

AN INDEX TO RAFINESQUE'S PUBLISHED TECHNICAL NAMES FOR THE CELLULAR CRYPTOGRAMS¹

E. D. MERRILL

Somewhat over a year ago I located an entirely overlooked botanical paper² published by Rafinesque in 1834. This contained a considerable number of validly published generic and specific names, none of which had even been listed in our standard indices. An examination of other works published by Rafinesque indicated also that some of these had never been indexed, while here and there in works that had been indexed other overlooked technical names were found. These findings impressed me with the desirability of preparing and publishing a comprehensive Index Rafinesquianus, chiefly because of the homonym rule in the International Code of Botanical Nomenclature. After the lapse of more than a century it did seem to be desirable at least to list the Rafinesque names; this task should have been done a half century earlier.

When the slips were prepared, approximating 12,000, those appertaining to the vascular cryptogams and the cellular cryptogams were segregated. The first study was devoted to the vascular cryptogams wherein I attempted to determine the actual status of each generic name and each binomial.³ The present paper is devoted to a consideration of the names proposed by Rafinesque for the cellular cryptogams, but unlike his names for the ferns, I have, in general, in the algae, fungi, lichens, and mosses, not attempted to determine the status of the various entities. The final study will be a consideration of the very numerous entries appertaining to the phanerogams, but this will be a time-consuming task and may not be completed for a year or two. In the meantime it was thought to be worth while to prepare a list of those names, most of them entirely overlooked for more than a century, appertaining to the cellular cryptogams, and to publish it in a place where it would be available to specialists concerned with a study of these groups. In the cellular cryptogams it is chiefly the algae and the fungi that are involved, for Rafinesque's contributions to the elucidation of the other major groups were fortunately slight.

With few exceptions Rafinesque's descriptions of his numerous new genera and new species of cellular cryptogams are short, vague, indefinite, and hence highly unsatisfactory. Yet his names, as far as he prepared and published descriptions for his proposed entities, are validly published under all accepted rules of nomenclature, and should at least be listed. Most of the names that he proposed for the cellular cryptogams

¹ The publication of this article out of order of receipt is made possible through a grant from the Arnold Arboretum.

² Merrill, E. D. A generally overlooked Rafinesque paper. *Proc. Am. Philos. Soc.* **86**: 72-90. 1942; see also Merrill, E. D. Rafinesque's work from the standpoint of world botany, op. cit. 1943. (*In press.*)

³ Merrill, E. D. New names for ferns and fern allies proposed by C. S. Rafinesque, 1808-1838. *Am. Fern Jour.* **33**: 41-56. 1943.

have been overlooked by succeeding botanists concerned with the study of the algae, fungi, lichens, and mosses. In the following list the hitherto overlooked Rafinesque names are marked with an asterisk. In such bibliographic work as I have been able to accomplish in a field in which I am not qualified to work as a specialist, I have noted less than forty names in all categories, that have ever been cited by specialists. In checking Rafinesque's names I must admit, however, that my bibliographic work has scarcely exceeded the consultation of certain standard indices, such as the Gesamtregister zum I Teil of the first edition of Engler and Prantl's *Die Natürlichen Pflanzenfamilien* (1909), the indices to the few volumes of the second edition of that work that have been issued appertaining to the cellular cryptogams (1924-1938), the indices to Saccardo's *Sylloge Fungorum*, and Mussat's "Synonymia generum specierum subspecierum-que in Vol. I-XIV descriptorum" *Syll. Fung.* 15: i-viii. 1-455. 1901.

Of a total of about three hundred eighty new names in all categories proposed by Rafinesque for all groups of cellular cryptogams, about three hundred forty fall in the group of hitherto overlooked ones. In the list of generic names proposed by Rafinesque as new, totalling about one hundred thirty-four, only about thirty-one seem ever to have been mentioned or reduced to synonymy by Rafinesque's successors. Almost no attention has been given to his proposed new species. The percentage of overlooked Rafinesque names for the cellular cryptogams is very much higher than is the case for the phanerogams, clearly indicating that the specialists in the classification of algae and fungi have rather generally ignored Rafinesque's crude attempts at taxonomic work in these groups. Any specialist who will familiarize himself with Rafinesque's very short, generalized, and totally inadequate descriptions will probably agree to the general proposition that it is impossible safely to place most of his entities in synonymy or otherwise.

These lists have been prepared not with the idea that any specialist may be intrigued with attempting to determine the status of the many inadequately characterized genera and species, but as indicated above, because of the accepted homonym rule. It is realized that the conservative botanist will disapprove this bibliographic attempt in his belief that nothing that Rafinesque published in botany is worthy of consideration. Yet this attitude does not obviate the fact that the homonym rule is official, and that no matter how bad Rafinesque's descriptions usually are, *his validly published names* must be considered. It is difficult to see how a valid argument against listing Rafinesque's names can be supported, no matter how gladly this or that botanist would eliminate them. Under the homonym rule should a modern botanist select a generic name or a binomial that had been proposed and validly published by Rafinesque over a century ago for one entity, and apply the same name to the entity that he considers to be new, then the later name would be invalid and would have to be changed. The modern taxonomist should be able to determine whether

or not a certain name has been previously used, but until such names are at least listed, he has no way of doing this. He should not be penalized merely because those bibliographers concerned with the compilation of comprehensive indices have, in the past, overlooked a considerable number of Rafinesque's published works. As to generic names, there is, of course, the principle of *nomina generica conservanda* that may be invoked to preserve later homonyms, but additions to this already long list requires appropriate action from some properly constituted International Botanical Congress. There is no method of eliminating properly published binomials. Because of the approved beginning dates for the names of the fungi (1821-32, Fries' *Systema mycologicum*) for other than the Uredinales, Ustilaginales, and the Gasteromycetes, probably many of Rafinesque's proposed new genera may safely be ignored.

No matter what one may think of the character of Rafinesque's work and no matter if one would prefer that all of Rafinesque's numerous botanical publications should be officially outlawed, only an International Botanical Congress can take such action; and in the past only a few published works have been officially banned. One illustration of a botanical taboo is Gandoger's *Florae Europae*, which was officially eliminated⁴; and I suspect that the chief reason for this action was that Gandoger's work appeared in the form of lithographed handwriting rather than actually printed; but all of Rafinesque's published works were printed. As long as such action has not been taken in reference to Rafinesque's botanical publications his work will have to be accepted and specialists will have to do the best that they can with his descriptions. My personal opinion is that no matter how unorthodox and how poor an individual author's work may be, the official banning of the work of this or that author is extremely dangerous.

In this paper no serious attempt has been made to determine the status of Rafinesque's proposed genera and species for the cellular cryptogams, as I did for the vascular cryptogams, for in the groups covered I do not consider myself competent to express opinions except in manifestly clear cases. I do feel, however, that with judicious field work in the neighborhood of Palermo, Sicily, a competent algologist could place a considerable number of Rafinesque's new genera and species of algae; and this in spite of the short and usually inadequate descriptions, and as far as he illustrated his species, the very poor figures. In the algae I note that several of the Rafinesque entities that he definitely placed in that group, actually represent organisms in the animal kingdom. Thus *Pexisperma lutescens* Raf., as figured by him, is an alconyrian coral, probably a *Paragorgia*; *Phytelis radiata* Raf. may represent a large species of *Nummulites*; *Helmyton spiralis* Raf. might be a species of *Spirobus* or a

⁴Gandoger, M. *Flora Europae terrarumque adjacentium; sive. Enumeratio plantarum per Europam atque totam regionem mediterraneam cum insulis atlanticis sponte crescentium, novo fundamento instauranda.* Paris. 27 volumes in 13, 1883-91.

Serpicula; *Siphytus obconicus* Raf. probably represents a hydroid, and *S. alternus* Raf. is definitely a plumularian hydroid; *Chledipole tubulosa* Raf. apparently represents a species of sponge, and *Myrsidrum clavatum* Raf. might belong in the same general group of animals. It is only fair to Rafinesque to note that he considered the Corallina and the Spongidia to represent algae, placing them in his group III Fucidia in the Algosia (Algae) in his scheme of classification (see Rafinesque, Anal. Nat. Tabl. Univ., pp. 206–209. 1815). Rafinesque's descriptions of the algae are so short and so generalized that sometimes one can scarcely say what major group is represented: the Chlorophyceae, Phaeophyceae, or Rhodophyceae.

