtusata (22-24 \times 9 μ) non v. vix subinaequilateralia v. subrhomboidea, granuloso-farcta, hyalina.

Hab. Ad folia viva *Nyctagineae* cujusdam in sylvis prope *Guarapí*, Aug. 1883 (sub num. 3943).

Obs. Species ad *Physalosporam* vergens, stromatum tamen fabrica dothideacea.

108. PHYLLACHORA ? PIPERACEARUM Speg. (n. sp.)

Diag. Maculae nullae (in sicco; an in vivo etiam?); stromata dense gregaria matrici innata, ad hypophyllum non v. vix perspicua bulloso-concava, ad epiphyllum bulloso-convexula, orbicularia centro fuscescenti-cinerascentia, ambitu fusco-atra sub

indeterminata (2-5 mllm. diam.), dense sparsa v. confluentia, folio luce objeto fere tantum bene perspicua, coriaceo-membranacea opaca, contextu indistincto, multilocularia; loculi densiuscule constipati globulosi v. e mutua pressione difformes (80-120 μ) non v. vix prominuli, ostiolo minutissimo perforati, albo-farcti; asci cylindracei antice obtuse rotundati crasseque tunicati, postice cuneati breviter crasseque pedicellati (80 \times 12-14 μ), octospori aparaphysati; sporidia subdisticha, elliptica v. subclavulata utrinque plus minusve acuta (18-20 \times 6 μ), medio non v. vix subcoarctatula (an demum 1-septata?), granuloso-farcta, hyalina.
Hab. Ad folia *Enckea Sieberi* in dumetis prope *Guarapí*, Oct. 1883 (sub num. 4039).

Obs. Species stromatibus parenchymate vere innatis vix maculiformi-perpicuis anomala, a dothideaceis tamén nullo modo separanda.

109. *PHYLLACHORA SORORCULA* Speg. (n. sp.)

Diag. Maculae nullae; stromata sparsa, epiphylla angulosa minuta (1-3 mllm. diam.), pulvinulata, rugoso-verrucosa, matrici innata ad hypophyllum imperspicua, atra subcarbonacea, contextu indistincto, 3-6-locularia; loculi e mutua pressione difformes (150-180 μ), albo-farcti; asci subcylindracei, apice subtruncato-rotundati, basi modice attenuato-pedicellati (100-120 \times 10-14 μ) octospori, mox diffluentes, dense paraphysati; sporidia recte, oblique v. transverse monosticha, cylindracea v. cylindraceo-elliptica, recta, utrinque obtuse rotundata (12-14 \times 5-7 μ), granuloso-farcta, hyalina.

Hab. Ad folia viva *Lantanae* speciei cujusdam in dumetis prope *Paraguari*, Aug. 1883 (sub num. 3926).

Obs. Species notis per plurimis *Phyl. astronii* Speg. et *Phyl. rythmoidis* (Cda) Sacc. affinis, sed cum speciminibus comparata ab utrisque satis differre videtur.

110. *PHYLLACHORA TENUUSCULA* Speg. — *Phyllachora tenuis* Speg., Fung. guar. p. I, 278.

Hab. Ad folia viva *Bignoniaceae* cujusdam in sylvis subvirgineis prope *Ibitimí*, Ian. 1882 (sub num. 3537).

Obs. Nomen primitivum in l. c. illae tributum mutandum, nam species homonyma *Phyl. tenuis* (Brk.) Sacc. aliena adest.

111. *PHYLLACHORA TRAGIAE* (Brk. & C.) Speg. — Fung. guar. pug I, n. 261.

Hab. Ad folia viva *Crotonorum* vulgata in dumetis sylvisque prope *Paraguari*, Aug. — Nov. 1883 (sub num. 3927-4079).

Obs. Forma in *Crotone hirto* vigens ascis $80 \times 10-14 \mu$ sporidiisque $15-16 \times 9 \mu$ gaudet; altera in *Crotone urucurana* ascis $70 \times 8-14 \mu$ sporidiisque $10-12 \times 6-7, 5 \mu$ donata. Species certe una tantum!

112. *PHYLLACHORA?* *TRICUSPIDIS* Speg. (n. sp.)

Diag. Maculae nullae v. pallescentes indeterminatae; stromata majuscula, elliptica v. confluendo-lineararia, utrinque acuta (5-15 mllm. long. \times 1-2 mllm. lat.), sparsa v. seriatim parallela ad epiphyllum tumidula atra opaca v. vix subnitentia, ad hypophyllum maculiformiter tantum perspicua, applanata fusco-atra coriacella contextu indistincto, intus alba, multilocularia; loculi densissime constipati, difformes (100-150 μ) saepe confluentes, albo-farcti; asci cylindranei, antice obtuse rotundati non v. vix incrassato-tunicati, deorsum modo attenuato-pedicellati (90-120 \times 10-14 μ) octospori, dense paraphysati; sporidia oblique mono-v. subdi-sticha, elliptica v. subovata, utrinque acuta (18-20 \times 6-9 μ) non v. grosse 1-guttulata, non v. parce inaequilateralia, hyalina, ad maturitatem utrinque apiculo conico minutissimo subdeciduo aucta.

Hab. Ad folia viva *Tricuspidis latifoliae* in herbosis sylvaticis prope *Guarapi*, Aug. 1883 (sub num. 3966-67).

Obs. Species pulchella a *Phyllachoris* in aliis graminaceis videntibus, sporidiis appendiculatis mox distincta; sporidia saepe medio subcoarctatula, an serius 1-septata et tandem status immaturus *Dothidellae*?

113. *PHYLLACHORA TROPICALIS* Speg. — Fung. Arg. pug. III, n. 67.

Diag. Ad folia viva *Eugeniae* cujusdam in dumetis prope *Guarapi*, Oct. 1883 (sub num. 4040).

Obs. Asci mox diffluentes cylindranei apice obtusi basi breviter pedicellati (67-70 \times 14 μ), parce paraphysati octospori; sporidia recte v. transverse mono-v. di-sticha, elliptico-cylindranea, utrinque obtusissima (14-16 \times 6-7 μ) granuloso-farcta, hyalina.

114. *AUERSWALDIA?* *PALMICOLA* Speg. — Fung. guar. pug. I, n. 281.

Hab. Ad folia viva *Cocoes australis* in *Sierra de Peribebuy* loco *Naranjo* vocato, 24 Maj. 1883 (sub num. 4035).

Obs. Forma haec a typo nonnihil recedit sporidiis conspicue majoribus ($20-24 \times 8-12 \mu$), pallide fuligineis, muco destitutis. Stromatum fabrica nonnihil hypoxylea!

115. AUERSWALDIA RIMOSA Speg. (n. sp.)

Diag. Maculae nullae; stromata saepius hypophylla (rarius epiphylla subabortiva) linearia ($5-20$ mllm. \times $1-2$ mllm.), utrinque attenuato-acuta, matrici innata per epidermidem irregulariter longitudinaliterque fissam nigricatam adnato-erumpentia tuberculosa, atra subcarbonacea, glabra opaca, dense loculifera, contextu indistincto; loculi minuti ($200-250 \mu$) globosi saepe ostiolato-papillulati, albo-farcti; asci cylindranei apice obtuse rotundati ac crassiuscule tunicati, deorsum cuneati, breviter crasseque pedicellati ($100-110 \times 18-20 \mu$), octospori aparaphysati; sporidia oblique mono-v. disticha, elliptico-lanceolata v. elliptica, utrinque acutiuscule rotundata in juventute hyalina, 4-guttulata ($20 \times 8 \mu$), strato mucoso concolore crasso involuta, dein pulchre fuliginea ($25-30 \times 12 \mu$), nuda.

Hab. Ad folia viva *Cocoes* speciei cujusdam in sylvis montanis prope *Peribebuy*, Aug. et Nov. 1883 (sub num. 3965-4068).

116. MUNKIELLA IMPRESSA Speg. (n. sp.)

Diag. Maculae nullae; stromata orbicularia ($2-3$ mllm. diam.) sparsa v. hinc inde 2-3-gregaria, rarius confluentia, matrice innata, tenuiuscula, ad epiphyllum vix bullose concaviusculum imperspicua, ad hypophyllum convexo-pulvinulata, atra nitentia glabra laevia, sub lente minute granulosa, subcarbonacea, contextu indistincto, dense loculifera; asci cylindranei apice late obtusissimeque rotundati, tunica crassissima donati, basi in pedicello brevi crassoque cuneato-attenuati ($80-90 \times 10 \mu$), parcissime paraphysati, octospori; sporidia disticha elliptico-navicularia superne obtusiuscula inferne acutiuscula ($14 \times 5-6 \mu$), loculo infero (an septo spurio diviso?) minuto subconoideo, hyalina.

Hab. Ad folia viva *Apocineae* cujusdam in dumetis prope *Paraguari*, Aug. 1883 (sub num. 3929).

Obs. Species pulcherrima, foveola epiphylla abrupte truncato-marginata, stromate discoideo-convexulo hypophyllo mox dignoscenda!

117. MONTAGNELLA? OPUNTIARUM Speg. (n. sp.)

Diag. Maculae nullae v. indeterminatae pallescentes; stromata epidermide innata erumpenti-prominula, linearia (2-4 mllm. lat.) circulos 2, rarius 3, concentricos sed discretos (centro quoque libero) efficientia, (interno 1 cent. diam. = externo 2-3 cent. diam.) marginibus subdeterminatis, vix illis circuli exterioris saepe effuso-repandulis donata, fusco-atra opaca glabra ob loculos subexertulos dense granuloso-verruculosa, subcarbonacea, contextu grosse celluloso-parenchymatico parum distincto atro; loculi dense constipati minuti (120-200 μ) globoso-prominuli, in vivo laeves in sicco subrugulosi sed non collapsi, albo-farcti; asci cylindranei v. subfusoides-cylindranei, apice obtuse et late rotundati crasseque tunicati, deorsum brevissime crasseque pedicellati (90-100 \times 20 μ), parce pseudoparaphysati, octospori; sporidia oblique disticha, cylindraneo-fusoides utrinque acutiuscule rotundata primo 3-5-blasta, hyalina (38-40 \times 8 μ) dein 5-septato-constrictula (45 \times 10 μ), chlorinula, inaequilateralis v. subcurvula.

Hab. Ad corticem ramorum dejectum putrescentem *Cerei* arborei cujusdam in sylvis prope *Calle-poi* et *Yaguaron*, 20 Sept. 1883 (sub num. 3995).

Obs. Species pulchella distinctissima, sed natura ejusdem dothideacea nonnihil dubia!

118. MONTAGNELLA? OPUNTIARUM Speg.

var. *minor* Speg.

Diag. Stromata orbicularia (1-3 cent. diam.) planissima continua non v. vix subpulvinulata, margine rugula pallescenti determinata, fusco-atra, densissime minutissimeque granulosa, granulis (sub lente) concentricis dispositis, coriaceo-membranacea, innata, contextu atro opaco indistincto; loculi parce hemisphaerico-prominuli (150-180 μ), densissime constipati in sicco saepius cupulato-collapsi, ostiolo majusculo (20 μ diam.) perforati, albo-farcti; asci subelliptici antice subtruncati crassissimeque tunicati postice brevissime crasseque stipitati (85-90 \times 30 μ), paraphysati, octospori; sporidia oblique 2-3-sticha, cylindraneo-fusoides, utrinque acutiuscula (30-36 \times 9-10 μ), 3-septata (en semper?), non v. vix constricta, subinaequilateralis, primo hyalina dein chlorinula.

