## TRANSACTIONS

OF THE

## LINNEAN SOCIETY.

> 1. Observations on the Perigynous Inseftion of the Stamina of Plants. By Richard Anthony Salisbury, Esq. F.R.S. V.P.L.S.

Read March 15, 1803.
The following Observations have been hastily committed to paper, to excite the attention of those Botanists, whom I might have the honour of addressing this evening, to a very important branch of their favourite science; namely, that insertion of the Stamina which the celebrated Jussieu has denominated Perigynous: for I lament that as yet I have not met with one of our own countrymen, who had ever thought about the subject at all. I presume that this perigynous insertion is entirely factitious, or in other words, which you will all comprehend whether you have read Jussieu's book or not, that there is no instance whatever in the whole Vegetable Kingdom, of Stamina being inserted in the Calyx. Nor is this mere logomachia, or a cavil respecting terms : for, if my ideas be true, the difficulty of distinguishing Calyx from Corolla will rarely occur, and the designation of each of those parts correspond more exactly with its real office and importance in the Vegetable Economy.

Who would not be astonished to find among Quadrupeds, any Genus with Testiculi originating in the Præputium! Yet among Vegetables, Stamina proceeding from the Calyx appear to me equally unnatural. The first ideas which we gain on any subject, whether correct or incorrect, attach with such force, that it is no easy business to dismiss them afterwards: moreover, very few will be at the trouble of examining for themselves, or so unpopular as not to adopt the fashions of the day. For, unfortunately, there are fashions in science, as well as in dress : but the Laws of Nature, founded by Infinite Wisdom, I believe like Truth itself to be immutable, and the Motto which we have lately adopted who belong to this Society, will not allow us to deceive ourselves or others respecting them. By exposing this pretended perigynous insertion indeed, many of the Classes, and some of the Orders in the French arrangement must be given up; but the Genera themselves will come in more conformably to their Natural Aftinities, and often as Jussieu himself hints in his Notes. I was anxious to have gone to Paris in the autumn, to have stated this, and many other botanical dubia, with the greatest deference to that great man: "Lubuit enim integros adire fontes atque haurire:" but Time flies rapidly unless seized by the forelock, and I know not when I can spare a month again. Till so wished-for an occasion, therefore, presents itself, I must be content with such assistance as I can gain at home. That comet-like genius Correa de Serres, who is now in the perihelion of Paris, long ago told me that Corolla regularis and irregularis would be found in every Natural Family, and I have reason to think the same may be said of Germen inferum and superum. Having examined a great many flowers to verify that supposition, I could not avoid attending also to the insertion of their several parts : this I have constantly found to be in one common point, more or less con-
spicuous indeed, yet generally so distinct as to merit, both from its appearance and the dignity of its office, a particular name: for, in this common point I suspect all the necessary changes in the vessels to produce the various parts of the flower and fruit first begin. I have long called it Torus, to distinguish it from the Receptaculum of Aggregate and Syngenesious flowers: the real structure of the latter I have yet to learn, but Aggregate flowers appear to me nothing more than a close mode of Inflorescentia. Adanson has the merit of having first described this common point of insertion by the name of Diske. The period at which he published his book, was particularly unfavourable to the study of Natural Families, fewhaving been then learned enough in Botany to understand it, and those few who might have understood it, disgusted by the uncouth spelling, barbarous names, and sharp attacks on the Sexual System then shining forth in all its glory. I am also ashamed to own, that for many years I never looked into the Familles des Plantes, regarding them with the same contempt as our President has thrown upon them in his preliminary Discourse printed in the first volume of our Transactions. The solid information they contain, however, has since taught me to think very differently; and the honest and patient labourer in the mine of Natural History, may always have this satisfaction, that the value of what he discovers, will, at one period or another, be fully appreciated and understood. In hopes of meeting with something respecting this common Point of Insertion, Thave just read Mirbel's Traité d'Anatomie et de Physiologie V'gétale; but he says little more than that it is a part of the Calyx, and is totally silent as to its connecting the different parts of the flower: this is the more wonderful, as he must have dissected many of the flowers which I shall presently have occasion to mention.

In distinguishing the Calyx and Corolla, he is far more explicit.
and very clearly proves the inconsistency of the notion, that in the whole tribe of Monocotyledones, what we vulgarly call the Flower is a true Calyx: indeed I nearly agree with Mirbel respecting these two parts, though my conclusions are drawn from very different premises.

