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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

SYNGENESIA POLYGAMIA NECESSARIA. 72 K rius solitaria, membranacea, cordato-compressa substantia cin= Eta, oblonga, superne latiora. an subventanea?

Feminæ solitaria, majora, oblonga, incurva, triangularia, angulis membranaceis, externe longitudinaliter figura vegetabilis insculpta.

REC. nudum, planum.

IA FRUSTRANEA

aill. A. G. 1718. Acap

fquantis ovatis, arctis,

as fabalatas, tamofas.

: carollale hermaphrois

ormis, oblonga: limbo qu

toronatum. Stylus filifond

ngam, emarginatum.

nallus. Stigma nullun,

VECESSARIA

2, Soues. Tournef th

neca Vaill, A. G. 1710

, erectiufculus : (gmanis

iginti, fere zqualibus,

aphrodite plurinz, indi

am calycis, longilimz, in

niquinquefida, longitudine

, midentata, bafi villofa,

suite, capillaria, breviffima,

man telam. Stylus filiformis,

ulum, billiom, rectum,

m Synder Hilformis, longi-

in st, acuminata, reflexa,

an Duripherice Proprin 12.

mans, depreffus.

A. G. 1724. f. 1.

122

eft.

OBS. Calthæ Vaill. Semina feminarum ala utrinque membranacea inflexa instructa.

Dimorphothecæ V. Semina feminarum ala laterali membranacea

inflexa destituta. inflexa destituta. 100517. 808. ARCTOTIS *. Arctotheca Vaill. A. G. 1720. f. 39. arctopy. 100507. 808. ARCTOTIS *. Arctotheca Vaill. A. G. 1720. f. 39. arctopy.

CAL. Communis subrotundus, imbricatus : squamis inferioribus laxioribus, subulatis, mediis ovatis, intimis oblongis : apice rotundato , concavo, nitido, laxoutar helenic, cantan, my.

COR. Composita radiata : corollulæ hermaphroditæ tubulosæ, plurimæ, in disco. Femininæ ligulatæ, fere viginti, disci diametro longiores.

Propria Hermaphroditis infundibuliformis : limbo quinquefido, apicibus reflexis, æqualibus.

Feminis ligulata, lanceolata, tenuissime tridentata, tubo brevissimo.

Sтам. Hermaphroditis Filamenta quinque, capillaria, brevissima, Anthera longitudine corollulæ, cylindracea, tubulofa, quinquedentata.

PIST. Hermaphroditis Germen vix manifestum. Stylus cylindraceus, corollà paulo longior. Stigma fimplex.

Feminis Germen ovato-quadragonum, villosum, coronatum perianthio folioso, squamis minimis : tribus exterioribus, majoribus, incumbentibus : reliquis minoribus, distantibus. Stylus filiformis. Stigmata duo, ovato-oblonga, crassiuscula, erecta. PER. nullum. Calyx immutatus.

contract foundation and a

- William , mangan , actually -

SEM. Feminis solitaria, subrotunda, villosa, coronata perianthit 5. flicing much proprii foliolis ovatis, in orbem positis. Hermaphroditis abortiunt.

12

REC. planiusculum, pilis vel paleis instructum.

SYNGENESIA POLYGAMIA NECESSARIA

809. OSTEOSPERMUM *. Monilifera Vaill. A. G. 1720. f. 28. Chryfanthemoides Tournef. A. G. 1705. - f. 4. Dill: gen. . 9. elth. 68. 251153CHIBS

CAL. Communis simplex, hemisphæricus, multipartitus : foliolis NOT REPRESENTATION FOR subulatis, parvis.

COR. Composita radiata : corollul & hermaphrodit & plurimæ, in difco. Femine decem circiter, in radio.

Propria Hermaphroditi tubulosa, quinquedentata, longitudine calycis.

Feminæ ligulata, linearis, tridentata, longissima.

Sтам. Hermaphroditis Filamenta quinque, capillaria, brevissima. Anthera cylindracea, tubulofa.

PIST. Hermaphroditis Germen minimum. Stylus filiformis, longitudine vix staminum. Stigma obsoletum.

Feminæ Germen globofum. Stylus filiformis, longitudine staminum. Stigma emarginatum. Oxal college over nort of the

PER. nullum. Calyx immutatus.

SEM. Hermaphroditi abortiunt.

Feminæ solitaria, globosa, colorata, tandem indurata, nucleum conformem includentia. 1. primas la anto and the relievist rectiling

REC. nudum, planum.

322

Leonto retati Dine on Raundhio, 193 and 100 and statigil air and I tight 810. CHRYSQGONUM to vide Pluk. 80 # 124213.

CAL. Perianthium commune, pentaphyllum, planum, patens: foliolis lanceolatis, longitudine ferme floris. 10 geny

COR. Universalis radiata : corollulis hermaphroditis plurimis in disae forbesina. co; femininis quinque, in radio.

Propria Hermaphroditis infundibuliformis, quinquedentata, Certechphologenecta. mili Cargilla

Feminis plana, oblonga', truncata, tridentata.

Cat. Perianthinm longo-ovatis, lo Con. Univerfalis ninis quinque C Propria Herma quedentata ; jram. Hermaph lindracea, tubu list. Hermaphy tudine corollz. Feminis Germa ce plano me in. Hermaphr Feminis solita bus aculea connivente IC. COmmune fosculorum.

SINGE

unmen helle

12. SILP

AL. Commun

medio, refley

OR. Univerfa

bus, feminin

Propria Her

dentata, tub

MAM. Herm

Anthera cyli

Isr. Herma

mis, longiffi

Feminis Gerr

mata duo fe

PER, nullum.

SEM. Hermap

REC. communes

Fem

Fem

Sтам. Hermaphroditis Filamenta quinque, minima. Anthera суlindracea, tubulofa.

PIST. Hermaphroditis Germen minimum. Stylus setaceus, longitudine corollæ. Stigma obsoletum.

Feminis Germen majus, perianthio proprio obvolutum. Stylus brevior. Stigmata duo, revoluta.

PER. nullum. Calyos immutatus.

SEM. Hermaphroditi abortiunt.

Feminis solitaria, obverse cordata, depresso-quadrangula, lateribus latiusculis : coronata squamula tridentata introrsum dehiscente, versus basin contracta. Latet semen singulum intra Glumam propriam, tetraphyllam; squama exteriore ovata, latiore; squamis tribus reliquis angustissimis, arcte conniventibus, maturo fructu dehiscentibus.

REC. commune planum; paleis linearibus, obtusis.

Monilifera'v dill. A. I surnef. A. G. 1701 SYNGENESIA POLYGAMIA NECESSARIA, 323 en nomen hillebri nigrikut. all offrin gung in flugettjærbee hyppi 811. MELAMPODIUM F. Squiry ar chyprogram port. 0 MELAMPODIUM F. Squiry ar chyprogram port. -811. s, multipartitus : folius CAL. Perianthium commune, pentaphyllum, planum : foliolis ob forbaine sphrodite plurime, in ici longo-ovatis, longitudine floris, patentisfimis. 799. COR. Universalis radiata : corollulis hermaphroditis in disco; femi- Cargilla ada inquedentata, longitudio ninis quinque circiter in radio. Propria Hermaphroditi monopetala, infundibuliformis, quin-yntacimhen quedentata, erecta. que, capillaria, brevilim STAM. Hermaphroditis Filamenta quinque minima. Anthera cy-Wedelia Laug lindracea, tubulofa. con. Siylus filiformis, los PIST. Hermaphroditis Germen minimum. Stylus setaceus, longitudine corollæ. Stigma obsoletum. formis, longitudine stani. Feminis Germen subovatum, compressum, lateribus scabris, apice plano membranaceo. Stylus brevissimus. Calyx immutatus. SEM. Hermaphroditi abortiunt. Feminis solitaria, obverse ovata, compressa, tetragona, lateribus aculeata, coronata squama cordata, margine involuto a, tandem indurata, m. connivente in formam vulvæ. REC. commune conicum, paleis lanceolatis, coloratis, longitudine flosculorum. Mile 84 4. & 2411 812. SILPHIUM *. Afterifcus Dill. elth. 39: 42. comilyon 400 planum, planum, press. DU CAL. Communis oyatus, imbricatus : squamis ovato-oblongis, in

NECESSARIA

entata, longiffima.

aphroditis plurimis indi-

armas, quinquedentata,

minima. Anthera cy.

Stylus fetaceus, longitu-

schio proprio obrolutum.

time, dependo-quadrangu-

ronce Garada tridentata

fürs haffer contracta. Later

nam propriam, tetraphyl-

a, limere ; squamis tribus

commentibus, maturo

to abrafis.

a, revoluti

ata, tridentata.

medio, reflexis, undique prominentibus, persistentibus. COR. Universalis radiata ex flosculis hermaphroditis in disco pluribus, femininis in radio paucioribus.

Propria Hermaphroditi monopetala, infundibuliformis, quinquedentata, tubo vix limbo angustiore.

Feminæ lanceolata, longissima, sæpe tridentata.

