NIXUS PLANTARUM.

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TYPIS J. MOYES, CASTLE STREET, LEICESTER SQUARE.
ORDINATIONEM plantarum naturalem dictam magna parte artificiosam esse omnibus notissimum est.

Classes equidem primarii characteribus physiologicis freti, vere naturales evadunt basesque immutabiles systematis constitunt. Ordines etiam, specierum structurœ congruentia strictissime limitati, maxima pro parte naturales sunt, nec ansam praebent censori.

Sed omnes reliquœ subdivisiones, quœ medium tenent inter classes et ordines, his superiores, illis inferiores, omnino veris affinitatibus repugnant; genera proxima sejungunt, et diversissima in eadem vicinia male collocant.

Nec sunt sententiae Botanicorum magis inter se conformes quoad classium subdivisiones. Altera parte Jussœi habemus methodum antiquiorem simplicissimam, Candollii mutationes, nostramque analyticam, quæ omnes ex professo artificiales sunt; ab altera Agardhii opera æstumatissima Bartlingiique, qui viam ad meliores res aperuerer; neenon Reichenbachii conspectum Schultziique ordinationem, quorum iste pessime hic melius affinitates veras plantarum perspexit; ut taceam de aliis.

Re ita se habita, talique Botanices Systematicæ statu, longe majoris videtur momenti systema naturale perficere, divisiones intermedias quæ haud minus naturales erint quam primariae et ultimœ instituendo, quam novos ordines proponere, de quorum dignitate, systemate ipso imperfecto, vix judicandum est. De die in diem numerus ordinum adeo augetur, ut novum chaos oriturum vix dubito, si longius aciem disponere cunctemur.

Non ille sum profecto qui tale officium libenter susciperem; nec si quis esset inter illos scientiœ magistros qui nostris diebus tanta luce inclaruerœ, qui sedulo animum in hoc studio convertisset, unaquam suscepissem; fauna enim vix speranda est, vituperatio potius timenda, in incepto quo tot tantique viri jam succubuere. Sed periculum imminet, tota scientia mole ruit sua; nec video ullam aliam esse spem salutis, quam omnes partes systematis artificiosas rejiciendo, novamque ordinum distributionem vere naturalem substituendo. Si nullum in systema naturale perficiendum conamen hucusque feliciter evenit,
persuasum mihi habeo in eo est, quod sepium proposita quaedam Jussieana de characterum valore pro certissimis habita fuerunt, quae nihilominus inter fallacissima habenda sunt. Talia presentim sunt *perigynesis* et *hypogynesis*; characteres equidem utiles, et pro gene-ribus vel etiam ordinibus stabilendiis graves, sed vix affinitatum ulteriorum indicia, nec nisi rarissime ad subdivisiones classium idonei.

Characteres hujusmodi, scilicet hypogynesis et perigynesis, inter Jussieanos fundamentales, meo sensu sunt quam maxime lucidi, ut non dicam dolosi. *E. g.* Mimosas habemus hypogynas inter Leguminosas sepium perigynas, tot Saxifragearum hypogynas quot perigynas, Caryophyllarum genus Larbrean perigynam medio turbe hypogynarum, plurimaque alia cuique Botanico cognita; nec intelligendum est quare adhesio filamentorum cum tubo calycis, sese quasi vix detegenda, tanti sit momenti ut formas dirimet aliter simillimas.

Nec minus gravis est error millies repetitus, characterem dare sectionem, nec sectionem characterem. Num dogma illud recipientium sit omnino ex natura characteris pendere videtur; character si fundamentalis, absolutus est, et sectionem definit; si levioris sit ponderis, ad sectiones limitandas parum est idoneus, et rejiciendus. *E. g.* endogeneitas est character Endogenarum; quis Smilacem Dioscoreamve his expelleret, quia facies earum est Menispermi vel Euphorbiaceae cujusdam? Praetera affinitas, methodi naturalis fundamentum, nihil est nisi characterum congruentia essentialium, ut *analogia* accidentalium.

