

Jotoc salo p. 282-287

A

SELECTION

OF THE

CORRESPONDENCE

OF

LINNÆUS,

AND

OTHER NATURALISTS,

FROM THE

Original Manuscripts.

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1821.

You have been a severe critic of Rivinus, but I shall think you very great if you do not fall under the same censure. If you assume rules, you ought to follow them, else you can accomplish no system. If you lay down natural classes, you ought to conform to them. How much circumspection becomes necessary! If you infringe any of their limits, you commit a fault. If you can combine them all, and proceed in safety through them, you will be more fortunate than any other man. But if you go in search of affinities, independent of rules or combinations, what do you produce? not the promised system. Would you follow the traces of Morison?

Are the outermost flowers of the Opulus irregular *? and what then is your definition of regularity?

Why is any one wrong in assigning a solitary seed to Sanguisorba, and four seeds to Tormentilla †? The latter may be as correct as eight or sixteen.

Why may not trees with an umbilicated fruit be associated with such as are otherwise? I fear you do not well understand what is meant by this term. Do you place Rubus in a different class from Rosa? Are you not rather incautious here?

I should like to see your characters of Orchis and its allies, not taken from the spur. Do but turn over the American species in Plukenet, Petiver, and

Ray; and in the first place the European ones in Vaillant, &c.

allow that he has his errors, and in great number; yet no system more natural than his has been seen before or since. I confess that many of his classes are entirely arbitrary. I wish you may be able to reduce them all to natural classes. Tournefort's Labiatæ, Cruciformes, Liliacei, Umbellati, Papilionacei, and Compositi, are all good*, with a few slight additions or removals.

Page 9. Pontedera struck upon rocks which Tournefort avoided, for Pontedera was less solicitous of following nature. He undoubtedly created great confusion in the order of Compositi; but in many instances he was useful, though less so than Vaillant. Pontedera was almost the only philosophical botanist, though I cannot every where subscribe to his theory.

You say "Knaut's method was overthrown by Dillenius." Why is this? There surely was never a more unjust judge than Dillenius, in his apology for various methods. I wonder he was never answered. He certainly deserved it. He wrote learnedly indeed, and was therefore worthy of a learned reply.

As to Magnol, I regret that we have not more artificial methods, founded on various parts. If we had, they might easily help us to decide in which

^{* &}quot;They are." Haller.

^{+ &}quot;There are more." Haller.

^{* &}quot;But they are not Tournefort's own." Haller.

classes any particular part of the fructification was of importance, and in which it was not.

With regard to Vaillant, I have never yet met with any body more sagacious in genera than he was, and I am daily sensible of this. Possibly he may have given characters where you say there are none. And what if he has not correctly ascertained the plants of Bauhin? Can this be always done with accuracy from imperfect descriptions, without figures, and without particular information? If I should publish an absurd definition, are all to be reckoned unlearned who may not understand me?

In your judgment of the systems of Boerhaave and Ray I agree, that their classes are faulty in the point in question; but are there any preferable to them?

I wonder at your conjunction of Lychnis and Rapunculus!

That trees ought not to be separated from herbs, is evident upon inspection; for in what does an herb differ from a tree?

Page 10. Are there not herbs with an umbilicated fruit and others not so, as well as trees?

Are not Cachrys and Simpla nobla * arborescent, though of the tribe with two naked seeds?

Is not Tournefortia, though a tree, one of the Asperifoliae?

Are there not shrubs without end among the Labiata, or plants with four naked seeds?

How many arboreous species of Conyza have we from Africa and America, as well as other very large trees with compound flowers?

What do you understand by the double calyx of Chenopodium, or a calyx of the fruit different from the common calyx *?

Have you traced any distinctive characters among the cups of the Lichens? or do you derive any from the quantity of their leaves?

Page 11. I wonder that, after having seen Plumier's book on Ferns, you can look for their characters in the shape of the leaves.

Certainly I never saw your genera, nor those of Dillenius, before my own were written. It is curious to observe how we, nevertheless, have adopted the same opinion in various places. So it happens with respect to the flower of the *Unifolium*, my account of which occurs in a page of the *Flora Lapponica*, printed in April last year.

Page 13. You cite Vaillant and Dillenius whenever you wish to give an example of any faults. Who has always avoided errors? happy is he who commits the smallest number! I would not, if I could, pick out the faults of good authors. There are easier modes of correcting others.

Page 16. You assign to the Uva Ursi a fourcleft calyx; and you elsewhere say it has eight stamens. The Uva Ursi of Fl. Lapp. t. 6, f. 3, known

^{*} Phyllis nobla. Linn. Sp. Pl. 335.

^{*} Haller apparently means the *Utriculus* of some recent authors, a fine close membrane covering the seed in *Chenopodium*.

to me from my childhood, has always ten stamens, with a five-cleft calyx*. Have you any other species under this name?

You object to a definition of parts, founded on their use, or physiology; and you reprehend Pontedera on this account. I doubt whether you could, in zoological subjects, define the nose, otherwise than by its use, so as to render your definition applicable to every kind of animal, as birds, fishes, insects, &c. The task would surely be difficult.

This very day your kind present of plants is come to hand, for which I cannot sufficiently thank you, but I will do all I can to show my gratitude. Among them all the *Aphyllanthes* has given me most pleasure, as your specimen enables me to supply what was wanting in my character of that genus.

Anonis alpina humilior, radice ampld +, seems a species of Trifolium, not of Anonis, though there are many seeds in each pod!

Androsace alpina angustifolia glabra, flore singulari;, appears to be wanting, which I much regret. I wish I could see but a flower, to know certainly whether it be my Diapensia §.

Salix alpina, alni folio rotundo glabro is Fl, Lapp. n. 355 ||. Alchemillæ affinis alpina * seems a species of Alsinella, or rather Arenaria.

The Thora † I never saw before, and I rejoice to have now seen its nectaries, so as to ascertain that point.

Cruciatu alpina latifolia lævis, in my garden is only a male plant. What you have sent has stamens and pistils in the same flower ‡. Have you ever seen the male? Is it a different species from the Rubia quadrifolia vel latifolia lævis of C. Bauhin, or Rubia quadrifolia italica hirsuta of J. Bauhin?

Polygaloides and Chamwbuxus are but varieties of the same species §.

Acini pulchra species || is a species of Teucrium, and comes very near the Marum Cortusi. The upper lip of the corolla is wanting.

Salix alpina rotundifolia incana, is Fl. Lapp. n. 359, t. 7, f. 1, 2 (S. reticulata).

Astragalus alpinus, foliis viciæ, ramosus, &c. is Fl. Lapp. n. 267 (A. alpinus). I perceive, by another specimen, the A. Onobrychis dictus is sufficiently different in appearance. Whether these two

^{* &}quot;Right," says Haller in a note. He had evidently confounded the Arbutus in question with Vaccinium Vitis Idan,

[†] Trifolium alpinum. Linn. Sp. Pl. 1080.

[‡] Androsace lactea. Linn. Sp. Pl. 204.

^{6 &}quot;They are widely different." Haller.

S. herbacea, Linn. Sp. Pl. 1445,

^{* &}quot; Cherleria." Haller.

[†] Ranunculus Thora. Linn. Sp. Pl. 775.

^{† &}quot;It is always androgynous." Haller. The plant is Asperula taurina of Linnæus.

^{§ &}quot;The same plant." Haller.

[|] Thymus alpinus. Linn. Sp. Pl. 826. Haller rightly says, "the upper lip is not wanting."