

CAROLUS SPEGAZZINI

FUNGI GUARANITICI

NONNULLI NOVI V. CRITICI

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— III —

HYMENOMYCETEA Fr.

1. CLITOCYBE BALANSAE SPEG.—Fung. nonn. Parag. et Fuegiae in Revue Myc. Apr. 89.

Hab. Ad terram in sylvis prope *Guarapi*, aut. 1884 (sub n. 4286).

Obs. Pileus glaber laevis viscidulus; lamellae lineares conferatae longe decurrentes pallescenti-albae; stipes plus minusve elongatus incrassatusque, velutino-pulverulentus albus, basi subconato-coespitosus; sporae ovato-globosae, minutae, hyalinae.

2. CLITOCYBE CALYX SPEG. — Fung. guar. pug. I, n. 3.

Hab. Ad truncos putrescentes in sylvis prope *Guarapi*, aut. 1880 (sub n. 3370).

Tip!

3. PLEUROTUS MICROSPERMUS SPEG. — Fung. nonn. Parag. et Fuegiae in Revue Myc. Apr. 89.

Hab. Ad basin truncorum in sabulosis prope *Guarapi*, aut. 1884 (sine n.).

Obs. I. Observationes quae ad hanc speciem pertinent in loco citato ad *Cl. Balansae* Speg. relatae fuerunt.

Obs. II. Pileus quandoque cornucopioidis quandoque infundibuliformi-spathulatus (5-6 cent. alt. \times 2-6 cent. lat.) postice tamen semper marginatus, ambitu grosse repando-lobatus, margine acutissimo subinvolutoglaber laevis viscosulus, saepius granulis arenae

incrustatus v. adpersus, in vivo sordide albus v. albo-cinereus, in sicco cervinus; caro tenuis (1-3 mllm. crass.) alba flocculosa compacta; lamellae lineares sublatiusculae (1-2 mllm. lat.) membranaceae confertae, acie integerrimae, utrinque attenuatae, postice longe decurrentes, polymacriae, in vivo albo-pallescens, in sicco sordide ex umbrino subrufescentes; stipes teres rectus v. curvulus (10-25 mllm. long. \times 3-5 mllm. crass.) farctus superne gradatim in pileum expansus, basi nodosus saepius fasciculato-confluens, dense pulverulento-velutinus, subviscosulus, in vivo sordide albus.

Species *P. strigello* Brk. affinis, pileo glabro tamen recedens.

4. MARASMIUS BALANSAE SPEG. (n. sp.)

Diag. Mycena, chordalis; subcoespitosus; pileus membranaceus, convexus, laevis, fulvo-rufescens; stipes gracilis subcylindricus, fusco-rufescens, glaber, nitidulus, basi mycelio parco pallidulo pruinuloso radicans; lamellae pallidae, interstitiis non v. vix subventricosis, utrinque attenuatae.

Hab. Ad ramos ramentaue putrescentia in sylvis prope Guarapí, aut. 1884 (sub n. 4282).

Obs. Solitarius v. saepius 3-5-aggregato-subcoespitosus; pileus primo hemisphaericus margine subinvolutus (an in sicco tantum?), dein convexo-explanatus (1-2 cent. diam.), non umbonatus, laevis v. vix obsolete striato-subsulcatus, pulchre e fulvo v. rubro ferrugineus (rarissime in juventute subcroceus), margine integer, glaber, sed visu subvelutino-pulverulentus, ambitu vix pallidior, tenuiter membranaceus, subpellucidus (in sicco); lamellae polymacriae subrelaxatae, utrinque attenuatae, medio non v. vix subventricosae (1 mllm. lat.) tenuiter membranaceae, acie integrae, liberae, pileo pallidiores, interstitiis laevibus v. vix marginem versus obsolete transverse rugosis, concolores; stipes longiusculus gracilis (4-5 cent. long. \times 1 mllm. crass.) superne pallescenti-rufescens, deorsum fusco-fulvescens, glaber, sublaevis, subnitidus, 1 v. 2-tortus, basi non v. vix incrassatus, mycelio parco albo velutino-strigosulo expanso radicans; sporae non visae. Species elegans *M. fulvicipiti* Berk. nec non *M. ferrugineo* Berk. accedens, sed minus tenax stipiteque glabro recedens.

5. FOMES PSEUDOBOLETUS SPEG. — Fung. guar. pug. I, n. 30.

Hab. In detritis humosis in sylvis subvirgineis prope Guarapí, Apr. 1879 (sub n. 3362).

Obs. Species in *Sacc.*, Syll. fung. vol. VI, f. 62 generi *Polyporo* adscripto, revera tamen inter *Fomites mesopodes normales* militans.

6. FOMES MONACHUS SPEG. — l. c. n. 34.

Hab. Ad truncos vetustos in sylvis prope *Paraguari*, ann. 1880 (sine n.).

Obs. Haec species in *Sacc.*, l. c. generi *Polyporo* adscripta, inter *Fomites pleuropodes stipite non laccatos* militare videtur.

7. TRAMETES VERRUCOSO-HIRTUS SPEG. — l. c. n. 49.

Hab. Ad truncos decorticatos emortuos in sylvis prope *Guarapi*, Jul. 1879 (sub n. 3363).

Obs. Species in *Sacc.*, l. c. genere *Polyporo* adscripta, atque in *Speg. Fung. guar. pug. II*, n. 13 incaute sub *Polysticto* edita, ad *Trametes*, prope *T. hydnoide* (Schw.) FR., cujus statum juvenilem facillime sistit, sine dubio transferenda.

8. POLYSTICTUS HARIOTIANUS SPEG. — Fung. nonn. Parag. et Fueg. in *Revue Myc.* Apr. 89.

Hab. Ad truncos putrescentes in sylvis prope *Guarapi*, aut. 1884.

Obs. Pilei quandoque solitarii quandoque hinc inde dense caepitosi dimidiato flabellati (10-30 mllm. diam. trans. \times 15-30 mllm. diam. ant-post.) postice effuso-decurrentes v. cuneati ac stipite tuberculoso-diformi (5-10 mllm. long. \times 3-7 mllm. crass.) plus minusve evoluto, basi saepe effuso, suffulti, spongioso-molles, subelastici superne convexuli azoni pallescentes vel perdilute subrufescentes, squamis concoloribus majusculis saepius verticalibus, ad medium usque in 2-5 laciniis planis linearibus apice obtusissimis rufescentibusque plus minusve elongatis (2-3 mllm. long. \times 0,3 mllm. crass.) divisis, praecipue in parte postica vestiti, ambitu vix tuberculoso-sublamellosi, margine integri crasse obtuseque rotundati; contextus albus v. albo-subpallescens, superne in squamas solutus inferne in hymenium productus; hymenium cum pileo concretum planum v. convexulum album v. vix pallescens, zona marginali strictissima sterili subalveolata cinctum, e tubulis longiusculis (3-5 mllm. long.) dense constipatis, ore mediocri (300-800 μ diam.) integro v. rarius subsinuoso, intus extusque

albis, dissepimentis pro ratione tenuibus flaccidis integris compositum. Sporae non visae.

Species pulcherrima admodum coespitosa, pileis quandoque planis quandoque subungulato-convexis donata, *P. funali* FR. affinis sed satis distincta atque ob hymenium cum pileo continuum ad *Trametem* vergens.

9. POLYSTICTUS LUDENS SPEG. — *Sacc.*, l. c. f. 285.

Hab. Ad truncos decorticatos putrescentes prope *Yaguaron*, aut. 1877 (sub n. 2556).

10. POLYSTICTUS LUNDII FR. — *Sacc.*, l. c. f. 265.

Hab. Ad truncos in dumetis prope *Yaguaron*, aest. 1877 (sub n. 2704).

11. POLYSTICTUS UMBONATUS FR. — *Sacc.*, l. c. f. 266.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Yaguaron*, aest. 1877 et *Guarapi* aut. 1883 (sine n.).

Obs. Species pulchella sed polymorpha; adest forma mesopoda maxime mirabilis, pileis orbicularibus superne convexis, inferne hymeniiferis, poris mediocribus, dissepimentis acie sublaceris, stipite tuberculiformi centrali suffultis.

12. PORIA SUBARGENTEA SPEG. (n. sp.)

Diag. Repando-effusa, arcte crustaceo-adnata, rigidula, vix albo-marginata, hymenio cinereo-argenteo, poris minutis constipatis angulosis.

Hab. Ad cortices dejectos putrescentes in sylvis prope *Yaguaron* 23 Febr. 1884 (sub n. 4309).

Obs. Species pulchella forsan statum resupinato-effusum *Polysticti* cujusdam (*P. sectori* FR. v. *P. ludenti* SPEG. affinis) sistens. Late irregulariterque repando-effusa (5-10 cent. long. \times 2-8 cent. lat.) obtuse spurieque undulato-subrugosa, arctissime matri adnata, subcrustaceo-rigidula (an in sicco tantum?) centro subcrassiuscula (1 mill. crass.) ambitu attenuato effusa, margine sterili saepius strictissimo albo-subpulverulento (an puberulo in vivo?) cincta mycelio albo pruinuloso-arachnoideo tenuissimo per matricem laxè profundeque excurrente, sub hymenio non v. vix submembranacee evoluto; hymenio e cinereo argenteo, trito pal-

lide subcarneo-rufescente e poris brevibus (0,3-0,8 mill. alt.) saepius rectis rarius subdecurrentibus minutis (200-250 μ diam.) angulosis integris v. rarissime subdedaloideo-confluentibus, dissepimentis tenuibus acie integris obtusis cinereis intus pallide rufo-fulvescentibus efformato. Sporae non visae.

13. EXAGONIA SCUTIGERA FR. — *Speg. Fung. arg. pug. I, n. 54.*

Hab. Ad truncos dejectos putrescentes prope *Guarapí*, anno 1879 (sub n. 3401).

Obs. Specimina que mihi nunc adsunt habitu typum referunt sed scutum basale deficit; circa stipitem zona sterilis lata rufo-tabcina adest.

14. FAVOLUS TESSELLATUS MNTGN. — *Sacc., l. c. f. 393.*

Hab. In sylvis ad truncos putrescentes, 17 Jun. 1879 (sub n. 3339).

Obs. Pileus subdimidiato-orbiculatus (3-5 cent. \times 4-6 cent. diam.) convexus glaber plus minusve papulosus, centró carnosulus, ambitu tenuiter membranaceus margine acutus integer v. crenulato-sinuosulus, e rufescente fulvus (an in vivo albescens?); stipes lateralis, brevissimus carnosus-lentus pallescens glaber; alveoli rhomboideo-elongati in stipite decurrentes et ex illo subradiantes, postici majusculi (3-5 mllm. long. \times 1-1,5 mllm. diam.) gradatim ambitu minores, septis membranaceis pileo concoloribus acie non v. vix fimbriatis (2 mll. lat.). Sporae non visae.

15. FAVOLUS HISPIDULUS B. et C. — *Sacc., l. c. f. 398.*

Hab. Ad truncos putrescentes in sylvis prope *Guarapí*, ann. 1880 (sub n. 3342).

Obs. Specimina guaranítica varietatem *minorem* sistere videntur et cum typicis cubensibus comparata vix recedunt pileo conspicue minore (20-40 mllm. diam. trans. \times 15-25 mll. diam. ant.-post.), stipite graciliore ac sublongiore (5-10 mll. long. \times 3 mll. crass.). Species a praecedente hymenio in stipite effuso-descendente mox dignoscenda!

16. FAVOLUS BALANSAE SPEG. — *Fung. nonn. Parag. et Fueg. in Revue Myc. Apr. 89.*

Diag. Pleuropus; pileus membranaceus ex orbiculari reniformis applanatus, sordide alutaceus, laevis glaberrimus; pori rhom-

boideo-tetragoni, pro ratione minuti integri breves; stipes horizontalis crassus sordide albus striatus pulverulentus.

Hab. Ad truncos in sylvis prope *Guarapi*, ann. 1884 (sine n.).

Obs. Solitarius; pileus membranaceus (in sicco subpellucidus) ex orbiculari reniformis (10-11 cent. diam. trans. \times 7-8 cent. diam. ant.-post.) e convexulo applanatus, alutaceo-fuscus, obsolete radiatim subvirgatus, laevis glaber v. vix in parte postica pulverulento-viscidulus; caro tenuissima vix circa stipitem evoluta subtremelloidea pallescens; hymenium planissimum pileo concolor v. vix magis obscurum, porosum, poris posticis elongato-decurrentibus, mediis rhomboideis (1 mllm. diam.), periphaericis rotundis (0,8 mllm. diam.) dissepimentis tenuiter membranaceis strictis (0,5 mllm. lat.) acie non v. vix denticulatis donatum; stipes horizontalis e centro sinus postici pilei evolutus, antice compressulus, apice applanato-dilatatus, postice teres, pileo concolor (2 cent. long. \times 5 mllm. crass.) intus farctus albus pulverulento-velutinus. Sporae non visae. Species pulcherrima *F. brasiliensi* FR. nec non *F. tenuiculi* PAT. affinis, satis tamen distincta, a *F. specioso* SPEG. stipite pulverulento, pileo postice non marginato recedit.

Bresadolianus sp. obs. J. Adm. Hort. Bot. N. C.

X 17. FAVOLUS PRINCEPS B. et C. — *Sacc.*, l. c. f. 399.

Hab. Ad truncos dejectos putrescentes prope *Guarapi*, ann. 1880 (sub n. 3342).

Obs. Pileus e spathulato flabellatus, postice quandoque cuneatus (superne subcanaliculatus) quandoque e truncato reniformis (30-80 mllm. diam. trans. \times 20-50 mllm. diam. ant.-post.), convexulus v. applanatus, carnosolentus, vix ambitu submembranaceo-attenuatus ac repandulus, margine obtusus (incurvus) pallescenti-fulvus (an sordide albus in vivo?) primo pulverulento-furfuraceus, dein glabratus, laevis v. in speciminibus nonnullis junioribus obsolete denseque striatus margineque papulatus; caro alba compacta in parte postica praecipue evoluta (2-5 mllm. crass.); stipes horizontalis lateralis e tereti obconoideus, in exemplaribus pileo cuneato donatis fere nullus, in caeteris sat evolutus (10-15 mllm. long. \times 5-7 mllm. crass.) basi truncato-innatus, superne applanatus v. canaliculato-depressus, inferne rugoso-reticulatus, primo grosse denseque furfuraceo-squamulosus, dein pulverulentus, pileo concolor; hymenium inferum e poris rhomboideo-elongatis (3-5 mllm. long. \times 1-2 mllm. diam.) dissepimentis latiusculis (1-2 mllm. alt.) e membranaceo carnosulis lentis acie

integerrimis efformatis, postice in stipite decurrenti-evanescentibus, ambitu gradatim minoribus. Sporae non visae.

18. FAVOLUS FLACCIDUS FR. — *Sacc.*, l. c. f. 400.

Hab. Ad truncos emarcidos in sylvis prope *Guarapi*, 6 Apr. 1879 (sub n. 3336).

Obs. Specimina quae adsunt varietatem *tenuiorem* sistunt; a typo recedunt pileis subcoespitoso-imbricatis tenuissime membranaceis ac subpellucidis rigidulo-fragiles (an in sicco tantum?); ad *F. tenuissimum* LÉV. vergunt, et fere inter duo species intermedia.

19. FAVOLUS ELEGANTISSIMUS SPEG. (n. sp.)

Diag. Coespitosus; pileus flabellato-spathulatus integer tenuissime membranaceus pellucidus, glaber, laevis, postice longe cuneatus ac in stipite elongato crasso carnosolento albo glaberrimo superne laevi inferne reticulato productus; hymenium e poris a stipite radiantibus elongato-rhomboideis efformatum.

Hab. Ad truncos in sylvis prope *Guarapi*, aut. 1884 (sub n. 4283).

Obs. Pileus late spathulato-flabellatus (80-90 mllm. diam. ant.-post. \times 70-80 mllm. diam. trans.) integer v. vix repandulo-sinuatus, postice longe cuneatus numquam umbilicatus, tenuissimus, subpellucidus glaberrimus albus (in sicco e pallescente fulvo-rufescens); stipes horizontalis v. subadscendens crassus carnosolentus (in sicco sublignosus) extus intusque albus (in sicco pallescens) glaberrimus majusculus (15-20 mllm. long. \times 6-7 mllm. crass.) superne laevis inferne laxe rugoso-reticulatus; hymenium planum pileo concolor e poris, in stipite evanescenti-decurrentibus atque ab ipso radiantibus, posticis majoribus (5 mllm. long. \times 1-2 mllm. diam.), ambitu sensim minoribus, marginalibus minimis vix reticulato-evolutis, dissepimentis mediocribus (1 mllm. alt.) tenuiter membranaceis acie integerrimis divisis compositum. Sporae non visae.

Species pulcherrima *F. flaccido* FR. nec non. *F. tenuissimo* LÉV. affinis, ab utroque tamen satis recedens.

20. FAVOLUS VELUTIPES FR. — *Sacc.*, l. c. f. 398.

Hab. Ad truncos cariosos in sylvis prope *Guarapi*, Maj. 1879 (sub n. 3338).

Obs. Species pulchella margine dense minuteque laciniato-fimbriato (sed non ciliato) dignoscenda. Pilei flabellato-reniformes (80-90 mllm. diam. ant.-post. \times 60-70 mllm. diam. trans.) carnosoferruginei, stipite crassiusculo plus minusve evoluto (5-20 mllm. long. \times 6-10 mllm. crass.) dense squarruloso-hispido suffulti; hymenium decurrens, alveolis magnis, dissepimentis tenuibus, acie saepius denticulato-subfimbriatis.