Quid igitur essentiale? et quomodo inter diversos gradus characterum distinguaranus? Ecce difficultas; non verbis, sed experientia sola solvenda. Dictis eorum minime assentio qui characterum valorem a priori determinandum putant, et gradum dignitatis gradui evolutionis parem statuunt. E contrario, hoc solum pro certo habemus, characteres physiologicos nullis postponendos, ut sexus presentia vel absentia, germinationis vel crescedendi modus, et anatonia interna truncorum; omnesque alios, sive e floris structura, sive fructus, sive seminum aliorumve partium, nunc graves nunc leviore esse in diversis regni vegetabilis regionibus, ob causas hucusque om-nino ignotas. Verbi causa, epigynesis florum inter Compositas absoluta est et omnino illis plantis essentialis, Ericeis minoris est momenti Vaccinio teste, Saxifrageis nihil est; albuminis magna copia embryone minimo comitata, divisionem primariam Dicotyledonarum polypetalarum constitucere videtur, sed inter Monopetalas mere est accidentalis, ut Orobancheis Pyrolaccisque probatur.

His praemissis, verba paucissima dicam de systemate.
Nullam existere sectionem limitibus certis et absolutis circumscriptam plurimis auctoribus visum est; speciebus solis characteres limitatos pertinere asseritur; vix autem recte. Notae physiologicæ omnes videntur absolutæ, v. gr. sexualitas et esexualitas, endogenesis et exogenesis, gymnospermes, etc.; characteres et structura derivati soli sunt qui vacillant. Hi, physiologicis inferiores, nixus varios plantarum tantum exprimunt, nunc in unam speciem evolutionis tentantium, nunc in alteram; talium quidem definitiones nullæ, diagnoses solæ adhibendae. Horum nixuum characteres ita dieti nihil sunt nisi indicia formarum prævalentium quæ in typis inveniuntur: exceptionibus abundant, "ad characteres autem," ut bene dixit Agardhius, "non au ad affinitatem pertinentibus." Plantæ quæ ideæ nixuum maxime sunt conformes characteribus sectionis omnino respondebunt, quæ maxime aberrant minus, imo minime; sic Onagrales quæ polypetalæ sunt Halorages comprehendunt apetalas, Ericalesque hypogynæ Vaccinia epigyna. Talium ordinum characterem maxime essentiale latero possibile est; sed usque dum melior detegatur, solus est quo utamur. Hoc autem mihi maxime persuasum habeo, eum laborem Danaideum tentare qui Naturam in externis immutabilem apprehendere molitur.

Dispositionem dichotomam omnium naturalissimam esse, et unicam veram posuit Friesius; ex hac quaternarium derivari apud omnes constat; quinariae autem, quam indicavit acutissimus Macleay, necessitas minus manifesta est, existentia imo ejus diu me effugit. Fanduum autem est, series affinitatum quas in systemate nostro maxime sunt naturales, sapius in ordinem quinarium, me invito, collocari.

Circulos magis minusve clausos veras affinitates plantarum exprimere, ut bene exposuit Friesius, sepissime inueni, nec dubito quin revera sit hæc lex affinitatis lapis lydiius. Nibilominus circuli plurimi adsunt adhuc imperfectissimi, quorum forte quidam semper incompleti erint, ex ipsa rerum natura; aliæ, et maxima pars, mox perficiendi, ut experientia quotidiana docuit. Studium sit Botanicorum saltus hos, vel si mavis hiatus, perite replere; sic enim labore in punctum unicum directi ad scientiæ perfectionem pertinebunt; sic vera sectionum dignitas, sic vera nixuum relationes patefactæ erint, et Regni Vegetabilis Systema nomen Naturale jure sibi vindicabit.
NIXUS PLANTARUM.

Singula sphæra (sectio) ideam quandam exponit, indeque ejus character notione simplici optime exprimitur. Fries.

CLASSES.

Sexuales  
I. EXOGENÆ angiospermae.  
vasculares  
II. GYMNOSPERMAE.  
evasculares  
III. ENDOGENÆ.  
IV. RHIZANTHEÆ.  
V. ESEXUALES.