Sтам. Hermaphroditis Filamenta quinque, capillaria, brevissima. Anthera cylindracea, tubulofa. PIST. Hermaphroditis Germen teres, tenuissimum. Stylus filiformis, longisfimus, villosus. Stigma fimplex. Feminis Germen obverse cordatum. Stylus simplex, brevis. Stigmata duo setacea, longitudine styli. PER. nullum. Calyx immutatus. SEM. Hermaphroditi abortiunt. Feminis solitaria, membranacea fere, obverse cordata, margine membranaceo bicorni emarginato cincta. REC. communs paleis linearibus distinctum.

Xij

aritetela aday. catthoides LAda

est nomen 813. OTHONNA *. Jacobæastrum Vaill. A. G. 1720. 15.

CAL. Communis simplicissimus, monophyllus, basi obtusus, acutus, æqualis, in octo vel duodecim segmenta divisus.

COR. Composita radiata : corollulæ hermaphroditæ tubulosæ, multæ, in disco. Feminæ octo, ligulatæ, in radio, numero segmentorum calycis.

Propria Hermaphroditi tubulosa, quinquedentata, calyce vix longior.

Feminæ ligulata, lanceolata, calyce longior, tridentata, reflexa.

Sтам. Hermaphroditis Filamenta quinque, capillaria, brevissima. Anthera cylindracea, tubulosa, longitudine corollulæ.

PIST. Hermaphroditis Germen oblongum. Stylus filiformis, staminibus fere longior. Stigma fimplex.

Feminis Germen oblongum. Stylus filiformis, longitudine hermaphroditi. Stigma bifidum, reflexum, majus.

PER. nullum. Calyx immutatus, persistens.

SEM. Hermaphroditis raro ulla.

allinio.

AN CHECK Feminis solitaria, oblonga, muda aut papposa. reppu Sectorel. REC. nudum, punctatum.

OBS. In aliis Semina pappo coronata sunt ; in aliis Calyx ultra medium divisus; in aliis modo dentatus, figura tamen semper constanti. In aliis folus radius fertilis; in aliis etiam discus.

814. MILLERIA, Mart. cent. 4. CAL. Communis monophyllus, tripartitus, maximus, connivens in formam plano-triquetram, persistens : foliolis duobus interioribus æqualibus, subovatis, acutis, planis : exteriori verò duplo majori, subrotundo, acuminato, plano; cordato, profundius à reliquis diviso. must men in aning maturate coriacy surviving fatery.

CAL. Communi. niventibus, qu Con. Composit plures, in dil Propria Her patulo. Radi

Forma folit

REC. Commissione

Oss. Species dan

lule tubulo (# 9

SIJ. ERIO

STAM. Herma Anthera cyli lis T. Herma Stigma bifid Fem

PER. nullum.

SEM. Herma

REC. nudum

culis herma

OBS. Corpu

cis, ad bas

fol alt de

flen. Congen!

calimbri

Corollar =

Stepy 1.

20

Fen

- COR. Composita radiata : corollulæ hermaphroditæ duæ, intra foliola calycina minora. Feminina unica, intra foliolum calycinum majus.
 - Propria Hermaphroditis monopetala, tubulosa, erecta, quinquedentata. Jam're. 5
 - Feminæ monopetala, erecta, ligulata, obtusa, concava, emarginata. 3 pa non rating, convolute.
- STAM. Hermaphroditis Filamenta quinque, capillaria. Antheræ totidem, erectæ, lineares, lateribus, mediis connexæ, longitudine corollæ, acutæ.
- PIST. Hermaphroditis Germen oblongum, tenuissimum, Stylus filiformis, longitudine corollulæ. Stigmata duo, Imearia, debilia, obtula, patentia milianelly when the the the the the Feminæ Germen magnum, trigonum. Stylus filiformis, longitudine corollulæ. Stigmata duo, setacea, reflexa, longa.

Contrayer a fuelt law. dia millerice /pech A. M. file of long. Such for congruent terminely enprised at a prover for they at in Calinani, ethelity is , into here in the for and in the second of the congruent of the second in the fitter of the congruent contains and the second in the second of the second in the fitter of the constant of the second in the fitter of the second of ER. nullum. Calyx connivens in trigonam figuram. des ifut gune - milleria with SEM. Hermaphroditi abortiunt. Calite a on concase

Hermaphroditi abortiunt. Feminæ solitarium, versus basin angustius, obtusum, oblon. Q Enhie meter gum, triquetrum. midam.

REC. commune vix ullum. planen nudem. OBS. Species datur, cujus Corollula feminina trifida est, & Corollulæ tubulosæ quatuor, ut & Calyx minus manifeste trivalvis.

ERIOCEPHALUS*. Dill. elth. 110. -815. abstance apicoplicationite tridentato. Watte hel??!!

CAL. Communis erectus: squamis decem, ovatis, æqualibus, conniventibus, quarum quinque exteriores carinatæ, interiores planæ. COR. Composita radiata: corollulæ hermaphroditæ tubulatæ, duplo plures, in disco. Femininæ ligulatæ, quinque, in radio. Propria Hermaphroditi infundibuliformis : Limbo quinquefido, patulo.

Radii ligulata, verticaliter cordata : apice trilobo, æquali. STAM. Hermaphroditi Filamenta quinque, capillaria, brevissima. Anthera cylindracea, tubulofa.

PIST. Hermaphroditi Germen minimum, nudum. Stylus simplex. Stigma bifidum, acutum.

Feminæ Germen ovatum, nudum. Stylus fimplex. Stigma acuminatum, inflexum.

inical Documenta PER. nullum. Calyx vix mutatus. SEM. Hermaphroditi abortiunt.

NECESSARIA.

aill. A. G. 1720. 15.

illus, bafi obtufus, acu,

phrodite tubulofe, mul

radio, numero segmen.

quedentata, calyce vin

rce longior, tridentata,

e, capillaria, brevifiima,

m. Stylus filiformis, fta-

iformis, longitudine her-

pappola. pypy Second.

in alies Calys ultrame.

ma tamen (emper confan-

tiam difcus.

rt. cent. 4

cordato, pro

many motiony pity.

adine corollulz.

115,

enta divifus.

Feminis solitaria, ovata, verticaliter posita, nuda.

REC. nudum, planum: at lanugo calycis duplicis ordinis & flofculis hermaphroditis ac femininis interjicitur.

OBS. Corpusculum compressum, rigidum, singulæ squamulæ calycis, ad basin adharet.

brodite die, intra folio-Tolyminia hin nes gen 1181. Part 1. by 5. 21. Canid ntra foliolum calycinum fole alt Souchi subatation in one convent aun come aneren 3 aproprises bulofa, crecta, quinque. calimbric. 2 adies rub applingen I and salita, obtali, concava; Corollar onney tubeleras humaple Dim's fit. Lermo integ. Anthere aplina. Anthere Aufly 1. 1ty 2. Tels conexa, longitu. Mucht. pulesta com muta. Stylas all and a presentation. Spins Eliformis, longitu-A CALINE DE CONTRACTOR EN CONTRACTOR a, refera, longa. Xiij

326 SYNGENESIA POLYGAMIA NECESSARIA.

STNGENEST

PER. nullum. Ca.

SEM. Hermaphra

Arc. nudum.

818.

Itamimi

Feminei

calcher.

Chi. Perianthin.

(exangulare :)

dorfo triangula

bus : folio

or, monopeta

partitus, pate

IAM. Filamen

Anther & oblo

list. Germen

Stylus fimple

bipartitum,

ER. nullum.

EM. unicum

pappi instar.

REC. nudum.

819. Leity at a

CAL. Perian

ribus, flor

perfiftens.

Perianthiun

fiftens.

COR. Partia

STAM. Filar

gæ, bafi co

PIST. Germa

PER. Capfula

SEM. parva.

a Oct

matting P

fairy at

filiformis, 1

nexis.

drum.

816. MICROPUS *. Gnaphalodes Tournef. 439.

- CAL. Communis inferior pentaphyllus: foliolis tenuibus, parvis, obsoletis. simplen 1. ording
 - Communis interior maximus, pentaphyllus: foliolis laxis, distinctis, galeatis, compressis, margine longitudinaliter conni-ventibus, deorsum duplici angulo longitudinali denticulato gibbis. netry any floren finin firtilen continuition.
- COR. Communis ex hermaphroditis decem in disco, & Feminis quinque in ambitu.
 - Hermaphroditi monopetali, infundibuliformes, quinquedentati, erecti. Feminini nulla.
- Sтам. Hermaphroditis Filamenta quinque, setacea, brevissima. Anthera cylindracea, tubulosa, longitudine corollæ.
- PIST. Hermaphroditis Germen obsoletum. Stylus filiformis, staminibus longior. Stigma obsoletum.
 - Femininis. Germen obverse ovatum, compressum, latens intra fingulam squamam calyeis communis interioris fingulum. Stylus è latere germinis interiore, setaceus, hermaphroditos versus inflexus, longitudine calycis. Stigma bipartitum, tenue, acuminatum.

PER. nullum. Calyx immutatus, sed communis interior major, induratus.

SEM. Hermaphroditi abortiunt.

53

medashon comte, Femininis solitaria, obverse ovata, proprio foliolo calycino inclusa. - 2 por Slantin vidi.

REC. paleis acutis, minimis distinctum. flut 1. hundy,

SPHÆRANTHUS †. BOULLETTE. Vaill. A. G. 817.