As the insertion of the Stamina appears to me of so much consequence in putting an end to all our doubts, previously to mentioning the most striking instances I have met with, I must trespass upon your time and attention, while I briefly state the opinions that have hitherto prevailed respecting Calyx and Corolla. With the immortal Linnés doctrine, that the Calyx is a continuation of the outer, and the Corolla of the inner bark, we are here all perfectly acquainted; and that in some plants which have only one of the above-mentioned integuments, he thought it of so little moment, by which of those titles the part was described, that he says "Corolla (vel si mavis) Calyx." In his golden legacy, the Philosophia Botanica, he observes, "Limites " inter calycem et corollam absolutos, naturam non posuisse, patet ex "Daphnide, ubi connata ambo et margine unita veluti folium Buxi." This however is not the case in all the species of that genus : stronger instances of one running gradually into the other, may be seen in Delphinium, Ranunculus, Nymphea, Castalia, and Magnolia; notwithstanding which I have not the smallest doubt of their being perfectly distinct organs, and performing totally different functions. For, similar arguments might be produced to 4confound all the other parts of the flower: in some species of Erica, the upper leaves change insensibly into Bracteæ: in the common Holly, the Pedunculus itself becomes soft and of a fine scarlet colour like the fruit: in Cratagus the Calyx is frequently persistent and pulpy like the Pericarpium: in Illicium Floridanum, the Petals insensibly grow narrower and so like the filaments, that
they can only be distinguished by having no Antheræ: nay in Canna, we have even an instance of the male parts of the flower passing into the female, where the innermost lacinia of the Corolla to which the Anthera is attached, always coalesces more or less, so as to form one and the same lamina with the dilated petaloid Style. Jussieu adopts the Linnæan definitions of Calyx and Corolla somewhat amplified; but in his practice, if I may use a vulgar expression, he does not stick to his text. He says, "Calyx integumentum floris exterius, est corticosa pedunculi floralis " productio. Corolla, interius tegumen, pedunculi libro non epider" midi continuum, non persistens, sed cum staminibus plerumque deci" duum fructum involvit aut coronat, nunquam cum ipso concrescens, "et suas partes cum staminibus numero equalibus sapius alternans." He then quotes Narcissus as an example of an integument, which growing to the fruit with stamina opposed to its divisions, must consequently be a true Calyx. Here I think that consummate Botanist mistaken : for, the Spatha appears to me the first expansion of what has been hitherto erroneously called Epidermis, and to supply the place of a more perfect Calyx in that Natural Family: nor can I see that the integument is joined to the Pericarpium in a different way from that of many other truly epigynous flowers among the Dicotyledones: lastly, what weighs with me more than every other consideration is the affinity of the part in question to the Stamina, a character the importance of which Jussieu owns in strong terms ; "Corolla magna cum staminibus cognatio" is his expression. I was glad to find these sentiments corroborated by Mirbel, who runs into the other extreme however; for he says, that as the Calyx is a continuation of the bark, and that many of the Monocotyledones have no bark at all, in those genera which have only a single integument it must necessarily be Corolla. He also proposes that the integument of all flowers, whether
whether it be one or two, should in future be described by the common name of Perianthium, including both Calyx and Corolla under that appellation. Ventenat in the Magasin Encycl. 1re année, tome xi. gives as an essential characteristic of the Corolla its Trachere or spiral vessels : but to say nothing of the practical difficulties attending such a distinction, they have since been found not only in some true and legitimate Calyces, but even in the Bracteæ of Strelitzia by Mr. Bauer; from whose observation as well as my own I am quite convinced that they are not the common tubular vessels of the plant in a state of decay, as Mirbel supposes. Adanson noticed these Trachea in his Familles des Plantes long before Ventenat, quoting the original observer, Saussure. I believe I have now mentioned all the opinions hitherto promulgated on this subject, none of which have ever appeared quite satisfactory to me: for, the overpowering similarity between many Monocotyledonous and Dicotyledonous flowers forcibly withholds me from distinguishing them into two sorts with Jussieu, whilst the widely different organization of their Stems totally overturns the Linnean hypothesis of the Corolla being invariably a continuation of the Liber or inner bark. In this difficulty I have no guide but analogy to lead my dim and imperfect researches after the truth: yet it is from pure analogy, that we dare to entertain some of the most sublime opinions; for, what astronomer doubts of the numerous stars before him being inhabited? I therefore consider all the different parts of the flower as proceeding from one common point, just as the Genitalia of animals have one common origin under the Venter. Of these parts, the Calyx, or outer cover, answers pretty nearly to the Praputium and Labia Pudendi, being like them continuous with the exterior muscles of the whole individual: the Corolla, or inner coyer, seems to have no less analogy with the two next important
parts in animals, the Glans Penis and Clitoris, being like them flaccid and evanescent when the business of impregnation is over: for from above 500 experiments, made by carefully taking away the Corolla while the flower was very young, I have found its presence to be of more importance than has been usually supposed. The remaining similarities are so obvious, and so emphatically described by our great master in his Sponsalia Plantarum, that I need not recall them to your memory. I would therefore define the Calyx, Involucrum floris exterius, herbe plerumque colore et substantiâ consimile, toro insertum, staminibus semper discretum : and the Corolla, Involucrum floris interius, herbe plerumque colore et substantia dispar, toro insertum, staminibus vel conjunctum vel in eodem puncto ortum. In the last definition I have entirely omitted the situation of the Stamina as being alternate with the divisions of the Corolla, this distinction proving too inconstant for a primary character; a far more certain one is obtained by referring to their conjunction with it and joint termination. The Calyx being thus reduced within its natural limits, and the Receptacle brought forward to its long-neglected rights and honours among the other parts of the flower, the difficult and ambiguous Insertions, which Jussieu has stated with so much candour and integrity, vanish ; and all the Natural Orders which agree in that respect may be arranged in one continued series. Moreover, when only one Involucrum is present, and the common analogies of colour, figure and consistence fail, far less, if any, difficulty will occur in determining it: thus in Protea, which have the Stamina inserted near the top of the Involucrum, it is indubitably a true Corolla; while in Atriplices which have the stamina inserted in the receptacle, it is as surely a true Calyx, exactly corresponding with that of Amaranthi; in fact, Atriplices and Amaranthi are only divisions of one and the same Natural Order. It now only
remains for me this evening to go through the Perigynous Genera of Jussieu, pointing out what I conceive to be their real insertion: but as English Botanists may be too justly reproached with neglecting the study of his Orders, on some future occasion I hope to lay before you the result of my meditations on the Monocotyledones, to which I devoted the evenings of last winter: the Dicotyledones being far more numerous, and containing between two and three hundred genera, that I have never yet even looked at, will take me a much longer time.