Hi circulum formant, cujus centrum sunt Exogenæ et Endogenæ, et punctum commune Esexualæ. Ordinatio hujusmodi:

Exogenæ, Endogenæ, 
Gymnospermae, Rhizanthææ, 
esexualæ.

Exogenæ in Endogenas abeunt per Smilales, in Gymnospermas per Piperales; Gymnospermae in Esexualæ per Equisetum et Cycadem; Esexualæ in Rhizanthææ per Fungos; Rhizanthææ in Endogenas per Aroideas: sic circulus completus.
Classis I. EXOGENÆ.

Subclasses sunt

\[
\begin{align*}
&\text{Completae}; \quad \text{calyce corollaque perfectis; v. saltem calyce altius evoluto si petala desint; abeunt in} \\
&1. \text{POLYPETALAE.} \\
&2. \text{INCOMPLETAE; corolla nulla; calyce sæpius parum evoluto v. omnino deficienete.}
\end{align*}
\]

Exogenarum nulla inventa est divisio magis nature consentanea quam illa qua e floris evolutione diversa pendet: revera characteres haud semper constant, et difficilias oritur e generibus alioquin omnino ordinibus polypetalis pertinentibus in quibus nihilominus petala deficiunt, et similibus. Coordinatio tamen his principiis fundata omnino naturalis est, si rite perspiciantur.

Meco sensu omnes ordines quibus sunt organa floralia herbacea depauperatave 
Incompletis pertinent, non obstante duplici horum organorum serie—quaes sunt Menispermeæ; nec a polypetalis repellendi ali, quales Euphorbiaceæ, quibus petala colorata sæpissime adsunt, quamvis genera quædam Europæa usitatiora petalis carent. Genera polypetala, quæ ob petalorum cohesionem monopetala simulant, ægre equidem distinguenda nisi affinitate et eo quod petalorum bases parum adherent; hoc autem, si rite observetur, difficultatem diminuit—in veris monopetalis styli rarissime dividuntur, et pistilla raro apocarpa sunt; dum fere omnes polypetala quorum petala cohærent sunt apocarpa; v. g. Meliaceæ, Diosmeæ, Malvacææ, Crassulaceæ, Anonaceæ, Leguminosæ, &c.

Subclassis I. POLYPETALÆ.

Cohortes sunt

1. ALBUMINOSÆ; embryone albumine multoties minore.
2. GYNOBASICÆ; carpellis circa axin elevatum perductum ordinatis.
3. EPIGYNÆ; ovario infero, sæpius disco epigyno. (N.B. Huc pertinent genera quædam hypogyna* diplostemoneæ, calyce longe tubuloso: laciniiis depauperatis.)
4. PARIETALES; placentis parietalibus.
5. CALYCOSÆ; calyce incomplete verticillato: sepalis 2 exteriariibus.
6. SYNCARPÆ; characteribus nullis præcedentium; sed carpellis confleruminatis.
7. APOCARPÆ; characteribus nullis præcedentium; sed carpellis distinctis, v. facie separabilibus, v. solitariis.

*Hoc libello omnia genera hypogynea dicuntur quibus ovarium superum, et epigyna quibus inferum; ergo hypogynesis nostra = perigynesin et hypogynesin aliorum.
Seu

**A**pocarpaceae (rosales) **A**lbuminosae (saxales)

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(rocagales) **M**alvales

---

**E**pigynae (cucurbitales)

---

(passionales) **C**istales

---

**P**arietales **C**alycosae (guttales)

---

(geraniales) **G**ynobasicae (rutas)

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**C**ohors I. **A**lbuminosae.

**N**ixus 1. **R**anales. Apocarpaceae, herbaceae, v. placentis saepere parietalibus.

Tri-pentamarce, aquosae

1. Ranunculaceae.

1. § Sarracennicæ.

Di-tetramerse, sepius lactifluse.

2. Papaveraceae.

2. § Fumariaceæ.

Vitellosea.

3. Nymphaææae.

3. § Podophylæae.

Cryptocarpaceae.

3. § Hydropeltideæ.

Perigynæ.


5. Cephaloteæ R. Br.

**N**ixus 2. **A**nonales. Apocarpaceae, lignosae.

Unisexualæ, trilobae


Stipulataæ, impunctataæ.