The situation in reference to Rafinesque's numerous new genera and species of fungi is scarcely more promising than it is with the algae, and for the same reasons, although here illustrations of some of his species exist. In his Life of Travels, p. 45. 1836, Rafinesque states that he undertook a voyage from Sicily to the United States in 1815, taking passage on the "Union of Malta" to New York, and taking with him most of his fortune and collections:

"50 boxes containing my herbal, cabinet, collections and part of my library. I took all of my manuscripts with me, including 2000 maps and drawings, 300 copper plates, &c. My collection of shells was so large as to include 600,000 specimens large and small. My herbal was so large that I left a part of it."

This material was all lost in Rafinesque's shipwreck off Fishers Island near New London, Connecticut, November 2, 1815. Rafinesque did, however, later receive from Palermo a set of proofs of a part of the illustrations included on the 300 copper plates mentioned above. These he presented to the New York Lyceum of Natural History, and they are now preserved in the library of the New York Botanical Garden. This partial set is the only known extant copy.

Mr. W. R. Gerard⁵ examined these proofs in 1885 and states that this New York set consists of twenty-nine plates on which figures of forty-six new genera and new species of North American plants appear; these illustrations were based on specimens collected or observed by Rafinesque while he was a resident of Philadelphia, 1802–04. Mr. Gerard lists the names on these figures verbatim. Thirty-one of the figures represent fungi, and the remainder flowering plants. Regarding the fungus figures, Gerard states:

"Most of the figures of fungi seem to have been drawn from memory—possibly from imagination, and all are quite crudely executed. Those relating to known genera bear only a remote resemblance to the objects they were designed to illustrate, and not one could possibly be of aid in the determination of a species. . . ."

"The small collection of plates is perhaps of interest in connection with the bibliography of American botany, and as unique relics of one of its earliest, as well as one of its most eccentric students. The figures of flowering-plants may be of use

⁵ G[erard], W. R. Reliquiae Rafinesquianae. Bull. Torr. Bot. Club 12: 37–38. 1885.

in helping to elucidate the author's vague descriptions, but the plates of the fungi will only serve to show what a useless mass of rubbish would certainly have been inflicted upon mycological science had not the fortunate shipwreck of 1815 intervened."

However, in passing, it is well to note that all of the new genera and most of the species of fungi that Rafinesque attempted to illustrate on these lost plates, had already "been inflicted upon mycological science" for their technical descriptions had been published previous to Rafinesque's loss of the plates in 1815. In listing Rafinesque's genera and species of fungi I have included references to those names appearing in Gerard's list.

Rafinesque originated seventy-four new generic names for various groups of fungi that he considered to be new, or, in a very few cases, where he proposed new names for genera previously designated by other authors under names that he did not approve. Until very recently, I judge that the mycologists have largely ignored these proposed new genera. In 1933, however, Fischer, in Engler & Prantl, *Nat. Pflanzenfam.* ed. 2, 7a: 84, 1933, actually recognized one of Rafinesque's generic names as valid, when he accepted *Colonnaria* Raf. (1808) as the designation of a certain group of fungi which he segregated from *Clathrus* (Micheli) Pers. He gives the synonymy as *Laternia* auctt. in part, and *Linderia* G. H. Cunningham (1931). On what inadequate data most of Rafinesque's generic entities in the fungi must be interpreted is illustrated by the following very inadequate original descriptions, the only ones of *Colonnaria* published by him: "*Colonnaria* (urceolata, truncata, &c) divided into four pillars, united at the top, which bear the seeds in the margins. Found in Penn." (*Med. Repos.* II 5: 355. 1808). In the following year this was translated into French and published thus: "5. *Colonnaria urceolata, truncata*; divisée en quatre piliers réunis par le sommet, portant les semences sur leurs bords. Se trouve en Pensilvanie." (*Jour. Bot. (Paris)* 2: 176. 1809).

Incidentally, crude figures of both of these species of *Colonnaria* exist in the unique set of proofs of Rafinesque's lost copper plates, now preserved in the library of the New York Botanical Garden. Gerard⁶ comments on these crude illustrations as follows:

"As for the figures of *Colonnaria*, they bear a general resemblance to *Laturnea columnata*, in that they have a receptacle composed of four branches united at the top and base; but here the analogy ends, for *C. truncata* is surmounted by a perfectly square, sharp-cornered, open box, full as wide as the lower extremity of the fungus, and the edge of which is decorated with what looks like a cylindrical moulding. The other species, *C. urceolata*, has somewhat the same habit, but differs in the substitution of a wide circular ring or collar for the "box"—its edge likewise being finished off with the ornamental moulding. The species of neither of the genera [*Aedycia* Raf. and *Columnaria* Raf.] are provided with a volva, and both of those in the last-mentioned genus [*Colonnaria*] remind me very strongly of certain quaint objects which I have seen in collections of Japanese ceramics. I venture to say that no so absurd fungi as these ever were, or ever will be, found on the face of the earth."

⁶ G[erard], W. R. op. cit. 38.

With this indictment of Rafinesque's own figures of his two species of *Colonnaria*, one wonders if Fischer used good judgment in accepting *Colonnaria* Raf. (1808) as a valid generic name, with the sinking of *Linderia* G. H. Cunningham (1931) in its synonymy. Incidentally, Gerard states on the preceding page that most of Rafinesque's figures of fungi "seem to have been drawn from memory — possibly from imagination —." As a phanerogamic botanist, were I dealing with a description of a flowering plant relatively as short and indefinite as that of Rafinesque's appertaining to *Colonnaria*, and not supported by extant specimens, my inclination would be to ignore the name, and in this case retain *Linderia* G. H. Cunningham; and yet, in spite of the extraordinary Rafinesque figures that Gerard discusses, the probabilities are very great that Rafinesque actually did have specimens of *Linderia* in mind when he wrote his very brief description of *Colonnaria*, and when he made his very crude and very inaccurate illustrations of the two species. In view of the universal acceptance of the name *Lindera* Thunb. (1783) for a genus of the Lauraceae, I believe that *Linderia* G. H. Cunningham (1931) is invalid, so perhaps after all Fischer should be followed in his interpretation of *Colonnaria* Raf.

The lichenologists and the bryologists fare much better than do the algologists and the mycologists. In the lichens Rafinesque proposed one new generic name, *Scyphorus* Raf. to replace *Scyphophorus* Ach., casually mentioned *Epidrolithus* which might be a lichen or possibly an alga or a fungus (Rafinesque merely states "a curious water lichen, rather than a Tremella" from which one suspects a species of *Leptogium*), and proposed but did not describe *Leptuberia amorpha*, "a small crustaceous lichen." He described only one moss, *Heterodon bryoides* Raf. The full description is: "Heterodon (bryoides) small moss with peristome 8-dentated, dentatures unequal. It grows in waters of New-Jersey." Short as this description is, it seems probable that *Heterodon* Raf. = *Fissidens* Hedwig, for *Fissidens* is about the only genus of mosses occurring in New Jersey that has aquatic representatives; yet as Mr. E. B. Bartram notes, the peristome of *Fissidens* has more than eight teeth. His only other venture in this group was to propose the new generic name *Diphas* (Raf., Am. Month. Mag. Crit. Rev. 1: 429. 1817) to replace *Diphascium* Eaton (*Diphascium* Ehrh.).

In the following list, where Rafinesque's new names of cellular cryptogams are arranged alphabetically under the Algae, Fungi, Lichenes, and Musci, his apparently hitherto overlooked technical names are indicated by an asterisk. Where reductions are made, the authority is cited. Where only a name appears, without a description, the abbreviation *nom.* (*nomen nudum*) is added, and where descriptions were supplied, no matter how short, the corresponding abbreviation is *descr.* (*descriptio*). Where no technical descriptions were published, but brief comments are made which might supply a clue to the identity of a proposed genus or

species, the abbreviation *nom. subnud.* (*nomen subnudum*) is used. Where a Rafinesque description was repeated verbatim, when certain of his papers were republished in other periodicals, this repetition is indicated by the abbreviation *iter.* (*iteratio*); this does not apply to the series appearing in the Medical Repository, in English, which were republished in French in the Journal de Botanique. In those cases where Rafinesque published two different names for the same entity at the same time, as he frequently did, the abbreviation *nom. alt.* (*nomen alternum*) indicates this for the alternate name. To avoid ambiguity between the two runs of the Journal de Botanique, in both of which Rafinesque's papers appear, the Journal de Botanique 1-2 (1808-09) and 1-4 (1813-16), the former is indicated as Jour. Bot. (Paris), and the latter as Jour. Bot. (Desv.), for the reason that inexperienced bibliographers not infrequently confuse the two. The first was entitled "Journal de botanique rédigé par une société de botanistes," and the second "Journal de botanique, appliquée à l'agriculture, à la pharmacie, à la médecine et aux artes." Both were published in Paris. Desvaux is indicated as the principal editor of the latter and probably also edited the former.