1719. t. 20. f. 12.

- CAL. Universalis globosus, imbricatus : squamis acuminatis, perfistentibus, receptaculum universale undique vestientibus.
 - Perianthium partiale multiflorum, pentaphyllum, intra singulam squamam calycis communis solitarium, constans foliolis linearibus, æqualibus, erectis.
- COR. constans corollulis Hermaphroditis in centro, femineis in ambitu.
 - Propria Hermaphroditis monopetala, infundibuliformis: Limbo quinquefido, patulo.
 - Femineis vix ulla.
- 5 там. Hermaphroditis Filamenta quinque, capillaria, brevissima. Anthera cylindracea, tubulosa.

PIST. Hermaphroditis. Germen tabidum.

SYNGENESIA POLYGAMIA MONOGAMIA. 327 Femineis Germen oblongum. Stylus setaceus, longitudine staminum. Stigma bifidum.

PER. nullum. Calyx immutatus. SEM. Hermaphroditi abortiunt.

Feminei solitaria, oblonga, nuda.

A NECESSARIA

es Tournef. 439.

Faire Lenuibus, Parvis,

s: foliolis laxis, difting

longitudinaliter conti.

ongitudinali denticulato

in dilco, & Feminis

formes, quinquedentati,

toe, setacea, brevissima,

. Stylus filiformis, fta-

ompreffum, latens intra

interioris fingulum. Sty.

as, hermaphroditos ver-

ma bipartitum, tenue,

communis interior major,

prio foliolo calycino in-

LLETTE. Vaill. A. G.

and acuminatis, per-

raphy llum, intra lingulam

a coottans faliolis linea-

in centro, femineis in am-

R, copillaria, brevifima,

Bollormis : Limbo

disque veftientibus.

half philly.

12.

adine corollz.

- V. MONOGAMIA. Conterente et euromen ly durity coronarde ex mentol. ad Edinopie futionaus. 818. CORTMBIUM 7. Authore Cl. Gronovio. Sumacher 2.70 fr. H. M. Manuary tatis uni agreent alt. Plumber auto. H. Compatibilitie inter H. M. Manuary tatis uni agreent alt. Plumber of the Compatibility inter H. M. Manuary tatis uni agreent alt. Plumber of the Compatibility inter CAL. Perianthium diphyllum, uniflorum, longum, prismaticum of the compatibility inter fexangulare : foliolis erection on longum, prismaticum dorso triangularibus, truncatis, obsolete tridentatis, persistenti-bus: foliolis duobus minimis ad basin while town ad sublingue foliocule come o R. monopetala, æqualis. Tubus brevissimus. Limbus quinquevalut plica has. partitus, patens: laciniis lanceolatis.
- STAM. Filamenta quinque, simplicia, erecta, fubo insidentia. Anther æ oblongæ, erectæ, corolla breviores, connatæ in cylindrum.
- PIST. Germen intra calycem, sub receptaculo corollæ, hirsutum. Stylus fimplex, erectus, longitudine corollæ. Stigma oblongum, bipartitum, patens.

PER. nullum. Calyx immutatus.

SEM. unicum, oblongum, longitudine fere calycis, tectum lana Rec. nudum te for Botanical Documenta

JASIONE *. Rapunenter (catorna capit. 2.113.

819. Laty at allo. CAL. Perianthium commune decaphyllum : foliolis alternis inferioribus, flores plurimos pedunculi brevissimis adnexos includens, perfiftens.

Perianthium proprium quinquedentatum, germini infidens, perfistens. COR. Partialis pentapetala: petalis lanceolatis, erectis, basi connexis. STAM. Filamenta quinque, brevissima. Antheræ quinque, oblongæ, bali connexæ. PIST. Germen subrotundum ; infra receptaculum proprium. Stylus filiformis, longitudine corollæ. Stigma bifidum. PER. Capsula subrotunda, coronata calyce proprio, bilocularis. Sniphum tin ye nomen attemisic sniphi Rely. Sad. SEM. parva. Mugnia Petis, gryph 22.3 f.g. er 2.5 f. 4. ahteretty y'nd. 7.5 f. 2 idae plays en facing about conjust anome cal 1. flower, inhor on her Camadan Mult 12.297. f. 1. en Car un helydry why De Vaill qui aufait agunce inintelligibles

STNGENESI alobelia Shum eit 133. Lot. fratin 2 mil Bella modayum hem. 7.59 Brach. Recordthe autor and some and the and and and some and and and and and the south of the alt orat. PER. Copfala on catero 17 79. fol. portulare alt alg. SEM. Dura, ovat gulam valvulism CARDO 24 Long 18 SYNGENESIA POLYGAMIA MONOGAMIA; I plylle / upmy alter tube him toto file wantriand. hougher Eylal. 820. LOBELIA *. Plum. gen. 31. Dortmanna Rudb. A. S. 1720. Laurentia, Mich. 14. Rapuntium/Tournef. 51. Dill. elth. 242. Flos Cardinalis, CARDINALE. Riv. I: moval Rungh. 4 Oss, Stigma tel Wan 618 2.54. Auton enco. flow 2 ad & price amille of or all funty lim oresta () 822. IMPATI 160. Lastrait albo. non vitum mehe monephyllum las grantagshifther,

CAL. Perianthium monophyllum, quinquedentatum, minimum; germini circumnatum, marcescens: denticulis fere æqualibus, * margino reflexin: duobus superioribus magnis sursum spectantibus.

vel eft (in Tric

Vadile intaci for

CAL. Perianthi

minatis, aqu

Con. pentape

Petalum a

trifidum,

irregular

B. y. infima

J. y. interm

Nettarium

STAM. Filan

Pist. Gern

PER. Capfi

SEM. plura

OES. Defu

Capfula

Hel alt.

fl. lolit .

(alis 11 M

· Chan.

David server at

& Ba

curva. An

antheris b

lis in fpira

ore oblie

duis.

COR. monopetala, leviter ringens. Tubus cylindraceus, calyce longior, superne longitudinaliter divisus. Limbus quinquepartitus, laciniis lanceolatis, quarum superiores duce minores, magis reflexæ, profundius divisæ, constituentes labium superius: tres reliquæ inferiores magis patentes, sæpius majores.

STAM. Filamenta quinque, subulata, longitudine tubi petali. Antheræ connatæ in cylindrum oblongum, basi quinquefariam dehiscentem. conician.

PIST. Germen acuminatum, infra receptaculum demersum. Stylus cylindraceus, longitudine staminum. Stigma obtusum, hiftourcatan pidum. concassion.

PER. Capsula ovata, apice dehiscens, cincta calyce.

S E м. plurima, minima.

OBS. Lobelia Plum. differt à congeneribus Pericarpio carnofo, seu Bacca, quod in reliquis membranaceum est seu Capsula. Reputien fl. ringens. 1. lab. tuto him cillo capy . 3 loul.

jupentinise 821. VIOLA *. VIOLETTE, PENSE'E. Tournef. 236. Rive genainen ob topul V: 120-130. fol alt. attay, lat. involute 60 Paide Theles, dip. 2. petidanes inaque. "chirettanium. Her glit anill. velatibeli petioli interen sing 2 stip pre and all opp - interally interter Litaton ase Think 2m

prepariori CAL. Perianthium pentaphyllum, breve, persistens : foliolis ovato-oblongis, erectis, apice acutioribus, basi obtusis, supra basin colouble har 11 19 a. affixis, æqualibus, sed dispositione variis: quorum duo fulciunt all ettem colori petalum «. singula singulum petalum B. y. unicum duo petala d. E. in Nores Startin fimul. Upan inequality. Renget scal. Deale cost to COR. pentapetala : ringens : petalis inæqualibus ; quorum. calibiant, Petalum «. supremum rectum, deorsum spectans, latius, obtunus, emarginatum, definens basi in Nectarium corniculatum, obtusum, inter calycis folia prominens. B. y. lateralia paria, opposita, obtusa, recta. S. e. infima paria, majora, furfum reflexa. Recipting ma appendicibus annexis intrant nectarium. Antheræ feepius concantogua. nexæ, obtusæ, membranis ad apicem auctæ. solun angalatas Tenacon . PIST. Germen subrotundum. Stylus filiformis, extra antheras prominens. Stigma obliguum, inemen condum velashaunta autire 2. petete infriore calierate province filamente pore dorfiner Donata qui potent clues in cuevelle retale.

STNGENES Lobelia Muni eit 133. Lot. fratin 2 m Bella modayam hem 7.59 Brach Recorothe autores anders hugt govot hert tough Bella moders hugt govot hert tough Belg. (ater 1779. Fol. portutares alt arm. autor out proveds junta give gurunt. floralt orat. ater 1779. Fol. Long me and M. M. for war al conjust termine caline short. PER. Copfula on Catero 1 7 79. Fol. portulare alt cig SEM Blura, ovat Bulam valvulism CARDO BALLING SYNGENESIA POLYGAMIA MONOGAMIA; hougher By Con Const Wy ulate Store tuto him toto file ward in with 21 on Court of the first fine to faile and the faile mode and mode and the Moral Right of the State of the St Oss, Stigma treit hen 615 e 24 2 puty lim oreste () 822. IMPATI 160. Lasterit albo. non vitrum michi monophyllun las grantagshigthum.