The Palms are the first Perigynous Order : of these I have examined three genera living, and from the different dried specimens in Sir Joseph Banks's Herbarium, and the excellent drawings in the Coromandel Plants, I have no doubt that the Stamina of the whole Order are inserted in a distinct hypogynous receptacle. Jussieu indeed hesitates and says after " imis laciniis calycinis, (an potius glanduloso corpori hypogyno?") From their affinity with Grasses, especially Juncus, one would at first conclude their Involucrum to be a Calyx; but their Spathæ and Bracteæ are the parts analogous to the Glumæ of Grasses, and some genera have evidently a true monopetalous Corolla. The Palms come nearer to the Aroidece than Asparagi in a Natural Series, and may now be placed next to them : no one who compares the figures of Borassus and Cocos in the Coromandel Plants, with Aponogeton and Pothos, will doubt about this; and the germination of the last genus, which I have repeatedly raised from seeds, still further confirms it. Asparagi, the second Perigynous Order, have their stamina likewise inserted either in the Corolla, or a distinct hypogynous receptacle: the fragrant Lily of theValley and Alstroemeria, which certainly belongs to this Order, are examples I would offer for your examination. Junci, the third Perigynous Order, will in all probability be greatly altered in the next edition of Jussieu's Genera.

Genera. Eriocaulon, the first genus, I yet know little about; but when Mr. Brown returns, he will inform us. I guess it is allied to Scirpus and Schoenus, or perhaps comes still nearer to Typha. Restio and Juncus have no affinity at all with the other genera of this section : their Stamina are completely hypoggynous, and they must be placed after their near relations the Grasses. Xyris is a very curious genus, and possibly a true Iridēa, though not for the Reason which Jussieu gives, its being triandrous: but the Filaments are inserted in the same part of the Corolla, which twists up when it decays as in some of the Iridéce, so that it merely differs in having Germen superum. Before I could reconcile myself to Germen superum and inferum being found in the same Family, I had placed it near Tradescantia. Aphyllanthes has given me more trouble than any genus in all the Monocotyledones : the Stamina are inserted in the Corolla, and I believe it will come in at the end of Bromelēa. Rapatea (Mnasium of Schreber) must certainly join the same order after Tillandsia. Mayaca (Syena of Schreber) belongs to a distinct order which I would call, after the largest and most known genus in it, Tradescantēe ; making the termination always in $\bar{e} c e$ long, rather than the hated and pompous oideॅé: thus all confusion, either in writing or speaking of the genus which gives a name to the Order, in the plural number, is avoided: this Order of Tradescantēe will contain Pontederia, Hapalanthus, Commelina, Callisia, Tradescantia, and Conda of the Hindoos, all which genera have stamina hypogyna. Pollia must migrate to the Asparagi, as Jussieu supposes. The third section of Junci constitutes another very natural assemblage, which we all know well, the Tripetaloidece of Linnè : in these the Stamina are so very evidently placed on a large hypogynous receptacle, that I am totally at a loss to account for Jussieu's making them perigynous. Of the genera in the fourth section of Junci, Cabomba vol. yIII.
(Nectris of Schreber) belongs also to the Tripetaloidea: Scheuchzeria and Triglochin, in natural affinity, must I believe join Zannichellia, Potamogeton, Ruppia, and Zostera, after the Arums; and the remainder are a separate order of themselves, the Veratrèce. In this order of Veratrèce, the Stamina are inserted in the Corolla: it will include besides Colchicum, which has not the least immediate affinity to Crocus, Bulbocodium, Tulipa, Melanthium, Bathuna, and Wurmbea. Lilia, the fourth perigynous order, as they now stand, contains Tulipa just mentioned, then Erythronium, Gloriosa, and Uvularia, which all belong to Asparagèe; and lastly Fritillaria, Imperialis, Lilium, and Yucca. As many of these genera will soon be in flower, my opinion that their Stamina are inserted in a true legitimate corolla, exactly analogous to the most perfect among the Dicotyledones, can be easily examined. In all the remaining Perigynous Orders, Bromelece, Asphodeli, Narcissi, and Irides, the Insertion of the stamina is likewise so very plain, that it is only necessary to refer you to the plants themselves : indeed they have only been placed in this Class by Jussieu, because he considers the Involucrum of all Monocotyledones, as a Calyx and not a Corolla. The affinities of some few of the genera, however, may perhaps be deemed worthy of arresting your attention for a few momentslonger. Phormium, the New Zealand Flax plant, I have little doubt, belongs to Bromelēe : as it is now in most of our collections, and has produced flowers in this country, I trust ere long to see them brought to this table: from Miller's figure they appear similar to thase of Pitcairnia; but its tough rigid leaves, and peculiar meally pubescence, first gave me the idea of its real place in the great chain of nature. Gethyllis has not the Habit of Crocus when more carefully inspected, but rather that of Curculigo and Hypoxis, with which it must be placed. Tulbaghia used to be common
common in our collections, and I wish that any Botanist who meets with it would attend to it: I place it now after Allium, but for no good reason; the stamina are inserted in the Corolla, which has a double Limbus. Tacca puzzles me extremely : is it, really monocotyledonous? if so, it comes nearer to Dioscorea than any genus I know. Polyanthes, I think, belongs to the same order with Hemerocallis cordifolia and carulea of our gardens, which are no Hemerocallides, but a distinct genus: shall we name them Saussurea? for their spiral vessels are very beautiful. Xiphidium appears to me very near, if not the very same genus with Wachendorfia: I remember seeing it at Sion House: it is particularly tender, and in this country flowers imperfectly about Christmas: this plant, with Dilatris, Hamodorum of our President, Argolasia, Anigozanthus of Billardiere, Philydrum, and Wachendorfia, form an easy and distinct order, which should be placed before the Veratrēa.