ALGAE⁷

- ***Acinaria** Raf., Jour. Phys. Chim. Hist. Nat. **89**: 107. 1819, *descr.*; *iter.*, Isis von Oken 1820, **1**: Lit. Anz. p. 243. 1820; Neogen. p. 4. 1825, *nom.* = *Chara* Linn.
- **coccifera* Raf., l. cc., *descr.*
- **flexuosa* Raf., l. cc., *descr.*
- **latifolia* Raf., l. cc., *descr.*
- **salicifolia* Raf., l. cc., *descr.*
- Rafinesque's material was from the Ohio, Missouri, Mississippi, and Red Rivers. In his Neogenyton p. 4. 1825, he states that his *Acinaria*, with *Leiacina* Raf., belongs in the Characeae.
- ***Amasperma** Raf., Précis Découv. Somiol. p. 47. 1814, *descr.*; Jour. Bot. (Desv.) **4**: 273, 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.*
- **foculosa* Raf., Précis Découv. Somiol. p. 47. 1814, *descr.*; Jour. Bot. (Desv.) **4**: 274. 1814, *descr.*
- **monilia* Raf., l. cc., *descr.*, Sicily.
- **torulosa* Raf., l. cc., *descr.*, Sicily.
- Anevriton** Raf., Specch. Sci. **2**: 167. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
- **marginatum* Raf., op. cit. p. 168, *descr.*, Sicily.
- ***Aporenia** Raf., Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.*
- Arthrodia** Raf., Specch. Sci. **1**: 89. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.* = *Roya* W. & G. S. West (1896) fide Printz, *Closterium* Nitzsch., *sensu lat.*
- **linearis* Raf., l. c., *descr.*, Sicily.
- ***Bryonopsis** Raf., Specch. Sci. **2**: 89. 1814, *nom. nov.* = *Bryopsis* Lamouroux.
- ***Catenaria** Raf., Med. Repos. II. **5**: 351. 1808, *nom.*; Jour. Bot. (Paris) **2**: 168. 1809, *nom.*, non Sorokin.
- **arenaria* Raf., l. cc., *nom.*

⁷As noted in the introduction, those generic and specific names in these lists that are marked with an asterisk appear very generally to have been overlooked by students of the cellular cryptogams ever since they were published over a hundred years ago.

*concatenata Raf., l. cc., *nom.*

*vagabunda Raf., l. cc., *nom.*

The whole original statement is: "Catenaria, (arenaria, vagabunda, concatenata, &c.) intermediary between some *confervae* and *fuci*. On the sea shores." [Eastern United States.]

Ceramium Lyngbe.

*callithamnium Raf., Précis Découv. Somiol. p. 48. 1814, *descr.*, Sicily.

*opacum Raf., l. c., *descr.*, Sicily.

*squamosum Raf., l. c., *descr.*, Sicily.

Chantransia DC.

*dichlora Raf., Précis Découv. Somiol. p. 47. 1814, *descr.*; Jour. Bot. (Desv.)

4: 273. 1814, *descr.*, Sicily.

Chara Linn.

*fetidissima Raf., Med. Repos. II. 5: 354. 1808, *nom.*; Jour. Bot. (Paris) 2: 174. 1809, *nom.* Eastern United States.

*patens Raf., l. cc. *nom.* Eastern United States.

Characias Raf., Anal. Nat. Tabl. Univ. p. 209. 1815, *nom. nov.* = *Chara* Linn.

***Chledipole** Raf., Car. Nuov. Gen. Sp. Sicil. p. 95. 1810, *descr.* = seq.

*lobata Raf., l. c., *descr.*, Sicily.

*tubulosa Raf., l. c. t. 30. f. 10, *descr.*, Sicily.

***Chledripole** Raf., Specch. Sci. 2: 167. 1814, *nom.* = *Chledipole* Raf.

***Colophermum** Raf., Précis Découv. Somiol. p. 49. 1814, *descr.*; Jour. Bot. (Desv.)

4: 275. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.*

*floccosum Raf., l. cc., *descr.*, Sicily.

Conferva (Linn.) Lagerh.

*isacella Raf., Précis Découv. Somiol. p. 46. 1814, *descr.*; Jour. Bot. (Desv.)

4: 273. 1814, *descr.*, Sicily.

***Deloxus** Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*

***Deraphytus** Raf., op. cit. p. 209. *nom.*

Dictilema Raf., Précis Découv. Somiol. p. 48. 1814, *descr.*; Jour. Bot. (Desv.) 4: 274. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.* = *Microdictyon* Decaisne (1839), fide Printz.

*glomerata Raf., Précis Découv. Somiol. p. 48. 1814, *descr.*; Jour. Bot. (Desv.)

4: 274. 1814, *descr.*, Sicily.

*xanthosperma Raf., l. cc., *descr.* Sicily.

***Ecpexis** Raf., Atl. Jour. 1: 200. 1833, *descr.*

*fluviatilis Raf., l. c., *descr.* Schuylkill River, Philadelphia.

***Ectosperma** Raf., Précis Découv. Somiol. p. 47. 1814, *nom.*; Jour. Bot. (Desv.) 4: 274. 1814, *nom.*, non Vaucher.

*longiuscula Raf., l. cc., *descr.* Sicily.

***Ectospermia** Raf. Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.* = *Ectosperma* Raf.

***Endonema** Raf., Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.*

***Endosperma** Raf., Car. Nuov. Gen. Sp. Sicil. p. 91. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*

*aggregata Raf., l. c., *descr.* Sicily.

*globosa Raf., l. c., *descr.* Sicily.

***Episperma** Raf., Précis Découv. Somiol. p. 48. 1814, *descr.*; Jour. Bot. (Desv.) 4: 274. 1814, *descr.*

*micramnia Raf., l. cc., *descr.* Sicily.

***Helmyton** Raf., Car. Nuov. Gen. Sp. Sicil. p. 90. 1810, *descr.*

*glomeratum Raf., l. c., *descr.* Sicily.

*spiralis Raf., l. c., t. 20 f. 7, *descr.* Sicily. (Probably belongs in Vermes, *Serpicula*.)

***Isophlis** Raf., Car. Nuov. Gen. Sp. Sicil. p. 93. 1810, *descr.*

*concentricus Raf., l. c., t. 20. f. 3, *descr.* Sicily.