CAL. Perianthium monophyllum, quinquedentatum, minimum; germini circumnatum, marcescens: denticulis fere æqualibus, * margino reflexin: duobus superioribus magnis sursum spectantibus.

COR. monopetala, leviter ringens T.1. longior, superne longitudinaliter tus, laciniis lanceolatis, quarum reflexæ, profundius divisæ, conf reliquæ inferiores magis patentes,

STAM. Filamenta quinque, subula theræ connatæ in cylindrum oblor. hiscentem. conicum.

PIST. Germen acuminatum, infra lus cylindraceus, longitudine stan pidum. concastuan.

con mon vingon lab inficalcariton ort. 2. any. Tuessan bali tuch' inlite Augusta 2. Council inseg Ricyst gum. orbitulity. capt. 1 locul 2 vals Sam min neur hela spalin a for altor sa Fitallin Utricularia Sgl- 134. A el B

then 1

cal. 2 phylle seg.

PER. Capsula ovata, apice dehiscens, cincta calyce. SEM. plurima, minima. Jocum

QBS. Lobelia Plum. differt à congeneribus Pericarpio carnofo, feu Bacca, quod in reliquis membranaceum est seu Capsula. Reputieur. fl. ringens. 1. lab. tuto Time cillo capy. Bloul.

jupentiniae 821. VIOLA *. VIOLETTE, PENSE'E. Tournef. 236. Rive gonacium ob tigul V: 120-130. " fol alt. attay, lat. invlite 60 Patiels I bules, stip. 2. petidane, inaque, He vente phinim amel in conver stipulo inelason conniversion vontre, source phile Hen glit anill. velocibeli petidi inester ping. 2 stip preaudul gra interalle institu "chirettanium. Litaton are Thenholder

Vindele intari for CAL. Perianthi minatis, aqu duis. Con. pentaper Petalum a trifidum, B. y. infima irregular 6. n. interm Neclarium ore oblic STAM. Filan curva. An Pist. Gern antheris b PER. Capf lis in fpira SEM. plura. OES. Defu Capfula & Bal

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prenaviorit CAL. Perianthium pentaphyllum, breve, persistens : foliolis ovato inter to-oblongis, erectis, apice acutioribus, basi obtusis, supra basin coloure har 11 Mya. affixis, æqualibus, sed dispositione variis: quorum duo fulciunt all el tem colori petalum «. fingula fingulum petalum B. y. unicum duo petala d. E. in Neres Wenter Cor, pentapetala: ringens: petalis inæqualibus; quorum. calibratt, limul. Petalum &. supremum rectum, deorsum spectans, latius, obtusius, emarginatum, desinens basi in Nectarium corniculatum, obtusium, inter calycis folia prominens. B. y. lateralia paria, opposita, obtusa, recta. S. E. infima paria, majora, furfum reflexa. Reapping ma appendicibus annexis intrant nectarium. Antheræ fæpius concontogua. nexæ, obtusæ, membranis ad apicem auctæ. soller angeleter Tenacon. PIST. Germen subrotundum. Stylus filiformis, extra antheras prominens. Stigma obliguum, inemen condum velachanda auttine 2. jutite infrime calierate primine filamente pone dorque Donata qui potent du cacelle retale.

SYNGENESIA POLYGAMIA MONOGAMIA. 325 SYNCE Confula ovata, trigona, obtufa, unilocularis, trivalvis, a generity form PER. Capfula ovata, appendiculata. Receptaculum lineare, per fin-SEM. plura, ovata, appendiculata. Receptaculum lineare, per fin-gulam valvulam lineæ inftar excurrit. Since and and a second contact gulam valvulam lineæ inftar excurrit. Since and and a second contact OBS. Stigma vel (in Martiis dictis) in hamum fimplicem reflectitur, the second OBS. Stigma vel (in Martiis dictis) contitulum concomments of the second of the second contact of the second contact of the second of the second contact of the second contact of the second of the second contact of the second contact of the second of the second contact of th vel est (in Tricoloribus dictis) capitulum, concavum, apice per-2 coly le ortrat o. 21 a putye

822. IMPATIENS *. Riv. IV: 146. Balfamina, BALSAglandula intali filim. MINE. Tournef. 235. Riv. IV : 145.

CAL. Perianthium diphyllum, minimum : foliolis subrotundo-acuminatis, æqualibus, versus latera floris positis, coloratis, deciduis.

COR. pentapetala, ringens: Petalis inæqualibus: quorum Petalum a. summum subrotundum, planum, erectum, leviter trifidum, apice acuminatum, labium superius constituens.

B. y. infima paria, reflexa, maxima, extrorsum latiora, obtusa, irregularia, similia, labium inferius constituentia.

S. n. intermedia paria, fimilia, opposita; ad basin a. exorta. Nectarium monophyllum, cuculi instar fundum floris recipiens, ore obliquum, extrorsum affurgens, basi in cornu desinens.

STAM. Filamenta quinque brevissima, versus basin angustiora, incurva. Antheræ totidem, connatæ, basi divisæ.

PIST. Germen ovato-acuminatum. Stylus nullus. Stigma fimplex; antheris brevius.

PER. Capsula unilocularis, quinquevalvis, elastice disfiliens valvulis in spiram convolutis. Jula SEM. plura, subrotunda, receptaculo columnari affixa. O B S. Deficiunt in aliis Petala d. n. in aliis Cornu nectarii.

Capsulæ figura differt : hinc Impatiens Riv. Capsula oblonga fuit? & Balfamina Riv. subrotunda.

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CARDINALE. RW. 1.

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Limbus quinqueparti

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a. Stigma obtufus, his

us Pericarpio carnolo, feu

E. Tournef. 236. Ruf

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s, bafi obtufis, supra bain mis : quorum duo fulcium - y- unicum duo petala d'. 11 are isosperally. Anter Suli init um foetras, litius, obtu-Macimum corniculatum, the colice off. main Zes petalo «. proxitim Ariber a Trentis mite fre myster anomis, extra antheras pro 1 mg Waraco. and the therenter and a section and and - to prove dagine Inste in rages 's relate ,

SYNGENESIA POLYGAMIA MONOGAMIA. 325 PER. Capfula ovata, trigona, obtufa, unilocularis, trivalvis, a generit reger SEM. plura, ovata, appendiculata. Receptaculum lineare, per fin-gulam valvulam lineæ inftar excurrit. Sind in stand 2 enterly curtain gulam valvulam lineæ inftar excurrit. Sind in stand of senting inter of Sentino rulus OBS. Stigma vel (in Martiis dictis) in hamum fimplicem reflectitur, stand. vel est (in Tricoloribus dictis) capitulum, concavum, apice per-2 chy un ortrade oforato putye

822. IMPATIENS *. Riv. IV : 146. Balfamina, BALSAglandula inbaii filion. MINE. Tournef. 235. Riv. IV : 145.

CAL. Perianthium diphyllum, minimum : foliolis subrotundo-acu--sus latera floris positis, coloratis, deci-

cal. 2 nhyll. ag. con mon ingon lab inficalcariton ort. 2. day. Turnen balitati intata Augusta 2. Camelling Ricyst gam. altertute. capt. I locul 2 vals Sam min meun hela spilling

A MON

And Radb. A.S. Annum Tournef. SI.

CARDINALE. Riv. 1.

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certiculis fere æqualibus

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Limbus quinqueparti

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erntes labium superius: tra

orgitudine tubi petali, An-

a, basi quinquefariam de

pezculum demeríum, Siy.

n. Stigma obtuium, hil.

us Pericarpio carnolo, fea

E E. Tournef. 236. Rife

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n eft feu Capfala

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us majores.

incta calyce.

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for altora Ditalla Utricularia Sgl. 134. A al B.

: Petalis inæqualibus : quorum protundum, planum, erectum, leviter atum, labium superius constituens. 1, maxima, extrorsum latiora, obtusa, ibium inferius constituentia. ilia, opposita; ad basin «. exorta. , cuculi instar fundum floris recipiens,

STAM. Filamenta quinque brevissima, versus basin angustiora, incurva. Antheræ totidem, connatæ, basi divisæ.

PIST. Germen ovato-acuminatum. Stylus nullus. Stigma fimplex; antheris brevius.

PER. Capsula unilocularis, quinquevalvis, elastice disfiliens valvulis in spiram convolutis. JULA

SEM. plura, subrotunda, receptaculo columnari affixa. OBS. Deficiunt in aliis Petala d. n. in aliis Cornu nectarii. Capsulæ figura differt : hinc Impatiens Riv. Capsula oblonga fuit ? & Balfamina Riv. subrotunda.

fol alt el gy anill

s, bafi obtufis, fupra bafin arus : quorum duo fulcium Ly_ unicum duo petala d'. 4 an isosquality. matthes; former, calibrat im Getters, Litius, obtu-Niemism comiculatum, in colice off and as petalo & proxirum Anthone Trentis matter for myster actus antheras pro In alle themation " & w Whate. 11 maine milana and we are the proved again Imile ". " in mou 's relate .

GYNANDRIA.

330

Class XX.

123. ORCHI

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preflum.

Carinis *

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PIST. Ger

824.