The fifth and sixth classes of Jussieu introduce the Dicotyledones : the latter of these is entirely composed of what he thinks Apetalous Plants, and consequently, whenever the Stamina are inserted in the Involucrum, he calls them Perigynous. I have already observed, however, that if there be a great similarity in the substance of the Involucrum and the Filaments, it should rather be considered a Corolla: and we shall find that this is not only the case in all the genera of this class, but that some of them have both a Calyx and Corolla, of which Quinchamalium the second genus of the first order is a remarkable instance. Hippophae among the Eleagni, seems to me to be a real Diclinis, and I should guess it ought rather to go near to the Atriplices: I have not yet examined the fruit, but according to Giertner it has germen superum. Daphne Laureola is now in flower; and though the Involucrum in this species is green, the Filaments run down it,
and it falls off soon, without any of the usual characters of a Calyx: the Torus in this species is very conspicuous, for which reason I mention it. The third Order contains the Protea, which, as has been said before, have undoubtedly a true corolla: there are about eight Genera in this Order not yet distinguished by Jussieu. Laurus in the fourth Order appears to me also to have a legitimate corolla: the stamina at any rate are inserted in the Torus, so that it must be placed among the Hypogynous genera. The fifth Perigynous Order of Polygonéce is so common in all gardens, fields, and road sides, that it will be a very easy business for any one to satisfy himself that their stamina are not inserted in the Involucrum; and therefore whether it be a calyx or corolla is no matter, they must be hypogynous. The same holds good with the sixth Order of Atriplices, only that the Torus is often so much larger, that there cannot remain the least shadow of doubt respecting the Insertion : in Rivina Dodecandra particularly, the Stamina are ranged upon the receptacle in three different rows, one above the other. The ninth Class contains genera with Perigynous Corollas, not Stamina ; that is, the Corolla inserted in the Calyx : the same powerful objection remains to be brought against this distinction, namely that it is not founded in Truth, the Corolla being really inserted in the receptacle; nay in most of the Genera, it is quite separate at the base both from the Calyx and Stamina, as in Kalmia, Rhododendron, Azalea, Ledum, Itea, Erica, Calluna, Salaxis, Andromeda, Vaccinium, Menziesia, Clethra, Pyrola: this order I have particularly studied, and here again we have an instance of Germen superum and inferum in the same Family. The fourth order of Campanulēce closes this class, and in every species I have yet examined there is a flat receptacle covering the disk of the germen, in which both Calyx and Corolla originate. We come now to the fourteenth
fourteenth class of Jussieu, containing no less than thirteen large Orders; and among them the Calycanthemi of Linnè, which have ever been considered by all Botanists as perigynous. It is with no little diffidence, therefore, that I venture publicly to contradict this generally received opinion, the absurdities and inconsistencies of which however are so glaring, that I think, when they are demonstrated, it will be given up. Nor is it very wonderful that so false a conception, which I imagine first originated from Tournefort's quaint expression of "Calyx in fructum abiens," should have been held universally: for till Jussieu's book actually forced Botanists to open their eyes a little wider than they had been accustomed, nobody ever thought of scrutinizing the connection of the different parts of the flower any further than was necessary to find its place in the Linncan System. Most commonly the part taken by authors for Calyx is in fact a very magnificent receptacle, upon which the real Calyx as well as all the other parts of the flower are inserted: and this whether the Pericarpium be inferum as in Pyrus, apparently inferum as in Rosa, or superum as in Prunus. The best and shortest way of explaining my sentiments will be to describe the Insertion in one genus of each Order. Sempervivum stands first, and whoever will give himself the trouble of looking at it, will find the Calyx, Corolla, and Stamina all inserted on a shallow cotyliform body, which is likewise covered with Honey : that this receptacle is completely distinct from the Calyx, appears from its remaining in full vigour after the Calyx, Corolla, and Filaments are withered. Saxifraga in the next Order is a very useful genus to study on this head, for in some species the Germen is inferum, in others only semi-inferum, in others again quite superum; yet in every species, the Calyx, Corolla, and Stamina proceed from a thick callous margin, which is persistent. Cactus in the third Order