21. FAVOLUS DAEDALEOIDES SPEG. (n. sp.)

Diag. Coespitosus, sessilis v. effuso-reflexus; pilei subimbricati flabellato-reniformes, carnosolenti, fusco-rufescentes, glaberrimi, laevissimi, poris mediocribus concoloribus, irregulariter polygonis saepe daedaloideo-sinuosis, stipite tuberculoso glabro non v. vix evoluto donati.

Hab. Ad truncos putrescentes in sylvis prope *Guarapi*, 6 Apr. 1878 (sub n. 3337).

Obs. Pilei quandoque substipitati orbiculares v. flabellati, postice rotundati v. truncati, quandoque sessiles coespitoso-imbricati subdimidiato-reflexi, ambitu plus minusve lobato-repandi (40-80 mllm. diam. trans. \times 30-60 mllm. diam. ant.-post.), rarius proli-feri, carnosolenti (in sicco subcoriacei), in vivo albi? (in sicco sordide fusco-rufescentes) laevissimi glaberrimi, margine obtusiusculi integri; caro compacta sublignosa, sordide ligneo-palles-cens (1-2 mllm. crass.) ad marginem usque fere producta; hyme-nium ex alveolis polygonis (1-15 mllm. diam.) constipatis, quan-doque subrotundato-integris, quandoque elongato-confluentibus subradiantibusque, quandoque subgyroso-daedaloideis, dissepi-mentis pro ratione breviusculis (0,5-1 mllm. alt.) subcrassiusculis rigido-lentis, postice saepius vix reticulatis ac rugoso-evolutis, caeterum bene evolutis, acie integris v. rarius subdenticulatis compositum; sporae non visae; stipes quandoque omnino deficiens, quandoque plus minusve tuberculoso-decurrens, coriaceus, glaber laevis, pileo concolor. Species pulchella *F. alutaceo* B. et MNTG. peraffinis, hymenium siccum *Polysticti umbonati* FR. in mente revocans.

22. FAVOLUS HARIOTI SPEG. (n. sp.) *aschii Harioti (Speg.) Speg.*

Diag. Mesopus; pileus convexo-umbilicatus membranaceus glaber laevis fulvus; stipes erectus teres sursum glaber pallescens,

deorsum pulverulento-velutinus rufescens; hymenium e poris rhomboideo-rotundatis mediocribus non decurrentibus efformatum.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapi*, Apr. 1870 (sine n.).

Obs. Solitarius; pileus orbicularis (10-20 mllm. diam.) convexulus centro umbilicatus, membranaceus, ambitu pellucidus, margine incurvulus integer e pallescente fulvus glaber laevis v. vix subpapulosus; stipes erectus teres (15-20 mllm. alt. \times 2,5-3 mllm. crass.) carnosus-lentus, superne glaber pallescens, inferne pallide rufescens velutino-pulverulentus, basi truncato-innatus, apice abrupte in pileo expansus; hymenium apicem stipitis attingens sed non decurrens, e centro subradians, alveolis parvulis (0,5 mllm. diam.) subrhomboideis, dissepimentis membranaceis tenuibus centro sat elevatis ambitu rugose evanescentibus, pileo vix pallidioribus, acie integris donatis. Sporae non visae.

Species *F. ciliari* MNTGN. affinis, sed margine non ciliato recedens.

23. FAVOLUS PARAGUAYENSIS SPEG. — *Sacc.*, l. c. f. 399.

Hab. In truncis caesis putrescentibus in sylvis prope *Guarapi*, Apr. 1870 (sub n. 3340).

Obs. Forma, quae adest, conspicue minor, ac nonnihil ad *F. hispidulum* B. et C. vergens.

24. THELEPHORA (*mesopus*) AURANTIACA PERS. — *Sacc.*, l. c. f. 526.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Pirayú*, Maj. 1877 (sub n. 2700).

Obs. Specimina sub hoc numero militantia ad formam typicam pertinent.

25. CRATERELLUS (*merisma*) SPARASSOIDES SPEG. — *Fung. guar.* pug. I, f. 36.

Hab. In truncis putrescentibus in sylva *Caaguazú*, Apr. 1876 (sub n. 2703).

Obs. Specimina, quae mihi nunc adsunt, quandoque e tuberculo communi fasciculato-coespitosa erecto-radiantia, quandoque effuso-reflexa dense imbricata, in vivo subcarnosa, in sicco subcartilaginea. Hymenium magis evolutum praecipue in parte basali ubi rugae valde evolutae acieque dense denticulato-lacerae, reti-

culatim connexae et tandem species ad *Polystictum* v. *Hirpicem* vergens. An melius *Polystictus*, e sectione *Prolificantium*?

26. STEREUM MYTILINUM FR. — *Sacc.*, l. c. f. 580.

Hab. Ad truncos decorticatos putrescentes in sylvis prope *Yaguaron*, aest. 1877 (sub n. 2555).

Obs. Specimina nonnihil majora ac magis crassa rigidaque; caeterum cum typo perfecte congruentia.

27. HYMENOCHAETE ELEGANTISSIMA SPEG. — *Sacc.*, l. c. f. 594.

Hab. Ad ramos dejectos putrescentes in dumetis prope *Yaguaron*, aest. 1877 (sub n. 2706).

Obs. Species vix ab *H. tenuissima* BERK. distincta. Cnfr *Fung. Puig.* f. 85.

28. HYMENOCHAETE BALANSAE SPEG. — *Fung. Puigg.* p. I, f. 84.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapi*, ann. 1880 (sub n. 3350).

Obs. Species imprudenter sub *Stereo damaecorni* Lk. in *Fung. guar.* p. I, f. 35 edita, sed ut l. c. longe abhorrens.

29. PTERULA HUMILIS SPEG. (n. sp.)

Diag. Insititia, coriacea, rigidula sparsa minuta arbusculaeformis, inferne saepius simplex denudataque, superne irregulariter ramosa, ramulis filiformibus subfasciculatis, albo-farinulosis.

Hab. Ad truncos putridos in sylvis prope *Guarapi*, 10 Apr. 1879 (sub n. 3348).

Obs. Stipites sparsi v. hinc inde fasciculato-subcoespitosi erecti (10-20 mllm. alt.), in parte tertia v. dimidia infera fusciduli in-crassatuli (0,2 mllm. crass.) atque saepius simplices, superne irregulariter ramosi, ramis adscendentibus v. subdivaricatis, hinc inde opposite v. subverticillato-ramulosis, ramululis longiusculis (2-3 mllm. long.) simplicibus capillaribus rigidulis integris acutis, pulvere albo tectis. Sporae globosae (4-5 μ diam.) hyalinae. Species pulchella, sed valde dubiosa; *P. tropicae* MNTGN. affinis; an ejusdem varietas minor?; an melius status conidicus *Xylariae* (sect. *Thamnomycetis*) cujusdam?

30. CLAVARIA GUARAPIENSIS SPEG. — *Fung. guar.* pug. I, f. 41.

no al. encontrado

Hab. Ad truncos decorticatos putrescentes in sylvis prope *Guarapi*, ann. 1881 (sub n. 2807).

Obs. Specimina, ut jam l. c. monui, parum evoluta et a typo apicibus ramululorum brevissime 2-3-mucronulato-lobatis, lobulis non v. vix divaricatis recedentia.

31. AURICULARIA LOBATA SOMMERF. — *Sacc.*, Syll. fung. vol. VI, f. 762.

Hab. Ad truncos excaesos putrescentes in sylvis prope *Guarapi*, ann. 1880 (sub n. 3330).

Obs. Pilei e cucullato explanati (25-35 mllm. diam. ant-pst. \times 30-50 mllm. diam. transv.) lateraliter coespitoso-confluentes, postice plus minusve decurrente-effusi, ambitu undulato-lobati, superne dense velutino-tomentosi v. subhispiduli, subsericeo-nitentes, fulvo-rufescentes, zonati, zonis latiusculis alteris pallidioribus alteris obscurioribus alternis numquam glabratis; hymenium livido-rufescens obsolete concentriceque zonatum, plicis paucis irregularibus in parte postica fere tantum evolutis donatum. Species pulcherrima a typo zonis glabratis deficientibus, colore obscuriore, hymenio parce plicato-rugoso satis recedens. An species distincta? Sporae non visae.

32. HIRNEOLA AURICULA-JUDAE (L.) BRK. — *Sacc.*, l. c. f. 766.

Hab. Ad truncos cariosos in sylvis prope *Yaguaron* et *Guarapi* per ann. 1877-1880 (sub n. 2701-3328).

33. HIRNEOLA POLYTRICHA MNTGN. — *Sacc.*, l. c. f. 766.

Hab. Ad truncos putrescentes in sylvis prope *Guarapi*, ann. 1880 (sub n. 3327).

34. RHIPIDONEMA SPONGIOSUM B. et C. — *Sacc.*, l. c. f. 689.

Hab. Ad truncos adhuc vivos praecipue *Palmarum* in uliginosis prope *Guarapi*, ann. 1881 (sub n. 4097).

GASTEROMYCETEA WILD.

35. SIMBLUM SPHAEROCEPHALUM SHTDL. — *Fisch.*, Untrs. z. verg. Ent. und Syst. d. Phalloideen.

Hab. In dumosis sabulosis circa *Asuncion*, aest. 1888 (leg. Cl. *Balzan*).

Obs. Specimina guaranítica formam typicam (*S. pilidiatum* ERNST) sistunt.

36. TYLOSTOMA BERTEROANUM LÉV.— *DTn.* in Sacc., Syll. Fung. Vol. VII, p.I, f. 63.

Hab. Vulgatus in campis prope *Guarapí* et *Paraguari*, per ann. 1877-84 (sub n. 2702, 3322, 3920, 4296).

37. GEASTER SPEGAZZINIANUS DTN. — *Speg.*, Fung. guar. pg. I, f. 44 (sub *G. saccato* FR.)

Hab. Inter folia dejecta putrescentia in sylvis prope *Guarapí*, ann. 1880 (sub n. 3325).

Obs. Specimina quae sub hoc numero militant ad typum magis vergunt sporis nonnihil majoribus (4-6,5 μ diam.), densius muriculatis.

38. LANOPILA GUARANITICA SPEG. (n. sp.)

Diag. Globosa, arrhiza; cortex papyraceus, tenuissimus, fuligineo-fulvescens, maculatus, frustulatim evanescens; gleba compacta, gossypino-pannosa olivascens; sporae ecaudatae, verrucosae fusco-olivaceae.

Hab. In campis cultis prope *Paraguari*, ann. 1877 (sub n. 2699).

Obs. Peridium globosum majusculum (50-60 mllm. diam.) arrhizum, inferne saepius depressum, cortice externo tenuissimo subcrustaceo cinerascente mox evanescente, interno glaberrimo, primo externo vestito dein denudato, tabacino maculis paucis vagis obscure fulvo-subpurpurascens hinc inde notato primo gleba arctiuscule adnato per aetatem areolatim deciduo vestitum; gleba gossypino-pannosa compacta elastica pulvere sporifero inspersa, diu persistens fulva v. tabacino-subolivascens; flocci densissime intricati ramosi, graciles (3-4 μ crass.) parcissime septati, laeves, pallide olivascens; sporae haud numerosae globosae (4-5 μ diam.) grosse excentrice 1-guttulatae, grosse laxaque subsquamoso-tuberculatae (in juventute cauda minutissima v. vix evoluta donatae dein) ecaudatae, fusco-olivaceae.

Species pulchra *L. argentinae* SPEG. peraffinis a qua tamen

peridio magis tenui ac fragili, gleba magis compacta pallidiore, sporis conspicue minoribus recedens.

39. BOVISTA DUBIOSA SPEG. — *DTn.*, in l. c. f. 104.

Hab. In campis arenosis prope *Ibitimi*, Jan. 1882 (sub n. 3320).

Obs. Specimina guaranítica a typo statura paululo majore (20-30 mllm. diam.) ac capillitio per aetatem intensius colorato, fere subtabacino, recedunt.

40. LYCOPERDON PSEUDO-GEMMATUM SPEG. — *DTn.*, l. c. f. 130.

Hab. In herbosis sylvosis prope *Guarapi*, Apr. 1879 (sub n. 3319).

Obs. Peridia magis parva (25-30 mllm. alt. \times 15-20 mllm. diam.) sporis majoribus (3 μ diam.) cauda ac granulationibus minutissimis fere inconspicuis.

MYXOMYCETEA WALLR.

41. FULIGO SEPTICA (L.) GML. — *Berl.*, in *Sacc.*, *Syll. fung.* vol. VII, p. I, f. 253.

Hab. Ad terram humosam inter folia et frustula, Dec. 1879 (sub n. 3317).

HYPODERMEAE DBY.

42. USTILAGO GUARANITICA SPEG. — *Fung. guar.* p. 1, n. 99.

Hab. Ad spiculas *Andropogonis* speciei cujusdam in pratis prope *Posta-cuè*, Mart. 1884 (sub n. 4298).

Obs. A typo vix recedit sporis nonnihil majoribus (10-16 μ diam.), episporio subtenuiore. An ab *U. ischaemi* Fuck. satis distincta?

43. USTILAGO JUNCICOLA SPEG. (n. sp.)

Diag. Sori atri; sporae ovoideae, compressae, episporio laevi sed subgibboso-undulato, opace fuligineae.

Hab. In ovariis *Junci Chamissonis* in herbosis vallis *Y-acanguazú* inter *Valenzuela* et *Guarapi*, 18 Jan. 1884 (sub n. 4323).

Obs. Ovaria infecta non v. vix tumefacta, tepalis induratis vix exerta, primo clausa, dein irregulariter dehiscentia, seminibus in glomerulis pulverulentis transformatis farcta; sori v. glomeruli primo compactiusculi dein pulverulenti, fusco-atrici; sporae e fronte ovatae ($10-12 \times 8-9 \mu$) e mutua pressione obtuse angulosae sepius undulato-gibbulosae, e latere compressae ($5-7 \mu$ crass.), episporio laevi crassiusculo tectae, primo pellucidae fuligineae, protoplasmate granuloso, dein opacae atrae. Species a caeteris *Ustilaginibus* in *juncaceis* vigentibus satis riteque, ut videtur, distincta.

44. *USTILAGO PANICI-MILIACEI* (PERS.) WINT. — *DTn.* in *Sacc.* Syll. fung. vol. VII, pt. II, f. 454.

Hab. Ad paniculas nondum evolutas *Graminaceae* cujusdam in herbosis prope *Posta-cuè*, Mrt. 1884 (sub n. 4299).

Obs. Sori totam paniculam implectentes, cortice subgrumoso pallescente, e matricis substantia tumefacta efformato tecti, pulverulenti, fuligineo-olivacei; sporae primo conglobatae, glomerulos globosos ($30-40 \mu$ diam.) cortice hyalino vestitos efficientes, mox liberae globoso-ovoideae ($9-10 \mu$) laeves, obscure fuligineae. An melius *Sorosporium*?

45. *ENTYLOMA NECTRIOIDE* SPEG. (n. sp.)

Diag. Epiphyllum sparsum; sori tumiduli orbiculares mediocres fulvo-aurei; sporae e globoso ellipsoideae maximae laeves tunica hyalina concentricè striata, endoplasmate aureo.

Hab. Ad folia *Leguminosae*? arboreae cujusdam in montanis inter *Peribebuy* et *Mbatobí*, Jun. 1883 (sub n. 3783).

Obs. Maculae indeterminatae amphigenae, inferne fusco-ferrugineae centro saepius pallidiores ($1-3$ mllm. diam.) superne acervulos circundantes fusco-virescentes; acervuli epiphylli saepius hinc inde densiuscule sparsi v. rarius subaggregati, rarissime confluentes, matrice plana (non v. vix subbullata) innato-insidentes, epidermide persistente tecti, orbiculares ($0,5-2$ mllm. diam.) tumiduli, in vivo rufo-aurei laeves, in sicco ruguloso-reticulati rufo-rubiginosi; sporae e globoso v. ovoideo ellipsoideae, in soris dense constipatae, saepius e mutua pressione obtusissime angulosae v. sinuosae, maximae ($50-80 \times 50 \mu$ diam.) episporio crassissimo (10μ crass.) hyalino dense concentricèque striato (an pluribus tunicis, granuli amylacei instar, composito?) tectae, endoplasmate grosse denseque granuloso-guttulato aurantiaco farctae. Species pulcher-

rima magnitudine sporarum, episporiique structura mox dignoscenda.

46. SOROSPORIUM ARGENTINUM SPEG. — Fung. arg. p. IV, n. 52.

Hab. Ad spiculas *Cenchri* speciei cujusdam (an *Penniseti*?) in pratis prope *Guarapi*, ann, 1884 (sine n.).

Obs. Glomeruli magnitudine ludentes (20-40 μ diam.), 5-50 spori; sporae globosae v. ovatae, obtuse angulosae (7-10 \times 8 μ) laeves, plus minusve intense olivaceae. A typo nonnihil recedit, an species distincta?

47. CEREBELLA ANDROPOGONIS CES. — *DTn.*, l. c. f. 523.

Hab. Ad spiculas *Andropogonis* speciei cujusdam in herbosis prope *Posta-cuè*, Mrt. 1884 (sub n. 4289).

Obs. Stromata ovarium, rarius paleas etiam, infestantia, primo parum turgida compactiuscula grosse transverse plicato-rugosa, dein tumida subtremelloidea (2-3 mllm. diam.) ovata irregulariter rugoso-grumosa vix superficialiter pulverulenta obscure badio-fuliginea. Sporae globosae v. obtuse angulosae quandoque solitariae (6-8 μ diam.), quandoque 2-6-conglobatae ac magnitudine variae, glomerulos parvulos irregulares (10-15 μ diam.) efficientes, episporio tenui laevi, fuligineae v. badio-subvinosae, primitus substantia gelatinosa diffluente incarceratae.