GYNANDRIA.

GYNANDRIA dignoscitur à reliquis situ Staminum in ipso Stylo, vel receptaculo elongato in formam Styli, pistillum cum staminibus ferente.

OBS. Primus Ordo hujus Classis, qui Diandria dicitur, Naturalis est, cujus genera, sola fere consideratione Nectarii, à se invicem differunt : quam notam Radici longe præferimus in constituendis generibus, licet à Botanicis antea non recepta fuerit. Structura fructificationis hujus Ordinis omnino singularis est. Germen enim semper contortum est. Petala quinque, quorum duo exteriora connivent sapius in galeam, cujus labium inferius Nectarium evadit, quod locum pistilli & petali sexti occupat. Stylus adnascitur margini interiori nectarii, ut cum stigmate suo vix distingui possit. Staminum Filamenta semper duo sunt, brevissima, ferentia totidem Antheras, inferne angustiores, nudas seu tunica carentes, pulpæ citri instar divisibiles. Hæ teguntur Cellulis totidem deorsum apertis, ipsi margini interiori nectarii innatis. Fructus Capsula est unilocularis : trivalvis, dehiscens angulis sub costis carinatis. Semina scobiformia, numerosa, affixa receptaculo lineari in singula valvula. Vires aphrodisiacæ omnibus his plantis ab omnibus Medicis adscribuntur.

Lector in examinando & conferendo Characteres nostros semper

in hac Classe tradat Pistillum ante Stamina, si alias distinctam idæam situs Staminum habere velit; nos enim ne ordinem semel receptum mutaremus, Stamina ante Pistilla descripsimus. Potuissem, si non debuissem, Callam, Arum & Ruppiam ad alias demandare Classes. Cum autem difficillime, nec ulla ratione certum numerum Staminum singulo pistillo adsignare aliquem posse puto in his Generibus', his consultius duxi ea inferere, quam tædium examinanti procreare. Singulares sunt Flores huius Classis & monstrofam ac inadsue-

tam præ se ferunt faciem, quæ sola à situ partium fructificationis insolito, respectu ad reliquas plantas, oritur.

) av ethula him Radia helbra velpalen. vel fihren fol. zaalin vayin. Hor pic squama 1. 2 stiget cal netor tubuloyun intra corolla funden, latio inferiore stylo ad water. avaium pontes Non and young and helle Equiparte . 5. hellebut though nin 6 mapital. finanting but can car , thiation monest Tubilina

GYNANDRIA DIANDRIA. 331 Stendoorship miche rab 26. Andricy grunnas rannuli daganugi et ayskalde cir le himodorum montan Elendoorship miche rab 26. Andricy grunnas rannuli daganugi et ayskalde cir le himodorum montan He andelso donte Auguste art and. 1705. Rob. 8

I. DIANDRIA.

823. ORCHIS *. Tournef. 247. Limodorum Tournef. 250. Joxy They hugh

CAL. Spathæ vagæ. Spadiæ fimplex.

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DRIA

quis fitu Staminum

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Diandria dicitur, Naturale

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tabiformia, numerofa, af.

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Childe"

is ad Cribuntur.

recepta fuerit.

Perianthium nullum. Germen florem suftinens.

COR. Petala quinque: tria exteriora, duo interiora, sursum conniventia in galeam.

Nectarium monophyllum, à latere inferiore inter divisuram petalorum receptaculo affixum. Labio superiore erecto, brevissimo : inferiore magno; patente, lato. Tubo pendulo, corniformi, pone prominente.

- STAM. Filamenta duo, tenuissima, brevissima, pistillo insidentia. Antheræ verticaliter, ovatæ, erectæ, tectæ duplicatura biloculari labii superioris nectarii.
- PIST. Germen oblongum, contortum, infra receptaculum floris. Stylus adnatus labio superiori nectarii, brevissimus. Stigma compressum, obtusum.
- PER. Capsula oblonga, unilocularis, tricarinata, trivalvis, sub carinis trifariam dehiscens, apice & basi cohærens.
- SEM. numerosa, minima, scobiformia.

Institute for Botanical Documentai

CAL. Spathæ vagæ. Spadix fimplex.

Perianthium nullum. Germen florem suftinens. COR. Petala quinque, ovato-oblonga, tria exteriora, duo interiora, furfum conniventia in galeam. Nectarium monophyllum, à latere inferiore inter divisuram pe-

- talorum receptaculo adnexum: labio superiore erecto, brevissimo : inferiore plano, pendulo, basi bursam scrotiformem pone exhibente.
- STAM. Filamenta duo, tenuissima, brevissima, pistillo insidentia. Antheræ ovatæ, verticales, tectæ duplicatura biloculari labii superioris nectarii.
- PIST. Germen oblongum, contortum, infra receptaculum floris. Stylus labio superiori nectarii adnatus, brevissimus. Stigma compreslum, obtusum.
- PER. Capsula oblonga, unilocularis, tricarinata, trivalvis, sub carinis trifariam dehiscens, apice & basi cohærens.
 - S E M. numerosa, minima scobiformia.

GYNANDRIA DIANDRIA. 332 825. SERAPIAS *. HELLEBORINE, Helleborine Tournef. ETITANTY. Dira. 249. 1

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PIST. Germen

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228. OPH

CAL. Spatha

Perianthisum

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829. LIM

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CAL. Spathæ vagæ. Spadiæ fimplex.

Perianthium nullum. Germen florem suftinens.

- COR. Petala quinque, ovato-oblonga, erecto-patula, sursum conniventia.
- Nectarium longitudine petalorum, basi excavatum, melliserum, ovatum, inferne gibbum, trifidum, acutum, intermedia cordata obtusa, basi cicatrice bisida tridentata.
- Sтам. Filamenta duo, brevissima, pistillo infidentia. Antheræ erectæ, sub labio superiore nectarii collocatæ.
- PIST. Germen oblongum, contortum, sub receptaculo floris. Stylus labio superiori nectarii adnatus. Stigma obsoletum.
- PER. Capsula ovata, verticalis, obtuse trigona, tribus carinis armata, trivalvis, sub carinis dehiscens, unilocularis.

SEM. numerosa, scobiformia. Receptaculum lineare, singulæ valvulæ pericarpii adnatum.

Entin/yer 826. HERMINIUM *. Monorchis Mich. 26.

genny en CAL. Spathæ vagæ. Spadix fimplex.

- a ophy/. Perianthium nullum. Germen florem sustinens.
 - COR. Petala quinque, ovato-oblonga, conniventia furfum: duo horum exteriora breviora.
 - Nectavium basi concavum, carinulatum, trisidum : lacinulis lateralibus brevioribus.
 - Sтам. Filamenta duo, minima, pistillo insidentia. Antheræ erectæ, tectæ margine superiore nectarii.

PIST. Germen oblongum, contortum, sub receptaculo floris. Stylus adnatus parieti superiori nectarii. Stigma obsoletum.

PER. Capsula ovato oblonga, unilocularis, tricarinata, trivalvis, fub carinis dehiscens.

SEM. numerosa, scobiformia. Receptaculum lineare, adnatum singulæ valvulæ pericarpii.

827. NEOTTIA ². Corallorrhiza Rupp. Nidus avis, WEATTIA Del. NID D'OISEAU. Tournef. p. 437. Tab. 250.

CAL. Spathæ vagæ. Spadix fimplex.

Perianthium nullum. Germen florem sustentans.

COR. Petala quinque, ovato-oblonga, sursum conniventia: duobus horum exterioribus longioribus.

Nectarium longitudine petalorum, planum, reflexum, obtusum, oblongum, integrum, ad basin utrinque denticulo instru-

Sтам. Filameta duo, brevissima, pistillo infidentia. Antheræ erectæ, sub margine interiore nectarii reconditæ.

Helleboine Tours GYNANDRIA DIANDRIA. 333 PIST. Germen oblongum, contortum, sub receptaculo floris. Stylus margini interiori nectarii adnatus. Stigma obsoletum. PER. Capsula oblonga, superne crassior, parum incurvata, rugosa; trivalvis, unilocularis, sub carinis tribus dehiscens angulis. SEM. numerosa, scobiformia. Receptaculum lineare, adnatum singulæ valvulæ pericarpii.

828. OPHRYS *. DOUBLE-FEUILLE. Ophris Min. Sovehiatten michili. onthe printig alla sonte is calean well radous quemore by petet integrue

CAL. Spathæ vagæ. Spadix fimplex.

ANDRIA.

Catinens.

a, crecto-patula, furíus

a cacavatum, melliferun

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trigona, tribus carios

aradam lineare, fingula val-

bigma obfoletum.

ens, unilocularis.

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torchis Mich. 26.

» conniventia furfum:da

m, trifidam : lacinulitat

infidentia. Anthera eretta,

fib receptaculo floris. Str-

Less, tricarinata, trivalvis,

ulum lineare, adnatum in-

hina Rapp. Nidus avis,

fum constitentia: duobus

mum, mederum, obtulum,

unanque denticulo infra-

ministernia. Anthers erec-

DET.

Teneral paralise

higma obsoletum.

Perianthium nullum. Germen florem proferens.

COR. Petala quinque, oblonga, sursum conniventia, æqualia: duo horum exteriora.