Hab. Ad corticem ramorum languentem *Opuntiae argentiniae* in

sylvis montanis *Cerro de Acahy* vocatis, 1 Nov. 1883 (sub num. 4100).

SCHWEINITZIELLA Speg. (n. gen.)

Diag. Stromata superficialia subcupulato-discoidea, inferne centro papillato-adfixa, superne medio loculis nonnullis subexertis instructa, atra, coriacea; asci clavulati paraphysati octospori; sporidia sublinearia continua hyalina.

Genus praedistinctum Celbr. *L. D. Schweinitzii* memoriae dictatum.

119. SCHWEINITZIELLA STYRACUM Speg. (n. sp.)

Diag. Stromata epiphylla sparsa, rarius 1-2-aggregata v. confluentia, atra laevia opaca subcarbonacea, contextu indistincto, discoideo-subcupulata (1-2 mllm. diam.), inferne centro adfixa, marginibus integris v. rarius subrepandis obtuse rotundatis donata, superne concaviuscula, centro 6-10 loculis granuliformi-exertis ornata; loculi minuti subglobosi (120-150 μ), a-stomi (?), albo-farcti; asci clavati, apice obtuse rotundati crassiusculeque tunicati, deorsum in pedicello attenuato-elongati (60-70 \times 10 μ) octospori, paraphysibus densis ac muco immer si; sporidia conglobata fusoides subfalcata, utrinque acuta (25-30 \times 3 μ), continua, hyalina. Jodi ope nulla.

Hab. Ad folia viva *Styracis* speciei cujusdam in montanis sylvis prope *Peribebuy*, 13 Sept. 1883 (sub num. 3928).

120. CURREYA ? BAMBUSICOLA Speg. (n. sp.)

Diag. Stromata ramulos abortivos dense congesto-subcapituliformes vestientia, effuso-crustacea, superficialia, matrice arctiuscule adnata sed frustulatim ab ea secedentia subtenuia ac subcarbonacea atra glabra subrugulosa, contextu grosse celluloso-parenchymatico atro parum distincto; loculi (an perithecia?) in stromate prominuli, udi subglobosi, sicci rugoloso-subcollapsi, minuti (100-120, μ), ostiolo pusillo pertusi; asci cylindranei v. subclavulati, sursum obtusissime rotundati ac crassissime tunicati, deorsum breviter crasseque pedicellati (40 \times 10 μ), aparaphysati, octospori; sporidia oblique disticha, elliptica v. obovata, horizontaliter 3-septata, constrictula, loculo 1 interno septulo altero, rarius deficiente, verticali diviso saepe quoque loculo extimo supero oblique 1-septulato, utrinque obtusa (12-13 \times 6-7 μ), pallide fumoso-olivacea.

Hab. Ad ramulos vivos *Bambusaceae* cujusdam in sylvis montanis prope *Peribebuy*, 1 Nov. 1883 (sub num. 4048).

Obs. Species perpulchra stromate crustaceo superficiali nonnihil a dothideaceis deflectens.

MICROTHYRIACEAE Sacc.

121. VIZELLA GUARANITICA Speg. (n. sp.)

Diag. Perithecia superficialia plus minusve conferta ex hemisphaerico-conoidea (300-400 μ diam.), dimidiato-scutata, adnata, apice obtusa astoma atra glabra subnitentia, saepe basi areola strictissima tenui-crustacea opaca cincta, carbonacea crassiuscula dura, contextu indistincto atro; asci cylindranei, octospori, mox diffluentes; sporidia navicularia utrinque acutiuscula (16-18 \times 10 μ), oblique monosticha, opace fuliginea.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in sylvis inter *Calle-poi* et *Yaguaron*, 20 Sept. 1883 (sub num. 4000).

122. MICROTHYRIUM MICROSPERMUM Speg. (n. sp.)

Diag. Perithecia per hypophyllum densiuscule sparsa, hemisphaerico-scutata (50-90 μ), dimidiata, atra glabra membranaceo-coriacella, contextu punctulato parum distincto donata, astoma, per aetatem centro subostiolatim lacera; asci obclavulati apice truncato-rotundati crasseque tunicati, basi stipite brevissimo crassoque suffulti (30 \times 8-9 μ), aparaphysati, octospori; sporidia 2-v. 3-sticha, elliptico-obovata, medio 1-septato-constrictula (8-9 \times 3-4 μ) hyalina.

Hab. Ad folia viva *Fici ibapoy* in sylvis subvirgineis prope *Cara-peguá*, Dec. 1883 (sub num. 4018).

CHAETOTHYRIUM Speg. (n. gen.)

Diag. Perithecia minuta, scutato-dimidiata, atra, setulosa, subiculo destituta; asci octospori, aparaphysati; sporidia didyma, hyalina.

Genus pulchellum a *Microthyrio* peritheciis setulosis distinctum.

123. CHAETOTHYRIUM GUARANITICUM Speg. (n. sp.)

Diag. Maculae nullae; perithecia epi-v. hypo-phylla, sparsa scutato-dimidiata, minuta (100-150 μ diam.), atra astoma, tenui membranacea pellucida, contextu centro subparenchymatico margine mucoso-evanescente pallideque olivaceo donata, superne pilis paucis (8-12) erectis rectis rigidulis (50-120 \times 5 μ) basi subbulbosis atris opacis ornata; asci cylindranei clavulati v. subobclavati superne subtruncato-rotundati crasseque tunicati, inferne cuneati pedicello breviusculo crassoque suffulti (40 \times 10 μ), aparaphysati, octospori; sporidia recte v. oblique disticha, elliptica v. subobovata, utrinque obtusiuscula (10-14 \times 4-5 μ), medio 1-septata (an postremo 3-septulata?), non v. vix constricta, hyalina.

Hab. Ad folia viva speciei indeterminatae (*Solanaceae*?) in dumetis prope *Guarapí* Oct. 1883 (sub num. 4088).

124. *ASTERINA PUIGGARI* Speg. — Fung. arg. pug. IV, n. 144.

Hab. Ad folia viva *Myrtacearum* in sylvis subvirgineis prope *Guarapí*, Oct. 1883 (sub num. 4057-58).

Obs. I. Mycelium laxissimum tenuissime arachnoideo-radians atrum, ex hyphis densiuscule ramoso-intertextis (5-7 μ crass.) fuligineis, hyphopodiis destitutis efformatum; perithecia laxe gregaria v. subsparsa, dimidiato-scutata (200 μ diam.), membranaceo-coriacella, contextu opaco centro continuo ambitu pellucide rimuloso-reticulato margine fibroso-radiante pellucido olivaceo; asci late elliptico-elongati v. subobclavatuli (80-100 \times 25-30 μ), octospori aparaphysati; sporidia di-v. tri-sticha, didyma ad septum valide constrictula, clavulata, (24-26 \times 12-14 μ), loculo supero subgloboso (12 \times 14 μ), infero obovato (12 \times 7-8 μ) diu hyalina dein fuliginea!

Obs. II. Genus *Asterina* Lév., nunc speciebus permultis inspectis, absolute microthyriaceum et sic delimitandum: Perithecia dimidiato-scutata, contextu prosenchymatico-radiante donata, astoma stellatim dehiscentia, subiculo fumagineo hyphis saepius hyphopodiatis composito insidentia; asci octospori; sporidia didyma diu hyalina dein fuliginea. A genere *Seynesia* subiculi praesentia differt.

125. *ASTERINA DISPAR* Speg. (n. sp.)

Diag. Mycelium plagulas epiphyllas suborbiculares (2-5 mllm. diam.) atras, tenui subcrustaceo-membranaceas, matrici arctiu-

scule adnata efficiens, ex hyphis (5-6 μ crass.) dense intricatis, saepius opposito-ramulosis, hyphopodiis hemisphaerico-subcylindratis (10 \times 5 μ) subsessilibus sparse alternis levibus integris ornatis compositum; perithecia scutato-dimidiata (180-200 μ) membranaceo-coriacella, contextu fibroso-radiante rectiusculo dense septulato fuligineo plus minusve perspicuo efformata, margine fimbriatula, stellatim laciniato-dehiscentia; asci ovoidei v. subglobosi superne crasse tunicati (45-50 μ diam.), aparaphysati, octospori; sporidia conglobata, obovata v. subclavulata (25-30 \times 12-14 μ), didyma ad septum non v. lenissime constricta, loculo supero subelliptico (18 \times 14 μ), infero minuto subgloboso v. subconoideo (8-10 \times 6-9 μ), primo hyalina dein fuliginea.

Hab. Ad folia viva *Styracis* speciei cujusdam in montanis prope *Peribebuy*, 15 Sept. 1883 (sub num 3979-3982).

126. *ASTERINA CRISTATA* Speg. (n. sp.)

Diag. Mycelium tenuissimum arachnoideo-effusum, saepe per totum folium expansum, atrum, parum perspicuum, matrice arctiuscule adnatum, ex hyphis alternatim dense ramuloso-intricatis (3-5 μ crass.) fuligineis, hyphopodiis sessilibus orbiculari-dimidiatis, lobulato-cristatis (10 μ lat. \times 5 μ crass.) praeditis efformatum; perithecia dimidiato-scutata (120-180 μ) membranacea, contextu fibroso-radiante rectiusculo densiuscule septulato-fuligineo donata, margine fimbriata, centro stellatim laciniato-dehiscentia; asci obovati v. globosi (30-40 \times 25-30 μ) aparaphysati, octospori; sporidia conglobata, didyma (18-20 \times 8 μ), ad septum leniter constrictula, loculis subaequalibus supero obtusiore ac crassiore (9-10 \times 8 μ), infero subgraciliore (8 \times 7), primo hyalina dein fuliginea.

Hab. Ad folia viva *Asclepiadearum* in dumetis prope *Paraguarí*, Aug. 1883 (sub num. 3945.)

Obs. Status stylosporicus peritheciis ascophoris simillimis, stylosporibus obovatis (20 \times 12-14 μ) continuis fuligineis donatus, immixtus adest.

127. *ASTERINA VAGANS* Speg. (n. sp.)

Diag. Mycelium plagulas minutas (0,5-1,5 mllm.) irregulares tenuissime arachnoideo-effusas hinc inde efficiens, ex hyphis alterne ramulosis intricatulis (5 μ crass.) fuligineis, hyphopodiis

longiuscule pedicellatis capitato-lobatis ($15 \times 10 \mu$) alternis ornatis efformatum; perithecia laxè pauci-aggregata, scutato-dimidiata ($80-120 \mu$) membranacea, contextu fibroso-radiante flexuosulo septulato fuligineo, margine crenulata; asci e globoso obovati ($40 \times 30 \mu$), superne crassiuscule tunicati, inferne papillato-substipitati, octospori aparaphysati; sporidia conglobata, didyma, ad septum non v. vix subconstrictula, clavulata v. obovata ($20-22 \times 8-9 \mu$), loculo supero subgloboso ($10 \times 8-9 \mu$), infero subcylindraceo ($10 \times 7 \mu$), diu hyalina dein pallide fuliginea.