- ***Laminaria** Raf., Med. Fl. **2**: 221. 1830, *nom. sub Fucus*, non Lamx.
 "Some sp. - - - are edible, such as *F[ucus] edulis*, *dulcis*, *saccharinus*, *esculentus*, *palmatum*, belonging in the N. G. *Laminaria*."
- ***Leiacina** Raf., Neogen. p. 4. 1825, *descr.* = *Chara* Linn.
 **capitata* Raf., l. c., *descr.* (*Chara capitata* Ell.) = *Chara capitata* Elliott.
 **lucida* Raf., l. c., *descr.* [Eastern United States].
- ***Leptorima** Raf., Car. Nuov. Gen. Sp. Sicil. p. 94. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 **nivea* Raf., l. c., *descr.* Sicily.
 **oculata* Raf., l. c., *descr.* Sicily.
 **undulata* Raf., l. c. t. 20. f. 4, *descr.* Sicily.
- ***Lichiton** Raf., Specch. Sci. **2**: 168. 1814, *descr.*
 **mamillaris* Raf., l. c., *descr.* Sicily.
 **phyteloides* Raf., l. c., *descr.* (*Phytelis tuberculata* Raf.). Sicily.
 **tuberculatum* Raf., l. c., *descr.* Sicily.
- ***Merasperma** Raf., Med. Repos. II. **5**: 350. 1808, *descr.*; Jour. Bot. (Paris) **2**: 167. 1809, *descr.* = *Oxytrema* Raf. fide Raf., Jour. Phys. Chim. Hist. Nat. **89**: 107. 1819; *iter.*, Isis von Oken 1820, **1**: Lit. Anz. p. 243. 1820.
 **bifurcata* Raf., l. cc., *nom.* Pennsylvania.
 **cylindrica* Raf., l. cc., *nom.* Pennsylvania.
 **dichotoma* Raf., l. cc., *nom.* Pennsylvania.
- ***Mesasperma** Raf., Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.* = *Merasperma* Raf.
- ***Myriosydrum** Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.* = *Myrsidrum* Raf.
- ***Myrsidrum** Raf., Car. Nuov. Gen. Sp. Sicil. p. 97. 1810, *descr.*, non Bory.
 **Bursa* Raf., op. cit. p. 98, *descr.* (*Alcyonium Bursa* Linn.)
 **clavatum* Raf., l. c., t. 20 f. 12, *descr.* Sicily.
 **dilatatum* Raf., op. cit. p. 99, *descr.* Sicily.
 **effusum* Raf., op. cit. p. 98, *descr.* Sicily.
 **ramosum* Raf., l. c., *descr.* Sicily.
 **vermilara* Raf., l. c., *descr.* (*Lamarchia vermilara* Oliv., *Fucus fungosus* Desf., *Ulva tomentosa* Linn., *Fucus tomentosus* Spach). Sicily.
- ***Nemalectra** Raf., Neogen. p. 4. 1825, *descr.*
 **calida* Raf., l. c., *nom.* "in hot springs" [Eastern United States].
 **fuscata* Raf., l. c., *nom.*
 **plumosa* Raf., l. c., *nom.*
- ***Nostocus** Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom. nov.* [*Nostoc* Linn.].
- ***Opospermum** Raf., Précis Découv. Somiol. p. 48. 1814, *descr.*; Jour. Bot. (Desv.) **4**: 274. 1814, *descr.*
 **nigrum* Raf., l. cc., *descr.* Sicily.
- ***Orimanthia** Raf., Car. Nuov. Gen. Sp. Sicil. p. 95. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*
 **foliacea* Raf., l. c., *descr.* Sicily.
 **vesciculata* Raf., l. c., *descr.* Sicily.
- ***Oxytrema** Raf., Jour. Phys. Chim. Hist. Nat. **89**: 107. 1819, *descr.*; *iter.*, Isis von Oken 1820, **1**: Lit. Anz. p. 243. 1820. [United States].
- Pexisperma** Raf., Car. Nuov. Gen. Sp. Sicil. p. 89. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.* = *Tetraspora* Link (1809) fide Printz.
 **amplectens* Raf., l. c., *descr.* Sicily.
 depressa* Raf., Précis Découv. Somiol. p. 46. 1814, *descr.*; Jour. Bot. (Desv.) **4: 273. 1814, *descr.* Sicily.
 **dichrosperma* Raf., Car. Nuov. Gen. Sp. Sicil. p. 89. 1810, *descr.* Sicily.
 **lutescens* Raf., l. c. t. 20, f. 1, *descr.* Sicily.
 **sputo* Raf., l. c. t. 20. f. 2, *descr.* Sicily.
 **truncata* Raf., l. c., *descr.* Sicily.

- ***Phaxantha** Raf., Car. Nuov. Gen. Sp. Sicil. p. 99. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *lichenoides Raf., l. c., *descr.* Sicily.
- ***Phoracis** Raf., Car. Nuov. Gen. Sp. Sicil. p. 99. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *filicina Raf., l. c., *descr.* Sicily. Regarding this, Rafinesque queries "an Fucus filicinus Jaq. Wulf. & Gmel.?"
- ***Phycerus** Raf., Specch. Sci. 2: 168. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.*
 *bifidus Raf., l. c., *descr.*, Sicily.
- ***Phylictis** Raf., Car. Nuov. Gen. Sp. Sicil. p. 91. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *bifurcatus Raf., op. cit. p. 92, *descr.* Sicily.
 *cervicornis Raf., l. c., *descr.* Sicily.
 *cuneiformis Raf., l. c., *descr.* Sicily.
 *dichotomus Raf., op. cit. p. 91, *descr.* Sicily.
 *latifolius Raf., op. cit. p. 92, *descr.* Sicily.
 *polypodioides Raf., l. c., *descr.* Sicily.
 *subfistulosus Raf., l. c., *descr.* Sicily.
 *undulatus Raf., l. c., *descr.* Sicily.
- ***Physidrum** Raf., Car. Nuov. Gen. Sp. Sicil. p. 96. 1810, *descr.*
 *aggregatum Raf., op. cit. p. 97, *descr.* Sicily.
 *hyalinum Raf., op. cit. p. 97, *descr.* Sicily.
 *pisiforme Raf., l. c. p. 96, *descr.* Sicily.
 *rubescens Raf., op. cit. p. 97, t. 20. f. 11, *descr.* Sicily.
- ***Physotris** Raf., Car. Nuov. Gen. Sp. Sicil. p. 97. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *capitata Raf., Précis Découv. Somiol. p. 46. 1814, *descr.*; Jour. Bot. (Desv.) 4: 273. 1814. *descr.* Sicily.
 *glomerata Raf., Car. Nuov. Gen. Sp. Sicil. p. 97. 1810, *descr.* Sicily.
- ***Physydrum** Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.* = *Physidrum* Raf.
- ***Phytelis** Raf., Car. Nuov. Gen. Sp. Sicil. p. 93. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *atra Raf., op. cit. p. 94, *descr.* Sicily.
 *granulata Raf., l. c., *descr.* Sicily.
 *macrocarpa Raf., l. c., *descr.* Sicily.
 *radiata Raf., op. cit. p. 93. t. 20. f. 3, *descr.* Sicily.
 *sulcata Raf., op. cit. p. 94. t. 20. f. 6, *descr.* Sicily.
 *tuberculata Raf., l. c. (as tuberculata), *descr.* Sicily. = *Lichiton phyteloides* Raf., fide Rafinesque.
- ***Phyxalium** Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
- ***Plaxarthrus** Raf., Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.*
- ***Porula** Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
- ***Potarcus** Raf., Am. Monthly Mag. Crit. Rev. 3: 356. 1818, *descr.*; 4: 208. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89: 107. 1819, *descr.*; iter., Isis von Oken 1820, 1: Lit. Anz. p. 243. 1820.
 *bicolor Raf., l. cc., *descr.* Ohio River.
- ***Sclernax** Raf., Car. Nuov. Gen. Sp. Sicil. p. 90. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *lutescens Raf., l. c., *descr.* Sicily.
 *truncata Raf., l. c., *descr.* Sicily.
- ***Siphorus** Raf., Car. Nuov. Gen. Sp. Sicil. p. 96. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *alternus Raf., l. c., t. 20. f. 9., *descr.* Sicily.
 *fasciculatus Raf., l. c., *descr.* Sicily.

- ***Siphytus** Raf., Car. Nuov. Gen. Sp. Sicil. p. 95. 1810, *descr.*
 *filiformis Raf., op. cit. p. 96, *descr.* Sicily.
 *hexodon Raf., l. c., *descr.* Sicily.
 *obconicus Raf., l. c. t. 20. f. 8., *descr.* Sicily.
 ***Spermipole** Raf., Car. Nuov. Gen. Sp. Sicil. p. 88. 1810, *descr.*; Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
 *effusa Raf., op. cit. p. 89, *descr.* Sicily.
 ***Stereonema** Raf., Anal. Nat. Tabl. Univ. p. 209. 1815, *nom.*
 ***Stygnion** Raf., Ann. Nat. Ann. Synop. p. 16. 1820, *descr.*
 *fluitans Raf., l. c., *descr.* Ohio River.
Vaucheria DC.
 *dichotoma Raf., Précis Découv. Somiol. p. 47. 1814, *descr.*; Jour. Bot. (Desv.) 4: 274. 1814, *descr.* Sicily.
 *flexuosa Raf., l. cc., *descr.* Sicily.
 *stricta Raf., l. cc., *descr.* Sicily.
 ***Vermilaria** Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*
Volvax Linn.
 *fuscus Raf., Specch. Sci. 2: 68. 1814, *descr.* Sicily.
 *ovalis Raf. l. c., *descr.* Sicily.
 ***Zonaria** Raf. Anal. Nat. Tabl. Univ. p. 208. 1815, *nom.*