Nectarium petalis longius dependens, semibifidum, ad basin utrinque denticulo instructum.

Sтам. Filamenta duo, brevissima, pistillo insidentia. Antheræ erectæ, tectæ margine interiore nectarii.

PIST. Germen oblongum, contortum, sub receptaculo floris. Stylus margini interiori nectarii adnatus. Stigma obsoletum.

PER. Capsala subovata, trigona, obtusa, striata, trivalvis: unilocularis, angulis carinatis dehiscens.

SEM. numerosa, scobiformia. Receptaculum lineare, adnatum singulæ valvulæ pericarpii.

829. LIMODQRUM F. Gron. Virg. 110. Roy. Lugdb. U.S. Conta hellebonieref fruit

regentiony at grynunts)

CAL. Spathæ vagæ. Spadix fimplex.

Perianthium nullum. COR. Petala quinque, ovato-oblonga, subæqualia, patentia: su-Deltation intra petation infinieron perioribus conniventibus.

Nectarium monophyllum, concavum, longitudine petalorum. STAM. duo Filamenta corpus oblongum, ascendens, longitudine corollæ. Antheræ binæ ovatæ, antrorsum spectantes. PIST. Germen columnare, longitudine corollæ, sub receptaculo floris. Stylus filiformis, adnatus filamentorum corpori. Stigma infundibuliforme. PER. Capsula columnaris, trivalvis, unilocularis, angulis dehiscens. SEM. numerosa, scobiformia. CAE. St. Me mivertalis anongs, diplication valregilis compressions

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GYNANDRIA DIANDRIA.

830. CYPRIPEDIUM *. SABOT. Calceolus. Tournef. 249.

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or. Peta

dine & fig

Nectarium

TAM. Fila

umnari an

tulz. Steen

Pist. Stylus

Germen ov

Capitata,

PER. Basca

dens.

SEM. plutin

Receptacu

OBS. Gran

Murucup

Intryl

MEL . Ayeric

adnatu

engens

CAL. Spathæ vagæ. Spadix fimplex.

334

Frendlich

Perianthium nullum. Germen florem fustinens.

COR. Petala quatuor vel quinque, lanceolato-linearia, longissima, patentia, erecta.

Nectarium intra petalum infimum, calceiforme, inflatum, obtusum, cavum, petalis brevius, latius; labio superiore ovato, plano, inflexo, parvo.

- STAM. Filamenta duo, brevissima, pistillo infidentia. Antheræ erectæ, tectæ labio superiori nectarii.
- PIST. Germen tenue, longum, contortum. Stylus brevissimus, labio superiori nectarii adnatus. Stigma obsoletum.
- PER. Capsula ovata, verticalis, obtuse trigona: tribus suturis sub quibus dehiscit angulis suis, instructa : trivalvis, unilocularis.
- SEM. numerosa, minima. Receptaculum lineare, singulæ valvulæ pericarpii longitudinaliter adnatum.

831. EPIDENDRUM*. H. P. B. 207. Angurek Kampf. hun Sand Jap. 868. Vanilla VANILLE. Plum. 28. Hunder uniterne ad attri plantae innaliene Malt Lellan CAL. Spathæ vagæ. Spadix fimplex.

Perianthium nullum. Germen florem suftinens.

Cok. Petala quinque, oblonga, longissima, patentissima. Nectarium basi tubulatum, turbinatum, intra petala deorsum positum, ore obliquo, bisido: superiori labio brevissimo, trifido; inferiori in acumen producto.

- Sтам. Filamenta duo, brevissima, pistillo insidentia. Antheræ tecta labio superiore nectarii.
- PIST. Germen tenue, longum, contortum infra receptaculum floris. Stylus brevissimus, adnatus labio superiori nectarii. Stigma

obsoletum. PER. Siliqua longissima, teres, carnosa, coriana statua 1 bule 3 valu. SEM. numerosa, minutissima. regles. Jun nitod. ata. bestilia velte pariettes when atig. / epte un hogent. aunoras II. TRIANDRIA. Ele uson grace. Thay have

hisy notella . 832. SISYR HIUM *. Bermudiana Tournef. 208. Dill. elth. 41. f. 49. 48.

in Remisian didrft. rad flor to sphylle / quan laga wing them. CAL. Spatha universalis anceps, diphylla: valvulis compressis, carinatis, acuminatis. buster 1 pet achequilt of parter inter COR. Petala sex, oblonga, verticaliter ovata cum acumine, erecto-patentia, plana. STAM. Filamenta tria, brevissima. Anther æ inferne bisidæ, style ad cauly might ancip. See my Justin Ren Vana 13 the caulor and the fl. unbelle territe in proce conclair singuli legi proventati squama / un putte

ovan antium predunerale alwate inst? GYNANDRIA PENTANDRIA. 335 PIST. Germen verticaliter ovatum, sub receptaculo positum. Stylus Geffinens. Inccolato-linearia, longia. subulatus, rectus, corolla brevior. Stigma trisidum, reflexum. PER. Capsula verticaliter ovata, triquetra, trilocularis, trival-V15.

SEM. plura, subrotunda. in 2 oudre hing low hours and

IANDRIA.

Calccolus. Tournef. 240

calceiforme, inflatum, d

actions ; labio fuperiore ova

pistillo infidentia. Antha

man. Stylus brevifimus,

cefe trigona : tribus futuri

ructa: trivalvis, unilocul

ons lineare, fingulæ valvdæ

207. Angurek Kunf

coaling. flatt hellight

fima, patentisfima.

um , intra petala decim

arnors Labto breviffimo, in.

tillo infidentia, Anthere

ortiam infra receptaculum

o faperiori nectarii. Signa

man ghan 1 ho 300

- the star bratin alt quitty.

Tarraf. 108. Dill.

comprefis;

com acumine,

a mine bifidæ, Aylord

- 13 the carlos attak.

and approved in 12

you loga city the

arty & Detinite it

DRIA.

LLE. Plum. 28.

fuffinens.

a obsoletum.

833.

CAL. Perianthium quadripartitum: laciniis subrotundis, persistentibus. valut informe minfie warm butter deflemen COR. nulla. Mectanium comany constlaim on hier Shit. Art. p. 74.1.2 puter STAM. Filamenta vix ulla. Antheræ quatuor, apici styli adnatæ. PIST. Germen tenuissimum. Stylus subulatus, longitudine calycis. Stigma obtufiusculum. PER. Capsula oblonga, columnaris, truncata, obsolete quadrangularis, quadrilocularis, quadrivalvis, longitudinaliter dehif-

adanda fitras initantia larga terrida, cens. aprile. SEM. numerosa, acerosa, acuminata, capsula breviora.

-834. PASSIFLORA *. Granadilla, FLEUR DE LA PASSION. flores / warded Tournef. U.2. Dill. elth. 037-138. Murucuja Tournef. 125. Clematis Plum. rar. 79 - 90. folse deput de unde further baidy graten glandulas petiology longthe disatter / upin a/putate mortugen 1 flum 3 phyle his right align ciliateur for presente alatum for the desider folation et . CAL. Perianthium pentaphyllum, planum, coloratum, petalis forcenture conforme. COR. Petala quinque, semilanceolata, plana, obtusa, magnitu-

cingens, superne magis coarctata. STAM. Filamenta quinque, fubulata, ad basin germinis stylo co- styly cylind lumnari annexa, patentia. Antheræ incumbentes, oblongæ, ob-tufæ. stam a culle distanting over contigues PIST. Stylus columnaris, cylindraceus, rectus: cujus apici infidet Germen ovale. Stylisteres, superne crassiores, patuli. Stigmata capitata. when PER. Bacca carnosa, subovata, unilocularis, stylo elongato insi-, dens. SEM. plurima, ovata, membranula vestita singula. Receptaculum seminum triplex, cortici pericarpii longitudinaliter adnatum anlines . thypela style villed with overed alternas OBS. Granadillæ T. Nectarium fibris in orbem positis constat. Murucujæ T. Nectarium membrana conica, truncata constat. · Chatana, 21. amlenta July. Cal Sphys 1164 . ayenia Liun. Dayma informy lon spit. infites Delin Cat sphyl. nat percont On Spiti unquit longif apire aurena mectaria su cylowrottemin stern S entra nectarium art. 5 heura lab sapiribus arlaunce site quitry state que oting. 1. Captula S. I loud - 1 Spin ovan 1. that - 1. they sganable. Dayena Relative and conthe Caple ylab Slore - Scorea unustrata 5.1p. am il ling, love

GYNANDRIA DECANDRIA:

G

1

838.

CAL. Perim

coriaceis,

COR. Petala

Nectarium

STAM. Filan

ad bafin ge

PIST. Recep

margine p

filiformis

ER. Bacca

EM. HORR Vetomeles

19. CA

undatere

CAL. Spa

lorata , J

Spadix

Cor. null

STAM. Fild

ullorum

truncata

m l. a

Ruger

tectus

dum.

cula, int

pata.

W. HEXANDRIA. fot all more and the state of flastit. mille Riv. 1: 168 - 170. Malp. 135. 172.

CAL. nullus.