Hab. Ad folia viva *Solani boerhaviaefolii* in dumetis prope *Guarapí*, Oct. 1883 (sub num. 4056).

127. *ASTERINA AMPULLULIPEDA* Speg. (n. sp.)

Diag. Mycelium effusum tenuiusculum submembranaceum arcte matriæ adnatum atrum, ex hyphis (5μ crass.) densiuscule intricatis saepius opposito-ramosis, hyphopodiis alternis divaricatis e cylindraceo subampulluliformibus ($20 \times 5 \mu$) obtusis ornatis, fuligineis compositum; perithecia dimidiato-scutata ($100-120 \mu$) membranacea, contextu medio opaco indistincto, ambitu fibroso radiato subflexuoso parcissime septulato fuligineo donata, centro stellatim laciniato-dehiscentia, margine crenulata; asci e globoso elliptici v. subrhomboidei ($40 \times 30 \mu$) sursum subacutiuscule (an semper?) rotundati v. crasseque tunicati, inferne crassissime umbonato-pedicellati, aparaphysati octospori; sporidia conglobata didyma ($19-22 \times 8-9 \mu$) ad septum constrictula loculo supero subbreuiore ($9-11 \times 8-9 \mu$), infero subgraciliore ($11-12 \times 7-8 \mu$), primo hyalina dein fuliginea.

Hab. Ad folia viva *Nectandrae* speciei cujusdam in sylvis uliginosis prope *Guarapí*, Nov. 1883 sub (num. 4011).

128. *ASTERINA ACANTHOPODA* Speg. (n. sp.)

Diag. Mycelium epiphyllum maculare effusum irregulariter expansum totum folium saepe obtegens arachnoideum tenuissimum parce manifestum atrum, ex hyphis ($5-8 \mu$ crass.) dense intricato-ramulosis hyphopodiis subramululiformibus e cylindraceo conicis ($10-15 \times 5-7 \mu$) divaricatis apice attenuato-obtusatis alternis v. suboppositis ornatis, fuligineis efformatum; perithecia in mycelio laxè gregaria dimidiato-scutata ($120-150 \mu$) membranaceo-coriacella, contextu centro opaco indistincto ambitu

fibroso-radiante recto septulato atro donata, margine fimbriatula, per aetatem parce stellatim dehiscentia; asci obovati ($50 \times 40 \mu$) antice rotundati crassiuscule tunicati, postice brevissime crasseque stipitati aparaphysati, octospori; sporidia elliptica, ($22-25 \times 10-11 \mu$) didyma, medio constricta, loculis aequalibus (supero $11-13 \mu$ long. = infero $10-12 \mu$ long.) obtusis, primo hyalina dein fuliginea.

Hab. Ad folia viva *Sapotaceae* cujusdam indeterminatae in sylvis prope *Guarapí*, Oct. 1883 (sub num. 4010).

129. *ASTERINA SAPOTACEARUM* Speg. (n. sp.)

Diag. Mycelium plagulas orbiculares (3-5 mllm. diam.) epiphyllas tenuissime pelliculosas matrice arctiuscule adnatas centro per aetatem frustulatim secedentes efformans, ex hyphis dense intricatis ($8-9 \mu$ crass.) alterne-ramosis, hyphopodiis sessilibus obovatis ($10-12 \mu$ diam.) saepius grosse 1-guttulatis alternis ornatis, fuligineis compositum; perithecia in mycelio laxe gregaria dimidiato-scutata ($120-180 \mu$) membranacea, contextu fibroso-radiante rectiusculo fuligineo donata, margine crenulata, centro stellatim dehiscentia; asci globosi v. ovati ($60-65 \times 50-55 \mu$), antice tunica incrassato-umbonata vestiti, aparaphysati, octospori; sporidia ex elliptico-obovata ($30 \times 15 \mu$), didyma ad septum non v. parce constrictula, loculo supero ($16 \times 15 \mu$) infero ($13-14 \times 12-13 \mu$) nonnihil majore, primo hyalina dein fuliginea.

Hab. Ad folia viva *Sapotaceae* cujusdam in dumetis prope *Guarapí*, Aug. 1883 (sub num. 3937).

130. *ASTERINA BALANSAE* Speg. = *Fung. guar. pug. I, n. 297* (sub *Seynesia*).

Hab. Ad folia viva *Myrtacearum* in sylvis subvirgineis prope *Guarapí*, Jul. 1883 (sub num. 3842).

Hab. Sub nomine *Seynesiae Balansae* Speg. in l. c. species plurimas affines collegi, quae nuc attentius inspectae bene distinctae apparent; typus hujus speciei tandem sic delimitandus videtur: Mycelium maculas sparsas (1-5 mllm. diam.) rarius confluentes tenui pelliculoso-membranaceas a matrice non v. aegre secedentes atras efficiens, ex hyphis subgracilibus (5μ crass.) fuligineis dense alterni-ramosis, hyphopodiis alternis v. suboppositis subsessilibus obovatis ($8-10 \times 5 \mu$) ornatis compositum; perithecia dimidiato-scutata ($100-150 \mu$) contextu fibroso-radiante rectiu-

sculo fuligineo donata, margine fimbriata, centro stellatim rimosa; asci ovati, superne obtusi incrassato-tunicati, deorsum non v. vix papillato-pedicellati ($30-35 \times 25-27 \mu$), octospori, aparaphysati; sporidia conglobata, elliptico-obovata ($18-20 \times 9 \mu$), didyma ad septum non v. vix constricta, loculo supero ovato ($9-10 \times 9 \mu$), infero cylindraceo-subconoideo ($10-11 \times 7 \mu$), primo hyalina dein fuliginea.

131. *ASTERINA CONSOCIATA* Winter (n. sp.) — in litt. 14 Jan. 1887.

Diag. Mycelium laxissimum arachnoideo-effusum per totum epiphyllum expansum parcissime perspicuum atrum, ex hyphis irregulariter ramulosis gracilibus (5μ crass.), hyphopodiis obovatis subuncinato-curvulis leniter pedicellatis ($10-12 \times 5 \mu$) donatis, fuligineis compositum; perithecia in mycelio sparsa v. hinc inde laxe gregaria, scutato-dimidiata ($80-100 \mu$) membranacea, contextu fuligineo fibroso-radiante rectiusculo densiuscule septulato donata, centro stellatim dehiscentia, margine crenulata non v. parce brevique fimbriata; asci obovati, antice crasse tunicati, postice brevissime crasseque pedicellati ($35-40 \times 25-30 \mu$), octospori, aparaphysati; sporidia elliptica ($18 \times 9 \mu$), medio 1-septato-constricta, loculo supero subgloboso ($9 \times 9 \mu$), infero obovato ($9 \times 8 \mu$), diu hyalina dein opace fuliginea. Status stylosporicus peritheciis ascophoris simillimus, stylosporibus obovatis ($16-18 \times 10-12 \mu$) continuis fuligineis donatus, intermixtus adest.

Hab. Ad folia viva *Macluræ moræ* in sylvis prope *Guarapí*, Jul. 1883 (sub num. 3843).

132. *ASTERINA FIMBRIATA* Kalk. & Ck. — Sacc., Syll. pyr. f. 41.

Hab. Ad folia viva *Acanthacearum* in dumetis uliginosis prope *Guarapí*, Jun. 1883 (sub num. 3833).

Obs. Mycelium maculas orbiculares ($2-5$ mllm. diam.) epiphyllas subpelliculosas tenuissimas matrice arcte adnatas sparsas efformans, ex hyphis densiuscule alterni-ramosis intricatis gracilibus ($3-4 \mu$ crass) septulatis, hyphopodiis breviter pedicellatis alternis subglobosis v. ovato-inaequilateralibus minute verrucosis ornatis efformatum; perithecia dimidiato-scutata ($80-100 \mu$), in maculis confertiuscule aggregata, membranacea, contextu subopaco fuligineo fibroso-radiante flexuosulo septulato donata, centro 4-8-laciniatim dehiscentia, margine crenulata

parceque fimbriata, 8-16-asca; asci obovati, antice modice incrassato-tunicati, postice brevissime crasseque pedicellati ($25-30 \times 20-22 \mu$), aparaphysati octospori; sporidia elliptica v. ovata ($16-17 \times 8 \mu$), medio 1-septato-constricta, loculo supero subgloboso ($8-9 \times 8 \mu$), infero e globoso ovoideo v. subconico ($8 \times 6-7 \mu$), diu hyalina dein fuliginea.

133. *ASTERINA SUBRETICULATA* Speg. (n. sp.)

Diag. Mycelium maculas pusillas (1 mllm. diam.) sparsas v. confluendo fere totum epiphyllum obtegentes tenuissimas arachnoideo-fibrillosas vix perspicuas atras arcte matrice adnatas efficiens, ex hyphis densiuscule alterni-ramosis gracilibus (3-4 μ crass.) fuligineis hyphopodiis destitutis efformatum; perithecia scutato-dimidiata (100-150 μ) submembranacea, contextu fuligineo fibroso-radiante subflexuosulo septulato donata, centro stellatim dehiscentia, ambitu crenulato-fimbriata; asci ovoidei antice crassissime tunicati postice umbonato-pedicellati ($30-40 \times 20-30 \mu$), aparaphysati, octospori; sporidia conglobata, elliptico-obovata ($18-20 \times 10 \mu$), medio 1-septato-constricta, loculo supero globoso ($10 \times 10 \mu$), infero obovato ($10 \times 8-9 \mu$), primo hyalina dein fuliginea. Status stylosporicus peritheciis ascophoris simillimus, stylosporibus obovatis ($18-20 \times 10-11 \mu$), continuis fuligineis donatus adest.

Hab. Ad folia viva *Solani* et *Cestri* speciei cujusdam in dumetis prope *Guarapí*, Maj. et Jul. 1883 (sub num. 2731-3840).

Obs. Species eadem ex Cuba socio *Dimerosporio solanicolo* (Bk. & C.) Speg. mihi adest; cl. Winter species hæc cum *Ast. reticulata* Kalk. & Ck., opinatus erat, sed speciminibus utriusque speciei diligenter inspectis impossibile et precipue ob deficientiam vittæ hyalinae stylosporiarum (quæ ut sporidia in diagnosi sumptæ fuerunt!), ac ob nonnullos characteres perithecorum myceliique.

134. *ASTERINA GUARANITICA* Speg. — Fung. guar. pug. I, n. 299 (sub *Seynesia*).

Hab. Ad folia viva *Trichiliae* speciei cujusdam in sylvis prope *Pirayú*, Jul 1883 (sub num 3846).

135. *ASTERINA PARAGUAYENSIS* Speg. — Fung. guar. pug. I, n. 300 (sub *Seynesia*).

Hab. Ad folia viva *Bignoniaceae* speciei cujusdam in sylvis prope *Peribebuy*, Jul. 1883 (sub num. 3836 — 3942).

136. *SEYNESIA PYRAGUENSIS* Speg. — Fung. guar. pug. I, n. 298.