FUNGI

- Actigea** Raf., Précis Découv. Somiol. p. 52. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*; Med. Fl. 2: 222. 1830, *nom.*, *nota* = *Scleroderma* Pers. fide Saccardo. = ? *Scleroderma* Pers. fide Fischer.
 multifida Raf., Précis Découv. Somiol. p. 52. 1814, *descr.* New Jersey = *Scleroderma flavidum* Ell. & Ev. fide Saccardo.
 sicula Raf., l. c., *descr.* Sicily = *Scleroderma geaster* Fries, fide Saccardo.
 ***Actigena** Raf., Jour. Bot. (Paris) 4: 276 (err. 176). 1814, *descr.* = *Actigea* Raf.
 *multifida Raf., l. c., *descr.* New Jersey = *Actigea multifida* Raf.
 *sicula Raf., l. c., *descr.* Sicily = *Actigea sicula* Raf.
Actinophora Raf., Med. Repos. II. 3: 423. 1806, *nom.*; op. cit. 5: 355. 1808, *nom.*; Jour. Bot. (Paris) 2: 176. 1809, *nom.*; Précis Découv. Somiol. p. 51. 1814, *descr.*; Jour. Bot. (Desv.) 4: 275. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*; Fischer in Engl. & Prantl, Nat. Pflanzenfam. ed. 2. 7a: 119. 1933, *gen. dub.*
 *aurantiaca Raf. l. cc., *nom.*, Précis Découv. Somiol. p. 51. 1814, *descr.*; Jour. Bot. (Desv.) 4: 275. 1814, *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Delaware, Pennsylvania.
 ***Actycus** Raf., Chloris Aetn. p. 13. 180, *nom.*
 *sculus Raf., l. c., *nom.* Sicily.
Aecidium Pers.
 *citrinum Raf., Stat. Gen. Sicil. p. 28. 1810, *nom.* Sicily.
Aedycia Raf., Med. Repos. II. 5: 358. 1808, *descr.*; Jour. Bot. (Paris) 1: 222. 1809, *descr.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* = *Mutinus* Fries, fide Saccardo.
 *alba Raf., l. cc., *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Pennsylvania.
 *rubra Raf., l. cc., *descr.* Pennsylvania.
Agaricus Linn.
 *aterrimus Raf., Jour. Bot. (Desv.) 1: 236. 1813, *descr.* Delaware = *Amanita aterrima* Raf.
 *azureus Raf., l. c., *descr.* Delaware = *Amanita azurea* Raf.
 *ellipticus Raf., Am. Monthly Mag. Crit. Rev. 3: 356. 1818, *nom.* Alleghany Mountains or Ohio.

- **miptica* Raf. ex M'Murtrie, Sketch. Louisv. p. 230. 1819, *nom.* Kentucky.
- **surrectus* Raf., Casket **1831**: 423, l. f. 1831, *descr.* Pennsylvania.
- ****Alveolinus*** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- Amanita*** Pers.
 - **atterima* Raf., Précis Découv. Somiol. p. 49. 1814, *descr.*; Jour. Bot. **4**: 275. 1814, *nom.* Delaware = *Agaricus aterrimus* Raf.
 - **azurea* Raf., l. cc., *descr.*, *nom.* Delaware = *Agaricus azureus* Raf.
- ****Anastomaria*** Raf., Ann. Nat. Ann. Synop. p. 16. 1820, *descr.*
 - **campanulata* Raf., l. c., *descr.* New York.
 - **dimidiata* Raf., l. c., *descr.* New York.
- ****Annularia*** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- ****Astrocitum*** Raf., Med. Repos. II. **3**: 423. 1806, *nom.* = *Astrycum* Raf.
 - **dimidiatum* Raf., l. c., *nom.* New York = *Astrycum dimidiatum* Raf.
 - **multifidum* Raf., l. c., *nom.* Pennsylvania, New Jersey = *Astrycum multifidum* Raf.
 - **quinquefidum* Raf., l. c., *nom.* Pennsylvania, New Jersey = *Astrycum quinquefidum* Raf.
- Astrycum*** Raf., Med. Repos. II. **5**: 355. 1808, *nom.* "tribe of the lycoperoideous" fide Rafinesque = *Actigea* Raf. fide Saccardo.
 - **dimidiatum* Raf., l. c., *nom.*; Jour. Bot. (Paris) **2**: 175. 1809, *nom.*; Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* Pennsylvania, New Jersey.
 - **multifidum* Raf., l. cc., *nom.*; Gerard, l. c., *nom.* Pennsylvania, New Jersey.
 - **quinquefidum* Raf., l. cc., *nom.* Pennsylvania, New Jersey.
- Boletus*** Dill.
 - **hematoporus* Raf. ex M'Murtrie, Sketch. Louisv. p. 230. 1819, *nom.* Kentucky.
 - **pusillus* Raf., Chloris Aetn. p. 13. 1815, *nom.* Sicily.
- Cerophora*** Raf., Med. Repos. II. **5**: 355. 1808, *nom.*; Jour. Bot. (Paris) **2**: 176. 1809, *nom.*; Précis Découv. Somiol. p. 49. 1814, *descr.*; Jour. Bot. (Desv.) **4**: 275. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* = *Hericium* Pers. fide Saccardo.
 - **capitata* Raf., Précis Découv. Somiol. p. 50. 1814, *descr.*; Jour. Bot. (Desv.) **4**: 275. 1814, *descr.*; Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* New Jersey.
 - **clavata* Raf., Med. Repos. II. **5**: 355. 1806, *nom.*; Jour. Bot. (Paris) **2**: 176. 1809, *nom.*; Précis Découv. Somiol. p. 49. 1814, *descr.*; Jour. Bot. (Paris) **4**: 275. 1814, *descr.*; Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* New Jersey.
 - **dichotoma* Raf., Med. Repos. II. **5**: 355. 1808, *nom.*; Jour. Bot. (Paris) **2**: 176. 1809, *nom.*; Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* Central Atlantic United States.
 - **fastigiata* Raf., l. cc., *nom.* Central Atlantic United States.
 - **globosa* Raf., l. cc., *nom.* Central Atlantic United States.
 - **globularis* Raf. ex Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* Central Atlantic United States, prob. = *C. globosa* Raf.
 - **minuta* Raf., l. cc., *nom.* Central Atlantic United States.
 - **pyriformis* Raf., l. cc., *nom.*; Gerard, l. c., *nom.* Central Atlantic United States.
 - **ramosa* Raf. ex Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* Central Atlantic United States.
 - **thamnoides* Raf., l. cc., *nom.* Central Atlantic United States.
- Clavaria*** Vaill.
 - **bicolor* Raf., Med. Repos. II. **5**: 363. 1808, *descr.*; Jour. Bot. (Paris) **1**: 233. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* Virginia.
 - **citrina* Raf., op. cit. 362, 233, *descr.* Pennsylvania.
 - **citrinofusca* Raf., l. cc., *descr.*; Gerard, l. c., *nom.* Pennsylvania.
 - **driophylla* Raf., Jour. Bot. (Paris) **1**: 233. 1809, *descr.* = *C. dryophylla* Raf.
 - **dryophylla* Raf., Med. Repos. II. **5**: 363. 1808, *descr.*; Gerard, l. c., *nom.* Pennsylvania.