336

color Cor. Petalum unicum, inæquale: basi ventricosa, subglobosa; fexpuculata: Tubo oblongo, hexagono-cylindraceo: Limbo dila-

tato, inferne extenso in linguam longam, integram. Sтам. Filamenta nulla. Antheræsex, infra stigmata adnatæ, quadriloculares.

PIST. Germen oblongum, sub receptaculo, angulatum. Stylus vix ullus. Stigma subglobosum, sexpartitum, concavum.

PER. Capsula magna, sexangularis, sexlocularis.

SEM. plura, depressa, incumbentia. contre futer hogenlalter accuse

O B S. Fructus figura variat, aliis subrotundus, aliis longus.

836. PISTIA †. Kodda-pail HM. XI: 32. Plum. 39. Con. a. CAL. nullus.

cal Con. monopétala, inæqualis. Petalum cucullatum, turbinatum labio unico, obliquo, longo, latere plica flexo.

Sтам. Filamenta nulla. Antheræ fex, didymæ, pistillo sub stigmate adnatæ.

P1SI. Germen ovato-oblongum. Stylus corollà brevior, rectus. Stigma peltatum, obtuse sexfidum. 5212 M-

PER. Capsula ovata, basi attenuata, settocularis.

SEM. DOMININA, truncata.ovate Into pricaopo 1. Comen aum OBS. Cum Aristolochia plurima habet communia. Flatt.

HIM I. DECANDRIA.

IST. fing instraam Min HELICTERES * Isora Plum. 37. HM. VI: 30 Materia Ministration Market Schroepboonen CAL. Perianthium monophyllum, semiovatum, inferne angustum, Bay ci, brev ER. Baco DEM. plura OBS. Cum oblique, patens, (ut auris quadrupedis), apice tridentatum, lateribus unidentatum, coriaceum. gula Pift. Mun bent COR. Petala quinque, oblonga, latitudine æqualia, receptaculo que floris 1 pet. ptallebaci affixa, calyce longiora. Ex Muquino . Con quando que nulla vel Spet. non distin Nectarium foliolis quinque, petaliformibus, lanceolatis, mininumerum2 mis, germen tegentibus. rem Stam STAM. Filamenta decem, brevissima, ad basin germinis. Antheræ In aliis Sp oblongæ, laterales. PIST. Stylus filiformis, longiffimus?, recurvus, apice gerens partite Sinter Germen Inbrotundum. Stigma fimplex, acutum. PER. Capfulæ quinque; fpiraliter intortæ, uniloculares. him Inder; oblongæ, laterales. tis. In bus tes MSS cal. 1 ph SEM. plurima, reniformia, haba ulin toria, Gui 6 pe that is pite off alt minile mon ut. lestil VII. PO-Drupa Aucher ? fliate

GYNANDRIA POLYANDRIA. 337

VII. POLYANDRIA.

CANDRIA

DRIA

Lp. 135. 172.

STOLOCHE. Tournef. 71.

26 ventricosa, subglobola

no-cylindraceo: Limbo di

and integram. Anginata adnata, en

pracalo, angulatum. Style

purnum, concavum.

mites faiting his pulletter aurice

anandas, aliis longus.

M. XI: 32. Plum. 39,

cuchllatum, turbinami

, piftillo fub figma-

er corolis brevior, name

argen Johnen aumini

37. H.M. VI: 39

the has he chance Light Ochride

owatum, interneingutum,

edits), apice mientatum,

adare zgala, receptaculo

Con growing you can end speek.

emibus, Incedatis, mini-

ad Bain gaminis. Anthers

apice gerens

oculares, has july

NST. 11

Prop Para

312 pl.

locularis.

communia.

DR

exloculatis.

GREWIA *. H. M. V: 46. Coundi. h.m. ad. -838.

CAL. Perianthium pentaphyllum : foliolis lanceolatis, erectis, coriaceis, interne coloratis, patentibus.

COR. Petala quinque, figura calycis, sed minora, basi emarginata.

Nectarium fit è squamula, singulo petalo ad basin inserta, crassiufcula, incurva, inclinata ad marginem, stylum cingentem.

STAM. Filamenta numerofissima, longitudine petalorum, setacea, ad basin germinis inserta. Antheræ subrotundæ.

Pist. Receptaculum columnare, erectum, elongatum, cinctum margine pentagono, terminatum Germine subrotundo. Stylus filiformis, longitudine staminum. Stigma obtusum, quadrifi-

1. 2 ad 4 lota inalis per Baren 2. Dittinuter basi mutige coalite dum. PER. Bacca quadrangularis, quadrilocularis.

SEM. nonnulla, globofa sing based Minul 1. mondelide. 2 loud. 2/pum. In structure and filet. 839. CNLA *. Provenzalia Petit. gen. p. 45. Arifarum 15 mai flom. fl. undeter invlite 10 Riv. Anguina Trew. alem auplatent.

CAL. Spatha monophylla, ovato-cordata, acuminata, superne colorata, maxima, patens, persistens.

Spadix digitiformis, simplicissimus, erectus, fructificationibus tectus.

Cor. nulla. 12 a 012 My ling manum. STAM. Filamenta nonnulla, germinibus intermixta, longitudine piftillorum, persistentia, compressa, truncata. Antheræ simplices, glob. 2 loud. truncatæ, sessies. in one pine taminte patiente fott munche Mentertaine Tree, PIST. fingula constant Germine subrotundo, obtuso. Stylo simplici, brevissimo. Stigmate acuto, han lun

PER. Bacce totidem, tetragono globose, pulpose, uniloculares: SEM. plura (6 ad 12), oblonga, cylindracea, utrinque obtusa. Mandatte infor OBS. Cum in singula Bacca plura fint Semina; sequitur quod sin- Embio subictur gula Pistilla ad totidem pertineant Flosculos, nec unius ejusdem- bali amme aut que floris partes sint ; cum autem Perianthium & Corolla deficiens infamine, 1 ctyles non distinguat Stamina, difficile est singulo flosculo certum corum hand hart numerum assignare. Conjecturando ab analogia Palmarum crede-conten pretante, rem Stamina sex in singulo flosculo esse numerum appropriatum. De funities In aliis Speciebus Spadix tegitur totus Staminibus & Pistillis mix Danut de tis. In aliis verò inferius tantum, superius autem solis Stamini- future A. folum bus tectus. 1165 Xylopia ting Xylopicon. Brossin. Jun 7.5 f. 2 Shift Myt 234 14. 1.183 cal 1 phy & all A fil. canyanif. ? anne youry faite male description Con Gret. Cell. yent maj. ovan 1. authout tectum . Atyl 1. Hog 1. lingle cross or out get I rectant matering religing avanually Drupa glabiliaa rostonta Ular I In. nucleur 1. /ulgbb. amogg datino glutinowy cumpy fol alterfairy arrence angut for the plusing a 26 and . cargette. Kuni mt.

338 GYNANDRIA POLYANDRIA, 338 une beter involite ai @ antime aquentin in pitiole mentione recipinte.

RU

Spadix fubul

COR. nulla.

ITAM. Filame

longitudinali

list. Styli

Stigmate firm

PIR. Gorter

1885 , NUM

IN. Iolitarie

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Salin etca

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avant

and fole The lot an

incurvatus

840. ARUM *. PIED DE VEAU. Tournef. 69. Riv. 1. 178. 179. Malp. 184. Arisarum Tournef. 70. Colocasia Boerh. 2. p. 73. Dracunculus, SERPENTAIRE. Tournef.

beli voginansp CAL. Spatha monophylla, maxima, oblonga, basi convoluta, apice connivente, ventre compressa, interne colorata, decidua. Spadix clavatus, fimplicisfimus, Spatha paulo brevior, coloratus, marcescens supra germina.

COR. nulla.

ratis

Sтам. Filamenta nulla, nifi Nectaria basi crassa; definentia in Cirros filiformes duorum ordinum è medio spadice egredientium dicas. Antheræ plurimæ, sessiles, quadragonæ, cirrorum duplici ordini interjectæ, spadici adnatæ.

PIST. Germina plurima basin spadicis vestientia, infra stamina collocata, verticaliter ovata. Styli nulli. Stigma villis barbatum. PER. Baccæ totidem, globosæ, uniloculares.

SEM. plura, subrotunda.