Genus summopere dubiosum (*Tuberculina* Sacc. affine?) et facile inter *Hyphomyceteas* recensendum. Specimina guaranitica a typo nonnihil deflectunt, sed descriptiones nimis mancae et ulterius inquirendum ne speciem alteram sistant!

48. CEREBELLA PASPALI CK. ET MSS. — *DTn.*, l. c. f. 524.

Hab. Ad spiculas *Paspali* speciei cujusdam in Valle *Y-acanguazù* vocata, 15 Mrt. 1883 (sub n. 4290).

Obs. Stromata ovaria implectentia, non v. vix turgentia, grosse transverse rugoso-plicata, in vivo subtremelloidea, in sicco contracta indurataque (1-1,5 mllm.) vix ad superficiem subpulverulenta, fusco-ferruginea. Sporae globosae v. obtuse angulosae, quandoque solitariae (5-6 μ diam.) quandoque 2-4 conglobatae, ac tandem magnitudine variae, glomerulos parvulos efficientes, episporio tenui laevi fuligineae. An tantum praecedentis varietas?

49. PUCCINIA CHLORIDIS SPEG. (n. sp.)

Diag. Hemi puccinia; uredosporae ovatae minutissime asperulae subhyalinae; teleutosporae obscure cinnamomeae ellipsoideae constrictulae, laeves non v. vix umbonatae, pedicello hyalino elongato.

Hab. Ad folia viva *Chloridis* speciei cujusdam in herbosis prope *Paraguari* Febr. 1884 (sub n. 4310 et 4312).

Obs. Maculae nullae v. totum folium vix pallescens; sori hypophylli densiuscule gregarii, uredosporici teleutosporicis commixti. Sori uredospori minutissimi (100-150 μ diam.) sublineares, epidermide lacerata cincti vix prominuli pallide flavescentes; uredosporae e globoso-ovatae (18-24 \times 12-20 μ) episporio crassiusculo hyalino laxe minutissimeque papillato, endoplasmate nubiloso e hyalino flavescente farctae non v. 1-guttulatae. Sori teleutosporici majores (300-600 μ diam.) ex orbiculari elliptici, pulvinulato-prominuli subcompactiusculi, intense atro-fuliginei; teleutosporae pulchre intenseque cinnamomeae ellipticae v. vix obovatae (23-24 \times 18-20 μ) medio non v. vix constrictae, episporio subcrassiusculo praecipue ad apicem ubi saepe parce umbonato, laevissimo, medio 1-septatae, parce constrictae, oculis saepius minute 1-guttulatis, infero non v. vix minore, pedicello cylindraceo longiusculo (50-100 \times 5 μ) deorsum attenuato, antice chlorinulo, caeterum hyalino suffultae; paraphyses non visae.

50. PUCCINIA GIBERTII SPEG. — Fung. guar. pug. I, f. 58. —
DTn., l. c. f. 653.

Hab. Ad folia viva *Hyptidis* speciei cujusdam in dumetis prope *Villa-Rica*, 13 Jan. 1884 (sub n. 3566).

Obs. Folium totum sordide subpurpurascens, vix hinc inde pallescens; acervuli hypophylli irregulariter sed dense sparsi minuti, tomento saepius velati, uredosporici pulverulenti aurantii, teleutosporiferis fusciscentibus subcompactibusque commixti; uredosporae melleae e globoso ovatae (20-24 \times 18-20 μ) episporio tenui, minute denseque papilluloso donatae, endoplasmate nubiloso v. grosse guttulato farctae; teleutosporae pallidissimae e hyalino fulvae obovatae v. subbiconicae (35-36 \times 18-20 μ), superne acutae v. subtruncatae, medio leniter constrictae episporio tenui laevissimo, pedicello gracili (40 \times 5 μ) subfumoso suffultae. *Aecidium tucumanense* SPEG. statum aecidiosporicum hujus speciei sine dubio ullo sistit, et tandem ad *auto-pucciniam* pertinet.

(1) - Possibilmente sia un errore del tipo, più che di acc. f. -
- ha un diametro di ~ 28-30 μ .

51. PUCCINIA TINCTORIA SPEG. — Fung. guar. p. I, n. 119.

Hab. Ad folia *Eupatorii tinctorii* in sylva *Naranjo* in montosis prope *Peribebuy*, Jul. 1883 (sub n. 4756).

Obs. Maculae nullae v. vix circa pulvinulos manifestae; acervuli teleutosporiferi tantum adsunt, compactiusculi fusco-fuliginei nubecula v. pruinula cinerascente saepius adpersi!

52. PUCCINIA MACROCEPHALA SPEG. (n. sp.)

Diag. Aecidia hypophylla minuta alba, aecidiosporis ovatis subhyalinis verrucosis; teleutosporae in acervulis atris epiphyllis congestae, subfusoideo-ellipsoideae, vix constrictae, fuligineo-atrae pedicello hyalino praelongo fultae.

Hab. Ad folia viva *Convolvulaceae* (foliis ellipsoideo-lanceolatis utrinque dense sericeo-villosis) speciei cujusdam in sylva subvirginea *Caaguazù*, Jan. 1882 (sub n. 3564 et 3573).

Obs. Pucciniopsis? (an auto-puccinia?); aecidia et teleutosporae tantum cognita ac saepe eodem tempore et folio vigentes. Maculae nullae. Aecidia hypophylla, rarissime etiam epiphylla, alba, erumpenti-urceolata, ore irregulariter lacero, pulvere albo farcta; aecidiosporae globulosae v. ovoideae ($25-30 \times 20-28 \mu$) episporio ubique crasso dense majuscule verrucoso-papillulato hyalino tectae, endoplasmate hyalino v. vix flavescente nubiloso farctae; pseudo-peridium membranaceum album, e cellulis loricatis, lanceolatis dense subradiatim rugosis ($30-40 \times 20-25 \mu$) hyalinis efformatum. Acervuli teleutosporiferi semper (?) epiphylli sparsi minuti ($250-600 \mu$ diam.) erumpentes tomento velati, subpulverulenti nigri; teleutosporae ovato-v. subclavato-fusoideae ($52-60 \times 24-28 \mu$) antice subacute grosseque umbonatae, medio vix constrictae, episporio ubique crasso ac laevissimo, loculis primo fuligineis pellucidis saepius 1-guttulatis, dein opacis pulchre atro-fuligineis (vix apice subpellucidis), infero non v. vix minore, pedicello terete, e latere compressulo, medio non v. vix incrassato ($120 \times 10 \mu$) apice fusciscente, caeterum hyalino fultae. Species perpulchra a *P. opulenta* SPEG. teleutosporis laevibus, a *P. ipomeae* Ck. uredosporis ignotis recedens.

53. PUCCINIA SPEGAZZINII DTn. — l. c. f. 704 (*P. australis* SPEG. (nec KÖRN.) in Fung. arg. p. II, n. 33).

Hab. Ad folia viva *Mikaniae* spec. cuj. in dumetis prope *Posta-cuè*, Mart. 1884 (sub n. 4293).

Obs. Micro-puccinia?; teleutosporae pallidissime e hyalino mel-
leae elongato-subclavulatae ($40 \times 15-16 \mu$) apice obtuse rotundatae
medio non v. vix constrictae, deorsum cuneatae, episporio tenui
laevissimo, pedicello cylindraceo ($30-35 \times 6 \mu$) hyalino fultae.

54. UROMYCES JUNCI (DSM.) TUL. — *DTn.*, l. c. f. 541.

Hab. Ad culmos languidos *Junci* cujusdam (e sect. *septatorum*)
in uliginosis prope *Posta-cuè*, 2 Mrt. 1884 (sub n. 4305).

Obs. Caules toti pallescentes, vix hinc inde irregulariter fusco-
maculati; acervuli punctiformes minutissimi ($100-150 \mu$ diam.) vix
erumpentes fusco-fuliginei, parum perspicui; teleutosporae obova-
tae v. ellipsoideae ($30-45 \times 20 \mu$) apice grosse umbonatae v. sub-
truncatae, episporio laevi antice valde incrassato, non v. minute
1-guttulatae, fulvo-rufae, pedicello crassiusculo subabbreviato
($50 \times 7-10 \mu$) e hyalino fulvescente suffultae non deciduae. Ure-
dosporae desunt.

55. UROMYCES? CYPERINUS SPEG. (n. sp.)

Diag. Acervuli amphigeni lineares ferruginei; teleutosporae?
ovatae v. globosae, episporio non v. vix antice incrassato laevi do-
natae, fulvae, pedicello gracili hyalino.

Hab. Ad folia viva *Cyperaceae* cujusdam in uliginosis prope
Guarapí, 26 Mart. 1884 (sub n. 4270).

Obs. Micro-uromyces? Maculae nullae v. totum folium palles-
cens vix hinc inde roseo-tinctum; acervuli amphigeni lineares
($0,5-2$ mllm. long. \times $0,5-0,4$ mllm. lat.) fusco-ferruginei, erum-
pentes compactiusculi; teleutosporae? globosae v. ovatae ($24-26 \times$
 $20-22 \mu$) episporio tenui vix quandoque antice modice incrassato,
laevissimo tectae, non v. 1-guttulatae, stipite gracili longiusculo
($30 \times 5 \mu$) fultae, non deciduae. An melius *Uredo*?

56. UROMYCES AERUGINOSUS SPEG. (n. sp.)

Diag. Maculae epiphyllae indeterminatae viridi-aerugineae,
acervuli hypophylli compacti gregarii, majore centrali caeteris
minutis circumdato; teleutosporae obovatae non v. vix umbonatae,
laeves, intense fuligineae, pedicello gracili longiusculo fultae.

Hab. Ad folia ignota (*Sapindaceae*?) in sylvis prope *Posta-cuè*
Apr. 1884 (sub n. 4267).

Obs. Micro-uromyces. Folium totum pallescens; maculae epi-
phyllae subdeterminatae, intense viridi-aeruginae, orbiculares

(2-4 mllm., diam.) centro impresso-umbilicatae; acervuli hypophylli (rarissime epiphylli minuti in macularum centro) totam partem oppositam macularum obtegentes, laxe gregarii, compositi, uno centrali majore a ceteris minutis coronato, crassiusculi, subhemisphaerici, compacti duriusculi intense atro-fuliginei; teleuto-sporae obovatae v. subglobosae (20-24 \times 16-20 μ) episporio subte-nui vix superne incrassato ac rarius in umbone parvulo atque obtuso producto laevissimo vestitae, intense fuligineae, stipite gracili elongato (50-60 \times 4 μ) deorsum attenuato apice subfulve-scente, caeterum hyalino fultae. Species plurimis notis et praeci-pue habitu ad *U. pervium* SPEG. vergens, sed, ut videtur, satis distincta.

57. COLEOSPORIUM PARAGUAYENSE SPEG. — Fung. guar. p. I, n. 127.

Hab. Ad folia viva *Compositae* cujusdam in sylvis prope *Guarapi*, Apr. 1884 (sub n. 4269).

Obs. Uredosporae ovatae v. ellipsoideae (20-24 \times 16-20 μ) dense verruculosae subhyalinae. *no mte*

58. COLEOSPORIUM? IGNOBILE SPEG. — Fung. guar. p. II, n. 33.

Hab. Ad folia viva plantae ignotae cujusdam (an *Cestri pube-scentis*?) in dumetis prope *Guarapi*, Aug. 1883 (sub n. 3947).

Obs. Uredosporae globosae v. subobovatae (16-18 \times 15-18 μ) verruculosae e hyalino flavescentes.

59. UREDO FICI CAST. — *DTn.*, l. c. f. 847.

Var. *Guarapiensis* SPEG. — Fung. guar. p. I, n. 133.

Hab. Ad folia viva *Fici ibapoy* in sylvis prope *Guarapi*, Maj. 1881 (sub n. 4122). *no mte*

60. UREDO FLOSSCLOSORUM A. ET S. — SPEG., Fung. guar. p. I, n. 135.

Hab. Ad folia viva *Compositae* cujusdam in dumetis prope *Posta-cuè*, 2 Mrt. 1884 (sub n. 4306). *no mte*

Obs. Maculae nullae v. vix manifestae fusciscentes; pulvinnil (350-400 μ) fuliginei, uredosporae ovatae v. subglobosae (26-30 \times 24-28 μ) fulvo-fuligineae, episporio subcrassiusculo laxe grosseque papillulato-spinoso, pedicello nullo.

61. UREDO INCOGNITA SPEG. — Fung. guar. p. II, n. 35.

Hab. Ad folia *Chloreae* speciei cujusdam in montanis *Cerro de Acahy* vocatis, Nov. 1883 (sub n. 4103).

X 62. UREDO CARNOSA SPEG. (n. sp.) —

Diag. Acervuli minuti hypophylli subolivacei carnosio-compacti; uredosporae globosae laeves fulvae paraphysatae.

Hab. Ad folia viva *Orchideae* cujusdam in paludosis sylvae *Caa-guazú*, 10 Apr. 1876 (sub n. 1286).

Obs. Maculae nullae v. totum folium leniter pallescens; acervuli hypophylli dense sparsi minuti orbiculares (300-600 μ diam.) erumpenti-subsuperficiales applanato-v. subcollapso-prominuli ex olivaceo fusco-umbrini, compacti carnosuli duriusculi fere sclerotiacei (an tantum in sicco?); uredosporae in centro pulvinulorum tantum evolutae, globosae v. vix ellipsoideae (20-24 \times 20 μ) fulvo-rufescentes, episporio crassiusculo laevi (an lenissime laxaque ruguloso?) tectae, pedicellis hyalinis brevibus gracilibusque (25-30 \times 5 μ) suffultae, paraphysibus subcoalescentibus, modice hyalino-stipitatis (an uredosporis abortivis?) cinctae. In margine pulvinulorum adest etiam saepius cingulum, e corpusculis obovato-difformibus, 20-30 cellularibus, cellulis subglobosis (6-7 μ) fusce centibus inferne coalitis superne facillime solutis secedentibusque compositis stipitibus hyalinis (40-45 \times 6-7 μ) suffultis efformatum; *tuberculina?*

Species pulchella notis internis atque externis perquam mirabilis et nomala!

X 63. UREDO HOLEMBERGII SPEG. — Fung. arg. p. IV, n. 9.

Hab. Ad folia viva *Rubiaceae* (an *Spermacocis?*) cujusdam in valle *Y-acan-guazú* vocata inter *Paraguari* et *Valenzuela*, 15 Mrt. 1884 (sub n. 4288).

Obs. Forma guaranitica a typo nonnihil deflectens; maculae indeterminatae pallescentes; sori hypophylli densiuscule hinc inde sparsi minuti (200-250 μ diam.) erumpentes sordide ochracei; uredosporae ovatae (25-30 \times 20-24 μ) hyalino-flavescentes, episporio subtenui, vix antice nonnihil incrassatulo, dense minuteque spinuloso-papilluloso tectae, 1-guttulatae, pedicello hyalino mox fatigante suffultae. An melius status uredosporus *U. spermacocis* (SCHW) THM. v. *P. spermacocis* B. et C.?

X 64. AECIDIUM CONVULVULINUM SPEG. (n. sp.)

Diag. Hypophyllum in maculis deciduis gregarium, albido-flavesçens; cellulae pseudoperidii obovatae grosse rugoso-papillo-sae; aecidiosporae subglobosae laeves, subhyalinae.

Hab. Ad folia viva *Convolvuli* speciei cujusdam in dumetis prope *Posta-cuè*, Febr. 1884 (sub n. 4316).

Obs. Maculae amphigenae orbiculares (2-4 mllm. diam.) superne fulvescenti-rufescentes, per aetatem circumscissae ac deciduae, folium dense perforatum v. erosum relinquentes; aecidia hypophylla in maculis 3-20-gregaria, dense constipata, ad epiphyllum non v. vix papuloso-prominula, cupulato-erumpentia, ore integro rotundo donata alba, pseudoperidio membranaceo e cellulis loricateis obovato-subpentagonis ($30-40 \times 20-24 \mu$) deorsum laevibus antice subrugosis grosseque papillato-asperis efformato involuta; aecidiosporae subglobosae e mutua pressione obtuse angulosae ($18-22 \times 18-20 \mu$) episporio hyalino ubique tenui laevissimo, protoplasmate nubiloso non v. 1-guttulato, leniter pallescente farctae.

Species ab *Aec. calystegiae* DSM. sporis laevibus, ab *Aec. opulento* SPEG. (*Aec. ipomeae* SPEG.) cellulis pseudoperidii conspicue magis asperis, protoplasmate sporarum subhyalino, ab *Aec. ipomeae* THM. maculis circumscissis ac deciduis recedens. An satis?

= *P. croceipes* B. et B.

65. AECIDIUM MINUS SPEG. — Fung. guar. p. I, n. 155. — *DTn.*
l. c. f. 620.

Hab. Ad folia viva *Convolvulaceae* cujusdam in sylva subvirginea *Caa-guazú*, Jan. 1882 (sub n. 3568 et 3572).

Obs. Species ab *Aec. opulento* (*Aec. ipomeae* SPEG. olim l. c.) summopere recedens; maculae nullae; pseudoperidia amphigena sparsa solitaria v. hinc inde 2-15-gregaria, minutissima (100-150 μ diam.) longiuscule exerta, ore integro rotundo, alba; aecidiosporae globoso-angulosae ($20-24 \times 16-20 \mu$) crasse tunicatae, episporio *dense sed minutissime striolato!*

66. AECIDIUM SOLANINUM SPEG. — Fung. arg. p. IV, n. 96.

Hab. Ad folia viva *Solani* speciei cujusdam in sylvis prope *Villa-Rica*, 10 Jan. 1882 (sub n. 3570).