7. Magnoliaceæ.

Stipulataæ, punctataæ.

8. Winterææ.

Exstipulataæ, tripetalæ.


9. § Schizandreae Bl.

Exstipulataæ, pentapetalæ.

10. Dilleniaceæ.

**N**ixus 3. **U**mbellales. **E**pigynææ, umbellataæ.

Dicarpaceæ.

11. Umbelliferae.

Pleiocarpaceæ.


**N**ixus 4. **G**rossales. **E**pigynææ, racemosæ.

Parietales.


Centrales*, polyspermeæ.


Centrales, oligospermeæ.

15. Bruniaceææ.

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* i. c. placentis centralibus.
Nixus 5. **Pittosporales.** Hypogynæ, centrales.

- Oligospermae, biloculares . . . 16. Vites.
- Polyspermae, pluriloculares . . . 17. Pittosporae.
- Schistopetalæ, asymmetricæ . . . 18. Olacineæ.


Cohors verosimiliter omnino naturalis; etiam characteri essentiali conformis, si Nelumbium exalbuminosum excipias. Dionæa sola alienigena videtur; forsitan punctum commune Pittosporalium adhuc incompletarum, inter quas omnino analoga est cum Cephaloto in Ranalibus, Adrastæa? in Anonalibus.

Non obstantibus ordinibus quibusdam deficientibus, cohors circulum fere clausum efficit. Ranales in Umbellales abeunt per Thalictrum; Umbellales in Pittosporales per Leeam; Pittosporales in Grossales per Vitim et Billardieram; Ranales in Anonaldes per plurima genera. Series affinitatum fortasse sequenti modo exponenda est;

<table>
<thead>
<tr>
<th>Magnoliaceæ</th>
<th>Ranunculaceæ</th>
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<tbody>
<tr>
<td>Winteræ</td>
<td>Papaveraceæ</td>
</tr>
<tr>
<td>Anonaceæ</td>
<td>Nymphaeaceæ</td>
</tr>
<tr>
<td>Myristicaceæ</td>
<td>Nelumbonæ</td>
</tr>
<tr>
<td>Dilleniaceæ (Adrastæa) Cephaloteæ</td>
<td></td>
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- (?Dionæa)—

<table>
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<tr>
<th>Escallonieæ</th>
<th>Bruniaceæ</th>
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<tr>
<td>(Titsmannia)</td>
<td>Pittosporæ Umbellifere</td>
</tr>
<tr>
<td>Grossulaceæ (Ribes)</td>
<td>Vites (Leea) Araliaceæ</td>
</tr>
</tbody>
</table>

(Obs. Genera annectentia literis cursivis indicantur.)

**Cohors II. GYNOBASICÆ.**

Nixus 1. **Rutales.** Monostylæ (v. punctatæ).

- Gynobasis cariosa, carpella distincta . . . 20. Ochnacæ.
- Extipulatae, capsulares . . 22. Rutaceæ.
- 22. § Diosmæcæ.
- Stipulatae, oppositifolieæ . . . . 23. Zygophylleæ.
- Unisexualæ . . . . 24. Xanthoxyleæ.

Nixus 2. **Geraniales.** Polystylæ, syncarpæ.

- Indehiscentes, symmetricæ . . . . 25. Hydrocereæ.
- Pentacoccae, rostratae . . . . 27. Geraniaæ.
- Polyspermae, symmetricæ . . . 28. Oxalideæ.
- Polyspermae, asymmetricæ . . 29. Balsamineæ.
Nixus 3. **Coriales.** Polystylæ, apocarpaceae.

30. Coriariaceæ.

**Nixus 4. Flörkeales.** Monostylæ, schistocarpaceæ.

31. Limnanthaceæ *R. Br.*

Cohors ab Agardhio primum stabilita, procul dubio naturalissima, quamvis adhuc turnis plurimis orbata. Brunonius stationem Flörkealium melius quam ego perspexit.

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**Cohors III. EPIGYNEÆ.**

**Nixus 1. Onagralæ.** Oligandraceæ, centrales.

Tetrameræ  . . . . . . . 32. Onagrarieæ.