Hab. Ad folia viva *Laurineae* cujusdam prope *Pirayú* Sept. 1883 (sub num. 3845).

Obs. Genus *Seynesia* Sacc. sic delimitandum mihi nunc videtur: Mycelium nullum; perithecia dimidiato-scutata; asci octospori; sporidia didyma fuliginea. Ab *Asterina* Lév. praecipue subiculi deficientia differt.

POLYSTOMELLA Speg. (n. gen.)

Diag. Stroma membranaceo-coriacellum tenue dimidiato-scutatum majusculum, superne plus minusve dense perforato-ostiolatum, inferne dense strictissimeque ruguloso-reticulatum, atrum, subiculo carens; asci in ansulis (loculis?) hypostromaceis constipati, subcylindracei, paraphysati, octospori; sporidia didyma hyalina.

137. *POLYSTOMELLA PULCHERRIMA* Speg. (n. sp.)

Diag. Stromata epiphylla dimidiato-scutata (0, 5-2 mllm. diam.) atra glabra laevia opaca membranaceo-coriacella tenuiuscula rigidula, contextu indistincto, poris (luci interjecta) 20-30-perforata, inferne subimperspicue ruguloso-reticulata; loculi (v. ansulae reticuli) subdiffformes minuti (80-100 μ) rugula vix evoluta saepeque oblitterata separati, ostiolo rotundo donati; asci e cylindraceo obclavulati (65-70 \times 12-14 μ), superne obtuse rotundati crassiusculeque tunicati, inferne brevissime crasseque pedicellati, parce paraphysati, octospori; sporidia subclavulata, 1-septata, non v. vix constrictula (15-16 \times 5 μ), loculo supero brevior subcrassioreque, hyalina.

Hab. Ad folia viva *Solani boerhaviaefolii* in dumetis prope *Guarapí*, Nov. 1883 (sub num. 4056).

HEMHYSTERIACEAE Speg.

138. *LEMBOSIA AMPULLULIGERA* Speg. — Fung. guar. pug. I, n. 303 (sub *Morenoella*).

Hab. Ad folia viva *Nectandrae* speciei cujusdam in sylvis uliginosis prope *Guarapí*, Aug. 1883 (sub num 4017).

Obs. I. Asci pyriformes ($30 \times 20 \mu$); sporidia didyma ($15-16 \times 6-7 \mu$) fuliginea.

Obs. II. Species perplurimae generis *Lembosiae* Lév. nunc a me inspectae, omnes peritheciis dimidiato-scutatis donatae inventae sunt, et idcirco sine ullo dubio genus inter *Hemhysteriaceas* adscribendum; genus *Morenoella* Speg. tandem *Lembosiae* Lév. synonymum et delendum.

Genus *Aulographum* Lib. etiam inter *Hemhysteriaceas* militans et vix a *Lembosia* peritheciis subiculo destitutis differt.

139. *LEMBOSIA OPACA* Speg. (n. sp.)

Diag. Mycelium maculas arcte matrice adnatas suborbiculares (1-5 mllm.) sparsas atras, centro subpelliculosas, margine nubiloso-evanescentes efformans, ex hyphis gracilibus (3-5 μ crass.) densiuscule intricateque alterni-ramosis, hinc inde hyphopodiis parvis alternis divaricatis subcylindraceis obtusiusculis ($10-12 \times 4 \mu$) ornatis efformatum; perithecia centro macularum densiuscule gregaria elliptica v. trigona ($120-150 \times 80-120 \mu$), hysteroideo-rimosa, membranaceo-coriacea, contextu indistincto atro opaco, vix margine subpellucida crenulato-fimbriata; asci pyriformes, antice modice incrassato-tunicati, postice brevissime crasseque pedicellati ($24 \times 20 \mu$), aparaphysati, octospori; sporidia conglobata elliptica v. subovata didyma ($12 \times 5 \mu$), ad septum constricta, loculis subglobosis subaequalibusque, hyalina (an demum fusca?).

Hab. Ad folia *Myrsineae* cujusdam in dumetis uliginosis prope *Guarapí* et *Paraguarí*, Maj. 1883 (sub num. 4008-9).

140. *SCHNEEPIA GUARANITICA* Speg. — Fung. guar. pug. I, n. 304.

Hab. Ad folia viva *Styracis* speciei cujusdam in dumetis montanis *Sierra de Peribebuy*, 15 Sept. 1883 (sub num. 3980-81).

Obs. In his speciminibus perithecia nonnihil flexuose radiantia, stromate epiphylo totaliter immersa imperspicua, ostiolis minutis subcentralibus hysteroideis subflexuosis radiantibus v. subcircinatis ornata; asci cylindraceo-obclavulati ($70 \times 12-14 \mu$), paraphysibus apice incrassatulo-subclavulatis sublongioribus obvallati; sporidia oblique disticha subclavulata ($16-18 \times 6 \mu$) didyma ad septum subconstrictula primo hyalina dein chlorinula. Forma nonnihil generi *Hysterostomellae* accedens!

141. SCHNEEPIA PULCHELLA Speg. (n. sp.)

Diag. Perithecia 10-20 radiatim aggregato-confluentia, stromate parcissimo juncta fere libera, plagulas orbiculares (1-2 mllm. diam.) atras efficientia, linearia dimidiata (300-600 μ long. \times 50-80 μ crass.), extremitate externa obtusa in altera acutato-confluentia, rima longitudinali impressa dehiscentia, thallo furfuraceo-subcinerascente (an in vivo virescente?) subinsidenti-areolata, subcarbonacea atra opaca sub lente radiatim fibroso-radiata, contextu tamen indistincto; asci e cylindraceo obclavati, apice obtuse rotundati crassiusculeque tunicati, basi subcuneati brevissime crasseque stipitati (80-90 \times 16-18 μ), paraphysibus filiformibus sublongioribus densiusculis apice subcoalescentibus fuscescentibusque obvallati, octospori; sporidia subrecte disticha elliptica v. elliptico-obovata, utrinque obtusiuscula (16-17 \times 6-7 μ), loculo infero supero aequilongo sed saepe subgraciliore, primo hyalina (muco obovoluta?), dein pallide fuliginea. Iodi ope nulla!

Hab. Ad folia viva *Sapotaceae* cujusdam in sylvis subvirgineis prope *Guarapí*, Nov. 1883 (sub num. 4084).

Obs. Species thallo cinerascenti-virescente donata ac fere lichena, fabrica tamen omnium partium eximie fungina atque odore ac iodi ope nullis!

HYSTERIACEAE Cda.

142. TRIBLIDIELLA BALANSAE Speg. (n. sp.)

Diag. Perithecia hinc inde laxe subgregaria v. sparsa per epidermidem fissam erumpentia, crassiuscule pulvinulata, submajuscula (1, 5-2 mllm. long. \times 0, 7-1 mllm. crass. et. alt.), elliptica v. subtrigona, apicibus acutiuscule rotundatis, superne convexula, labiis rotundatis involutisque primo conniventibus dein latiuscule apertis, inferne modice coarctatula atra v. rufescenti-atra glabra laevia opaca, corneo-durissima in sicco, uda molliuscula subelastica, disco sordide rufescente v. subolivasciente donata, contextu subparenchymatico extus olivaceo-atro intus pallescente; asci cylindracei sursum rotundati tunica vix incrassata vestiti, deorsum breviter crasseque attenuato-pedi-

cellati ($200 \times 15 \mu$), 6-8-spori, paraphysibus densis apice incrassatulis subcoalescentibus obvallati; sporidia recte monosticha elliptica v. elliptico-obovata, 3-septato-constrictula, ad septum medium saepius validius, loculo tertio supero crassiore ac (rarissime) septulo altero verticali diviso, utrinque acutiuscule rotundata ($27-30 \times 12-14 \mu$) recta v. vix subcurvula.

Hab. Ad ramulos dejectos putrescentes in sylvis densioribus prope *Guarapí*, Sept. 1883 (sub num. 4032).

Obs. Iodi ope nulla v. vix ascorum apex perdilute coeruleascens.

143. RHYTIDHYSTERIUM GUARANITICUM Speg. (n. sp.)

Diag. Perithecia superficialia sparsa v. hinc inde aggregata elliptico-lineararia crassiuscula, utrinque acutiuscula (1-4 mllm. long. \times 1 mllm. lat. \times 0, 7-1 mllm. crass.), recta v. subcurvula rarius flexuosa, basi coarctatula, fusco-atra glabra, labiis obtuse rotundatis primo conniventibus dein subrelaxatis dense minuteque striato-sulcatis (striis oculo nudo vix perspicuis) donata, carbonacea dura, contextu atro indistincto; asci cylindranei apice obtusi, basi breviter attenuato-pedicellati (p. sp. $200 \times 12-14 \mu =$ ped. $20-30 \times 5-7 \mu$) octospori, paraphysibus densis filiformibus apice subpenicillatim coalescentibus fuscescentibusque obvallati; sporidia recte v. suboblique monosticha elliptico-subfusoida 3-septata, ad septum medium constricta, utrinque obtusiuscule acutata ($30-34 \times 10-12 \mu$), subopace fuliginea. Iodi ope nulla.

Hab. Ad ramulos dejectos putrescentes in sylvis prope *Guarapí*, 15 Oct. 1883 (sub num. 4033).

144. HYSTEROGRAPHIUM GUARANITICUM Speg. (n. sp.)

Diag. Perithecia ligno denudato infuscatoque densissime constipata erumpenti-superficialia lineararia (1-2 mllm. long. \times 250-300 μ . crass. et alt.), recta v. flexuosula utrinque obtusiuscula ac saepe longitudinaliter confluentia, rima primo vix perspicua dein sublatiuscula longitudinali percursa, labiis obtusiuscule rotundatis donata, carbonacea atrao paca glabra laevia, contextu indistincto; asci obelavulati, antice subtruncato-rotundati crasseque tunicati, deorsum brevissime crasseque pedicellati ($65-75 \times 12-13 \mu$), octospori aparaphysati; sporidia recte disticha, rarius subtristicha, obovata v. clavulata utrinque obtusiuscula ($20-25 \times 7-8 \mu$), 3-5-septato-constrictula loculis 2-centra-

libus saepius majoribus, septis 1 v. 2 verticalibus (rarius 2 etiam transversis tenuioribus) divisis, pallide fuligineo-olivacea.

Hab. In truncis palisque decorticatis putrescentibus in sylvis prope *Guarapí*, Aug. 1883 (sub num. 3953).

Obs. Species pulcherrima habitu *Glonium lineare* (Fr.) DNtrs. perfecte aemulans; iodi ope nulla.

PHYMATOSPHAERIAE Speg.

Stromata forma varia carbonacea cornea v. molliuscula, intus dense minuteque loculigera, loculis monoascis indehiscen-
tibus.

Familia pulchella *Tuberaceis* affinis a quibus vegetatione aërea sapro-v. epi-phytica recedit, in tropicis praecipue luxurians, generibus permultis donata.