Obs. Specimina guaranitica a typo nonnihil deflectunt; an species diversa? Maculae amphigenae orbiculares (3-10 mllm. diam.) subdeterminatae, superne ferrugineae, zona stricta pallescente cinctae, inferne (pube densa stellata velatae ac) parum visibiles fuscescentes; aecidia hypophylla, dense congesta concentricae

disposita, totam maculam occupantia v. in anulo marginali disposita, minuta (250-350 μ diam.) albo-pallescentia, erumpenti-exertula, ore fimbriato, pulvere pallescente repleta; membrana e cellulis tabularibus loricatis lanceolatis v. rhomboideis (30-40 \times 20-25 μ) crasse tunicatis ac dense rugoso-verruculosis tecta; aecidiosporae e globoso subellipsoideae (25-30 \times 20-25 μ) e mutua pressione saepe angulosae, episporio hyalino tenuissimo, papillis minutissimis fere imperspicuis densiuscule adperso vestitae, protoplasmate nubiloso e hyalino flavescente farctae.

67. AECIDIUM TALINI SPEG. (n. sp.)

Diag. Pseudoperidia maculicola epiphylla dense aggregata minuta orbiculatim disposita, albo-cremea, cellulis membranae minute papillosis, aecidiosporis globosis laevibus vix flavescensibus.

Hab. Ad folia viva *Talini patentis* in dumetis prope *Posta-cuè*, Febr. 1884 (sub n. 4314).

Obs. Maculae orbiculares determinatae (3-15 mllm. diam.) impressae e rufo v. fusco-arescentes, minute concentricae rugosae; aecidia primo utrinque papuloso-prominula, dein saepius ad epiphyllum erumpentia, numerosissima, densissime constipata, fere totam maculam obtegentia, concentricae disposita, minuta (180-220 μ diam.) albescentia ac longiuscule exerta, ore erosulo-dentato, membrana tenui e cellulis ellipsoideo-polygonis (20-25 \times 10-15 μ) crassiuscule tunicatis efformata tecta; aecidiosporae globosae v. obtuse angulosae (16-17 μ diam.) episporio tenui laevi protoplasmate nubiloso farctae.

68. AECIDIUM XANTHOXYLINUM SPEG. (n. sp.)

Diag. Maculae orbiculares amphigenae rufescentes subdeterminatae; pseudoperidia hypophylla concentricae dense gregariae minuta flavescens; aecidiosporae subglobosae laeves.

Hab. Ad folia viva *Xanthoxyli* (nec *Zygophylli* ut in schaedulis) speciei cujusdam in sylvis prope *Paraguari*, Oct. 1881 (sub n. 3565).

Obs. Maculae amphigenae orbiculares (5-6 mllm. diam.) subdeterminatae, superne pallescenti-rufescentes, inferne pallescentes, parum perspicuae; pseudoperidia hypophylla in maculis subconcentricae densissime constipata, modice prominulo-exerta, ex albo flavescens, ore irregulariter lacero minuto (250-300 μ diam.) membrana tenui, e cellulis loricatis late e rhomboideis polygonis

teste Speg. no. 3565

(25-30 \times 20-25 μ) grosse radiatim rugoso-undulatis hyalinis composita tecta; aecidiosporae globosae (16-18 \times 16-18 μ) e mutua pressione saepius obtuse angulosae, episporio hyalino tenui laevi, protoplasmate nubiloso flavescente farctae. Ab *Aec. xanthoxyli* Pck. aecidiosporis conspicue minoribus recedens.

X 69. AECIDIUM CALYCVLATUM SPEG. (n. sp.)

Diag. Maculae irregulares amphigenae indeterminatae fuscescentes; pseudoperidia hypophylla laxe gregaria, longiuscule exerta calyciformia pallescenti-alba, aecidiosporis globosis minutis laevibus farcta.

Hab. Ad folia arbusculae cujusdam ignotae (*Hameliae speciei?*) in sylva subvirginea *Caa-guazú*, Jan. 1882 (sub n. 3571).

Obs. Maculae irregulariter expansae (5-25 mllm. diam.) sinuosae saepe totum folium occupantes, amphigenae indeterminatae, superne fuscescentes, inferne parum manifestae rufescentes; pseudoperidia hypophylla in maculis sparsa v. laxissime subgregaria, erumpentia, longiuscule exerta ore elegantissime laciniato-crenato rotundo (250-300 μ diam.) alba, membrana tenui e cellulis subloricatis ac subrhomboideis (20-30 \times 20-60 μ) crassissime tunicatis, grosse radiatim flexuoso-rugosis efformata vestita; aecidiosporae globosae minutae (16-18 \times 14-16 μ) episporio hyalino tenui laevi, protoplasmate nubiloso flavescente farctae.

X 70. AECIDIUM OCHRACEUM SPEG. (n. sp.)

Diag. Maculae amphigenae indeterminatae pallescenti-ochraceae; pseudoperidia hypophylla dense circinata ochracea; aecidiosporae globosae laeves hyalinae.

Hab. Ad folia viva *Tabernemontanae* speciei cujusdam in dumetis prope *Paraguari*, Oct. 1881 (sub n. 3569).

Obs. Maculae amphigenae suborbiculares (5-15 mllm. diam.) superne subdeterminatae, inferne pallescentes v. flavidulae indeterminatae; pseudoperidia hypophylla quandoque irregulariter denseque constipata, saepe secus nervaturas excurrentia, quandoque in zona submarginali anulari disposita, modice erumpenti-prominula, subminuta (250-300 μ diam.) fulvella v. ochracea, ore rotundo subintegro, membrana tenui e cellulis loricate obtuse e rhomboideo exagonis (20-24 \times 20-24 μ) grosse flexuoso-rugosis efformata tecta; aecidiosporae globosae v. e mutua pressione vix angulosae (20-24 \times 20 μ) episporio subtenui laevi hyalino, proto-

plasmate nubiloso fulvello repletae. An status aecidiosporus *Pucciniae Cookei* DTN. ?; cum *Aec. ceraceo* B. et BR. non comparandum !

71. AECIDIUM ASCLEPIADINUM SPEG. (n. sp.)

Diag. Pseudoperidia totum hypophyllum petiola et caules obtegentia, dense constipata majuscula albida; aecidiosporae ellipticae v. globosae laeves subhyalinae.

Hab. Ad caules folia inflorescentias *Morreniae* speciei cujusdam in dumetis prope *Asuncion*, aest. 1877 (sub n. 2708).

Obs. Maculae nullae sed tota planta subcrispata contracta pallescens v. subpurpurascens; pseudoperidia caules petiola atque inflorescentias, sed praecipue folia, saepius plus minusve incrassato-tumefacta tota occupantia, irregulariter densissime constipata, pallescenti-alba, erumpentia parum exerta, ore rotundo integro majusculo (300-450 μ diam.) membrana e cellulis rhomboideo-elongatis (35-40 \times 18-24 μ) grosse radiatim flexuosis efformata vestita: aecidiosporae ellipticae v. globosae (20-22 \times 18-20 μ) e mutua pressione subangulosae, episporio subcrassiusculo laevi (an minutissime granuloso?) hyalino, protoplasmate pallescente nubiloso farctae.

72. TUBERCULINA TALINI SPEG. (n. sp.)

Diag. Maculae pallescenti-arescentes amphigenae indeterminatae orbiculares; acervuli amphigeni centrales densiuscule aggregati minuti sordide violaceo-purpurascens; sterigmata crassiuscula; sporulae subglobosae laeves dilute violascentes.

Hab. Ad folia viva *Talini patentis* in herbosis prope *Posta-cué* Febr. 1884 (sub n. 4315).

Obs. Maculae amphigenae orbiculares (2-10 mllm. diam.) dense per folium sparsae saepe confluendo difformes impressae ex arescenti-pallescentes; acervuli amphigeni in centro macularum plus minusve dense aggregati, minuti (250-400 μ diam.) erumpenti-pulvinulati, carnosuli, sordide violaceo-purpurascens; sterigmata cylindracea v. subfusiformia, antice libera obtuse acutata (20 \times 4-5 μ) dense constipata, postice coalescentia, pallide rufescenti-subviolacea; sporulae globosae v. ovatae minutae (7-9 μ) laevissimae e hyalino perdilute violascentes.

PYRENOMYCETEA.

73. PHYLLACTINIA SUFFULTA (*Reb.*) Sacc. — *Speg.*, Fung. guar. pug. I, n. 166.

Hab. Ad folia viva *Sebastianiae* speciei cujusdam in dumetis prope *Guarapí*, Apr. 1884 (sub n. 4272).

Obs. Specimina tantum sterilia!

74. MELIOLA GUARANITICA SPEG. — l. c., n. 177 et pug. II, n. 52.

Hab. Ad folia viva arboris cujusdam in sylvis prope *Guarapí*, Septemb. 1883 (sub n. 4043).

75. MELIOLA OBESULA SPEG. (n. sp.)

Diag. Plagulae orbiculares subcrustaceae, mycelio setulis destituto, ramulis rectiusculis oppositis, hyphopodiis alternis dimorfis, peritheciis nudis papillois; asci bispori; sporae ellipsoideae, 4-septatae, utrinque rotundatae, e latere compressae fuligineae.

Hab. Ad folia viva *Rutaceae* cujusdam in sylva *Caá-guasú*, Jan. 1882 (sub n. 3585).

Obs. Plagulae epiphyllae sparsae v. hinc inde laxissime subaggregatae minutae orbiculares (1-2 mllm. diam.) tenuissime subcrustaceae determinatae atrae opacae, centro perithecia pauca gerentes; mycelium e ramis radiatim productis rectiusculis (8-10 μ crass.) dense septatis, saepius opposite ramululosis, ramululis etiam rectis atris fere opacis dense septatis; hyphopodia alterna circa perithecia ampulluliformia, longiuscule attenuata-flexuosula, caetera obovata (20 \times 14 μ), pedicello 1-cellulari brevissimo, laevia v. vix obtuse angulosa; perithecia globosa (180-250 μ diam.) vix depresso-collabescentia, nuda atra opaca, papillosa, contextu parenchymatico grosse celluloso (cellulis 10 μ diam.) parum perspicuo, astoma, irregulariter dehiscentia; asci pauci ellipsoidei v. obovati (40-50 \times 30-35 μ) brevissime crasseque pedicellati apophysati, 2-sporei; sporae 4-septatae e fronte ellipsoideae (40-42 \times 20-22 μ), e latere cylindraeae (12 μ crass.), utrinque late rotundatae, loculis omnibus subaequalibus concoloribusque, fuligineae. Species *M. obesae* SPEG. peraffinis, sed hyphopodiis alternis, sporis majoribus compressis satis, ut videtur, recedens.

76. MELIOLA PLEBEJA SPEG. — Fung. puig. n. 238.

Hab. Ad folia viva *Solanaceae* cujusdam in dumetis sylvae *Caá-guasú*, Jan. 1882 (sub n. 3583).

Obs. Species antea sub *M. ludibunda* SPEG. edita. Plagulae effusae setulis destitutae, ramulis mycelialibus tortuosis, hyphopodiis alternis obovatis laevibus; perithecia globosa (120-150 μ diam.) papillosa, nuda; asci ellipsoidei (40-55 \times 22-30 μ), 3-4-spори; sporae subcylindratae (36-42 \times 14-15 μ) utrinque late rotundatae, e fronte rectae e latere leniter inaequilaterales.

77. MELIOLA LAEVIPODA SPEG. (n. sp.)

Diag. Plagulae minutae orbiculares confluentes, tenuiter subcrustatae atrae; mycelii ramuli recti opposito-ramosi, hyphopodiis oppositis densissimis centralibus ampulluliformibus, ceteris capitatis sessilibus laevibus, setulis paucis opacis rigidis apice integris; perithecia nuda papillosa; sporae 4-septatae, cylindratae, utrinque obtusae fuligineae.

Hab. Ad folia viva *Aspidospermae quebrachii*, in sylvis prope *Yaguaron*, Nov. 1882 (sub n. 3589).

Obs. Plagulae amphigenae atrae opacae non v. vix subpilosulae, irregulariter orbiculares (1-5 mllm diam.) saepe confluendo late effusae, matrici arctiuscule adnatae tenuiter subcrustatae; ramuli mycelii radiantes recti v. vix flexuosuli crassiusculi (9-10 μ crass.) atrii opaci, densiuscule opposite ramululosi, ramululis etiam rectis et opacis; hyphopodia densissima omnia opposita (rarissime hinc inde alterna), circa perithecia breviter ampulluliformia, caetera obovata laevia v. vix angulosa, brevissime 1-cellulari-pedicellata (20 \times 10-12 μ), subpellucida, grosse 1-guttulata, fuliginea; setulae praecipue circa perithecia evolutae, parcissimae, erectae rectae v. vix subflexuosae teretes, apice integrae acutiusculae (150-250 \times 10-12 μ) totae opacae rigidulae; perithecia in cent. macularum 3-8-gregaria, globulosa, in sicco saepius collapsa, glabra, verruculosa atra, contextu grosse parenchymatico (cellul. 10 μ diam.) parum perspicuo, atrofuligineo; asci ellipsoidei, 3-4-spори, mox diffluentes; sporae fuligineae, 4-septatae, ad septa parum constrictae subcylindratae utrinque late rotundatae (44-48 \times 16-20 μ) loculis non v. 1-guttulatis concoloribus, omnibus subaequalibus. Species *M. araliae* SPR. peraffinis, a qua hyphopodiis circa perithecia ampulluliformibus recedit; a *M. leptotricha* SPEG. setulis rigidis opacis parcissimis recedit.

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8. MELIOLA HARIOTI SPEG. (n. sp.)

Diag. Plagulae minutae effusae velutinae atrae; ramuli mycelii oppositi v. alterni, hyphopodiis oppositis densiusculis ampulluliformibus v. capitatis; setulae apice bis terve 2-4-fidae; perithecia papillosa, nuda; sporae triseptatae fuligineae, cylindraceo-ellipsoideae, utrinque obtusae, loculis concoloribus, medio paululo majore.

Hab. Ad folia viva *Bignoniaceae*? (an *Leguminosae*?) cujusdam in dumetis prope *Asuncion*, Jan. 1874 (sub n. 1291).

Obs. Plagulae amphigenae atrae subcrustaceo-pelliculosae centro praecipue, velutinae subindeterminatae, primo orbiculares (1-3 mllm. diam.) dein confluyendo effusae; ramuli mycelii flexuosuli crassiusculi (8-10 μ crass.) opaci, subopposite ramulosi, ramulis rectiusculi, hyphopodiis circa perithecia breviter ampulluliformibus (15 \times 8 μ), caeteris obovato-subcapitatis brevissime 1-cellulari-pedicellatis (18-20 \times 20 μ) laevibus non v. vix angulosis, densiusculis; setulae erectae rectae teretes (150-300 \times 10-12 μ) atrae opacae apice abrupte 2-5-fidae; laciniae quandoque dicothomae apicibus extimis plus minusve evolutis et acutis subpellucidis; perithecia in plagularum centro saepius laxe gregaria, setulis mycelialibus velata, atra, globosa (150-250 μ diam.) non v. vix collabescencia, nuda papillulosa, subcoriacea, contextu grosse parenchymatico (cellulis 10-12 μ diam.) parum perspicuo, subopace fuligineo; asci ellipsoidei (50 \times 30 μ) 2-spori brevissime crasseque pedicellati mox diffluentes; sporae subopace fuligineae e fronte cylindraceae v. lenissime subellipsoideae, e latere nonnihil compressulae v. subinaequilaterales, 4-septatae, ad septa subconstrictulae, utrinque obtuse rotundatae, loculo medio caeteris paululo majore. Species pulchella a *M. furcata* LÉV. laciniis setularum brevioribus, a *M. Weigheltii* KZE. et *M. bidentatae* CKE., laciniis longioribus evolutis ac saepius brevissime dicothomis recedens.

9. MELIOLA SAPINDACEARUM SPEG. (n. sp.)

Diag. Plagulae atrae subnubiloso-pelliculosae saepius epiphyllae; ramuli mycelii opposite ramulosi, hyphopodiis densis oppositis tuberculatis, setulis apice saepius 2-3-laciniatis, laciniis integris v. denticulatis ornati; perithecia nuda papillosa; sporae 4-septatae, ellipsoideae, utrinque obtusae, fuligineae.

Hab. Ad folia viva *Sapindaceae* cujusdam in sylvae *Caá-guasú*, Jan. 1882 (sub n. 3600).

Obs. Plagulae saepius epiphyllae sparsae v. hinc inde densiuscule gregariae, primo suborbiculares fere indeterminatae, dein confluyendo effusae difformes, tenuissimae, nubiloso-araneosae vix pelliculosae, matriçi arcte adnatae atrae, fere glabrae; rami mycelii e centro radiantes rectiusculi atrii opaci (8-10 μ crass.), ramululos saepius oppositos gerentes; hyphopodia densa opposita, quandoque (rarius) ampulluliformia gracilia, quandoque (saepissime) obovato-capitata, 1-cellulari-stipitata, capitulo 1- (rarius 2-) cellulari, grosse verrucoso-gibbosa (20 \times 20 μ); setulae parcissimae hinc inde sparsae erectae rectae opacae (100-250 \times 10 μ) apice quandoque obtusae integrae, quandoque (saepius) 2-3-fidae, laciniis omnibus v. 2 tantum elongatis, subpatulis integris rotundatis truncatis v. vix subbidentatis; perithecia hinc inde sparsa globosa (120-160 μ diam.) atra opaca, collabescentia, nuda verruculosa; ascimox diffluentes; sporae obscure fuligineae cylindraceae, non v. lenissime subellipsoideae (38-42 \times 16-18 μ), 4-septatae, ad septa vix constrictae, utrinque obtuse rotundatae oculis omnibus aequilongis v. centrali nonnihil majore. Species *M. bidentatae* CKE. et *M. Weigheltii* KZE. peraffinis, sed hyphopodiis oppositis grosse tuberculatis ac apicibus setularum satis abhorrens.