32. § Circaeaceæ.

32. § Halorageæ.

Monocarpaceæ, platypetalæ  . . . 33. Combretaceæ.

Monocarpaceæ, stenopetalæ  . . . . 34. Angiaceæ.

Interstipulareae  . . . . . . . 35. Rhizophoreæ.

! Hypogynæ  . . . . . . . . . 36. Salicarieæ.

**Nixus 2. Myrtales.** Polyandraceæ, centrales.

Unicostatae, staminibus inflexis  . . . . 37. Memecylieæ.

Punctatae  . . . . . . . . . 38. Myrtaceæ.


Alternifolieæ, irregularæ  . . . . . . 40. Lecythideæ.

Impunctatae, staminibus rectis  . . . . 41. Philadelpheæ.

**Nixus 3. Cornales.** Valvatae.

Stipulatae  . . . . . . . . . 42. Hamamelleæ.

Exstipulatae  . . . . . . . . 43. Cornææ.

Parasiticæ, petalis antheriferis  . . . 44. Loranthææ.

**Nixus 4. Cucurbitales.** Parietales.

Unisexualæ, apetalæ  . . . . . . 45. Cucurbitaceæ.

Coronatae*  . . . . . . . . . 46. Loaseæ.

Pleistopetalæ  . . . . . . . . 47. Cactææ.


**Nixus 5. Begoniales.** Unisexualæ, centrales.

49. Begoniaceæ.


* i. e. staminibus abortivis coronam Passifloræ simulabantibus.
Cohors IV. PARIETALES.

Nixus 1. **Cruciales.** Curvembriae, exalbuminosae.
   Tetradynamae ........................ 50. Cruciferae.
   Polyandrae ............................ 51. Capparideae.
   Tricarpae .............................. 52. Resedaceae.

Nixus 2. **Violales.** Oligandrae, corona nulla.
   Stipulatae ............................. 53. Violaceae.
   Punctatae .............................. 54. Sauydeae.
   Circinatae ............................. 56. Droseraceae.
   Calyce costato ........................ 57. Frankeniaceae.

Nixus 3. **Passionales.** Coronatae, petiolis saepius glandulosis.
   Stipulatae ............................. 58. Passifloreae.
   Unisexuales ............................ 59. Papayaceae.
   Placentae per omnem parietem effusae 60. Flacouriaceae.
   Exstipulatae, ovario stipitato ........ 61. Malesherbiaceae.
   Exstipulatae, ovario sessili (corona 0) 62. Turneraceae.

Nixus 4. **Bixales.** Polyandrae, punctatae.
   ..................................... 63. Bixineae.

Passionalium character certe latet, ob Turneraceas; ceterum cohors affinitates bene colligit. Resedaceas Capparideis conterminas esse olim negavi, mox Brunonius asservuit, nuper Henslovius probavit. In hoc quoque pessime judicavi quod Datisceas Resedaeis appropinquavi, non obstante Brunonii sagacissimi monitu.

Cohors V. CALYCOSÆ.

Nixus 1. **Guttales.** Polyandrae, exalbuminosae, isopetalæ.*
   Oligospermae, simplicifoliae ........ 64. Guttiferae.
   Oligospermae, compositifoliae ...... 65. Rhizoboleae.
   Polyspermae, polystyla ............... 67. Hypericineae.

Nixus 2. **Theales.** Polyandrae, exalbuminosae, anisopetalæ. ....... 68. Ternstrōmiaceae.

Nixus 3. **Acerales.** Asymmetricae, oligandrae.
   Gymnopetalæ, fructu dimero clauso
      alato ................................ 69. Acerincae.
   Discoidae, petalis appendiculatis,
      fructu trimero ....................... 70. Sapindaceae.
   Gymnopetalæ, fructu dehiscente ....... 71. Hippocastanœ.
   Papilionaceæ .......................... 72. Polygaleae.
   Calcaratae ............................ 73. Vochyaceae.

* i. e. petalis sepalis aequalibus.