145. PHYMATOSPHAERIA SANGUINEA Speg. (n. sp.)

Diag. Stromata epiphylla sparsa v. laxe gregaria applanato-v. subhemisphaerico-orbicularia (1-1,5 mllm. diam.), superficialia, epidermide adnata, margine obtusa, superne rugulosa, rufescenti-atra, pruinula rubescente adpersa, intus pallescentia carnosula dense loculigera, loculis globosis v. ellipticis (55-65 μ) cinnabarino-tunicatis monoascis; asci solitarii in quoque loculo e globoso-ovatis (50-60 \times 35-40 μ) antice crasse tunicati postice pedicello minuto crassoque suffulti, tunica primo hyalina dein pallide rufescente vestiti, octospori; sporidia conglobata elliptica v. obovata (20-24 \times 10-15 μ), horizontaliter 3-septato-constrictula, ad septum medium saepe validius, loculis 2 internis majoribus septulo altero verticali (saepe quoque altero horizontali tenuiore) divisis, recta v. inaequilateralia, hyalina.

Hab. Ad folia viva *Styracis* speciei cujusdam in dumetis montanis *Sierra de Peribebuy*, 15 Sept. 1883 (sub num. 3928).

Obs. Species pulchella a genere *Phymatosphaeria* Pass. natura nectriacea desciscens et facile novi generis typum sistens.

DISCOMYCETEA Fr.

146. PEZIZA POLYTRICHI Schum.

Hab. Ad terram nec non ad truncos muscosos in sylvis uliginosis prope *Guarapí*, Sept. 1883 (sub num. 4941).

Obs. A typo specimina guaranítica vix deflectunt; cupulae (1-3 mllm. diam.) disco concaviusculo aurantio, extus turbinatulae pallidiores v. testaceo-pallescentes pilis unicellularibus obtusis (200-300 \times 12 μ) subhyalinis praecipue marginem versus vestitae, contextu cellulis majusculis (20 μ diam.) flavescensibus composito; asci cylindranei modice attenuato-pedicellati (p. sp. 90 \times 14 = ped. 30 \times 5 μ), octospori, paraphysibus filiformibus apice incrassatulis protoplasmate aurantio fartis densiuscule obvallati; sporidia monosticha globosa (12-13 μ diam.), densiuscule minuteque verruculosa, grosse 1-guttulata, hyalina.

147. PYRONEMA OMPHALODES (Bull.) Fuck.

Hab. Ad cinera arborum combustarum in sylvis prope *Yaguaron*, 15 Sept. 1883 (sub num. 3988).

Obs. Cupulae dense aggregatae collabescenti-confluentes ceraceae subaurantiae glabrae minutae; asci cylindranei (120 \times 10 μ) parce paraphysati; sporidia recte v. oblique disticha, ellipsoidea (12-16 \times 6-8 μ), hyalina. Iodi ope nulla.

148. SCUTULA LEUCORRHODINA (Mntgn.) Speg.

Hab. Ad folia viva arborum in *Perisporiaceis* parasitans in sylvis prope *Guarapí*, Oct. Nov. 1883 (sub num. 4016 et 4051).

Obs. Cupulae thallo mucedineo pelliculoso orbiculatim expanso tenuissimo ex albo subroseo laxè insidentes, udae hemisphaerico-turbinatae, siccae collabescenti-contractulae, ceraceae, pallide aurantiae v. aurantio-subroseae, minutae (300-400 μ diam.), obtusissime marginatae, glabrae, epithecio convexulo laevi; asci cylindranei antice obtuse rotundati, postice breviter cuneato-stipitati (50-60 \times 10-12 μ), octospori, aparamphysati v. pseudo-paramphysibus paucis (an ascis inanibus?) immixtis; sporidia recte v. oblique disticha, elliptico-fusoidea, utrinque acutiuscule

rotundata ($12-14 \times 4 \mu$), primo 4-blasta dein didyma ad septum non v. vix constricta, hyalina.

Species pulchella sine dubio ullo typum Montagnanum sistens, cum *Calonectriis* meliolicolis facillime confundenda, sed ab illis apotheciorum fabrica mox dignoscenda; iodi ope nulla.

149. *ORBILIA TENUISSIMA* Speg. (n. sp.)

Diag. Cupulae hinc inde laxe aggregatae orbiculares (0, 5-1 mllm. diam.) sessiles tenuissimae adnato-applanatae, vix margine integro reflexulo liberae, glaberrimae laevissimae, pallide succineo-pellucidae, tenacellae; asci subclavati apice latiuscule rotundato-truncati, basi brevissime crasseque attenuato-stipitati ($30 \times 3-4 \mu$) aparaphysati octospori; sporidia oblique disticha, cylindraceo subfusoida, utrinque acutiuscule rotundata ($8-11 \times 0, 5-1 \mu$), curvula, hyalina.

Hab. Ad petiolos putrescentes *Pothos pinnatifidae* in sylvis uliginosis prope *Guarapí*, Sept. 1883 (sub num. 4045).

Obs. Species pulchella habitu *Calloriam epiporam* Fuck. perfecte aemulans; iodi ope nulla.

MYXOMYCETEA Wallr.

150. *PHYSARUM VIRESCENS* Dtm. — Rost., Monogr. f. 103.

Hab. Ad folia dejecta putrescentia in sylvis uliginosis in *Cerro de Acahy*, Dec. 1883 (sub num. 4111).

Obs. Sporangia sessilia, aureo-virentia, stellatim dehiscentia; sporae globosae (8 μ diam.) laeves, crassiuscule tunicatae, fusco-vinosae.

151. *FULIGO SEPTICA* (Link.) Gml. — Rost., Monogr. f. 134.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Paraguari*, Aug. 1883 (sub num. 3948).

Obs. Sporae globosae (8-10 μ) laeves fusco-violaceae.

152. *CHONDRIODERMA DIFFORME* (Pers.) Rost. — Monogr. f. 177.

Hab. Ad folia viva *Pteridis* cujusdam in montanis *Cerro de Acahy*, 1 Dec. 1883 (sub num. 4110).

Obs. Sporae globosae (8 μ .) laeves fusco-violaceae.

153. DIDYMIUM LEUCOPUS Fr. — Syst. myc. III, f. 121.

Hab. Ad folia languida *Casseberiae triphyllae* in montanis *Cerro de Acahy*, Dec. 1883 (sub num 4112).

Obs. Sporangia e globoso hemisphaerica cinerascencia furfurella, stipite albo rugoso-striato torto suffulta; sporae globosae (8 μ), laeves, crasse tunicatae obscure glauco-fumosae.

154. DIDYMIUM GUARAPIENSE Speg. — Fung. guar. pug. I, n. 320.

Hab. Ad folia dejecta putrescentia in dumetis montanis *Cerro de Acahy*, 1 Dec. 1883 (sub num. 4107).

Obs. Sporae globosae (8-10 μ) laeves violaceae.

155. DIACHAEA LEUCOPODA (Bull.) Rost. — Monogr. f. 191.

Hab. Vulgata ad folia viva et emortua prope *Calle-poi*, *Guarapi* et in *Cerro de Acahy*, vere et aest. 1883 (sub num. 3998-4063-4108-9).

Obs. Sporae globosae (8-10 μ) laeves fumoso-violascentes.

156. TUBULINA ? GUARANITICA Speg. — Fung. guar. pug. I, n. 322 (sub *Licea*).

Hab. Ad corticem putrescentem in sylvis prope *Guarapi*, 9 Sept. 1883. (sub num. 3968).

Obs. Species summopere dubiosa et facile inter *Stilbeas* v. *Gasteromyceteas* adscribenda! Habitu *Tubulinae stipitatae* (Brk. & Rav.) Rost. vergens sed mox dignoscenda colore obscuriore, stipite magis rigido atque capillitii praesentia!

157. CRIBRARIA ? PERPUSILLA Speg. (n. sp.)

Diag. Sporangia e globoso pyriformia, minuta (200-250 μ diam.) alba laevia glabra inferne in stipite erecto terete striato-ruguloso subtorto (300-400 μ long. \times 50-80 μ crass.) rufescente pusillo glabro basi abrupte areolato-expanso producta; cortex sporangii superne frustulatim evanescens, inferne cupulatim persistens tenuis membranaceus rigidulus; columella flocci ac granuli calcarei nulli; sporae globosae v. e mutua pressione angulosae (10 μ) laeves pallide fumoso-subvinosae.

Hab. Ad folia viva *Phari latifolii* in sylvaticis montanis *Cerro de Acahy* vocatis, 1 Dec 1883 (sub num. 4112).

FUNGI IMPERFECTI

158. PHOMA ENGLERI Speg. (n. sp.)

Diag. Perithecia hinc inde sparsa, epidermide tecta, e globoso lenticularia (200-250 μ diam.), atra glabra membranaceo-coriacella subastoma, contextu parum distincto subparenchymatico atro; sporulae ellipticae (5-7 \times 1, 5-2 μ) utrinque acutiuscule rotundatae, grosse 2-guttulatae, hyalinae.

Hab. Ad petiolos putrescentes *Pothos pinnatifidae* in sylvis prope *Guarapí*, Sept. 1883 (sub num. 4031).

159. PHOMA GUARANITICA Speg. (n. sp.)

Diag. Perithecia hinc inde laxe gregaria v. sparsa, primo epidermide velata dein saepius nuda e lenticulari subglobosa (150-180 μ), non v. vix convexula atra opaca glabra, ostiolo minuto impresso perforata, contextu indistincto fuligineo; sporulae ellipticae v. ovoideae (10-14 \times 5-6 μ), saepe granuloso-farctae, hyalinae.

Hab. Ad ramulos dejectos putrescentes *Enckea Sebieri* in dumetis prope *Guarapí*, Oct. 1883 (sub num. 4027).

160. PHOMA PARAGUAYENSIS Speg. (n. sp.)

Diag. Perithecia minuta e lenticulari conoidea (70-90 μ) epidermide velata, dense congesta, plagulas atras v. cinerascentes longe lateque per matricem serpentes efformantia, tenui membranacea, parenchymatico-fuliginea, glabra laevia ostiolo impresso latiusculo (25 μ diam.) pertusa; sporulae ellipticae utrinque acutiusculae (15-17 \times 5-6 μ), rectae v. falcatae, continuae, hyalinae.

Hab. Ad ramulos languidos *Citri aurantii* in cultis prope *Guarapí*, Oct. 1883 (sub num. 4028).

161. PYRENOCHAETA ENGLERI Speg. (n. sp.)

Diag. Perithecia parvula (150-180 μ) globoso-conoidea atra, epidermide velata, apice erumpentia ac pilis nonnullis atro-fuliginis continuis (40-60 \times 4-5 μ) obtusiusculis rectis v. vix flexuosulis subpenicillatim laxe vestita, subastoma, membra-

nacea pellucida parenchymatico-olivacea, densiuscule aggregata, plagulas atras velutinas latiusculas efficientia; sporulae elliptico-ovoideae v. subcylindraceae, utrinque obtusae (16-20 \times 5 μ) rectae v. inaequilaterales, non v. granuloso-farctae, hyalinae.

Hab. Ad petiolos emortuos putrescentes *Pothos pinnatifidae* in sylvis prope *Guarapí*, Oct. 1883 (sub num. 4042).