80. MELIOLA BIDENTATA CKE.—*Speg.*, Fung. guar., pug. II, n. 54.

Hab. Ad folia viva *Bignoniaceae* cujusdam in dumetis prope *Villarica* et *Guarapi* per ann. 1882-83 (sub n. 3580-4007).

Obs. Plagulae quandoque orbiculari-pelliculosae, quandoque subeffuso-nubilosae; mycelii rami oppositi-v. alterni-ramosi, hyphopodiis obovatis alternis laevibus; setulae apice 2-5-dentatae, denticulis integris v. rarissime bidentatis; perithecia nuda papillosa, setulis nonnullis subpellucidis apice integris basi cincta, sporae cylindraceae (38-40 \times 12-16 μ) 4-septatae, ad septa constrictulae, oculis aequilatis, concoloribus, subopace fuligineae.

81. DIMEROSPORIUM TROPICALE SPEG. — Fung. guar. pug. III, n. 43.

Hab. Ad folia viva *Meliaceae* cujusdam in sylvis prope *Yacanguasú*, 18 Jan. 1884 (sub n. 4761).

82. DIMEROSPORIUM? OVOIDEUM SPEG. (n. sp.)

Diag. Plagulae effusae tenuissimae subvelutinae olivascentes; perithecia ovato-sublageneformia, ostiolata, nuda, laevia; asci ob-

ovato-subclavati aparaphysati; sporae fusoidae, medio 1-septatae, subconstrictae hyalinae.

Hab. Ad folia viva *Graminaceae* cujusdam in sylva *Caá-guazú*, Jan. 1882 (sub n. 3454).

Obs. Plagulae saepius hypophyllae latissime effusae, indeterminatae, saepe totum folium obtegentes, araneoso-nubilosae, tenuissimae matrici arcte adnatae ex atro subolivascens, laxissime pubescenti-velutinae; ramuli mycelice tenues (5-7 μ crass.) dense septulati, fere subarticulati pellucidi olivacei, dense irregulariter-que ramululosi ac flexuoso-intertexti; setulae hinc inde e ramulis mycelicis adsurgentes erectae, non v. vix flexuosae, teretes (150-250 \times 5-7 μ) pellucidae septatae, laeves, apice integrae obtusiusculae; perithecia sparsa, setulis saepius abscondita v. velata parvula ex ovato sublageniformia (100-150 μ alt. \times 50-120 μ diam.) minute ostiolata (?) olivacea glabra laevia, tenuiter membranacea, contextu parenchymatico (cellulis 6-10 μ diam.); asci obovato-subclavulati (50-60 \times 16-20 μ) apice rotundoti deorsum cuneati, tunica crassissima praecipue in parte antica, vestiti, aparaphysati, octospori; sporae 2-3-stichae ellipsoideo-subfusoidae v. subbiconicae, medio 1-septatae, non v. leniter constrictae, utrinque obtusiuscule subacutatae, rectae v. leniter inaequilaterales (20-26 \times 7-8 μ) hyalinae (an per aetatem chlorinae?).

83. DIMEROSPORIUM MICROSPORUM SPEG. ? — Fung. puig. n. 220.

Hab. Ad folia viva plantae dicotyledoneae cujusdam in dumetis prope *Y-acan-guazú* 18 Jan. 1882 (sub n. 4760).

Obs. Specimina sterilia sed habitu cum typo perfecte congruentia.

84. DIMEROSPORIUM SUPERBUM SPEG. (n. sp.)

Diag. Plagulae amphigenae nubilosae atrae, mycelio tenuissimo glabro, peritheciis minutissimis globoso-hemisphaericis nudis donatae; asci cylindranei paraphysati; sporae clavulatae, 1-septatae, hyalinae.

Hab. Ad folia viva *Crotonis*? (dense velutino-pannosa argentea) in sylva *Caá-guazú*, Jan. 1882 (sub n. 3590).

Obs. Plagulae amphigenae v. saepius epiphyllae, et pube stellata velatae et tandem parum perspicuae, primo vage suborbiculares, dein confluyendo effusae ac totum folium occupantes, atro-subcine-rascentes; mycelium ex hyphis tenuissimis (2-3 μ crass.) irregula-

riter ramosis late vageve reptantibus, laxe intertextis epidermidi ac pilis adnato-repentibus efformatum, setulis hyphopodiisque destitutum; perithecia hinc inde laxe gregaria saepius concentrice v. orbiculatim disposita, globoso-depressa minuta (150-200 μ diam.), aterrima opaca laevissima astoma, vix basi hyphis nonnullis mycelialibus adnato-insidentia, tunica grosse celluloso-parenchymatica fuliginea, primo pellucida dein opaca vestita, in juventute dura, sclerotiacea, pulpa alba e cellulis hyalinis globoso-polygonis crassissime tunicatis efformata farcta, dein molliuscula subfragilia ascigera; asci cylindranei (70-80 \times 12-14 μ) antice rotundati crassiusculeque tunicati, deorsum attenuato-cuneati, in pedicello brevi crassoque producti, octospori, paraphysibus filiformibus, plus minusve densis sublongioribus obvallati; sporae oblique monostichae, obovato-clavulatae (16-18 \times 7-10 μ) utrinque subacutatae, medio septatae parceque constrictae, loculo supero subgloboso (8-9 \times 8-10 μ) infero conoideo brevior (7-8 \times 6-7 μ) hyalinae, per aetatem chlorinae (an demum 3-septatae ac olivascentes?). Species vere mirabilis statum ascophorum *Sclerotii erysiphoidis* SPEG. sistens.

85. DIMEROSPORIUM PUIGGARI SPEG. — Fung. puig. n. 217.

Hab. Ad folia viva *Compositae* (*Eupatorii?*) cujusdam in sylva *Caá-guazú*, Jan. 1882 (sub n. 3582).

Obs. Specimina guaranítica a typo nonnihil deflectunt:

Maculae nullae v. vix pallescentes indeterminatae amphigenae; plagulae amphigenae v. saepius epiphyllae minutae (1-3 mllm. diam.) irregulariter suborbiculares, sparsae v. hinc inde densiuscule gregariae ac subconfluentes atrae; mycelium e centro plagularum radians ex hyphis gracilibus (4-5 μ crass.) subrectiusculis, olivaceis pellucidis laevibus, parce septulatis, laxissimae ramululoso-intricatis, hyphopodiis setulisque destitutis efformatum; perithecia centro plagularum insidentia, solitaria v. 2-12-gregaria, globosa (60-90 μ diam.) atra glabra laevia, *minute ostiolata*, basi hyphis paucis radiantibus suffulta, tunica tenui membranacea minute anguloso-parenchymatica fuliginea vestita; asci ovato-elongati v. obclavulati (30-35 \times 10 μ) antice obtuse rotundati postice abrupte coarctati ac in pedicello breviusculo producti, aparaphysati, octospori; sporae distichae v. subtristichae, elongato-ellipsoideae non v. subclavulatae (10-12 \times 3-3,5 μ) utrinque obtusiusculae, loculo supero (6-7 μ long.) infero (4-5 μ long.) nonnihil longiore hyalinae, medio 1-septato-constrictulae, loculis per aetatem etiam

saepius diblastibus (an tandem 3-septatae ac chlorinae?). Adsunt saepe perithecia spermatiofora ab ascigeris vix magnitudine minore recedentia, sporulis ovatis v. late ellipsoideis ($3-5 \times 2,5-3 \mu$) non v. 1-guttulatis hyalinis farcta.

86. HYPOXYLON ALBO-STIGMATOSUM SPEG. — Fung guar. p. I, n. 197.

Hab. Ad ramos dejectos emortuos in sylvis prope *Guarapi*, Oct. 1878 (sub n. 2781).

87. HYPOXYLON GUARAPIENSE SPEG. — l. c. n. 199.

Hab. Ad ligna emortua putrescentia in sylvis prope *Yaguaron* et *Guarapi*, hiem. 1877 et 1881 (sub n. 2761 et sine n.).

88. XYLARIA DIGITATA (LN.) GREV. — *Sacc.*, Syll. Fung. v. I, t. 339.

Hab. Ad truncos cariosos putrescentes prope *Posta-cué*, per ann. 1881 (sub n. 4307).

Obs. Specimina guaranitica formam macilentam parvulam sistunt; asci cylindranei, pedicellati (p. sp. $90 \times 6-9 \mu$ = ped. $90 \times 3 \mu$) paraphysati; sporae naviculares utrinque acutiuscule obtusatae ($14-15 \times 4-5 \mu$) fuligineae. An species aliena?

89. XYLARIA SUBTERRANEA SCHW. — *Sacc.*, l. c. f. 338.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapi*, per ann. 1883-84 (sub n. 3774, 3904, 4318).

Obs. Specimina, quae jam antea in pug. I. n. 213, sub *X. digitata* (LN.) GREV. var. *torulosa* Jung. edita, cum illis a Cl. Ellis in N. Am. Fungis editis, habitu externo perfecte congruunt, vix statura paululo minore ac clavulis simplicibus recedunt; asci cylindranei longiuscule pedicellati (p. sp. $50-70 \times 4-5 \mu$ = ped. $40-90 \times 2 \mu$) paraphysati; sporae monostichae ($7-10 \times 2,5-3 \mu$) naviculares utrinque obtusae grosse pluriguttulatae fuligineae.

90. XYLARIA GRAMMICA MNTGN. — *Speg.*, l. c. n. 211.

Hab. Ad truncos vetustos cariosos in sylva *Caá-guazú*, 1 Apr. 1876 (sub n. 2709).

91. KRETYMARIA PUIGGARII (SPEG.) SACC. — l. c., vol. II, add. f. XXIX.

Hab. Ad ramos et truncos putrescentes in sylvis prope *Callepoi*, 20 Sept. 1883 (sub n. 3991).

92. ENCHNOSPHERIA SPINULOSA SPEG. — Fung. puig. n. 278.

Hab. Ad folia viva plantae cujusdam (*Laurineae?*) socia *Haplapyrenula acervata* MUELL., in sylva *Caá-guazú*, Jan. 1882 (sub n. 3603).

Obs. In speciminibus guaraniticis asci (70-80 \times 10-12 μ) et sporae (30-38 \times 5) nonnihil graciliores.

93. NECTRIA GUARAPIENSIS SPEG. — Fung. guar. pug. I, n. 235.

Hab. Ad cortices ramorum putrescentium in sylvis prope *Paraguari*, Oct. 1883 (sub n. 4073).

94. HYPOCREA PEZIZAEFORMIS SPEG. — Fung. guar. p. II, n. 92.

Hab. Ad cortices ac truncos in sylvis prope *Guarapi*, 28 Mart. 1880 (sub n. 2778).

95. CALONECTRIA GUARANITICA SPEG. — Fung. guar. pug. I, n. 247.

Hab. Ad folia viva *Bambusaceae* cujusdam in sylva *Naranjo* prope *Peribebuy*, 24 Máj. 1883 (sub n. 4757).

Obs. Specimina immatura squarruloso-sulfurea. Sub n. 3584 specimina pulcherrima *Calonectria leucorrhodinae* in *Meliola* quadam parasitantia militant.

96. BROOMELLA PHYLLOCHARIS SPEG. (n. sp.)

Diag. Perithecia in macula epiphylla stromatica discoidea alborosea dense circinantia subimmersa, minutissima; asci fusoides paraphysati; sporae subclavulatae triseptatae hyalinae.

Hab. Ad folia viva plantae indeterminatae cujusdam in dumetis prope *Guarapi*, Nov. 1883 (sub n. 4024).

Obs. Maculae epiphyllae orbiculares (2-2,5 mllm. diam.) determinatae, stromaticae innato-subsuperficiales, glabrae minutissime ruguloso-subsquarrulosae, margine magis prominulae roseae v. carneaе, centro depressulae sordide albae, contextu indistincto albo (gonidiis destituto), granulis siliceis internis hyalinis difformibus donatae; perithecia in margine macularum tantum evoluta, cingulum fere efficientia, non v. vix prominula globosa minutissima (80-100 μ diam.) papillulato-ostiolata, stromate immersa, carneo-fulvella, contextu tenuissimo membranaceo indistincto, e hya-

lino fulvello; asci cylindraceo-fusoidei, apice truncati, tunica incrassatula bifoveolataque, deorsum modice attenuato-pedicellati ($50-55 \times 5-6 \mu$) octospori, paraphysibus parcis crassiusculis guttulis immixtis; sporae e cylindraceo v. fusoideo-clavulatae, utrinque attenuatae sed obtusae ($12 \times 2,5-3 \mu$) non v. vix inaequilaterales, medio 1-septatae, non v. vix constrictae, loculis aequilongis, supero nonnihil crassiore, saepius di-tri-blastibus (an demum 3-5-septatae?), laeves, hyalinae.

Species nonnullis notis lichenina, sed gonidiis defectu certe fungis adscribenda!

97. BROOMELLA MUNKII SPEG. — Fung. guar. p. I, n. 249 et pug. II, n. 96.

Hab. Ad folia viva *Bignoniaceae* cujusdam vulgata prope *Paraguari*, per ann. 1881-84 (sub n. 2722 et 4273).

98. BALANSIA CLAVICEPS SPEG. — Fung. guar. p. I, n. 253.

Hab. Ad culmos vivos *Chloridis* speciei cujusdam prope *Guarapi*, Febr. 1884 (sub n. 4320).

Obs. Specimina nova quae nunc extant a typo satis recedunt. Stromata (50-100 mllm. long.) internodia vix tumefacta culmorum occupantia, cortice innata crustaceo-subsuperficialia, substantia interna culmi vix modificata, atra; clavulae v. noduli peritheciigeri superficiales, superne hemispharico-depressi, inferne abruptiuscule coarctati (1-5 mllm. diam.) sessiles v. vix subpedicellati, atrii, opaci, laeves, confertiusculi; perithecia (loculi?) obovati minuti (230μ alt. $\times 130 \mu$ diam.); asci cylindracei apice subglandiformes ($190 \times 6 \mu$) aparaphysati; sporae ascorum longitudine tenues ($0,7 - 1 \mu$ crass.), hyalinae, per aetatem in articulis cylindraceis (7-10 μ long.) secedentes. Genus stromatis substantia ac peritheciolorum structura quam maxime *Dothideaceis* accedens, ascorum fabrica tamen recedens. Nunc ex America Boreali species altera cognita, sub *Clavicipite* edita; an huc *Ophiodotis vorax* (B. & Br.) var. *piluliformis* (B. & Br.) etiam?

99. EPICHLOE? NIGRICANS SPEG. — Fung. guar. p. I, n. 255.

Hab. Ad culmos vivos *Graminacearum* prope *Guarapi*, Febr. 1884 (sub n. 4321).

Obs. Specimina quae sub hoc numero militant, a typo ascis con-

spicue longioribus (150-160 \times 6 μ), sporidiisque dense guttulatis recedunt. An huc *Ophiodotis vorax* (B. & Br.) Sacc.?

100. SCIRRHELLA CURVISPORA SPEG. — Fung. guar. p. I, n. 258.

Hab. Ad folia viva *Bambusaceae* cujusdam in sylva *Naranjo* in montanis prope *Peribebuy*, 24 Mart. 1883 (sub n. 4757).

101. PHYLLACHORA GRACILIS SPEG. — Fung. guar. p. II, n. 102.

Hab. Ad folia viva *Bambusaceae* cujusdam in montanis prope *Peribebuy*, 1 Nov. 1883 (sub n. 4049).

102. PHYLLACHORA LAEVIUSCULA SPEG. (n. sp.)

Diag. Maculae pallescentes, stromata superne discoidea applanata inferne parum manifesta granulosa cingentes; asci cylindranei breviusculi aparaphysati; sporae ellipsoideae laeves hyalinae.

Hab. Ad folia viva *Rubiaceae* cujusdam in montanis prope *Peribebuy* circa *Mbatobi*, 24 Maj. 1883 (sub n. 3808).

Obs. Stromata amphigena densiuscule sparsa, ad epiphyllum innato-superficialia discoidea (1 mllm. diam.) applanata atra opaca areola strictissima pallescenti-subrufuscente v. subargentea cincta, ad hypophyllum plus minusve manifesta, loculis (uno centrali caeteris circumdato) obsolete granuloso-perspicuis, epidermide tecta non v. vix nigrificata, areola latiuscula irregulariter orbiculari pallescente indeterminata cincta, 5-12-locularia; loculi minuti globoso-hemisphaerici, ad hypophyllum ostiolati; asci cylindranei antice obtuse rotundati subcrassiuscule tunicati, inferne brevissime cuneato stipitati (45-50 \times 12 μ) aparaphysati octospori; sporae oblique distichae ellipsoideae (12 \times 6 μ) utrinque obtuse rotundatae, non v. vix subinaequilaterales, hyalinae, eguttulatae. Stromata per aetatem saepe decidua ac folium orbiculatim perforatum relinquentia.

Phyllum Quebrachii (Speg.) Speg.
103. PHYLLACHORA QUEBRACHII SPEG. (n. sp.)

Diag. Stromata innata minutissima, 1-2 locularia; asci cylindraneo-fusoidei apice truncati paraphysati; sporae ellipsoideae.

Hab. Ad folia viva *Aspidospermae quebrachii* in sylvis prope *Paraguari*, 26 Mart. 1882 (sub n. 3612).