Decandrae . . . . . . . . 74. Lineae.
Polyandrae, involucratae . . . 75. Chilenaceae.
Polyandrae, monostylae, radicula hilo remotae . . . . 76. Cistineae.
Polyandrae, polystyle, trichospermae 77. Reannuriceae.


Hujus cohortis characteres caute distinguendi. Gynobasicae plurimae calycis habent pariter imbricatos, sed gynobasi ei amoventur. Imbricatio in eo constat quod verticillus foliorum floralium frangitur, unde unum vel 2 foliola calycis ceteris omnino sunt externa.

Cohors VI. Syncarpeae.


Synandrae, antheris bilocularibus . . . 79. Sterculiaceae.
Synandrae, antheris unilocularibus . . . 80. Malvaceae.
Porandrae, schistopetalae . . . . 81. Elseocarpaceae.
Eleutherandrae, hypogynae . . . . 82. Tiliaceae.
Synandrae, calyce in fructu aucto irregulari . . . . 83. Dipterocarpaceae.


Tubiferae, seminibus apteris . . . 84. Meliaceae.
Submonadophila, seminibus alatis . . 85. Cedrelae.
Monadelphae, connectivis dilatatis . . 86. Humiriaceae.
Punctatae, fructu succulent. . . . 87. Aurantiaceae.
Perigynae, disco maximo . . . . 88. Spondiaceae.


Stamina petalis opposita . . . . 89. Rhamnaceae.
Stamina petalis alterna . . . . 90. Chailletiacae.
Porandrae, carunculatae . . . . 91. Tremandreeae.
Subpolyandrae, succulentae . . . . 92. Nitrariaceae.
Balsamiflueae . . . . 93. Burseraceae.


* Euphorbiaceae apetalis semper referuntur; nescio quo jure, cum inter genera 61 cl. Jussiego illustrata, 32 sunt corollata; ordinis evolutio versus petala et statum completum manifeste tendit.
Hermaphroditae, synpetalae . . . 95. Stackhouseae.
Polyspermeae, synpetalae . . . 96. Fouquieraceae.
Hermaphroditae, apopetalae . . 97. Celastrineae.


Disepalae . . . . . . . . . . 99. Portulaceae.
Tetra-penta-sepalae, sepalis concretis. 100. Sileneae.
Loculicidae, trichosperme . . . 102. Tamariscoæae.
Stipulatae . . . . . . . . . 103. Illecebridæ.


Regulares . . . . . . . . . 104. Rosaceae.

Leguminiferae, radicula hilo proxima. 105. Leguminosæ.

Leguminiferae, radicula hilo remotæ. 106. Comaraceæ.
Stylus a basi carpellorum . . . 107. Chrysobalanaceæ.
Pleistopetalæ . . . . . . . . 108. Calycanthææ.


Opposittifoliae, stipulis interpetiolarebus . . . . 110. Cononiaceæ.
Alternifoliae . . . . . . . . 111. Saxifragaceæ.


112. Ficoideæ.


Carpella sepalis alterna . . . 113. Crassulaceæ.
Staminum dimidia sterilis . . . 114. Galacineæ.


Punctatae, monocarpæ . . . . 115. Amyrideæ.
Impunctatae . . . . . . . . 116. Anacardiaceæ.
Subclassis II. INCOMPLETEÆ.

Cohortes sunt
1. Tubiferæ; calyce tubuloso, saepe corollam simulante; (nec characteribus sequentium).
2. Curvembriæ; embryone circa albumen arenato, v. hippocrepico, v. spirali; (calyce raro tubuloso).
3. Rectembriæ; calyce valde imperfecto, embryone recto.
4. Achlamydeæ; calyce corollaque omnino deficientibus.
5. Columniferæ; staminibus monadelphis.

Seu

Curvembriæ (sclerales) (daphnales) Tubiferæ.
(cocculales) (! proteales)

(piperales) (aristolochiales)
Achlamydeæ Columniferæ
(salicales) (! nepenthales)

(amentales) .... Rectembriæ .... (! urticales)

Nyctagineæ ideæ subclassis in quibusdam speciebus repugnant, calyx enim petaloideus omnino plantas polyptalamus refert. Thymelœarum glandulae fauciales stamina abortiva videntur nec petala, quia nec marcescunt nec unquam in statu petaloideo augentur.