- **lepidorhiza* Raf., l. cc., *descr.* Maryland.
- **oxantha* Raf., Précis Découv. Somiol. p. 51. 1814, *descr.*; Jour. Bot. (Desv.) 1: 237. 1813, *descr.*; op. cit. 4: 276 (err. 176). 1814, *nom.* Maryland.
- **rubescens* Raf., Précis Découv. Somiol. p. 51. 1814, *descr.*; Jour. Bot. (Desv.) 1: 237. 1813, *descr.*; Jour. Bot. (Desv.) 4: 276 (err. 176). 1814, *nom.* Pennsylvania.
- **tricolor* Raf., Med. Repos. II. 5: 363. 1808, *descr.*; Jour. Bot. (Paris) 1: 233. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Maryland.
- Colonnaria** Raf., Med. Repos. II. 3: 423. 1806, *nom.*; op. cit. 5: 355. 1808, *descr.*; Jour. Bot. (Paris) 2: 176. 1809, *descr.* = *Clathrus* (Mich.) Pers., fide Saccardo; Fischer in Engler & Prantl, Nat. Pflanzenfam. ed. 2, 7a: 84. 1933 (= *Lindera* G. H. Cunningham, 1931), genus validus fide Fischer l. c. See p. 249-250.
- truncata* Raf., l. cc., *nom.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Pennsylvania = *Clathrus truncatus* Bosc, fide Saccardo.
- urceolata* Raf., l. cc., *nom.*; Gerard, l. c., *nom.* Pennsylvania = *Clathrus columnatus* Bosc, fide Saccardo.
- ***Cyathela** Raf., Am. Monthly Mag. Crit. Rev. 4: 208. 1819, *nom.*
- ***Cyathella** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- ***Cynicus** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- ***Dedalea** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (haud *Daedalea* Pers.!).
- ***Dicarpus** Raf., Med. Repos. II. 3: 423. 1806, *nom.*; op. cit. II. 5: 355. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2: 176. 1809, *nom. subnud.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* = ? *Hydnum* Linn., fide Saccardo.
- **rubens* Raf., l. cc. *nom.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Pennsylvania.
- ***Dicteridium** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- ***Druparia** Raf., Med. Repos. II. 5: 358. 1808, *descr.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* = *Drupasia* Raf.
- **globosa* Raf., Med. Repos. II. 5: 358. 1808, *descr.* Pennsylvania.
- **rosea* Raf., l. c., *descr.* Delaware.
- **violacea* Raf., l. c., *descr.* Pennsylvania.
- **volvacea* Raf. ex Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.*
- Drupasia** Raf., Jour. Bot. (Paris) 1: 223. 1809, *descr.*; Fischer in Engler & Prantl, Nat. Pflanzenfam. ed. 2, 7a: 119. 1933, *gen. dub.* = *Druparia* Raf.
- **globosa* Raf. l. c., *descr.* Pennsylvania.
- **rosea* Raf. l. c., *descr.* Delaware.
- **violacea* Raf. l. c., *descr.* Pennsylvania.
- Dyticia** Raf. Med. Repos. II. 5: 355. 1808, *nom.*; Jour. Bot. (Paris) 2: 176. 1809, *nom.* = *Clathrus* (Mich.) Pers. vel. aff. fide Saccardo; Fischer in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 7a: 84. 1933 = ? *Clathrus* (Mich.) Pers.
- **clathroides* Raf., l. cc., *nom. subnud.* Delaware.
- Endacinus** Raf. Précis Découv. Somiol. p. 51. 1814, *descr.*; Jour. Bot. (Desv.) 4: 276 (err. 176). 1814, *descr.* = *Polysaccum* DC. in Desport & DeCandolle fide Saccardo = *Pisolithus* A. & S.
- tinctorius* Raf., l. cc., *descr.* Sicily = *Polysaccum pisocarpum* Fries, fide Saccardo = *Pisolithus tinctorius* (Pers.) Coker.
- ***Endaematus** Raf., Specch. Sci. 2: 105. 1814, *descr.*
- **albus* Raf., l. c., *descr.* Sicily.
- ***Endematus** Raf., Anal. Nat. Tabl. Univ. p. 207. 1815, *nom.* = *Endaematus* Raf.
- Endoconia** Raf., Jour. Phys. Chim. Hist. Nat. 89: 106. 1819, *descr.*; *iter.*, Isis von Oken 1820, 1: Lit. Anz. p. 243. 1820 = *Hyphymocyteae gen. incert.* fide Saccardo.
- **leucomela* Raf., l. cc., *descr.* Kentucky.
- **stuposa* Raf., l. cc., *descr.* New York.
- ***Endonius** Raf., Am. Monthly Mag. Crit. Rev. 4: 208. 1819, *nom.*

- ***Epixyla** Raf., Med. Repos. II. 3: 423. 1806, *nom.*
 *clavata Raf., l. c., *nom.* Central Atlantic United States.
 *cylindrica Raf., l. c., *nom.* Central Atlantic United States.
 *lineata Raf., l. c., *nom.* Central Atlantic United States.
- ***Eriosperma** Raf., Med. Repos. II. 5: 356. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2: 177. 1809, *nom. subnud.*
 *alba Raf., l. cc., *nom.* Pennsylvania.
 *fugax Raf., l. cc., *nom.* Pennsylvania.
- ***Eudacnus** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- ***Favaria** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- Gelatina** Raf., Med. Repos. II. 3: 423. 1806; op. cit. 5: 356. 1808, *descr.*; Jour. Bot. (Paris) 2: 177. 1809, *descr.* = *Tremella* Dill., fide Saccardo.
 *alba Raf., l. cc., *nom.* Eastern United States.
 *aurantiaca Raf., l. c. II. 3: 423. 1806, *nom.* Eastern United States.
 *candida Raf., l. c., *nom.* Eastern United States.
 *flava Raf., l. c., *nom.* Eastern United States.
 *foetidissima Raf., op. cit. II. 5: 356. 1808, *nom.*; Jour. Bot. (Paris) 2: 177. 1809, *nom.* Eastern United States.
 *lutea Raf., l. cc., *nom.* Eastern United States.
 *rubra Raf., op. cit. II. 3: 423. 1806, *nom.*; op. cit. 5: 356. 1808, *nom.*; Jour. Bot. (Paris) 2: 177. 1809, *nom.* Eastern United States.
- ***Gelatinaria** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (non Roussel !)
- ***Gemmularia** Raf., Jour. Phys. Chim. Hist. Nat. 89: 106. 1819, *descr.*; *iter.*, Isis von Oken 1820, 1: Lit. Anz. p. 243. 1820; Med. Fl. 2: 270. 1830, *nom.*; Atl. Jour. 1: 181. 1833, *descr.* = *Tucahus* Raf. = *Rugosaria* Raf.
 *albida Raf., Atl. Jour. 1: 182. 1833, *descr.*, *nom. alt.* *Tucahus albidus* Raf. Pennsylvania, Ohio, Kentucky.
 *leviuscula Raf., Jour. Phys. Chim. Hist. Nat. 89: 106. 1819, *descr.*; *iter.*, Isis von Oken 1820, 1: Lit. Anz. p. 243. 1820; Atl. Jour. 1: 181. 1833, *descr.*, *nom. alt.* *Tucahus leviusculus* Raf. Virginia, Kentucky.
 *rimosa Raf., Atl. Jour. 1: 181. 1833, *descr.*, *nom. alt.* *Tucahus rimosus* Raf. Virginia, North Carolina.
 *rugosa Raf., Jour. Phys. Chim. Hist. Nat. 89: 106. 1819, *descr.*; *iter.*, Isis von Oken 1820, 1: Lit. Anz. p. 243. 1820; Atl. Jour. 1: 181. 1833, *descr.*, *nom. alt.* *Tucahus rugosus* Raf. Maryland, South Carolina.
- ***Geoglossum** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (an Persoon ?)
- ***Gymnopus** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (an Persoon ?)
- Hectocerus** Raf., Med. Repos. II. 3: 423. 1806, *nom.* = *Hericium* Pers., fide Saccardo.
 *clavatus Raf., l. c., *nom.* Central Atlantic United States.
 *dichotomus Raf., l. c., *nom.* Central Atlantic United States.
 *globosus Raf., l. c., *nom.* Central Atlantic United States.
 *pyriformis Raf., l. c., *nom.* Central Atlantic United States.
 *thamnoides Raf., l. c., *nom.* Central Atlantic United States.
- Hepataria** Raf., Med. Repos. II. 5: 350. 1808, *nom.*; Jour. Bot. (Paris) 2: 168. 1809, *nom.* = *Tremella* Dill. vel aff. fide Saccardo.
 *cuneata Raf., l. cc., *nom.* Central Atlantic United States.
 *erecta Raf., l. cc., *nom.* Central Atlantic United States.
- Hericium** Pers.
 *grande Raf., Jour. Bot. (Desv.) 1: 236. 1813, *descr.*; Précis Découv. Somiol. p. 50. 1814, *descr.*; Jour. Bot. (Desv.) 4: 276 (err. 176) 1814, *nom.* New Jersey.
- Hydnum** Linn.
 *aurantinum Raf., Précis Découv. Somiol. p. 50. 1814, *descr.* Delaware = *H. aurantium* Raf.
 *aurantium Raf., Jour. Bot. (Desv.) 1: 237. 1813, *descr.*; op. cit. 4: 276 (err. 176). 1814, *nom.* Delaware.