Obs. Maculae nullae; stromata parenchymate innata, utrinque v. superficiem epiphylli tantum attingentia, non v. vix prominula, punctiformia, minuta (0,3-0,5 mllm. diam.) atra laevia opaca mo-

dice nitentia, 1-v. 3-locularia, loculo unico saepius fertili (150-200 μ diam.) caeteris abortivis donata, contextu atro opaco indistincto; asci primo cylindraceo-fusoidei, antice subtruncato-rotundati, postice modice attenuato-pedicellati (80-90 \times 10-12 μ) per aetatem saepius saccato-clavati (50 \times 20 μ), paraphysibus parcis apice saepe ramulosis obvallati, octospori; sporae oblique monostichae, rarius alterno-distichae, ellipsoideae, utrinque obtusiuscule rotundatae (12-14 \times 6-7 μ) non v. vix subinaequilaterales, primo tunica mucosa tenuissima vestitae, dein nudae laeves hyalinae. Species *Ph. inclusae* (B. et C.) Sacc. ut videtur affinis.

104. PHYLLACHORA PULCHRA SPEG. — Fung. guar. p. I, n. 276.

Hab. Ad folia viva *Sapotaceae* speciei cujusdam, in dumetis *Cerro pelado* prope *Paraguari*, Oct. 1881 (sub n. 3357).

105. PHYLLACHORA? SPHAEROSPERMA WINT. — Hedw. 1884, p. 170.

Hab. Ad folia viva *Cenchri echinati* in graminosis prope *Guarapi*, 9 Apr. 1884 (sub n. 4280).

Obs. Sporae globosae (10 μ diam.) laeves per aetatem fumoso-chlorinae.

106. PHYLLACHORA SUBCIRCINANS SPEG. (n. sp.)

Diag. Stromata epiphylla gregaria maculis stromaticis fuscis insidentia minuta parce prominula subcircinanta subnitentia paucilocularia; asci cylindracei aparaphysati; sporae ellipsoideae utrinque subtruncato-rotundatae.

Hab. Ad folia viva *Myrtaceae* (*Feijoa*?) speciei cujusdam in dumetis sylvae *Caá-guazú*, Jan 1882 (sub n. 3595).

Obs. Stromata epiphylla hinc inde 5-20-aggregata, macula stromatica orbiculari (4-6 mllm. diam.) subdeterminata atra v. vix subpurpurascete insidentia, innata, minuta (0,5 mllm. diam.) vix convexo-prominula, rarius confluentia, 1-3-locularia, loculis 1-2 saepius abortivis, subcarbonacea, contextu parenchymatico parum distincto atro; loculi minuti (200 μ diam.) e mutua pressione angulosi; asci cylindracei v. cylindraceo-subsaccati, apice obtuse rotundati, tunica vix incrassata, deorsum breviter cuneato-pedicellati (80-90 \times 10-16 μ) pseudoparaphysibus parcis immixti, octospori; sporae recte, oblique v. horizontaliter monostichae, ellipsoideae, utrinque subtruncato-rotundatae (14-16 \times 8-10 μ) non v. vix

subinaequilaterales, primo mucro mox evanescente cinctae, dein nudae laeves, protoplasmate granuloso non v. 1-guttulato farctae, hyalinae. Adsunt saepe loculi spermatophori, sporulis linearibus utrinque acutatis ($20-25 \times 1 \mu$) non v. vix subfalcatis hyalinis continuis farcti.

107. PHYLLACHORA SUBTROPICA SPEG. (n. sp.)

Diag. Stromata sparsa amphigena mediocria, plurilocularia; asci cylindranei apice subtruncati paraphysati; sporae eliipsoideae hyalinae.

Hab. Ad folia plantae ignotae (*Sebastianiae?*) cujusdam in dumetis prope *Paraguari*, per ann. 1884 (sub n. 4326).

Obs. Maculae nullae; stromata utrinque innato-manifesta, determinata orbicularia (1 mllm. diam.) ad epiphyllum applanata subnitentia laevia, saepe ruguloso-marginata, ad hypophyllum convexula opaca, saepe minutissime subgranulosa (an ruguloso-reticulata?), hinc inde irregulariter sparsa subcarbonacea, contextu indistincto atro, 3-7-loculigera; loculi fere omnes evoluti ovato-radiantes, minuti (150-200 μ diam.) saepe e mutua pressione angulosi, substantia alba farcti; asci cylindranei apice attenuati sed subtruncato-rotundati, tunica incrassata bifoveolataque, deorsum longiuscule attenuato-pedicellati (p. sp. $100 \times 10-11 \mu$ — ped. 40-5 μ) octospori, paraphysibus paucis crassiusculis minutis denseque guttulatis immixtis; sporae oblique monostichae, ellipsoideae utrinque obtusiusculae ($10-13 \times 3-5 \mu$) primo mucro mox evanescente obovolutae dein nudae, laeves, hyalinae. Species *Ph. tropicali* SPEG. satis affinis sed distincta; cum *Ph. tragiae* (B. et C.) SACC. etsi matrice et habitu nonnihil accedens, caeteris characteribus longe tamen abhorrens.

108. PHYLLACHORA TRAGIAE (B. et Ck.) SACC. — *Speg.*, Fung. guar. p. I, n. 261.

Hab. Ad folia viva *Crotonis* v. *Acalyphae* speciei cujusdam in viis urbanis *Paraguari*, 10 Apr. 1884 (sub n. 4271).

Obs. Sporae ellipsoideae leniter v. non inaequilaterales ($13 \times 7 \mu$) hyalinae.

109. PHYLLACHORA GENTILIS SPEG. (n. sp.)

Diag. Stromata epiphylla difformis minuta nitentia maculis stromaticis irregularibus atro-purpurascensibus insidentia, plurilo-

ocularia; asci cylindranei paraphysati; sporae ovato-lanceolatae, hyalinae.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in dumetis montanis *Y-acan-guazú*, 18 Jan. 1884 (sub n. 4330).

Obs. Stromata epiphylla, ad hypophyllum non v. vix manifesta, parum prominula, atra subnitentia, difformia (1-2 mllm. diam.) laevia v. vix subtuberculosa, macula indeterminata irregulariter expansa, ad epiphyllum stromatica atro-purpurascens, ad hypophyllum vix pallescente insidentia, 3-9-ocularia, contextu olivaceo-fuligineo indistincto; loculi minuti (200-250 μ diam.) e mutua pressione angulosi albo-farcti; asci cylindranei v. subfusoides, apice obtusissime rotundati, parcissime incrassato-tunicati, deorsum breviter attenuato-pedicellati (120 \times 12-14 μ) paraphysibus paucis crassiusculis guttulatis obvallati, octospori, sporae ovoideo-lanceolatae (18-20 \times 8-9 μ) basi latiuscule rotundatae apice longiuscule attenuato-acutatae, primo tunica mucosa obovolutae dein nude laeves hyalinae (an demum excentrice 1-septatae?). Species *Munkiellae* nonnihil vergens.

110. PHYLLACHORA ACUTISPORA SPEG. (n. sp.)

Diag. Stromata epiphylla breviter linearia, opaca, minuta plurilocularia; asci cylindranei paraphysati; sporae sublimoniformi-lanceolatae acutae hyalinae.

Hab. Ad folia viva *Graminaceae* speciei cujusdam (*Panicum?*) in pratis prope *Posta-Cué*, Febr. 1884 (sub n. 4313).

Obs. Maculae nullae v. totum folium plus minusve pallescens; stromata epiphylla densiuscule sparsa breviter linearia v. subellipsoidea (1-2 mllm. long. \times 0,3-0,5 mllm. lat.) innata, vix prominula atra opaca, areola stricta nigrescente saepe cincta, 3-8-ocularia, contextu atro indistincto; loculi minuti (150-200 μ diam.) elongato-compressi albo farcti; asci cylindranei, antice rotundati, postice parum attenuato-pedicellati (90-8 μ) paraphysibus filiformibus obvallati, octospori; sporae limoniformi-lanceolatae, umbone supero brevi, infero longiusculo (15-18 \times 5-6 μ), rectae v. leniter inaequilaterales, nude hyalinae. Per aetatem umbo inferus 1-pseudoseptatus et sporae subbiloculares, atque species facillime generi *Munkiellae* adscribenda!

111. AUERSWALDIA PALMICOLA SPEG. — Fung. guar. p. I, n. 281.

Hab. Ad folia viva *Diplostemii littoralis* in uliginosis prope *Y-acan-guazú*, 18 Jul. 1884 (sub n. 4325).

Obs. Specimina immatura; asci e cylindraceo torulosi (120-150 \times 20 μ) octospori, parcissime paraphysati; sporae ellipsoideo-subnaviculares (20-22 \times 8 μ) primo strato mucoso crasso (3-4 μ crass.) obovolutae, grosse 4-guttulatae (fere tetrablastes) hyalinae, dein opace fuligineae continuae.

112. AUERSWALDIA PUCCINOIDES SEPG. — Fung. guar. pg. I, n. 282.

Hab. Ad folia viva plantae indeterminatae cujusdam in dumetis *Y-acan-guazú*, 18 Jan. 1884 (sub n. 4279).

Obs. Specimina, quæ sub hoc numero militant, immatura!

113. CURREYA? BAMBUSICOLA SPEG. — Fung. guar. pag. II, n. 120.

Hab. Ad ramulos vivos *Bambusaceae* cujusdam in sylva *Naranjo* in montanis prope *Peribebuy*, 24 Maj. 1883 (sub n. 3827).

Obs. Specimina sterilia!

114. PHYMATOSPHERIA BRASILIENSIS SPEG. — Fung. Puig. n. 330.

Hab. Ad corticem ramulorum viventium *Laurineae* cujusdam prope *Calle-poi*, circa *Yaguaron*, 20 Sept. 1883 (sub n. 3989).

Obs. Specimina guaranitica cum brasiliensibus perfecte congruentia; asci globosi v. obovati (45-55 \times 40 μ); sporae ellipsoideae (28-30 \times 12 μ), 7-septatae, curvulae, hyalinae.

115. VIZELLA GUARANITICA SPEG. — Fung. guar. pug. II. n. 121.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in dumetis prope *Peribebuy*, Maj. 1883 (sub n. 3824).

Obs. Specimina plane sterilia.

116. MICROTHYRIUM ACERVATUM SPEG. (n. sp.)

Diag. Perithecia dense coacervata plagulas orbiculares parvas efficientia, minuta atra ostiolata subiculo destituta; asci obovati aparaphysati; sporae minutae obovatae didymae hyalinae.

Hab. Ad folia viva *Rutaceae* speciei cujusdam in sylvis *Y-acan-guazú*, 18 Jan. 1884 (sub n. 4329).

Obs. Maculae nullae; perithecia orbiculari-polygona, dimidato-scutata minuta (60-70 μ diam.) dense constipata, saepeque margi-

ne integre confluentia, centro ostiolo minuto perforata, per aetatem stellatim lacera atra opaca, contextu indistincto, plagulas epiphyllas orbiculares crustaceas (1.2,5 mllm. dian.) efficientia, subiculo destituta, v. membrana tenuissima anhistia hyalina insidentia, gonidiis plane nullis; asci obovati antice crassissime tunicati, postice brevissime noduloseque stipitati ($30 \times 15 \mu$) aparaphysati octospori; sporae obovatae utrinque obtusissimae ($10 \times 5 \mu$), biloculares, ad septum constrictulae, loculo supero conspicue majore crassioreque (loc. sup. $6 \times 5 \mu$ — loc. inf. $3-4 \times 3-5 \mu$), hyalinae (an postremo chlorinae v. olivaceae?). Species pulchella facile generi *Seynesiae* transferenda; an huc *Haplopyrenula acervata* Muell. Arg.?

X 117. SEYNESIA? NEBULOSA SPEG. (n. sp.)

Diag. Maculae indeterminatae nebulosae; perithecia sparsa minuta; asci subcylindranei aparaphysati; sporae obovato-subclavatae loculo supero subbreviore, hyalinae.

Hab. Ad folia viva *Myrsines* speciei cujusdam in sylva *Caáguasú*, Jaa. 1882 (sub. n. 3587).

Obs. Maculae epiphyllae vix fuscescentes indeterminatae parum manifestae, ex orbiculari confluenti-diformes, vere nubilosae, magnitudine ludentes; perithecia in maculis sparsa v. laxissime subgregaria minuta (120-150 μ diam.) atra opaca, dimidiato-scutata, centro lacero-subostiolata, radiatim dehiscentia, contextu centro opaco imperspicuo, ambitu pellucido prosenchymatico-radiante, margine fimbriato, subiculo plane deficiente; asci cylindranei v. subfusoides-cylindranei ($70-80 \times 12-14 \mu$) antice rotundato-subtruncati, crasseque tunicati, postice cuneati breviter pedicellati, aparaphysati octospori; sporae oblique distichae ellipsoideo-subclavulatae v. fere biconicae ($16-18 \times 6-7 \mu$), medio 1-septatae constrictulae, loculo supero vix breviore crassiore obtusioreque ($7-8 \times 7 \mu$), infero sublongiore graciliore ac magis acuto ($8-10 \times 6-6,5 \mu$) primo hyalinae dein fuligineae. In maculis adsunt saepe hyphae gracillimae (2-3 μ crass.) repentis fuligineae hyphopodiis destitutae, an subiculi heterogenei?

118. ASTERINA AMPULLULIPEDA SPEG. — Fung. guar. pag. II, n. 127.

Hab. Ad folia viva *Laurineae* cujusdam in sylvis prope *Villa-Rica*, Jan. 1882 (sub n. 3599).

Obs. Adest quoque forma sporuligera, *Leptothyrium ampullipedum* cnfr.

119. ASTERINA CRISTATA SPEG. — l. c., n. 126.

Hab. Ad folia viva v. languida *Asclepiadeae* cujusdam in dumetis prope *Paraguari*, Aug. 1883 (sub n. 3935).

120. ASTERINA CRISTATA SPEG.

var. *malvicola* SPEG.

Hab. Ad folia viva *Malvaceae* speciei cujusdam in dumetis prope *Luque*, Maj. 1884 (sub n. 4276).

Obs. A typo varietas recedit mycelio magis tenui ac effuso peritheciis minoribus (100-120 μ diam.) ac sporidiis ad septum validius constrictis (20-21 \times 9-11 μ).

121. ASTERINA CYLINDROTHECA SPEG. — Fung. puig., n. 349.

Hab. Ad folia languida *Rutaceae* cujusdam in sylva *Y-acan-guazú*, 18 Jan. 1884 (sub n. 4329).

Obs. Specimina guaranítica a brasiliensibus vix recedunt ascis nonnihil minoribus (55-65 \times 14-15 μ) atque sporis sublongioribus gracilioribus (16-18 \times 6 μ) et praecipue oculis sporarum ad maturitatem aequilongis.

122. ASTERINA PUIGGARI SPEG. — Fung. arg., pug. IV, n. 144 et Fung., guar. pug. II, n. 124.

Hab. Ad folia viva *Myrtacearum* in sylva *Cad-guazú* et *Y-acan-guazú*, per ann. 1882-84 (sub n. 3591-3592-3594-3596-4324-4330).

Obs. Species praecedenti peraffinis sed ascis ubique crassissime tunicatis brevioribus crassioribusque mox dignoscenda.

123. ASTERINA SPHAERELLOIDES SPEG. (n. sp.)

Diag. Plagulae vix perspicuae nebulosae sordide subinerascentes, peritheciis laxè aggregatis punctulatae, mycelio tenuissimo parcissimoque hyphopodiis destituto efformatae; perithecia minutissima pellucida glabra; asci pauci e globoso obovati apophysati, spora obovatae didymae, loculo supero globoso infero subconoideo.

Hab. Ad folia coriacea plantae indeterminatae (*Ilicis?*) prope *Luque*, Maj. 1884 (sub n. 4278).

Obs. Plagulae amphigenae laxissime araneosae vix perspicuae

nebulosae indeterminatae ex atro subcinerascentes ex hyphis laxe ramuloso-intertextis repentibus gracilibus (3-4 μ crass.) septulatis rectis v. tortuosis hinc inde ramulis divaricatis breviusculis cylindraceis (an hyphopodiis) ornatis compositae; perithecia in plagulis sparsa v. laxissime subgregaria hemisphaerico-prominula minuta (120-130 μ diam.) atra stellatim dehiscentia margine fimbriatula, contextu membranaceo e cellulis prosenchymatico-radiantibus densissime septulatis fuligineis pellucidis composito donata; asci obovati v. subglobosi brevissime pedicellati (30-35 \times 35 μ) membrana tenuiuscula, antice non v. vix incrassata donati, aparaphysati octospori; sporae ellipsoideo-obovatae utrinque obtusissimae (20-24 \times 10-12 μ) medio valide constrictae, loculo supero subglobo (10-11 \times 10-12 μ) infero obovato (12 \times 8-9 μ) primo hyalinae dein subopace fuligineae.

124. TRICHOthyrium fimbriatum SPEG. (n. sp.)

Diag. Vittae myceliales hyphopodiis conidiisque destitutae argine fimbriatae; perithecia sparsa ostiolata tunica simplici dotata; asci obovati paraphysati; sporae ellipsoideo-obovatae triseptatae hyalinae.

Hab. Ad folia plantae cujusdam indeterminatae in sylva Caáguasú, Jan. 1882 (sub n. 3577).