Cohors I. TUBIFERÆ.


Eleutherandræ, lepidotæ 118. Elseagnæ.
Eleutherandræ, glabrae 119. Thymelææ.
Unisexuales, cotyledonibus lobatis 120. Hernandieæ.
Monadelphæ 121. Aquilarineæ.


Foliosæ, arborescentes, aromaticæ 123. Laurineæ.
Aphyllæ, herbaceæ, insipideæ 124. Cassytheæ.

Bartl.


Cohors II. CURVEMBRIÆ.

Xeranthæ, multibracteatae 126. Amarantaceæ.
Chloranthæ, monocarpæ 127. Chenopodeæ.
Chromanthæ, polycarpæ 128. Phytolaceæ.


Limbo calycis herbaceo . . . . 131. Scleranthææ.
Limbo calycis petaloideo . . . . 132. Nyctagineæ.


Menispermeæ revera incompletas esse, non obstantibus verticillis duplicibus perianthii, vix dubitandum; nec ulla est ratio quare ad polypetalas relegentur nisi numeros partium ternarius, character sane levissimus. Medium quasi tenent inter Exogenæ et Endogenæ.

**COHORS III.** *RECTEMBRIÆ.*

Flores fœminei cupula cincti . . . . 134. Cupuliferæ.
Flores fœminei amentis squamatis
ordinati . . . . 135. Betulineæ.

Nixus 2. *Urticales.* Monocarpæ v. polycarpæ, con-

tinuæ (evaginatæ).
Scabridæ, antheris long. dehiscentibus 136. Urticeæ.
136. § Ceratophylleæ.
136. § Artocarpeæ.
Antheræ transverse dehiscentibus . . . . 137. Stilagineæ.
Insipidæ, hypogynæ . . . . 138. Empetrearæ.*
Aromaticæ, hypogynæ . . . . 139. Myriceæ.
Balsamifluae, epigynæ . . . . 140. Juglandææ.

Nixus 3. *Casuarales.* Monocarpæ, articulatæ (vagi-


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Cohors V. COLUMNIFERÆ.


Subclassis III. MONOPETALÆ.

Cohortes sunt
1. Polycarpæ; hypogynæ (raro epigynæ) ovario polycarpo.
2. Epigynæ; epigynæ, ovario 2-00-carpo.
3. Dicarpæ; hypogynæ regulares, ovario dicarpo.
4. Personatæ; hypogynæ irregulares, ovario dicarpo.
5. Aggregatæ; ovario monocarpo.

Seu

Aggregatæ (asterales) (campanales) Epigynæ
   (dipsales) (cinchonales)
   (labiales) (primulales)
Personatæ Polycarpæ
   (scrophulales) (nolanales)
   (solanales) Dicarpæ (echiales)
Cohors I. POLYCARPÆ.


Semina alata . . . . . . 158. *Pyrolacææ*.
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Herbæ, petalis staminibus oppositis . 162. *Primulacææ*.
Lignosæ, petalis staminibus oppositis 163. *Myrsineæ*.
Lactescentes, calyce corollaque duplicibus . . . . . . 164. *Sapoteæ*.
Aquosæ, staminibus sepalis duplis . 165. *Ebenacææ*.

Aquosæ, staminibus sepalis æqualibus 166. *Illicineæ*.


Aphylleæ, embryone spirali . . 168. *Cuscuteæ m*.
Volubiles, aestivatione plicata . 169. *Convolvulacææ*.
Polystylæ, polysperme . . . . 171. *Hydroleacææ*.

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Oligospermeæ . . . . 178. *Scævoleæ*.

Albuminosæ . . . . 179. *Cinchonææ*.


**Cohors III. DICARPÆ.**


**Cohors IV. PERSONATÆ.**


Nucamentaceae . . . . . . . 203. Pedalineae.
Quadriplacentatae, seminibus apteris 204. Cyrtandraceae.