OBS. Mira floris structura & fine pari, quæ Botanicis Summis disputandi materiem præbuit. Vide Tournef. Malpig. Dillen. Rivin. &c. Receptaculum elongatum in clavam nudam, germina ad basin retinens, Stamina intra germina, miraculo naturæ, receptaculo affixa, filamentorum elevantium ope minus indigentia : hinc flos inversus dici potest. Quid sunt cirri isti sub filamentis commemo-

T. Foliis sagittatis integris à Dracunculo separatum crefting Arum fuit. sette tonoren pl

Dracunculus T. Foliis multifidis ab Aro distinctus fuit. Flava B incluin heisetty fried in Arifarum T. Spatha apice bifido, incurvo. Spadice incurvato. centra conterrer Antheræ filamentis innizæ sunt, his leviter recedit ab Aro, di-B. cglo Leoby admin experiente n'april Marocotyledon est healt, et miki, aver Longoura filio. Balca I bail. 1. pera (g. ab an experiente n'aper Mareto) (em. 1. glob. baci annens enect. Semivilien colputente auto contra alter auto contra in (g. ab an

. Mafall 841. Moustern avan Do RevA CO.M. M. M. U.A. Rad-eyte udra first autoritation fl. paro. Thur lat. 4, human 1.38 por CAL. Spatha cymbæformis, coriacea, univalviš, maxima. AL. Peria uperius at OK. mono Spadix simplicissimus, cylindraceus, brevissimus, tectus fructifiquadripart cationibus in capitulum digestis, quarum singularum Filan Perianthium proprium nullum, nisi corollam dicas. Cor. Propria pentapetala, concava: Petala ovata, obtusa, Femmen æqualia, colorata. CAL, nullus. 'S т A M. fingulis Filamenta septem, linearia, depressa, erecta, æqua-Cor. nulla. lia, corollula longiora. Antheræ quadrangulæ, didymæ, oblon-PIST. Germ gæ, obtusæ, erectæ. ta fimplicia PIST. Germen subovatum. Stylus teres, rectus longitudine stami-PER. Capful num. Stigma obsoletum, trigonum. DEM. OVATO PER. fingulis Bacca subrotunda. are francisco Jouran alga of grunn bagi Custo carrier 1057. Pothor. HIL 529. Runch amb. 5 2.181-184 padin de alters laton fluctifore, altrephil Spatha glob altablaton hian cd. maleu fadin her limpl. glob. refler, catoo At I dit alt. Cal 4 phyll. on o' la Vour I /dit alt. Con . o. Romi alt. and followili tuten hand hidre undo rauniteret flight dittaka retiolo alate aumiter 2. ordinun que mangula). from

AND RIA. Elaterium & carthe general lacq. Monoic. Cal de q. nully. Con utity. Int. hypotration Stam In capi. 1. buil 2valu. Som armef. 69. Riv. 1. 178. a famil. pliti. . 70. Colocafia Boerh. MONOECIA MONANDRIA. 332 corallina finiculi plio busci hut 571. These finilacery. lob.ic. 255. IRE. Tournef. mant 842. RUPPIA +. Bucca ferrea Mich. 35. Enhinn lyst. est of at main nature sain your, hand alt est angelindrad hernagthon faith -842. onga, bafi convoluta, api. trae colorata, decidua. CAL. Spatha præter vaginas foliorum vix ulla. the paulo brevior, colora. Spadix subulatus, simplicissimus, rectus, maturescente fructu incurvatus, fructificationibus distice obvallatus. COR. nulla. A cuilia bus craffa; definentia in STAM. Filamenia nulla. Antheræ reniformes, bivalves, plures, cim spadice egredientium longitudinaliter affixæ. PIST. Styli tenues, capillares, singuli gerentes Germen ovatum. vaua 4. congooiz, cirrorum duplici Stigmate simplici. Son 4 provellate. PER. Gortex ovatus, acuminatus, obliquus, stylo elongato insiconcentia, infra ftamina col. dens, sumero pistillorum. Seignaz villis barbatum, SEM. solitarium, subrotundum. a michton maculi faminey minti. prica folit analis from energy, pediniulata. aathing could to to write unguit 1-louds the morph ales tranger ette captula filicum Ichile, H. fruien or and 4 inter Claffis XXI. approvat. 1. lou 1. 2p. petrot, Heg. o-thy turnet ally. na Botanicis Summis difou. Malpig. Dillen. Rivinde. calin et con uting. mulla. him ad arven venit. indi ad Potamyeten. En I - jullion melle autarity ben Dolant led flores 2 ling pice linguli 4 auterity alliting circa 4 tom, germina al bajareti-- And pyliquilate login the matur a, veceptaculoff, manus indigentia : him for ta an flamentis commano-MONANDRIA. ia à Dracmaculo (eportant) itute for najade. Vall enheu / upt. wat o diffinitius fait. -843. NATAS T. Fluvialis Vaill. A. G. 1719. t. I. f. 2. Divice elles neuroa. Spadice inprvato. I was som man Alther and the series on vagine in sugine rithe water cauli appliet.
I was for ally all rights in me flar advise butical bagrance of the provise rithe and series in the series of the ser enmi leveter recedit ab Ao, dian plan pairs (ball . How (id , and ig. more superius attenuatum, ore lacinus duabus oppositis, reflexis. Inter prity Rebails quadripartitus : laciniis oblongis, revolutis. unevalviš, minimi STAM. Filamentum nullum. Anthera oblonga, crecta. un and and some will stern inter of the first fairs and find the Anthe for anter production of muneum *. Femineus. for while in a plant, adarille film. wewplamus, techas fructifiarolin cox Perate orati, obtufa, velp and Binacq. Stai in heaticulation majori chymne . CAL. nullus. Septre lylus 1. ad-4. May me leter a thighis non Artineta, COR. nulla. ma, derrella, erecta, æqua. PIST. Germen ovatum, in Stylum attenuatum definens. Stigmadamair, dayme, oblorta simplicia, persistentia. +poly i al sail. A PER. Capfula ovata. 1 lovel. a A loud. anne 1. bul. 1. Jum in fres fl. Scuttured Conches longitudine ftani-- Carate can ey. amour and the Reduce R instery vaginante any is again the the with cunter annue to the the the city was inster any in the state of SEM. OVATO oblonga. 1 ling locovat: annene walt. Empro recting 1. wty how have Ciratistay o phyllofte Cours . Juntefly con o. long manie inget in hogethis att end / printy. dein 1. Densing computture out long Jutana lagtitinte. 2 corrected correct unt 2 culores Indine. A. S majulibell' ad uselly ramarin flor 7. fundning for ala.

MONOECIA MONANDRIA,

340

E. g. 2)

" find aliti.

alguettes naturest 'al. 844. ZANNICHELLIA. Mich. 34. Algoides Vaill. A. G. 1719. t. 1. f. 1. Aponogeton Pont. anth. Graminifolia

O talagues values for it linen alma quite in plant aller flie of I soile to an very himiter receive cyle alt. Enter plane quite in the alleren flie of I soile to an very himiter receive cyle alt. flor majora four interests stat. en als enupertes follorule turtrate whaten *. Masculus Flos inen anille flinter of vegin twent whether of our of the states CAL. nullus. det grant to trange ab ejulation infectorien gues abover in close COR. nulla. infectorien que abward in chequesa. COR. nulla,

*. Mafculi in

LAL. Gluma b

COR. Ghuma

Nettaria duo

IAM. Filame

locularés, an

*. Feminei 1

liis obtech

1. Gluma

milimis, es

B. bivalvi

s T. Germ

Stigma fim

ER. nullun

vatum, in

& corolla

IM. folitar

compresia.

47. COD

iteria

ubus.

calveis.

STAM. Filamentum unicum, fimplex, longum, erectum. Anthera Ovata. 2 - famile admite of 2 Crub & fulca. 2 wahr don ruby spice

*. Femineus juxta masculum florem inded dagin and primer outry and CAL. Perianthium monophyllum, ventricosum, bidentatum. COR. nulla. 31 in She Artinita legiton helpstrulita PIST. Germina fonnulla, corniculata, Styli totidem, simplices, patentiusculi. Stigmata ovata, plana, patentia. PER. nullum. vanta 3207

SEM. totidem, oblonga, utrinque acuminata, hinc gibba, cortice tecta. Ingula I loude 1. Jour fer ovato myno eretto, antoula techen Julying.

Sealys E united and a later the organ polular and they in 2/11/ in theting in bast the high and a later the literation of the annens wetty fitte apieur spice spice spice spice spice of the spice of th I 2. allerman Drobanchy YNOMORIUM Mich.

anut po foti, (quame) cuthenta, Ladrig for caption *. Masculi Flores in amentum cum femineis digetti. rentour mysti CAL. Amentum erectum, undique imbricatum, compositum. Latomi. Squamis unifloris, oblongis, erectis, truncatis, inferne, anguapen baulo statis, hinc gibbis, inde cavis. Entium at ultime cal 41 hyin Cister forbolen ground Cor. nulla. with asour oran includ. flaster STAM. Filamentum unicum, firmum, rectum, squama calycina otain !. longius. Anthera didyma, martineid.

ungers/ marana takapasetre

Ex mithe quana 1. prany for ventre concera days conversa. *. Mascul hermydettet *. Feminei Flosculi masculis mixti, in eadem planta, vixque ab AL. Gluma iis remoti. muticis; 6 CAL. Amentum commune cum masculis. or. bivaly Squamula nulla excepti, præterquam à foliis plantæ, vices squatenuifimæ me gerentibus. quaina biant. ana Myste aniven SIAM. Filan COR. nulla. PIST. Germen globofum. Stylus unicus, erectus, firmus, patens, *. Feminei longitudine squamæ calycinæ. Stigma obtusum. attpuero-CAL. Gluma PER. nullum. duris; ext SEM. unicum, subrotundum, undum, Cor. bivalvi amplither custoidy. Vat Canton des capp. 2 touls prhyp Lurotian minor; ut Devotion for alt piles tattate ani. Spiny merei a ryng gladesti Pist, Germ flor pitate angille wateringel Cal unal Striphing the pour potante 1 pm 2 grhyt mata duo PER. nullu ovan 1. thyle - 2. 1359 2. nitet, dec Sam 1. Ent glob