has a flower which we all know very well; but so far from allowing this to be Perigynous, I cannot find that it has any Calyx at all: its Stamina are exceedingly numerous, and gradually coalesce with the Petals into a thick Neck (I would hardly call it Tube) just as in Camellia. Ribes placed in this Order at present surely belongs to Saxifraga: compare the flowers of the common Currant with Chrysosplenium or Adoxa: but the serratures and callosities of the Herba in the Gooseberry first indicated to me its affinity. Portulaca in the fourth Order has only a 2-phyllous Calyx, in which there is not the smallest room for the five Petals to be crammed : the whole Pedunculus in this genus might with equal propriety be termed Calyx as its Torus. Mesembryanthemum in the fifth Order as to insertion exactly resembles Cactus, but this genus has a regular quinquefid Calyx. Oenothera and Epilobium are very common examples of the 6th Order: their receptaculum is so very long and remarkable, that it never fails to strike a beginner in Botany : at least many of my young friends have not only hesitated but thought it impossible that a Master in the science could call this part Calyx : nor are the objections of a sensible Scholar always to be despised, for he comes unprejudiced on the subject, and sees the Works of Nature as they really are. The beautiful Myrti constitute the seventh assemblage of Perigynous Corollas : in no order is their real insertion more necessary to be understood than this; for the essential characters of the Genera often depend upon it solely. Leptospermum and Philadelphus are two instances which I shall not easily forget: when the former genus was first discovered in New Zealand by Sir Joseph Banks and Dr. Solander, they had no doubt from its habitus, that it was a new genus; but upon comparing it with the Linnæan characters of Philadelphus, it answered so exactly that they hesitated. Forster afterwards was less scrupu-
lous, but he only cut the Knot, for his character is good for nothing. Some time after the publication of his work, Sir Joseph Banks brought me specimens of Leptospermum and Philadelphus in fruit from Kero, desiring me to show him any difference: this I could not do. Being well persuaded, however, that two such dissimilar plants could not belong to one genus, the following spring I forced the dwarf variety of Philadelphus, and compared them when in flower: all difficulty immediately ceased; for I saw that in Leptospermum the Calyx and the Corolla were alternately inserted by a very short Unguis in the same line of the Receptaculum ; but in Philadelphus the Calyx has a broad dilated base, so as completely to include the Corolla, which is inserted in a separate line nearer the Pistillum: these differences, now that we know them, may always be observed, even in the fruit; for the scars where the Calyx and Corolla were attached remain, affording another proof that the part underneath cannot possibly be a Calyx. Melastoma in the eighth Order perhaps alone constitutes a Natural Family; but as it is a Tropical genus, we can scarcely expect to see it well divided in our days: in one species from Jamaica, which flowered with me at Chapel-Allerton, there was no Calyx whatever, but in place of it, a very narrow line similar to what is left in Eucalyptus after its Involucrum falls off. Lagerstramia in the ninth Order has a very peculiar Insertion, like nothing I now recollect but that of Sophora tetraptera: in both these genera the receptacle is very large and hollow, and the scars of all the various parts inserted in it remain very deep and conspicuous. The tenth Perigynous Order contains under the name of Rosacea eight sections : in the first, our common Cherry and Apple Blossom, though generally passed over by Botanists, afford incontrovertible proofs of the presence of a receptacle distinct from the Calyx, as well as Fragaria, Potentilla,