- barbatum Raf., Med. Repos. II. 5: 363. 1808, *descr.*; Jour. Bot. (Paris) 1: 234. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Delaware = *Hydnum* sp. dub. fide Saccardo.
- caerulescens Raf., Med. Repos. II. 5: 363. 1808, *descr.*; Jour. Bot. (Paris) 1: 234. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* (*cerulescens*). New Jersey = *Hydnum* sp. dub. fide Saccardo (as *coerulescens*).
- citrinum Raf., l. cc., *descr.*; Gerard, l. c., *nom.* Pennsylvania = *Hydnum* sp. dub. fide Saccardo.
- dilatatum Raf., l. cc., *descr.*; Gerard, l. c., *nom.* Pennsylvania = *Hydnum* sp. dub. fide Saccardo.
- *puniceum Raf., Jour. Bot. (Desv.) 1: 237. 1813, *descr.*; Précis Découv. Somiol. p. 50. 1814, *descr.*; Jour. Bot. (Desv.) 4: 276 (err. 176). 1814, *nom.* Delaware.
- Hydromycus** Raf., Med. Repos. II. 5: 356. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2: 178. 1809, *nom. subnud.* = *Dacryomyces* Nees fide Saccardo.
- *aquosus Raf., l. cc., *nom.* New Jersey, Pennsylvania.
- *tremelloides Raf., l. cc., *nom.* New Jersey, Pennsylvania.
- Hypolepia** Raf., Med. Repos. II. 5: 356. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2: 178. 1809, *nom. subnud.* = *Dacryomyces* Nees fide Saccardo.
- *difformis Raf., l. cc., *nom.* Central Atlantic United States.
- *igniarias Raf., Med. Repos. II. 5: 356. 1808, *nom.* Central Atlantic United States.
- *ignarius Raf., Jour. Bot. (Paris) 2: 178. 1809, *nom.* Central Atlantic United States.
- Isaria** Pers.
- *odora Raf., Jour. Bot. (Desv.) 1: 237. 1813, *descr.*; Précis Découv. Somiol. p. 51. 1814, *descr.*; Jour. Bot. (Desv.) 4: 276 (err. 176). 1814, *nom.* Maryland.
- ***Lamyxis** Raf., Ann. Nat. Ann. Synop. p. 16. 1820, *nom. provis. sub Sisostrema globularis* Raf.
- Leptopora** Raf., Med. Repos. II. 5: 355. 1808, *descr.*; Jour. Bot. (Paris) 2: 177. 1809, *descr.* = *Poria* Pers. fide Saccardo.
- *difformis Raf., l. cc., *nom.* Central Atlantic United States.
- *nivea Raf., l. cc., *nom.* Central Atlantic United States.
- *stercoraria Raf., l. cc., *nom.* Central Atlantic United States.
- Lycoperdon** (Tourn.) Pers.
- *coccineum Raf., Jour. Bot. (Desv.) 1: 237. 1813, *descr.*; Précis Découv. Somiol. p. 51. 1814, *descr.*; Jour. Bot. (Desv.) 4: 276 (err. 176). 1814, *nom.* Delaware.
- *violacinum Raf., (*Lycoperdon*) Jour. Bot. (Paris) 4: 276 (err. 176). 1814, in syn. [Pennsylvania] = *Omalycus violacinus* Raf.
- Lycopodium** Linn.
- *violacinum Raf., Jour. Bot. (Desv.) 1: 236. 1813, *descr. sub Mycastrum siculum* Raf., — *Lycoperdon* intended. Pennsylvania = *Omalycus violacinus* Raf.
- Merulius** Pers.
- *undulatus Raf., Jour. Bot. (Desv.) 1: 237. 1813, *descr.*, Précis Découv. Somiol. p. 50. 1814, *descr.* Maryland.
- Morchella** Dill.
- *cava Raf., Car. Nuov. Gen. Sp. Sicil. p. 88. 1810, *descr.*; Stat. Gen. Sicil. p. 28. 1810, *nom.*; Chloris Aetn. p. 14. 1815, *nom.* Sicily.
- *odorata Raf., Fl. Ludovic. p. 12. 1817, *descr.* Louisiana.
- Mycastrum** Raf., Jour. Bot. (Desv.) 1: 236. 1813, *descr.* = *Omalycus* Raf. fide Desv., Jour. Bot. (Desv.) 4: 276 (err. 176). 1814 = *Actigea* Raf. fide Saccardo.
- *siculum Raf., l. c., *descr.* Sicily.
- ***Nidularia** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (an Fries?)
- Omalycus** Raf., Précis Découv. Somiol. p. 52. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* = *Scleroderma* Pers. fide Saccardo.
- *erosus Raf., Précis Découv. Somiol. p. 52. 1814, *nom. nov.*, *Lycoperdon complanatum* Desv., Jour. Bot. (Desv.) 4: 276 (err. 176). 1814.

- violacinus Raf., l. cc., *descr.*, *nom.* (*Lycoperdon violacinum* Raf.). Pennsylvania = *Scleroderma violacinum* De Toni, fide Saccardo.
- ***Onygena** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (an Persoon ?)
- Peziza** Dill.
- **alborufa* Raf., Med. Repos. II. 5: 362. 1808, *descr.*; Jour. Bot. (Paris) 1: 232. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Pennsylvania.
- **atrata* Raf., l. cc., *descr.* Pennsylvania, New Jersey.
- **cupularia* Raf., Med. Repos. II. 5: 362. 1808, *descr.* Delaware = seq. ,
- **cupularis* Raf., Jour. Bot. (Paris) 1: 232. 1809, *descr.* Delaware.
- **depressa* Raf., l. cc., *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Pennsylvania.
- **globulosa* Raf., l. cc., *descr.*; Gerard, l. c., *nom.* Pennsylvania.
- **lupularia* Raf. ex Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.*
- **ochrochlora* Raf., l. cc., *descr.*; Gerard, l. c., *nom.* New Jersey.
- **pulcherrima* Raf., l. cc., *descr.*; Gerard, l. c., *nom.* Pennsylvania.
- **smaragdina* Raf., Jour. Bot. (Paris) 1: 232. 1809, *descr.* Pennsylvania.
- **smeraldina* Raf., Med. Repos. II. 5: 362. 1808, *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885 (*smiraldina*) Pennsylvania = *P. smaragdina* Raf.
- ***Pherima** Raf., Am. Monthly Mag. Crit. Rev. 4: 208. 1819, *nom.* = *Phorima* Raf.
- ***Phiala** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (an *Phialea* Fries ?)
- Phorima** Raf., Med. Repos. II. 3: 423. 1806, *nom.*; op. cit. 5: 355. 1808, *descr.*; Précis Découv. Somiol. p. 49. 1814, *descr.*; Jour. Bot. (Desv.) 4: 275. 1814, *descr.*; Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* = *Favolus* Beauv. fide Desvaux, Jour. Bot. (Desv.) 4: 275. 1814.
- **betulina* Raf., Med. Repos. II. 3: 423. 1806, *nom.*; op. cit. 5: 355. 1808, *nom.*; Jour. Bot. (Paris) 2: 177. 1809, *nom.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Central Atlantic United States.
- **boletoides* Raf., Med. Repos. II. 3: 423. 1806, *nom.* Central Atlantic United States.
- **coccinea* Raf., op. cit. II. 5: 355. 1808, *nom.*; Jour. Bot. (Paris) 2: 177. 1809, *nom.* Central Atlantic United States.
- **difformis* Raf., op. cit. II. 3: 423. 1806, *nom.* Central Atlantic United States.
- **minuta* Raf., op. cit. II. 5: 355. 1808, *nom.*; Précis Découv. Somiol. p. 49. 1814, *descr.*; Jour. Bot. (Paris) 2: 177. 1809, *nom.*; Jour. Bot. (Desv.) 4: 275. 1814, *descr.* Central Atlantic United States.
- ***Phyllops** Raf., Fl. Ludovic. p. 172. 1817, *nom.* Louisiana.
- ***Piemycus** Raf., Jour. Bot. (Desv.) 1: 236. 1813, *nom.* subgen. sub *Mycastrum siculum* Raf. = *Piesmycus* Raf.
- Piesmycus** Raf., Med. Repos. II. 5: 355. 1808, *descr.*; Jour. Bot. (Paris) 2: 176. 1809, *descr.* = *Lycoperdon* (Tourn.) Pers. vel aff. fide Saccardo; gen. dub. fide Fischer in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 7a: 72. 1933.
- **nigrescens* Raf., l. cc., *nom.* Central Atlantic United States.
- **violaceus* Raf., l. cc., *nom.* Central Atlantic United States.
- ***Polystema** Raf., Ann. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- ***Poronea** Raf., Ann. Nat. Tabl. Univ. p. 207. 1815, *nom.*
- Priapus** Raf., Med. Repos. II. 3: 423. 1806, *nom.*; op. cit. 5: 355. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2: 176. 1809, *nom. subnud.* = *Phallus* Linn. vel aff. fide Saccardo.
- **niveus* Raf., l. cc., *nom. subnud.* Virginia.
- ***Pyrenium** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- Pyrisperma** Raf., Med. Repos. II. 3: 423. 1806, *nom.*; op. cit. 5: 355. 1808; *nom. subnud.*; Jour. Bot. (Paris) 2: 177. 1809, *nom. subnud.* = *Tuber* (Micheli) Fries vel aff. fide Saccardo.
- **hypogea* Raf., l. cc., *nom.* New Jersey.
- ***Ramaria** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.* (an Persoon ?)