162. DOTHIORELLA? GUARANITICA Speg. (n. sp.)

Diag. Perithecia v. loculi minuti (80-90 μ) globosi dense constipati, stromatibus verrucaeformibus erumpenti-subsuperficialibus laxe gregariis atro-carbonaceis contextu indistincto donatis immersi, albo-farcti; sporulae ovoideae majusculae (24-26 \times 12-15 μ) crassiuscule tunicatae granuloso farctae hyalinae, stigmatibus papillaeformibus brevibus ac crassis suffultae, paraphysibus longioribus filiformibus densiusculis obvallatae. An status immaturus *Haplosporellae* cujusdam?

Hab. Ad corticem ramulorum *Citri aurantii* in cultis prope *Guarapí*, Oct. 1883 (sub num. 4038).

Obs. Stromata hemisphaerico-suborbicularia (0, 5-1 mllm. diam.) atra laevia, apothecia lichenina simulantia.

163. FUSICOCUM? CACTORUM Speg. (n. sp.)

Diag. Stromata parenchymate innata majuscula (0, 5-1 mllm.) epidermide tecta adnataque extus non v. vix manifesta, inferne hemisphaerico-conoidea, superne applanata papillula (ostiolo?) epidermidem perforante donata, atra glabra coriacea dura fere sclerotiacea, intus pallescentia ac irregulariter (*tuberis* instar) loculis minutis (60-70 μ), saepe in unum apicalem confluentibus ornata; sporulae ellipticae v. subovoideae (14-15 \times 5-6 μ) non v. granuloso-farctae, hyalinae.

Hab. Ad ramos dejectos putrescentes *Cerei* arborei cujusdam in sylvis *Calle-poi* prope *Yaguaron*, 20 Sept. 1883 (sub num. 3994).

Obs. Species anomala perpulchra in parte interna corticis tantum manifesta.

164. CYTISPORA? BALANSAE Speg. (n. sp.)

Diag. Stromata minuta (0, 5-1 mllm. diam.) verrucae-v. subvalsae-formia carbonacea, atra, ligno immersa, ostiolo tuberculoso

crasso epidermidem perforante atque breviter exerto donata; perithecia in quoque stromate pauca (2-3), parvula (100-150 μ), saepe confluentia; sporulae botuliformes, utrinque obtusae (5-6 \times 1 μ) atque 1-guttulatae, chlorinulae.

Hab. Ad ramulos dejectos putrescentes plantae cujusdam in sylvis prope *Guarapí*, Aug. 1883 (sub num. 3957).

GAMOSPORELLA Speg. (n. gen.)

Diag. Stromata erumpentia atra subcarbonacea intus dense minuteque peritheciigera v. loculigera; sporulae fusioideae multi-guttulatae, quaternatim basi connatae, hyalinae, in sterigmatibus minutis acrogenae.

165. GAMOSPORELLA HYSTERIOIDES Speg. (n. sp.)

Diag. Stromata linearia utrinque acutiuscula, laxe gregaria saepe subseriata minuta (1-1,5 mllm. long. \times 250-300 μ lat.), epidermide primo tecta dein erumpentia, atra carbonacea; loculi (an perithecia?) minuti (80-100 μ) dense constipati saepeque confluentes stromate immersi albo-farcti; sporulae fusioideae utrinque acutae (15-20 \times 2-2,5 μ), 5-9-guttulatae, continuae, quaternatim basi aggregatae, centrali caeteris saepius longiore, in sterigmatibus minutis papillaeformibus e strato prolifero prominulis acrogenae.

Hab. Ad culmos dejectos putrescentes *Paniceae* cujusdam in sylvis uliginosis prope *Paraguarí*, 8 Sept. 1883 (sub num. 3961).

166. CONIOTHYRIUM GLOBULISPORUM Speg. (n. sp.)

Diag. Perithecia epidermide innata lenticularia (an dimidiato-scutata?) minuta (150-180 μ diam.) atra, dense sparsa, membranacea, contextu parenchymatico parum distincto, in sicco collabescentia, ostiolo minuto perforata; sporulae globosae (8-10 μ diam.) crassiuscule tunicatae primo hyalinae dein fuligineae.

Hab. Ad corticem languidum *Cactorum* in cultis prope *Asuncion*, Sept. 1883 (sub num. 4078).

167. HAPLOSPORELLA PILOCARPI Speg. (n. sp.)

Diag. Stromata valseae-v. subtuberculi-formia (0,5-1 mllm. diam.) atra laxe aggregata v. sparsa, primo tecta, dein pustulato-erumpentia, carbonacea, contextu indistincto pluriloculata; perithe-

cia (v. loculi) globosa e mutua pressione difformia (100-120 μ) albo-farcta; sporulae elliptico-v. ovoideo-subcylindratae utrinque obtusae (20-22 \times 10 μ) rectae v. inaequilaterales paraphysatae, sterigmatibus breviusculis ac crassis suffultae, pulchre fuligineae.

Hab. Ad ramulos dejectos putrescentes *Pilocarpi pinnatae* in montanis, *Cerro de Paraguari*, Sept. 1883 (sub num. 3955).

168. HAPLOSPORELLA PILOCARPINA Speg. (n. sp.)

Diag. Perithecia solitaria v. 2-3-aggregata cortice immersa, ostiolo minuto papillulato, epidermidem macula orbiculari fusca determinata notatam vix perforante donata, globulosa (120-150 μ), atra, membranaceo coriacea, contextu parum distincto olivaceo; sporulae ellipticae utrinque obtusae (26-28 \times 14 μ), opace fuligineae rectae v. saepius subcurvulae, continuae.

Hab. Ad foliorum petiolos emortuos putrescentes *Pilocarpi pinnatae* in montanis *Cerro de Paraguari*, Sept. 1883 (sub num. 3955).

Obs. Species habitu ac sporularum notis a priore longe abhorrens.

169. DARLUCA AUSTRALIS Speg. (n. sp.)

Diag. Perithecia globulosa minuta (140-150 μ), dense gregaria hinc inde plagulas suborbiculares, pulvinulatas (0, 5-2 mllm. diam.) granulosa atras efficientia, coriaceo-membranacea, contextu fuligineo indistincto, glabra, ostiolo impresso pertusa; sporulae fusoideae v. elongato-subbiconicae, medio 1-septatae, non v. vix constrictae utrinque acutiusculae (18-20 \times 4 μ) ac in juventute mucoso-penicillatae, dein exappendiculatae, hyalinae.

Hab. Ad folia viva *Bignoniae* cujusdam in dumetis prope *Guarapi*, Aug. 1883 (sub num. 3941).

Obs. Species in uredine non parasitans contextu fuligineo sporularumque magnitudine satis distincta.

170. ASCOCHYTA GUARANITICA Speg. (n. sp.)

Diag. Perithecia elliptico-lenticularia minuta (60-70 μ) epidermide velata dense aggregata, maculas cinerascens totum hypophyllum fere occupantes efficientia, atra glabra tenui membranacea parenchymatica, ostiolo impresso pertusa; sporulae cylindratae, utrinque obtusae (18-20 \times 2, 5 μ), medio 1-septatae, non constrictae, rectae hyalinae.

Hab. Ad folia dejecta putrescentia *Sapotaceae* cujusdam in sylvis prope *Guarapí*, Sept. 1883 (sub num. 4072).

171. *ACTINONEMA*? *HIRSUTUM* Speg. (n. sp.)

Diag. Subiculum hypophyllum laxissimum arachnoideo-expansum velutinum atro-olivaceum, ex hyphis repentibus subtorulosis (articulis cylindraceis $12-14 \times 4 \mu$) gracilibus guttulatis olivaceis hinc inde setulas erectas cylindraceas ($120-150 \times 5 \mu$) sursum sensim attenuatas apiceque obtusulas 3-9-septulatas olivaceas gerentibus efformatum; perithecia in subiculo sparsa globulosa (100μ diam.), tenui membranacea, grosse parenchymatico-cellulosa, olivacea, glabra primo astoma dein apice ostiolatim dehiscentia; sporulae cylindraceae utrinque obtusae ($30-35 \times 5 \mu$), rectae v. flexuosae medio 1-septatae non constrictae, hyalinae.

Hab. Ad folia viva *Panici* cujusdam in herbosis sylvaticis prope *Guarapí*, Sept. 1883 (sub num. 4065).

172. *DIPLODIA* *CACTORUM* Speg. (n. sp.)

Diag. Perithecia cortice immersa epidermide tecta e globoso lenticularia ($150-200 \mu$) non v. vix prominula atra glabra subcarbonacea, contextu grosse parenchymatico-celluloso fere opaco ac subindistincto, ostiolo non v. vix papillulato ornata; sporulae ellipticae v. ovoideae primo continuae hyalinae dein didymae ad septum non v. vix constrictae utrinque obtusae ($30-35 \times 14-16 \mu$), granuloso-farctae, subopace e roseo fuligineae, sterigmatibus brevissimis hyalinis suffultae, paraphysibus filiformibus longioribus obvallatae.

Hab. Ad corticem ramorum putrescentium *Cerei* cujusdam arborei in sylvis prope *Paraguarí*, Nov. 1883 (sub num. 4047).

173. *DIPLODIA*? *NUTANS* Speg. (n. sp.)

Diag. Stroma cortice innatum repens, maculas irregulares elongatas ramoso-anastomosantes atras efformans, tenue, epidermide tectum; perithecia stromate immersa non v. vix prominula ac epidermidem perforantia, hinc inde gregaria, lenticulari-globulosa ($150-220 \mu$) subcarbonacea, contextu indistincto; sporulae elliptico-ovatae v. subglobosae ($22-30 \times 14-16 \mu$) diu continuae hyalinae, dein medio 1-septatae non constrictae roseo-fuligineae, sterigmatibus longiusculis crassiusculisque ($30-35 \times 5-9 \mu$) suffultae, paraphysibus filiformibus praelongis obvallatae.

Hab. Ad ramulos dejectos putrescentes in sylvis prope *Guarapí*,
15 Oct. 1883 (sub num. 4064).

ASTEROMIDIUM Speg. (n. gen.)

Diag. Subiculum dematieum phyllogenum tenue; perithecia minuta globosa astoma; sporulae elongatae pluriseptatae hyalinae.

174. ASTEROMIDIUM IMPERSPICUUM Speg. (n. sp.)

Diag. Subiculum hypo-(rarius epi-) phyllum; tenuissimum vix perspicuum, arcte matrici adnatum, mucedineo-fibrosum atrum, radians, plagulas fuscas hinc inde efficiens; perithecia in plagulis laxe gregaria, superficialia minutissima (50-70 μ) globosa astoma fuscidula, postice membranaceo-persistentia parenchymatico-radiantia, superne anhyta hyalina fatiscentia; sporulae fusoido-cylindratae, utrinque acutiusculae (24-30 \times 3-3, 5 μ), triseptatae, ad septa constrictulae, rectae, hyalinae. Status stylosporicus *Hyalodermatis imperspicui* Speg.

Hab. Ad folia viva *Sapindaceae* cujusdam in dumetis prope *Guarapí*, Sept. 1883 (sub num. 4085).