Comarum, Geum, and Rubus: Rosa of all others stands conspicuous in this respect, its receptacle, vulgarly called Hip with us, being very similar to that of Ficus. In the eleventh Order of Leguminosa, this part is again of primary importance, and in no genus more so, than the vast Mimosa, which will, I suspect, be most naturally subdivided by attending to its receptacle : I know three species at least, in each of which its structure is very differrent. In Cassia the Receptacle is remarkable and persistent, whereas the real Calyx is deciduous. In Trifolium it varies most beautifully, and the numerous Papilionacece, from Port Jackson, will possibly be better discriminated by it.

In the two last Orders of Perigynous Corollas, Terebintacece and Rhamni, I scarcely yet know a genus except Cneorum: this has most clearly both Petala and Stamina hypogyna quite separate from the Calyx. Ilex has its Petals equally distinct from the Calyx, and cohering slightly at the base with each other. Phylica I think belongs to a very different order: its whole fructification is singular, and I know no genus that approaches it but Penca: in both I suspect the real Calyx is inferus and 2-phyllous.

I have thus, Gentlemen, endeavoured to point out, what I conceive to be a false notion which has misled the very first Botanist now living, respecting the insertion of the Stamina in so great a number of Natural Families. I fear that I have tired you, " ornari enim res ipsa negat:" but I see many around me whose abilities to decide upon far more abstruse and difficult points in Botany are unquestionable, and, if my remarks have allured only one of you to investigate the subject, or to study the Affinities of Plants, I shall feel very proud.


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