Obs. Maculae nullae; plagulae amphigenae ex orbiculari difformes mediocres (3-5 mllm. diam.) saepe confluyendo magnae, dendritico-reticulatae, fere pelliculosae, matrici arctiuscule adnatae, nunquam bullosae, e vittis rectiusculis, densiuscule intertextis, latiusculis (20-25 μ diam.) atro-fuligineis centro crassiusculis opacis, ambitu membranaceo-expansis pellucidis fumosis prosenchymaticis, margine irregulariter denseque fimbriato-lobulatis (cellul. 3-4 long.) alterne v. opposite ramosis, apice saepe subdichotomis, hyphopodiis conidiisque plane destitutis efformatae; perithecia hinc inde saepius ad axillas ramorum vittarum, sparsa, orbicularia minuta (100-150 μ diam.) dimidiato-scutata, in vivo convexula in sicco collabescenti-applanata, ostiolo minuto perforata uni-tunicata pellucida atro-olivacea, contextu parenchymatico-radiante, cellulis subcuboideis minutis crasse tunicatis concentricè dispositis, margine integra v. vix repandula; asci ovato-elongati v. obclavati, antice attenuato-rotundati crassissimeque tunicati atque 1-foveolati, postice brevissime cuneato-rotundati pedicello noduloso crasso brevissimoque suffulti (35-50 \times 14-16 μ) octospori, para-

physibus paucis simplicibus apice saepe incrassatulis, vix longioribus immixti; sporae conglobatae obovato-elongatae utrinque obtusae ($15-18 \times 6 \mu$) medio 1-septatae constrictulae, loculo supero subgloboso brevior ($8 \times 7 \mu$) infero obconico longiore ($10 \times 5 \mu$) in juventute saepe diblasto, hyalinae. Corpuscula orbicularia applanata centro pellucida ($20-25 \mu$ diam.) fuliginea (an perithecia rudimentaria?) hinc inde saepissime ad vittarum marginem accedunt.

125. TRICHOthyRIUM SARCINIFERUM SPÉG.— Fung. puig., n. 3421

Hab. Ad folia viva *Myrtaceae* speciei cujusdam in sylva *Caáguasú*, Jan. 1882 (sine n.).

Obs. Specimina guaranítica cum brasiliensibus omnino congruentia; *Trichothyrium asterophorum* (B. et Br.) in Fung. of Ceylan (sub *Micropeltide*) peraffine nisi identicum!

126. MICROPELTIS VAGABUNDA SPÉG. (n. sp.)

Diag. Perithecia solitaria sparsa minutissima membranacea; asci clavulati aparaphysati; sporae e cylindraceo subclavulatae v. subfusiformes 3-septatae hyalinae.

Hab. Ad folia viva *Aspidospermae quebrachii* in sylvis pro *Yaguaron*, Nov. 1882 (sub n. 3589).

Obs. Maculae nullae; perithecia amphigena sparsa solitaria, saepe thallo lichenino tenuissimo anhisto hyalino (an heterogeneo?) insidentia, orbicularia minutissima ($100-120 \mu$ diam.) dimidiato-scutata, atra, centro ostiolo radiatim fimbriato minutissimo perforata, tenuissime membranacea, contextu centro parenchymatico subconcentrice disposito olivaceo pellucido donata, margine integra v. minutissime erosulo-repanda; asci clavulati antice obtuse rotundati crassiusculeque tunicati, postice cuneato-attenuati breviter pedicellati ($35-40 \times 14-16 \mu$) aparaphysati octospori; sporae ditri-stichae e cylindraceo fusioideae utrinque obtusiusculae ($14-18 \times 3-5 \mu$) non v. vix subclavulatae, rectae v. leniter inaequilaterales, primo 4-blastes dein 3-septatae, ad septum centrale tantum constrictulae hyalinae. Species thalli praesentia ad lichenes non-nihil vergens et subdubia!

X 127. MICROPELTIS? BALANSAE SPÉG. (n. sp.)

Diag. Perithecia coriacea minuta sparsa subiculo destituta; asci ovati aparaphysati; sporae ellipsoideo-fusioideae transverse

5-7-septatae, loculo saepe altero longitudinaliter diviso, hyalinae.

Hab. Ad folia viva plantae cujusdam indeterminatae in sylva *Caá-guazú*, Jan. 1882 (sub n. 3575).

Obs. Maculae nullae; perithecia amphigena solitaria v. hinc inde laxe 3-5 gregaria, orbicularia minuta (100-120 μ diam.) dimidiato-scutata, ostiolo minutissimo (saepe imperspicuo) perforata, tra coriacea opaca, contextu indistincto, margine integra v. vix repandulo-sinuosa, thallo nullo manifesto; asci ovati antice subattenuato-umbonati obtusi, crassissime tunicati, postice rotundati brevissime crasseque stipitati (35-50 \times 22-25 μ) octospori paraphysati; sporae conglobatae, elongato-fusoideae v. lenissime subclavulatae, utrinque obtusiusculae (18-24 \times 5-6 μ) rectae v. leniter inaequilaterales, primo 5, dein 7, -septatae, ad septum medium lenissime constrictae, saepe (sed non semper) loculo altero centrali supero septo verticali diviso, hyalinae. Species pulchella sed non nil dubia ob habitum sublicheninum; an huc *Heterothecium inconspicuum* Muell. Arg. ? an melius *Saccardinula* ?

128. LEMBOSIA OPACA SPEG. — Fung. guar., pug. II, n. 139.

Hab. Ad folia viva coriacea *Myrsines* speciei cujusdam in sylva *Y-acan-guazú*, 15 Mart. 1884 (sub n. 4336).

Obs. Species fere sine dubio ullo sub *Melaspilea* (*Hemigrapha*) *phaeoplaca* a Cl. Muellero Argoviensi paullulo antea edita, et *Lembosia phaeoplaca* (MUELL.) SPEG. vocanda !

29. LEMBOSIA NOBILIS SPEG. (n. sp.)

Diag. Plagulae epiphyllae orbiculares indeterminatae pelliculoae atrae; mycelium dense intertextum hyphopodiis destitutum conidiis continuis v. 1-3-septatis fuliginis ornatum; perithecia ellipsoidea v. trigona hysteroidea minuta; asci ovati paraphysati; sporae subcylindraceo-ellipsoideae loculo infero longiore.

Hab. Ad folia viva plantae indeterminatae cujusdam in sylva *Caá-guazú*, Jan. 1882 (sub n. 3586).

Obs. Maculae nullae; plagulae epiphyllae orbiculares (1-5 mllm. diam.) sparsae v. rarius hinc inde aggregatae v. confluenti-difformes, atrae pelliculosae matrici arctiuscule adnatae ambitu nubilo-evanescentes fere indeterminatae; mycelium ex hyphis tenuibus (4 μ crass.) esseptatis? densissime pelliculoso-intertextis olivaceis efformatum; hyphopodia vera nulla sed in hyphis adsunt

ramuscula brevissima noduliformia 1-guttulata; perithecia inter hyphas sparsa ellipsoidea elongata v. trigona ($150-200 \times 100 \mu$) atra laevissima rima longitudinali latissime dehiscentia, contextu parenchymatico pellucido olivaceo, margine fimbriatula; asci obovati v. subellipsoidei ($24-30 \times 16-20 \mu$) antice obtusissime crasseque tunicati ac umbonati, postice brevissime noduloso-stipitati, paraphysibus filiformibus vix longioribus crassiusculis apice subclavulatis, primo hyalinis dein olivascentibus obvallati, octospori; sporae dense conglobatae cylindraceo-ellipsoideae, non v. vix subclavulatae, utrinque obtusissime rotundatae ($14-16 \times 5-6 \mu$) uniseptatae, non v. vix constrictulae rectae v. subineaquilaterales, loculo supero saepius brevior ($6-7 \times 6 \mu$) infero graciliore ac longiore ($8 \times 5-6 \mu$) diu hyalinae dein fuligineae. In (hyphopodiis?) nodulis mycelii saepe adsunt conidia ellipsoidea, obovata v. subnavicularia, utrinque obtusiuscula ($18-20 \times 10-11 \mu$) pallide olivacea primo continua dein septis tribus transversis atro-opacis crassiusculis divisa, non constricta.

Species perpulchra conidiis triseptatis mox dignoscenda.

130. RHYTIDHYSTERIUM GUARANITICUM SPEG. — Fung. guar., p. II, n. 143.

Hab. Ad ramulos, cortices ac ligna denudata putrescentia vultu gatum in sylvis prope *Guarapi* et *Yaguaron* per ann. 1877-8 (sub n. 1276, 2814, 3616, 4032, 4033, 4034).

Obs. Species summopere proteiformis notis internis ac externis! *Rhytidopeziza Balansae* SPEG. (Fung. guar., pg. I, n. 315) et *Triblidiella Balansae* SPEG. (Fung. guar., pg. II, n. 142) formas unius speciei tantum sistunt et idcirco delendae !!

DISCOMYCETEA Fr.

131. PEZIZA POLYTRICHI SCHM.— Fung. guar., pug. II, n. 146.

Hab. Ad terram humosam inter muscos in sylvis prope *Guarapi*, Sept. 1883 (sub n. 4041).

132. PEZIZA EDULIS SPEG. (n. sp.)

Diag. Cupulae majusculae superne applanatae laeves aurantiacae, inferne subturbinatae spongioso-lacunosae albo-cinerascentes

non v. vix stipitate; asci cylindranei paraphysati; sporae cylindraneo-ellipsoideae biguttulatae hyalinae.

Hab. In sylvis ad terram humosam inter folia ramentaque purerescentia prope *Guarapi*, ann. 1880 (sub n. 3344).

Obs. Solitaria v. hinc inde plus minusve dense aggregata; cupulae primo subglobosae dein gradatim expansae, postremo explanatae-concaviusculae (10-50 millm. diam. \times 5-15 millm. alt.), disco centro convexulo laevissimo sordide e lutescente aurantiaco, margine acutae integrae, non v. vix repandulo-undulatae, interne sessiles v. vix noduloso-stipitatae, terra v. ramentis fere infossae, e turbinato convexae, laxe grosseque lacunoso-alveolatae ligneo-pallescentes, pube squarrulosa cinerascete tectae, intus carne alba hymenioque flavescete donatae, in vivo carnosulae rigidulae, in sicco subflaccidae coriacellae; asci cylindranei antice rotundati, postice modice attenuato-pedicellati (200-220 \times 15-16 μ) octospori, paraphysibus filiformibus non v. vix longioribus simplicibus apice rectis non v. vix subincrassatulis et flavescetibus obvallati; sporae monostichae e cylindraneo ellipsoideae (18-34 \times 12-13 μ) utrinque obtuse rotundatae crassiuscule tunicatae grosse biguttulatae laeves hyalinae. Iodi ope nulla. Species edulis!

FUNGI IMPERFECTI

133. PHYLLOSTICTA ERYNGII SPEG. (n. sp.)

Diag. Maculae nullae, perithecia hinc inde densiuscule maculoso-aggregata atra minuta; sporulae ovoideae hyalinae minutae.

Hab. Ad folia languida *Eryngii pandanifolii* in paludosis prope *Cad-guazú*, Jan. 1880 (sub n. 3548).

Obs. Maculae nullae sed saepe totum folium pallescens; perithecia epiphylla, parenchymate innata, epidermide tecta v. punctulatim prominula, hinc inde dense 10-50-aggregata, plagulas sub-orbiculares fuscescentes (5-10 millm. diam.) efficientia, lenticularia minuta (50-80 μ diam.) ostiolo latiusculo (10 μ diam.) perforata, contextu parenchymatico-membranaceo olivaceo; sporulae ellipsoideae v. ovatae utrinque obtusiusculae (3-4 \times 1,5 μ) hyalinae.

134. CHAETOPHOMA CHLOROSPORA SPEG. (n. sp.)

Diag. Perithecia superficialia subiculo tenuissimo maculoso insidentia subglobosa olivacea, glabra; sporulae ellipsoideae grosse 1-guttulatae olivaceae.

Hab. Ad folia viva *Randia* speciei cujusdam in dumetis prope *Guarapí*, Jun. 1883 (sub n. 3839).

Obs. Plagulae epiphyllae orbiculares minutae (0,5-2 mllm. diam.) saepius dense gregariae rarius confluentes fuscescentes subdeterminatae, araneoso-subpelliculosae, matrice arcte adnatae hyphis tenuibus (3-4 μ crass.) ramulosis septatis, hyphopodiis destitutis efformatae; perithecia sparsa v. in centro macularum laxissime gregaria e globoso hemisphaerica (40-60 \times 40-50 μ) inferne applanata (non dimidiata!) astoma, glabra, laevia, atra, membranacea, contextu subimperspicuo parenchymatico-subradiante, sporulis ellipsoideis utrinque obtusis (6-7 \times 3-3,5 μ) laevibus, chlorino-olivaceis grosse 1-guttulatis farcta.

135. *RABENHORSTIA DISCOIDEA* SPEG. (n. sp.)

Diag. Stromata erumpentia atra, extus laevia adpresseque fibrilloso-tomentosula, orbicularia, pulvinato-exerta, loculis monostichis parvis; sporulae ellipsoideae hyalinae.

Hab. Ad ramos dejectos putrescentes *Caricae* cujusdam in sylvis prope *Paraguari*, Dec. 1883 (sub n. 4274).

Obs. Stromata sparsa, hinc inde e cortice perforato erumpentia saepius orbicularia, parvula (1-3 mllm. diam.) intus extusque atra v. fusco-atra, tomento parcissimo adpresse atro-subcyanescente subevanido, e fibris tenuibus (4-5 μ crass.) densiuscule intertextis fumoso-olivaceis efformato vestita; loculi monostichi astomi stromate immersi ovoidei (100 μ diam. \times 120 μ alt.) pulpa alba farcti; sporulae ellipsoideae v. ovoideae (22-28 \times 11-13 μ) crassiuscule tunicatae laeves hyalinae eguttulatae.

136. *APLOSPORELLA HESPERIDICA* SPEG. — Fung. guar. pug. IV, n. 299.

Hab. Ad ramos dejectos putrescentes *Citri aurantii* prope *Posta-cué*, 2 Mart. 1884 (sub n. 4304).

Obs. Sporulae ellipsoideae v. subnaviculares, utrinque obtusae (18-21 \times 9-11 μ) fuligineae.

PSEUDOPATELLA SPEG. (n. gen.)

Char. Stromata erumpenti-innata, discoideo-subturbinata, cor-

tice crustaceo frustulatim secedente tecta, intus dense monostiche loculigera; sporulae ovatae continuae (?) fumosae.

Obs. Genus *Aplosporellae* SPEG. peraffine, sed stromatibus lecanidiiformibus insigne ac mox dignoscendum.

137. PSEUDOPATELLA LECANIDION SPEG. (n. sp.) *Hothospotelle* 50

Diag. Stromata gregaria parvula disco convexulo ruguloso-rimosulo donata; loculi minuti obovati fusco-farcti; sporulae ovoideae, quandoque diblastes, paraphysatae, primo hyalinae dein fuscae.

Hab. Ad truncos vivos v. languidos *Citri aurantii*, in hortis prope *Guarapi*, Oct. 1883 (sub n. 4038).

Obs. Stromata hinc inde dense aggregata, saepe constipata, rarius sparsa, innato-erumpentia subsuperficialia, discoidea v. e mutua pressione saepe obtuse angulosa, (1 mllm. diam. \times 0,3-0,4 mllm. crass.) superne applanata v. vix convexula, margine acutiusculo integro determinato, disco minute ruguloso-rimuloso donata, aterrime, opaca, glabra, cortice tenuissimo frustulatim deciduo tecta, intus fuscidula compacta, monostiche loculigera, loculi densiuscule constipati obovati (200 μ alt. \times 50-100 μ diam.) ostiolo destituti (?), pulpa fuscidula mucosa repleti; sporulae obovatae, utrinque obtusae, crassiuscule tunicatae, laeves, primo hyalinae, protoplasmate dense guttulato farctae, dein fumoso-fuscidulae (18-22 \times 12-14 μ) continuae sed saepe (an semper?) septo transverso divisae, loculis 1 guttulis, infero nonnihil minore, sterigmatibus monosporis crassiusculis ac longiusculis (15-20 \times 5 μ) fultae paraphysibus mucosis densis obvallatae.

Species perpulchra *Lecanidium atrum* habitu externo perfecte aemulans.

138. SEPTORIA EUGENICOLA SPEG. (n. sp.)

Diag. Maculae amphigenae orbiculares subdeterminatae, sanguineae, centro albo-cinerascentes; perithecia centralia pauca minuta atra; sporulae aciculares falcatae v. unciniformes, continuae hyalinae.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in sylvis prope *Guarapi*, Oct. 1880 (sub n. 2733).

Obs. Maculae sparsae v. rarius hinc inde subaggregatae v. confluentes, 1-3 mllm. diam., amphigenae, discoideae, subdeterminatae, centro areola primo fusco-cinerea dein subalba minuta (0,5-

1 mllm. diam.) donatae; perithecia centro macularum insidentia solitaria v. 3-5-aggregata, epiphylla minuta (80-100 μ diam.) innata ostiolata, glabra membranacea, contextu parenchymatico-olivaceo; sporulae aciculares arcuatae, falcatae v. unciniformes (40-60 \times 1 μ) utrinque obtusae, hyalinae, continuae.

139. SEPTORIA EUGENIARUM SPEG. (n. sp.)

Diag. Maculae amphigenae, angulato-suborbiculares determinatae, cinerascenti-albae, areola sanguinea stricta cinctae; perithecia centralia pauca minuta atra; sporae aciculares subrectae breviusculae.

Hab. Ad folia viva v. languida *Eugeniae* speciei cujusdam in dumetis prope *Guarapí*, Aut. 1884 (sub n. 4287).

Obs. Maculae sparsae v. hinc inde subaggregatae, rarius confluentes (1-3 mllm. diam.) amphigenae, ad hypophyllum fusco-rufescentes, determinatae, areola stricta sanguinea cinctae; perithecia centro macularum insidentia, saepius 3-10 laxe aggregata, minutissima, lenticularia (50-60 μ) (an dimidiata?) parenchymate innata, epidermide tecta atra, contextu parenchymatico imperspicuo olivaceo, minutissime ostiolata; sporulae lineari-fusoidae utrinque acutiusculae rectae v. flexuosulae (20-30 \times 1,5 μ), continuae hyalinae.