175. COUTUREA DIMEROSPORIOIDES Speg. (n. sp.)

Diag. Mycelium epiphyllum arctiuscule matrici adnatum tenuissimum late vageque serpens plus minusve obscure olivaceum ex hyphis tenuissimis (3-3, 5 μ crass.) flexuosis longissimis laxe ramuloso-intertextis olivaceis septulatis compositum; perithecia sparsa globulosa (60-80 μ), sicca collabescentia, hyphis paucis radiantibus vestita, atra subverruculosa coriacea contextu indistincto olivaceo-donata; sporulae fusoidae, rectae v. curvulae, utrinque acutato-obtusatae (28-34 \times 9-10 μ), 3-5-septatae, loculis omnibus subaequilongis v. tertio v. quarto supero longiore subcrassioreque, fuligineae, sterigmatibus hyalinis (5-10 \times 2 μ) suffultae. Status stylosporicus *Asteridii dimerosporioidis* Speg.

Hab. Ad folia viva *Bilbergiae* v. *Pitchairniae* cujusdam in sylvaticis prope *Paraguarí*, Oct. 1883 (sub num. 4059).

176. CAPNODIUM DORATOPSIS Speg. (n. sp.)

Diag. Subiculum epiphyllum pelliculosum tenue totum folium obtegens, eaque arctiuscule adnatum ex hyphis dense constipatis torulosis, articulis ellipticis v. e mutua pressione difformibus

grosse biguttulatis donatis, olivaceis compositum; perithecia cylindracea basi non v. vix subincrassata, sursum subattenuata (250-500 \times 10 crass.) sub apice abrupte fusiformi-v. lanceolato-inflata, (50-60 \times 20 μ), fimbriato-ostiolata, atra subpellucida; sporulae non visae.

Hab. Ad folia ignota in sylvis prope *Naranjo* in *Sierra de Peribebuy*, 24 Maj. 1883 (sub num. 3833).

Obs. Species pulchella etsi sterilis distinctissima!

177. *ACTINOTHYRIUM PARAGUAYENSE* Speg. (n. sp.)

Diag. Maculae amphigenae parvulae (1-3 mllm. diam.), elliptico-orbiculares, albae v. pallescenti-albae, determinatae, saepius areola majuscula fuscescente cinctae; perithecia in maculis amphigena sparsa v. dense aggregata, innato-superficialia, hemisphaerica, dimidiato-scutata (80-90 μ) tenui-membranacea, atra, contextu parenchymatico-radiante fumoso-fuligineo, ostiolo parum perspicuo impresso donata; sporulae cylindraceo-fusoidae, utrinque acutissimae (15-20 \times 1, 5-2 μ) falcatae, continuatae, hyalinae.

Hab. Ad folia languida *Pothos pinnatifidae* in sylvis prope *Guarapí*, Sept. 1883 (sub num. 4082).

178. *ASTEROSTOMELLA PARAGUAYENSIS* Speg. — Fung. guar. pug. I, n. 356.

Hab. Ad folia arborum plurimarum viva in sylvis prope *Guarapí*, et *Paraguarí*, per ann. 1883 (sub num. 2731-3840-3843-3942-3945).

Obs. Species statum stylosporicum *Asterinarum* sistens, diligentius inspecta in plurimis certe dividenda.

TRICHOSPERMA Speg. (n. gen.)

Diag. Cupulae ceraceae parvulae subiculo phyllogeno tenui albo insidentes; sporulae filiformes dense constipatae e strato proli-gero immediate oriundae.

179. *TRICHOSPERMA PULCHELLUM* Speg. (n. sp.)

Diag. Coespituli subiculi parvuli (0, 5-1 mllm. diam.) hypophylli, marginales ad denticulos tantum sparsi, compactiusculi, candidi non v. vix radiantes, ex hyphis hyalinis tenerrimis gracilibus compositi; cupulae subiculo subimmersae turbinatulae, parvulae

(200-250 μ), extus pallescentes hyphis paucis hyalinis radiantibus vestitae, epithecio succineo-aurantio donatae; sporulae filiformes (180-200 \times 1 μ), continuae, rectae v. vix flexuosulae, hyalinae.

Hab. Ad folia *Trichiliae caatigua* in sylvis subvirgineis prope *Guarapí*, Sept. 1883 (sub num. 4014).

Obs. Species pulchella habitu *coccus* pusillos albo-gossypinulos perfecte simulantia.

180. *PESTALOZZIA PARAGUAYENSIS* Speg. (n. sp.)

Diag. Maculae amphigenae orbiculares minutae (0, 5-1 mllm.) saepius marginales determinatae candidae areola purpurascente cinctae; acervuli amphigeni in centro macularum solitarii v. pauci-aggregati, minuti (80-100 μ) atrii erumpentes; sporulae obovatae v. subelavulatae (20 \times 7 μ), 4-septatae, ad septa constrictulae, loculis 2 extimis minutis hyalinis, 3 internis olivaceis, infero saepius pallidiore, apice rostellis 2-3 hyalinis brevibus ac crassis (5-10 \times 1, 5 μ) divaricatis ornatae, inferne pedicello brevissimo (5 \times 1) hyalino suffultae.

Hab. Ad folia viva *Euphorbiae* speciei cujusdam, socia *Phyllosticta* immatura, in herbosis sylvae *Caá-guazú* Jan 1882 (sub num. 3502).

181. *OIDIUM ERYSIPOIDE* Fr. — Sacc., Syll. hyph. f. 41.

Hab. Ad folia viva *Leguminosarum Umbelliferarumque* prope *Guarapí*, Aug. 1883 (sub num. 4053-54).

182. *VERTICILLIUM PHYLLOSTICTOIDE* Speg. (n. sp.)

Diag. Maculae determinatae orbiculares, minutae (0, 5-2 mllm. diam.) candidae v. albo-pallescens, areola latissima purpurascens cinctae; acervuli epiphylli solitarii v. 3-4-aggregati, subconfluentes, erumpenti-superficiales minuti (150-300 μ), candidi, compactiusculi, pulvinulato-difformes; hyphae e parenchymate foliorum enatae erectae, cylindratae continuae breviusculae, graciles (25-40 \times 3-4 μ) ad tertium superum pluries bi-v. tricothomae, ramulis ultimis phialiformibus (10 \times 3 μ), hyalinae; conidia elliptica utrinque acutiuscule rotundata recta v. subinaequilateralia (5-7 \times 2-3 μ) hyalina sterigmatibus acrogena (an catenulata?).

Hab. Ad folia languida *Pothos pinnatifidae* in sylvis prope *Guarapí*, Sept. 1883 (sub num. 4082).

183. *CERCOSPORELLA?* *GUARANITICA* Speg. (n. sp.)

Diag. Coespituli candidi, hinc inde densiuscule aggregati minuti; hyphae cylindratae rectae v. flexuosulae teretes (60-80 \times 5 μ), 2-5-septatae, non constrictulae sursum parce nodulosae, hyalinae; conidia fusioidea v. cylindrata-fusioidea, recta v. arcuata, utrinque obtuse acutata (40-60 \times 4-5 μ) continua, granuloso-farcta, hyalina.

Hab. Ad ostiola *Phomatosporae botriosphaeroidis* Speg., socia *Nectria guaranitica* Speg., ad ramulos dejectos putrescentes prope *Guarapí*, 10 Dec. 1883 (sub num. 4102).

Obs. Species fere anomala potius ad *Fusarium* referenda, statum conidicum unius v. alterius fungilli, cum quibus consociata, sistens.

184. *CERCOSPORELLA STOMATOFILA* Speg. (n. sp.)

Diag. Acervuli hypophylli e stomatibus epidermidis penicillatim protrudentes, minutissimi (50-60 μ) candidi; hyphae e tuberculo atro subgloboso (40-50 μ) stomate innato exsurgentes, breviusculae (20-25 \times 4 μ) rugulosae noduloso-denticulatae, continuae, hyalinae; conidia cylindrata e denticulis hypharum oriunda, utrinque rotundata (20-30 \times 2-2, 5 μ) medio 1-septata, non constricta, hyalina.

Hab. Ad folia viva *Sapindaceae* cujusdam in dumetis prope *Guarapí*, Sept. 1883 (sub num. 4086).

185. *HELICOMYCES LARVAEFORMIS* Speg. — Fung. guar. pug. I, n. 376.

Hab. Ad gemmas hypertrophicas *Nectandrae* cujusdam in sylvis prope *Paraguarí*, Aug. 1883 (sub num. 3933).

Obs. Conidia 4-5-blasta (20-5 \times 6 μ), hyalina.

186. *CONIOSPORIUM?* *MYIOCOPROIDE* Speg. (n. sp.)

Diag. Acervuli hypophylli superficiales, hemisphaerico-orbiculares minuti (150-250 μ) atrii, compactiusculi, sparsi v. saepius pluri-aggregati v. subconfluentes; hyphae e centro basali acervulorum radiatim enatae brevissimae graciles (10-15 \times 3-4 μ) septulato-subtorulosae, mox dense toruloso-dicothomae, articulis gradatim in sporulis mutatis; conidia globosa (4-5 μ diam.) catenulata, glabra laevia fuliginea.

Hab. Ad folia emortua v. languida *Cocoes australis* in *Sierra de Peribebuy*, 24 Maj. 1883 (sub num. 4035).

187. GLENOSPORA? MICROSPORA Speg. (n. sp.)

Diag. Acervuli elliptici pulvinatuli majusculi, confertiusculi mox collabescenti-confluentes ac saepe totam matricem crusta granulosa sordide olivacea obtegentes; hyphae steriles repentes dense intricato-ramosae septulatae (4-5 μ crass.) olivaceae, hinc inde ramulos adsurgentes fertiles emittentes; ramuli fertiles hyalini laxe noduloso-denticulati, graciles mox mucoso-diffluentes; conidia e denticulis ramulorum fertilium oriunda elliptica v. ovoidea utrinque obtusa (9-11 \times 6-8 μ), granuloso-farcta, olivacea, mucos ramulorum immixta hyphasque incrustantia.

Hab. Ad folia dejecta putrescentia *Palmae*, vulgo *Bocayá* vocatae, prope *Guarapí*, 19 Aug. 1883. (sub num. 3945).

188. CIRCINOTRICHUM MACULIFORME Nees. — Sacc., Syll. hyph. f. 314.

Hab. Ad folia dejecta putrescentia in sylvis montanis in *Cerro de Acahy*, 1 Dec. 1883 (sub num. 4107).

189. CORDELLA CONIOSPORIOIDES Speg. — Fung. guar. pug. I, n. 392.

Hab. Ad ramulos putrescentes *Bambusaceae* cujusdam in sylvis prope *Carapeguá*, 24 Jul. 1883 (sub num. 4037).

Obs. Setulae subiculi 20-30 \times 1, 5-4 μ = conidia globosa 15-20 μ .

190. CORDELLA TOMENTOSA Speg. (n. sp.)

Diag. Pulvinuli irregulariter lateque effusi saepe totam matricem obtegentes tenues olivacei e pulverulento tomentosi; stratum proligerum v. epidochium carnosulo-membranaceum effusum olivaceum contextu indistincto, ubique hyphis sterilibus erectis (150-200 \times 5-10 μ) flaccidulis 3-5-septatis saepe hinc inde torulosis, articulis alternatim in sicco laminari-compressis, apice obtusis rarius subcircinatis non v. praecipue apicem versus sparse verruculosis pallide olivaceis pellucidis vestitum; sterigmata crasse brevissimeque papillaeformia ad basin hypharum sterilium exsurgentia, fuscidula monospora; conidia obovata v. grosse 1-guttulata, minute denseque verruculosa, opace fuliginea.