- Riella** Raf. ex Sacc., Syll. Fung. **15**: 323. 1901, in syn. = *Rimella* Raf. = *Tylostoma* Pers. vel aff. fide Saccardo.⁸
- Rimella** Raf., Am. Monthly Mag. Crit. Rev. **4**: 208. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. **89**: 106. 1819, *descr.*; *iter.*, Isis von Oken 1820, **1**: Lit. Anz. p. 243. 1820 = *Tylostoma* Pers. vel aff. fide Saccardo.
- **obovalis* Raf., Jour. Phys. Chim. Hist. Nat. **89**: 106. 1819, *descr.*; *iter.*, Isis von Oken 1820, **1**: Lit. Anz. p. 243. 1820. Virginia and along the Ohio River.
- ***Rotula** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- ***Rugosaria** Raf., Atl. Jour. **1**: 181. 1833, *nom. alt. Gemmularia* Raf. = *Tucahus* Raf.
- ***Sarcanthia** Raf., Fl. Ludovic. p. 172. 1817, *nom. Louisiana.*
- ***Sarcomelas** Raf., Fl. Ludovic. p. 172. 1817, *nom. Louisiana.*
- Sarconemus** Raf., Anal. Nat. Tabl. Univ. p. 210. 1815, *nom.* "genus omnino incertum" Saccardo.
- ***Sisostrema** Raf., Ann. Nat. Ann. Synop. p. 16. 1820, *nom.*, ut videtur sphalm. = *Sistotrema* Pers.
- **globularis* Raf., l. c., *descr.* New York.
- ***Sphaeropsis** Raf., Anal. Nat. Tabl. Univ. p. 207. 1815, *nom. nov.* = *Sphaeria* Pers.
- Stemastrium** Raf., Med. Repos. II. **5**: 355. 1808, *nom. subnud.*; Jour. Bot. (Paris) **2**: 177. 1809, *nom. subnud.* Virginia = *Geaster* Mich. aff. fide Saccardo.
- **Bosicii* Raf., l. cc., *nom. subnud.* Virginia.
- ***Stericium** Raf., Am. Monthly Mag. Crit. Rev. **4**: 208. 1819, *nom.*
- ***Stipiza** Raf., Ann. Nat. Tabl. Univ. p. 211. 1815, *nom.*
- Thelephora** Ehrh.
- **aurantiaca* Raf., Med. Repos. II. **5**: 363. 1808, *descr.*; Jour. Bot. (Paris) **1**: 233. 1809, *descr.* Central Atlantic United States.
- **nigrescens* Raf., Jour. Bot. (Desv.) **1**: 237. 1813, *descr.*; Précis Découv. Somiol. p. 50. 1814, *descr.*; Jour. Bot. (Desv.) **4**: 276 (err. 176). 1814, *nom.* Pennsylvania.
- **revoluta* Raf., l. cc., *descr.*; Jour. Bot. (Desv.) **4**: 276 (err. 176). 1814, *nom.* Pennsylvania.
- **semicampanulata* Raf., Med. Repos. II. **5**: 363. 1808; Jour. Bot. (Paris) **1**: 233. 1809, *descr.* Pennsylvania.
- ***Trichidium** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom. nov. Trichia* Hall.
- Tuber** (Micheli) Fries
- **rufescens* Raf., Jour. Bot. (Paris) **1**: 235. 1813, *nom.*; Précis Découv. Somiol. (p. 3 of cover), *nom.* Sicily.
- ***Tuberium** Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom. nov. Tuber* (Micheli) Pers.
- ***Tucahus** Raf., Med. Fl. **2**: 270. 1830, *descr.*; Atl. Jour. **1**: 1833, *descr.* = *Gemmularia* Raf. = *Rugosaria* Raf. fide Raf.
- **albidus* Raf., l. cc., *nom.*, *descr.* Pennsylvania, Ohio, Kentucky.
- **leviusculus* Raf., l. cc., *nom.*, *descr.* Carolina.
- **rimosus* Raf., Atl. Jour. **1**: 181. 1833, *descr.* Virginia and North Carolina.
- **rugosus* Raf., l. cc., *nom.*, *descr.* Maryland to South Carolina.
- Uredo** Pers.
- **citrina* Raf., Car. Nuov. Gen. Sp. Sicil. p. 88. 1810, *descr.* Sicily, on *Dianthus dubius*.
- Volvaria** Fries
- **coccinea* Raf., Med. Repos. II. **3**: 423. 1806, *nom.*; Gerard, Bull. Torr. Bot. Club **12**: 37. 1885, *nom.* Maryland = *Volvycium coccineum* Raf.
- Volvycium** Raf., Med. Repos. II. **5**: 358. 1808, *descr.*; Jour. Bot. (Paris) **1**: 222. 1809, *descr.*; Anal. Nat. Tabl. Univ. 211. 1815, *nom.* = *Battarreia* Pers. aff. fide

⁸ In all of Rafinesque's published papers that I have examined I did not detect the name *Riella* Raf. It is perhaps published in the work of some other mycologist; unfortunately Saccardo cites no reference.

Saccardo = gen. dub. fide Fischer in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 7a: 119. 1933.

**coccineum* Raf., l. cc., *descr.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* Maryland.

Xylissus Raf., Med. Repos. II. 5: 356. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2: 177. 1809, *nom. subnud.* = *Dacryomyces* Nees vel aff. fide Saccardo.

**cylindricus* Raf., l. cc., *nom.* Pennsylvania.

**lineatus* Raf., l. cc., *nom.* Pennsylvania.

**oblongus* Raf., l. cc., *nom.* Pennsylvania.

**Zonilia* Raf., Anal. Nat. Tabl. Univ. p. 211. 1815, *nom.*

LICHENES

**Epidrolithus* Raf., Life of Travels p. 136. 1836, *nom.* Pennsylvania. An *Leptogium* (Ach.) S. Gray?

**Leptuberia* Raf., Med. Repos. II. 5: 350. 1808, *nom.*; Jour. Bot. (Paris) 2: 167. 1809, *nom.*

**amorpha* Raf., l. cc., *nom.* Pennsylvania.

**Scyphorus* Raf., Anal. Nat. Tabl. Univ. p. 208. 1815, *nom. nov.* *Scyphophorus* Acharius.

MUSCI

**Diphas* Raf., Am. Monthly Mag. Crit. Rev. 1: 429. 1817, *nom. nov.* *Diphascum* Eaton = *Diphyscium* Ehr.

**Heterodon* Raf., Med. Repos. II. 5: 350. 1808, *nom.*; Jour. Bot. (Paris) 2: 167. 1809, *nom.* = ? *Fissidens* Hedwig.

**bryoides* Raf., l. cc., *descr.* New Jersey.

ARNOLD ARBORETUM

HARVARD UNIVERSITY



Merrill, Elmer D. 1943. "An Index to Rafinesque's Published Technical Names for the Cellular Cryptogams." *Farlowia :a journal of cryptogamic botany* 1(2), 245–262. <https://doi.org/10.5962/p.315981>.

View This Item Online: <https://www.biodiversitylibrary.org/item/33558>

DOI: <https://doi.org/10.5962/p.315981>

Permalink: <https://www.biodiversitylibrary.org/partpdf/315981>

Holding Institution

Missouri Botanical Garden, Peter H. Raven Library

Sponsored by

Missouri Botanical Garden

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: Harvard University Herbaria

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.