140. LEPTOTHYRIUM MAGNUM SPEG. (n. sp.)

Diag. Stromata majuscula superficialia dimidiato-orbicularia, tenui-membranacea prosenchymatico-radiantia atra glabra centro colliculoso-loculigera; sporulae ellipsoideae parvulae hyalinae.

Hab. Ad folia viva *Nectandrae* speciei cujusdam in sylvis *Caá-guazú*, Jan. 1882 (sub n. 3576).

Obs. Stromata? orbicularia (0,5-3 mllm. diam.) margine non v. vix repandula, superficialia, matrice arctiuscule adnata, tenuiter crustaceo-fragilia membranacea, atra opaca glabra, centro 1 v. 3-colliculoso-prominula, contextu parenchymatico radiante (cell. 3 μ crass.), centro opaco, ambitu pellucido, subdichotomico septulato donata; loculi (?) partes centrales colliculosas occupantes, albo-farcti minuti (60-80 μ diam.), tunica propria nulla, 3-4 aggregati saepe confluentes, superne membrana stromatis tantum tecti, rimula minutissima dehiscentes; sporulae ellipsoideo-subcylindraceae, utrinque obtusiusculae (8-10 \times 3 μ) non v. obscure guttulae hyalinae.

Species perpulchra, novi generi facillime typum et statum imperfectum *Polystomellae* v. *Hysterostomellae* cujusdam sistens.

141. LEPTOTHYRIUM AMPULLULIPEDUM SPEG. (n. sp.)

Diag. Characteres externi cum illis stati ascophori (Cnf. *Asterinam ampullulipedam* Sp.) perfecte congruentes; sporulae ellipsoideo-cylindratae utrinque subtruncato-rotundatae ($6 \times 3 \mu$) hyalinae.

Hab. Una cum stato ascophoro ad folia *Laurineae* cujusdam prope *Villarica*, Jan. 1882 (sub n. 3599).

142. ASTEROSTOMELLA CRISTATA SPEG. (n. sp.)

Diag. Characteres externi illis stati ascophori (Cnf. *Asterinam cristatam* Sp.) simillimi; sporulae ovoideae, continuae, rarius diblastes ($20-24 \times 12-14 \mu$) fuliginatae.

Hab. Ad folia viva v. languida *Rutaceae* cujusdam in sylva subvirginea *Caá-guazú*, Jan 1882 (sub n. 3584).

143. ASTEROSTOMELLA SUBRETICULATA SPEG. (n. sp.)

Diag. Characteres externi ab illis stati ascophori (Cnf. *Asterinam subreticulatam* Sp.) nullomodo deflectentes; sporulae ovoideae continuae v. diblastes ($16-24 \times 10-16$) fuliginatae.

Hab. Ad folia viva *Cestri pubescentis* et *Cestri* speciei cujusdam in sylvis prope *Guarapí* et *Villarica*, vere 1882-83 (sub n. 3593 et 4087).

Obs. Forma in *Cestro pubescente* (n. 4087) sporulis e globoso pyriformibus majoribus ($20-24 \times 14-16 \mu$) gaudet, forma altera (n. 3593) sporulas conspicue minores ($16-20 \times 10-12$) habet. An species duo distinctae?

144. ASTEROSTOMELLA CINGULATA SPEG. (n. sp.)

Diag. Status sporuligerus *Micropeltidis? Balansae* SPEG., cum qua characteribus externis perfecte congruens; perithecia tamen nonnihil minora ($80-90 \mu$ diam.); sporulae ovoideae ($12 \times 6 \mu$) fere opacae fuliginatae ad tertium superum cingulum transversum strictum fere hyalinum ornatae.

Hab. Ad folia viva *Euphorbiaceae* (*Sebastianiae?*) cujusdam in dumetis sylvae *Caá-guazú*, Jan 1882 (sub n. 3575).

145. MELASMIA PULCHELLA SPEG. (n. sp.)

Diag. Stromata minuta epiphylla sparsa unilocularia; sporulae ellipsoideo-subovoideae granuloso-farctae hyalinae.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in vallecula *Y-acan-guazú* vocata inter *Paraguari* et *Valenzuela*, 18 Jan. 1884 (sub n. 4327).

Obs. Maculae nullae; stromata epiphylla sparsa v. rarius hinc inde 2-3 aggregata fere punctiformia (0,5 mllm. diam.) convexo-prominula, atra subnitentia, parenchymate epidermideque innata, unilocularia, rarius 2-3-locularia, loculo unico tantum fertili, albo-farcto; sporulae dense conglobatae ellipsoideae, cylindraceae v. ovoideae, utrinque obtusiusculae (9-11 \times 4-5 μ) granuloso-farctae tenui-tunicatae, hyalinae.

146. LASMENIA BRASILIENSIS SPEG. — Fung. puig. n. 435.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in dumetis prope *Paraguari*, Apr. 1883 (sub n. 3788).

147. LASMENIA GUARANITICA SPEG. — Fung. guar. pug. I, n. 358.

Hab. Ad folia viva plantae cujusdam indeterminatae prope *Paraguari*, Jul. 1883 (sub n. 3875).

148. MELOPHIA ANONAE SPEG. — Fung. guar. pug. I, n. 359

Hab. Ad folia viva *Anonaceae* cujusdam in sylvis prope *Paraguari*, Maj. 1884 (sub n. 4277).

149. MELOPHIA MACROSPORA SPEG. (n. sp.)

Diag. Stromata amphigena effuso-innata atra, ad epiphyllum magis conspicua, plurilocularia, sporulis filiformibus arcuatis continuis donata.

Hab. Ad folia viva et languida *Eugeniae* speciei cujusdam prope *Paraguari* et *Y-acan-guazú*, Jan. et Mart. 1884 (sub n. 4295-4322).

Obs. Stromata parenchymate epidermideque foliorum innata, non prominula, utrinque aterrima laevia subnitentia, areola indeterminata saepius strictiuscula pallescente v. flavescente cincta; loculi numerosi minutissimi difformes sinuosi reticulato-juncti, albo-farcti; sporulae filiformes, tenues, apice altero acuto, altero obtusiusculo (30-40 \times 1-1,5 μ) falcatae v. unciniformes hyalinae continuae (?). Sporulae superne bi-v. tri-furcatae saepe adsunt!

✓ 150. MELOPHIA SUPERBA SPEG. (n. sp.)

Diag. Stromata amphigena orbiculari-diformia, superne nigra decorticata concentricè rugulosa, loculis numerosissimis confluentibus, sporulis filiformibus falcatis continuis donata.

Hab. Ad folia viva *Myrti guaviyú* in dumetis sylvae subvirgineae *Caá-quazú*, Jan. 1882 (sub n. 3577-3578).

Obs. Stromata irregulariter orbiculari-repanda majuscula (1-5 mllm. diam.) amphigena nigra, parenchymate innata, ad hypophyllum convexula subindeterminata epidermideque adnata atque semper tecta, ob tomentum foliorum cinerascentia, ad epiphyllum vix prominula applanata v. concava subdeterminata, laevia subnitentia, centro saepius epidermide frustulatim secedente orbata opaca ac subasperula, rugis concentricis prominulis pulchre ornata; loculi numerosissimi difformes saepius reticulato-confluentes albo-farcti; sporulae aciculares utrinque v. apice supero tantum acutato-attenuatae ($20-30 \times 1 \mu$) continuae falcatae v. hamatae hyalinae.

Species ob rugas concentricas stromatum mox dignoscenda.

151. GLAEOSPORIUM TABERNEMONTANAE SPEG. (n. sp.)

Diag. Maculae pallescentes determinatae; acervuli minuti epiphylli ochracei; sporulae ellipsoideo-cylindraceae majusculae hyalinae.

Hab. Ad folia viva *Tabernemontanae* speciei cujusdam in dumetis prope *Paraguari*, Jul. 1883 (sub n. 3818).

Obs. Maculae amphigenae ad hypophyllum indeterminatae pallescentes, ad epiphyllum fusco-pallescentes determinatae, centro subalbescentes, margine saepius areola ferruginea stricta cinctae; acervuli parenchymate innati, epidermide tecti, ad epiphyllum erumpentes, minutissimi (70-80 μ diam.) laxè gregarii fulvo-fuscescentes; sporulae e cylindraceo-ellipsoideae ovoideae rarius medio subattenuatae, utrinque obtuse rotundatae ($12-18 \times 4-5 \mu$) hyalinae.

✓ 152. MELANCONIUM? BAMBUSINUM SPEG. (n. sp.)

Diag. Erumpens lineare dense gregarium; sporulae e globoso sublimoniformes sterigmatibus longis repentibus articulatis geminatim suffultae, majusculae obscure fuligineae.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in uliginosis prope *Paraguari*, Aug. 1883 (sub n. 3960).

Obs. Maculae nullae; acervuli dense gregarii lineares (1-5 mllm. long \times 0,3-0,4 mllm. crass.) epidermide relaxata tecti, rimose dehiscentes, intus atrii; sporulae subglobosae, apice supero saepius acutato minuteque umbonatum, infero rotundato-subtruncato ($30 \times 20-30 \mu$) laeves opace fuligineae, sterigmatibus (hyphis?) repetitis articulatis subtorulosis (6μ crass.) pallide fumoso-olivaceis, ad extremitatem superam saepius uncinato-recurvis atque bifidis, utroque apice monosporo. Species pulchella ob sterigmata valde evoluta ad hyphomycetes vergens, et facile generi *Coniosporio* adscribenda.

153. CYLINDROSPORIUM OLYRAE SPEG. (n. sp.)

Diag. Epiphyllum sparsum minutissimum erumpens fusco-flavesces; sporulae subcylindratae continuae v. parce septatae hyalinae.

Hab. Ad folia viva v. languida *Olyrae* speciei cujusdam in dumetis prope *Guarapi*, Febr. 1884 (sub n. 4319).

Obs. Maculae nullae; acervuli epiphylli sparsi v. hinc inde parce aggregati saepe confluentes pusilli (60-90 μ diam.) fulvi parenchymate innati epidermideque tecti, vix prominulo-erumpentes, areola strictissima sordide aurantiaca cincti; sterigmata dense fasciculata hyalina cylindrata monospora gracillima; sporulae cylindratae v. obclavulatae utrinque obtusiusculae ($30-40 \times 1,5-2 \mu$) rectae v. leniter flexuosae, continuae v. parcissime septulatae non constrictae laeves hyalinae.

154. OOSPORA VERSICOLOR SPEG. (n. sp.)

Diag. Rosea, aurantia v. flava, minute irregulariterque ellipso-pulvinulata; conidia laevia globosa catenulata ex hyphis subcuboideo-articulatis oriunda.

Hab. Ad terram, folia ramentaue putrescentia et semicom-busta in dumetis prope *Guarapi*, *Posta-cué* et *Yaguaron*, hieme 1883-84 (sub n. 3934, 4301, 4755).

Obs. Acervuli superficiales v. erumpenti-diffuentes tenues difformes minuti (0,5-1 mllm. diam.) rarius hinc inde aggregati ac confluentes, margine tenuissimi araneoso-evanescentes albi v. pallidi, centro parum incrassatuli subpulvinatuli, primo compactiusculi dein pulverulenti, flavi, aurantii v. rosei; hyphae hyalinae repentae septatae, articulis basalibus elongatis non secedentes, ad apicem versus gradatim abbreviatis ac cuboideo-articulatis (8-10

× 5-15 μ), sensim in sporulas globosas (4-6 μ diam.) laeves catenulatas hyalinas abeuntes. Species pulchella ut videtur vulgatissima.

155. *IDIUM ERYSIPTHOIDE* FR.— SPEG., Fung. guar. pug. II, n. 181.

Hab. Ad folia viva *Umbelliferae* cujusdam in pratis prope *Guarapí*, Aut. 1883 (sub n. 4054).

156. *CERCOSPORELLA PSEUDOIDIUM* SPEG. — Fung. guar. pug. I, n. 390.

Hab. Ad folia viva *Manihot utilissimae* in montuosis *Mbocaiati* vocatis prope *Paraguari*, 5 Mart. 1883 (sub n. 3761).

157. *HETEROSPORIUM CHLORIDIS* SPEG. (n. sp.)

Diag. Hypophyllum minutum olivaceum; hyphis sterilibus repentibus fertilibus erectis, sporulis ellipsoideis parvulis triblastibus, minutissime verruculosus fumoso-olivaceis donatum.

Hab. Ad folia languida *Chloridis* speciei cujusdam in pratis prope *Paraguari*, Febr. 1884 (sub n. 4311).

Obs. Maculae nullae v. folium hinc inde vix cinerascenti-pallescentis; plagulae hypophyllae plus minusve evolutae ellipsoideae v. orbiculares olivaceae velutinae; acervuli minuti in plagulis densiuscule constipati, ex hyphis gracilibus septulatis olivaceis repentibus efformati; hyphae fertiles erectae simplices (150-200 × 5-10 μ) septulatae olivaceae pellucidae, apice obtusae saepius monospermae; conidia saepius acrogena ellipsoidea v. obovata, non v. vix inaequilateralia, primo triblasta dein triseptata nunquam ad septa constricta (20-30 × 8-10 μ) utrinque obtusa minutissime (vix perspicue) denseque asperula, fumoso-olivacea.

158. *NAPICLADIUM MYRTACEARUM* SPEG. ?— Fung. guar., pug. II, n. 192.

Hab. Ad folia viva *Myrtaceae* cujusdam in dumetis sylvae *Caá-guazú*, Jan. 1882 (sub n. 3451).

Obs. Specimina plane sterilia et tandem nonnihil dubia.

159. *NAPICLADIUM CAAGUAZUENSE* SPEG. — Fung. guar., pug. II, n. 397. (sub *Helmintosporio*).

Hab. Ad folia viva *Bambusaceae* cujusdam in uliginosis sylvae *Caá-guazú*, Jan. 1882 (sub n. 3574).

160. *SARCINELLA?* *SOLANICOLA* SPEG. (n. sp.)

Diag. Mycelium ut in forma ascigera; conidia in hyphis brevibus simplicibusque acrogena, 4-6-cellularia opaca glabra, conidiis hyalinis deficientibus.

Hab. Ad folia viva *Solanaceae* cujusdam in dumetis sylvae subvirgineae *Caá-guazú*, Jan. 1882 (sub n. 3583).

Obs. Forma conidica *Dimerosporii solanicoli* (B. et C.) SPEG.; hyphae conidiiferae ex illis repentibus mycelii hinc inde adsurgentes, rectae v. flexuosae ($50-90 \times 3 \mu$) continuae (?) fusco-atrae subopacae; conidia monomorfa acrogena solitaria, subglobosa ($16-20 \mu$ diam.), utrinque applanata, 4-6-cellularia, cellulis monostichis ($10-12 \mu$ diam.), ad septa constricta, opace fuliginea; conidia hyalina heteromorpha, facillime decidua, non inventa. In mycelio adsunt saepius perithecia rudimentaria, minuta globoso-depressa ($50 \times 38 \mu$) olivacea, subpellucida, sclerotiacea, cellulis crassis polygonis (10μ diam.) grosse 1-guttulatis farcta.

X 161. ATRACTIUM? CRONARTIOIDE SPEG. (n. sp.)

Diag. Maculigenum hypophyllum fuscum; stipites sparsi erecti majusculis apice minute pruinuloso-conidiiferi; conidia cylindracea continua v. pluriseptata chlorina.

Hab. Ad folia languida *Bignoniaceae* cujusdam volubilis in dumetis circa *Calle-pot* prope *Yaguaron*, 20 Sept. 1883 (sub n. 3990).

Obs. Maculae amphigenae determinatae irregulariter repando-orbiculares v. confluendo difformes arescentes superne cinereo-albae inferne pallide avellaneae; stipites hypophylli in maculis laxissime aggregati, quandoque totam maculam occupantes, sed saepius tantum marginales, fusco-olivacei erecti, recti v. arcuati majusculi ($0,5-1$ mllm. alt. $\times 50-100 \mu$ crass.) cylindranei basin versus leniter incrassatuli, apice non v. vix attenuati ac subpallentescentes, ex hyphis tenuibus gracilibus ($3-4 \mu$ crass.) chlorino-olivaceis dense fasciculatis efformati; conidia cylindracea recta v. vix flexuosa, utrinque obtusiuscula ($40-60 \times 4-5 \mu$) continua v. saepius triseptata, ad septa non constricta, laevia, chlorina, pellucida.

Species pulchella, dubiose ad interim generi *Atractio* adscripta, habitu externo, *Cronartium* quoddam perfecte simulans.

162. MUNKIA MARTIRIS SPEG. — Fung. guar., pug. I, n. 356.

Hab. Ad ramulos vivos *Bambusaceae* cujusdam, in lapidosis *Cerro Leon* vocatis, 15 Mart. 1884 (sub n. 4282).

163. FUSARIUM HETEROSPORUM SPEG. — *Sacc.*, Syll. fung. vol. IV, pag. 707, n. 63.

Hab. Ad paniculas floriferas *Andropogonis* speciei cujusdam in dumetis prope *Posta-cué*, Mart. 1884 (sub n. 4291-4292).

164. MICROCERA CLAVARIELLA SPEG. — *Fung. guar.* pg. I, n. 428.

Hab. Ad folia viva v. languida *Eugeniae* speciei cujusdam in dumetis prope *Paraguari*, Apr. 1883 (sub n. 3787).

165. CAPNODIUM CHAETOMORPHUM SPEG. ? — *Fung. guar.*, pug. I, n. 345.

Hab. Ad folia viva *Fici* speciei cujusdam in sylvis (ubi?) Jul. 1883 (sub n. 4734).

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