Hab. Ad ramos emortuos putrescentes in sylvis prope *Calle-poi* et *Yaguaron*, 20 Sept. 1883 (sub num. 4002).

191. CLADOSPORIUM HERBARUM Lk. = Speg., Fung. guar. pug. I, n. 396.

Hab. Ad folia dejecta putrescentia *Laurineae* cujusdam in sylvis prope *Guarapí*, Oct. 1883 (sub num. 3946).

192. *NAPICLADIUM MYRTACEARUM* Speg. (n. sp.)

Diag. Maculae nullae; acervuli hypophylli orbiculares (2-3 mllm. diam.) tenuissime effuso-superficiales, submembranacei, velutini, olivacei; hyphae repentes dense intricato-ramulosae, graciles (5-7 μ crass.), septulatae olivaceae, hinc inde ramulos fertiles erectos rectiusculos rarius flexuosos (200-250 \times 4-6 μ) 5-10-septulatos non constrictos pellucidos concolores apice pallidiores ac noduloso-papillulatos gerentes; conidia e papillis ramulorum fertiliū apicalibus exurgentia, elongato-clavulata, superne abruptiuscule rotundato-subtruncata, inferne longiuscule attenuata (25-40 \times 5-7 μ) 3-(rarius 5-) septata, ad septa non constricta, pallide olivacea, loculis 2 (v. 4) internis obscurioribus.

Hab. Ad folia viva *Eugeniae pungentis* in sylvis prope *Guarapí*. Aug. 1883 (sub num. 3939).

193. *NAPICLADIUM RAVENELII* (B. & C.) Speg. — Sacc., Syll. hyph. f. 412. — *Heterosporium?* *callospermum* Speg., Fung., guar. pug. I, n. 401.

Hab. Ad spicas vivas *Sporoboli* cujusdam in pratis prope *S. Barbara* et *Villarica*, Jan. 1882 (sub num. 3512).

194. *CERCOSPORA FURFURELLA* Speg. (n. sp.)

Diag. Maculae nullae v. indeterminatae vix pallescentes; coespituli epiphylli densiuscule latissimeque aggregati vix perspicui, plagulas ex albo cinerascens furfurellas latiusculas irregulares efficientes; hyphae 5-20 in quoque coespitulo, cylindratae rectae v. vix subarcuatae continuae apice obtuse acutatae ac 3-4-nodulosae, (40-60 \times 5 μ) pallide olivaceae; conidia obclavulata basi subtruncato-rotundata, sursum longe attenuata (50-120 \times 4-5 μ), 1-5-septulata, ad septa non constricta, recta v. inaequilateralia, hyalina.

Hab. Ad folia viva *Boerhaaviae discoloris* in sylvaticis prope *Guarapí*, Dec. 1883 (sub num. 4105).

Obs. Species pulchella inter *Cercosporam* et *Cercosporellam* nutans!

195. *CERCOSPORA PALMICOLA* Speg. (n. sp.)

Diag. Maculae amphigenae ellipticae, majusculae (1-2 cent. long.

× 3-8 mllm. lat.), determinatae, arescentes fusco-pallescentes, undulatae, saepe seriatim confluentes; coespituli saepius in centro macularum laxè aggregati minuti penicillati olivacei; hyphae 5-15-coespitulosae, erectae rectae v. flexuosulae, apice obtusae 1-3-denticulato-nodulosae continuae (40-50 × 5-6 μ) fumoso-olivaceae; conidia saepius acrogena obclavulata, utrinque obtusiuscula (50-70 × 7-9 μ), 5-7-pseudoseptata v. 5-9-blasta, ad septa subconstrictula, recta, fumoso-olivacea.

Hab. Ad folia languida *Cocoes australis* in sylvis prope *Guarapí*, 15 Oct. 1883 (sub num. 4070).

196. *CONIOTHECIUM VELUTINUM* Speg. (n. sp.)

Diag. Pulvinuli tenues effusi saepe totam matricem obtegentes aterrimi subvelutini; conidia difformia, globosa, trigona, ovoidea etc., 1-30-cellulosa, ad confluentiam cellularum constricta, saepius hyphis minutis cylindraceis (5-15 × 2-3 μ) fuligineis primo suffulta dein appendiculata; cellulae conidiorum globosae v. e mutua pressione difformes minute papilluloso-asperulae (6-8 μ diam.) subopace atro-fuliginiae.

Hab. Ad palos dejectos cariosos in cultis prope *Guarapí*, Oct. 1883 (sub num. 3954).

197. *TUBERCULARIA CACTOFILA* Speg. (n. sp.)

Diag. Acervuli primo epidermide tecti dein erumpenti-subsuperficiales e globoso subhemisphaerici, minuti (250-500 μ) densiuscule gregarii saepeque confluentes, compactiusculi rosei; sterigmata in sporidochio carnosio coalita apice longiuscule fusiformi libera (15-20 × 2 μ) acutiuscula, hyalina; conidia elliptica v. sobovoidea utrinque acutiuscule rotundata (4-6 × 3-4 μ) recta v. subinaequilateralia, hyalina.

Hab. Ad corticem putrescentem *Cerei* arborei cujusdam in sylvis prope *Paraguari*, Nov. 1883 (sub num. 4047).

198. *TUBERCULARIA? LEPTOSPERMA* Speg. (n. sp.)

Diag. Acervuli obovati v. pyriformes saepe basi substipitati dense gregarii saepiusque confluentes, pulvinulos majusculos (1-3 mllm. long. × 1 mll. lat.) crassiusculos irregulares e rimulis corticis erumpentes efficientes sordide obscureque carnei; sterigmata dense constipato-coalescentia (60 × 1 μ) vix apice acutiusculo libera, pallide rufescentia; conidia fusoideo-subcylindracea utrin-

que acutiuscula ($10-12 \times 1-1, 5 \mu$), recta, arcuata v. sigmoidea continua hyalina.

Hab. Ad corticem ramorum putrescentium *Psidii pomiferi* in cultis prope *Guarapí*, 10 Dec. 1883 (sub num. 4101).

BIZOZZERIELLA Speg. (n. gen.)

Diag. Sporidochia phyllogena majuscula carnosula laeticoloria hypothallo mucedineo radiante saepius insidentia, subpileato-dilatata stipite crasso cingulo gelatinoso-succineo conidiifero cincto suffulta; conidia minuta cylindraceo-fusoidea catenulata (an semper?), in sporophoris filiformibus acrogena.

Obs. Genus singulare *Aschersoniae* Mntgn. peraffinis, a quo recedit perithecorum defectu, statum conidicum *Hypocreellae* Sacc. sistens.

Nomen ex amico carissimo premature demortuo Cl. *J. Bizzozzero*, patavino, botanicae atque mycologiae meritissimo.

199. BIZOZZERIELLA PHYLLOGENA Speg. (n. sp.)

Diag. Hypophylla; hypothallum tenuissime membranaceum vix perspicuum radiosum-orbiculatum, ex albo hyalinum late expansum (2-5 mllm.); sporidochia centro hypothalli solitaria v. 2-3-aggregata, subcylindraceo-hemisphaerica ($1-1, 5$ mllm. diam. \times 1 mllm. alt.), stipite conoideo brevissimo crassoque (500-700 μ alt. \times 700-800 μ crass. bas. \times 250-300 crass. apic.) in pileo applanato-hemisphaerico abrupte expanso donata, carnosulo-coriacea, in sicco dura subfriabilia, extus alba v. pallescenti-fulva, intus alba fibrosulo-compacta; stratus conidiiferus crassiusculus stipitem atque partem inferam pilei vestiens, crassiusculus (300-350 μ) in sicco subcorneus, in vivo tremelloideus, corniculis longiusculis crassiusculisque simplicibus v. bifidis ($250-300 \times 25-30 \mu$) albis e stipite oriundis horizontaliter implexus (an parietes perithecorum *Aschersoniae*?) succineo-aurantius; conidia e fusoido cylindracea acutiuscula ($12-14 \times 2-2, 5 \mu$) hyalina continua recta v. subinaequilateralia, utrinque apiculo conico ($4-5 \times 1 \mu$) aucta, catenulata (?), sporophoris e corniculis exsurgentibus filiformibus ($20-25 \times 1 \mu$) hyalinis suffulta.

Hab. Ad folia exsiccata adhuc pendula *Laurineae* cujusdam in sylvis prope *Guarapí*, Oct. 1883 (sub num. 3946).

Obs. Species *Aschersoniae tahitensis* Mntg. et praecipue *Asch. oxysporae* Brk. peraffinis nisi identica, loculis descriptis tamen

non visis. Hoc genere sine ullo dubio *Asch. basicystis* B. & C. adscribenda!

200. PIONNOTES PSEUDONECTRIA Speg. (n. sp.)

Diag. Sporidochia hinc inde per rimulas corticis erumpentia, sub-superficialia, solitaria v. 3-10-aggregata saepeque confluentia, subglobosa v. pyriformia, minuta (250-350 μ) succineo-aurantia, glabra laevia; sporophorae e nucleo centrali basaliue subparenchymatico oriundae dense fasciculatae, cylindratae (250-300 \times 3 μ), rectae simplices, continuae v. parce septatae, hyalinae monosporae; conidia cylindrata utrinque attenuata ac curvula (80 \times 6 μ), 5-7-septata non constricta, hyalina.

Hab. Ad corticem ramorum putrescentium plantae ignotae in sylvis prope *Paraguari*, Oct. 1883 (sub num. 4073).

201 MICROCERA? CLAVARIELLA Speg. — Fung. guar. pug. I, n. 428.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylvis prope *Guarapi*, Oct. 1883 (sub num. 4059).

PUCCINIOPSIS Speg. (n. gen.)

Diag. Sporidochia subglobosa minuta superficialia biogena; conidia dense constipata majuscula clavulata didyma, stipite brevissimo suffulta, fuscescentia.

202. PUCCINIOPSIS GUARANITICA Speg. (n. sp.)

Diag. Maculae amphigenae elongatae indeterminatae (1-10 mllm. long. \times 1-5 mllm. lat.) arescentes, areola purpurascente cinctae; sporidochia saepius hypophylla, densiuscule in centro macularum aggregata globosa minutissima (50-150 μ diam.), olivacea; conidia pucciniaeformia didyma obscure olivacea, clavulata (20-28 \times 10 μ), apice late v. subtruncato-rotundata, mucrone pallidiore obtuso plus minusve evoluto aucta, loculo supero crasse tunicato, laevia, glabra, inferne stipitibus mox coalescentibus nucleum carnosulum efformantibus pallidioribus suffulta.

Hab. Ad folia viva *Cocoes yatai* in montanis *Sierra de Peribebuy*, 1 Nov. 1883 (sub num. 4068).

Obs. Species pulcherrima conidiis teleutosporas *Pucciniae* cujusdam perfecte aemulans.