Foliosae, ovario supere . . . . 205. Scrophularineae.
Aphyllae, embryone minuto . . . 206. Orobancheae.
Foliosae, ovario subinfero 1-loculari 207. Gesnerceae.


Cohors V. AGREGATAE.

Exalbuminosae . . . . . . 211. Compositae.
N.B. Circulus verosimiliter clausus, si Compositas e 4 ordinibus, nempe Cynarocephalis, Corymbiferis, Cichoraceis, Bilabiatisque habeas.

Monocarpaceae . . . . . . . 212. Dipsaceae.
Tricarpaceae, carpellis 2 abortientibus . 213. Valerianæae.


214. Brunoniaceae.

Spurie* pluriloculares . . . . 215. Plantaginææ.
Asymmetricæ . . . . . . . . 216. Globularinææ.


217. Plumbagineæ.

Classis II. GYMNOSPERMÆ.

Multigemmatae, strobiliferæ . . . 219. Coniferae.
Multigemmatae, monantheæ . . . 220. Taxinææ.
Acotyledonæ . . . . . . . . 221. Equisetaceæ.

* Septorum situs loculos esse omnino abnormales pistillumque simplicissimum optime probat.
Seu

Cycadeæ

Coniferae

(zamia)

Equisetaceæ (ephedra) Taxineæ

Equiseta verosimiliter sunt Sexualium infimus gradus; inflorescentia, sexu (nempe filamentis clavatis=antheras, nucleo=ovulum), habitu, denique rudimentis lamellarum lignearum in trunco, sexualibus congruint, e contrario e-sexualibus ovulo imperfecto tantum conveniunt,—charactere ut videtur minoris ponderis si ovula Rhizanthearam rite perpendas.

Classis III. ENDOGENÆ.

Cohortes sunt

1. Epigynæ; eleutherandræ, ovario infero.
2. Gynandræ; synandræ, ovario infero.
3. Hypogynæ; flore trimero colorato, ovario supero.
5. Glumaceæ; bracteis squamaceis perianthii loco.

Seu

Gynandræ (orchideæ) (ixiales) Epigynæ

(apostasieæ) (bromeliæ)

(liliales)

Hypogynæ

 Imperfectæ

(juncales)

(restiææ) ... Glumaceæ ... (cyperææ)

Cohors I. EPIGYNÆ.


Monandræ, anthera 2-loculari 222. Scitamineæ.

Monandræ, anthera 1-loculari 223. Marantaceæ.

Pleianandræ 224. Musaceæ.


Parvifloræ, testa crustacea 225. Hypoxideæ.

Grandifloræ, planifolie 226. Anarylloidææ.

Equitantes, lanigeræ 227. Hæmodoraceæ.

Equitantes, pterocarpaceæ 228. Burmanniæ.

Uniloculares, placentis parietalibus 229. Tacceæ Presl.


**Cohors II. GYNANDRÆ.**

Monandæ 233. Orchideæ.
Diandæ, ovario 1-loculari 234. Cypripedieæ m.
Diandæ, ovario 3-loculari 235. Apostasieæ m.

**Cohors III. HYPOGYNÆ.**


**Cohors IV. IMPERFECTÆ.**

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Aclamydeæ, apocarpæ. 248. Pandanææ.

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Hermaphroditæ, apocarpæ. 250. Acoroideæ Link.


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Dimeræ, perianthio evoluto . . . 254. Roxburghiaceæ

Wall.


Fluitantes, ovulis pendulis . . . 255. Fluviales.
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Fluitantes, axi subnullo . . . 257. Pistiaceæ.

---

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Monocarpæ, solidæ . . . . . 259. Cyperaceæ.
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Endl.

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- Gymnothecæ
- Cryptothecæ, involucris uniformibus
- Cryptothecæ, involucris biformibus

Gyninothecæ


- Operculatae, thecis eva/valvibus
- Operculatae, thecis valvatis
- Deoperculatae, thecis valvatis
- Deoperculatae, thecis eva/valvibus

Ope/curlate, thecis eva/valvibus


- Velatæ
- Nudæ, aëraceæ
- Nudæ, aquaticæ

Velatæ


- Fungi
- Lichenes
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