The ear-coverts only to just beneath the eye chestnut, the feathers white-shafted. Chin, throat, and all the lower parts white. Flanks pale sepia-grey; under tail-coverts the same, tipped white.

Irides reddish brown. Legs umber.

Length 4.6 inches, wing 2.3, tail 2.05, tarsus 0.7, bill at front 0.3.

This bird is close to Staphida torqueola, Swin.; but in that species the chestnut commences at the base of the lower mandible, passes under the eye and round the nape in a broad band of chestnut-brown, and the last three tertiaries are margined white on inner web. This is absent in the Assam bird. Obtained by Mr. M. J. Ogle near Sadya and Brahmakhúnd, Eastern Assam.

In my note-book I find that I obtained one example in the Dikrang valley, Dafla hills, which I shot at camp no. 9; but this was subsequently lost somehow or other, and therefore I did not bring it into the list of birds from the Dafla hills, published in the Journ. Asiatic Society of Bengal.

It is also interesting to record the occurrence near Sadya of

Halcyon pileata und Podica personata.

LXVI.—On British Polyzoa.—Part II. Classification. By the Rev. Thomas Hincks, B.A., F.R.S.

Order INFUNDIBULATA.

Suborder CHEILOSTOMATA.

In attempting the classification of the Cheilostomatous Polyzoa, one of the most important points to be determined is the exact amount of weight which is to be assigned to the colonial habit or mode of growth in constituting the generic groups. Smitt takes the position that the system of classification should be based entirely on the characters of the individual zooœcium; and amongst these characters he assigns the first place to the form of the aperture*.

* "Quod ad hunc ordinem (Cheilostomata) in subordines distribuendum attinet, principia sequimur, quæ conjecisse videtur primus Milne-Edwards, quum, in adnotationibus ad Flustras apud Lamarck, formam zooœcii solam esse de Bryozois notam dixit, quæ certo limite genera describeret" (Smitt, "Bryozoa marina in regionibus arcticis et borealibus viventia," Œfv. k. Vet.-Akad. Förh. 1867, p. 468). "In its generic character" (he is speaking of his genus Hippothoa) "of course we must cast away the form of the colonial growth, founding it upon the form of the zooœcial aperture" ('Floridan Bryozoa,' part ii. p. 40).

I may remark here that Prof. Smitt's method is, of course, inappli-

The opinions of so learned and able an investigator are entitled to the most respectful consideration, and properly carry very great weight with them. No doubt many points may be urged in support of the position which he has assumed; and these he has presented in his various works with much force and ample illustration. But I have been unable to satisfy myself that the extreme view which he adopts in reference to the colonial characters is philosophically just, or (consequently) that the systematic method based upon it is likely to yield a good practical result. As to the latter point, I think I may appeal with some confidence to the writings of Prof. Smitt himself. The agglomeration of diverse forms, to which the application of his theoretic principle has in many cases given rise, cannot certainly be regarded as natural, and may fairly be taken as a warning against the entire disregard of colonial characteristics.

After giving the subject the best consideration in my power, it seems to me that to represent at all adequately what may be called the family relationships of a tribe like the Polyzoa, in which colonial life is all but universal, more or less account must be taken of the two elements, the zooœcial and the colonial, and that the circumstances of each case must decide what amount of systematic significance shall be assigned to the latter. I have no doubt that authors have commonly laid undue stress on trifling variations in the mode of the colonial growth, and have consequently multiplied genera needlessly, and have at the same time obscured the natural relationships.

Another fruitful source of error has been the tendency to make the mere habit of growth, apart from the characters supplied by the structure of the cell, the basis of generic groups. Thus the old genera *Lepralia* and *Eschara* are miscellaneous assemblages of forms which have often little in

common but general habit.

Between the two extremes, that of the older classification and that which has found so able an advocate in Prof. Smitt, the true systematic method must, I believe, be sought. The position which I should adopt would be, that whilst the zooœcium is undoubtedly the most important and significant element, the mode in which the cells are combined, the facies of the adult colony, is a point that must be taken account of in forming natural groups. In applying the principle here

cable to the other divisions of the Polyzoa. In dealing with the Cyclostomata, for instance, the genera are perforce founded in great part on the mode in which the cells are combined—on the colonial habit.

laid down, the chief weight will be assigned to zooœcial affinity; but cardinal and striking differences in the colonial organization may require the separation (as a matter of classification) of forms agreeing more or less in the character of the cell. I will give one or two illustrations. The Gemellipora eburnea, Smitt, forms erect shoots in its adult state, and has its ivory-coloured cells, bearing a general resemblance to those of Eucratea, arranged in pairs, back to back, like those of Gemellaria, but with a difference. The aperture is nearly round, with a broad sinus below and two small lateral sinuses. The Gemellipora striatula, Smitt, which is identical with Lepralia venusta, Norman, is an incrusting species, its cells decumbent and adnate, arranged side by side, so as to form a continuous expansion, and presenting in almost every point a very marked contrast to G. eburnea. But there is a resemblance in the form of the aperture; and on the strength of this Smitt refers the two to the same genus*. In this case, the shape of the mouth only is taken into account, to the exclusion of the other portions of the cell, and the colonial characters are of course entirely ignored. It can hardly be contended that this is a natural alliance in any true sense of the term. It seems to me eminently unnatural; but it is only one of many similar results to which the rigorous application of Prof. Smitt's method has conducted him.

To take another case. The Membranipora vulnerata, Busk, is a crustaceous form, spreading in patches of indefinite shape and size, having the front area of its cells completely covered in by a calcareous lamina, and furnished with vibracular cells, which alternate with the ordinary zooœcia throughout the colony†. In the general character of the cells and the position of the vibracula it agrees with the genus Cupularia, Lamx.; but the latter possesses a zooœcium of definite form, usually more or less conical or cup-shaped, and is free, in all probability, in all stages of its existence, certainly in its adult state. In recent specimens "the entire surface of both the concave and convex surfaces is covered with a continuous chitinous

epidermis" Busk.

Smitt unites M. vulnerata with Cupulariat, relying on the general similarity of the cells and vibracula, and ignoring altogether the remarkable difference in the organization of the colonies, and the complete change which has taken place in the conditions of the colonial life. I cannot recognize

^{* &#}x27;Floridan Bryozoa,' part ii. pp. 35, 37.
† In another part of this paper I have constituted a new genus for the reception of this form, which is clearly distinct from Membranipora. † 'Floridan Bryozoa,' part ii. p. 14.

in this a natural arrangement, and should certainly separate the two forms generically, though quite prepared to admit that genealogically they may be not very remotely connected.

Proceeding to the application of the principle that I have just laid down, the old genus Lepralia, founded on mere similarity of habit, without reference to the zooœcial characters, must of course be dismembered and divided into groups, based on the structural peculiarities of the cell. I have suggested a

number of such groups in another part of this paper.

As to the question whether forms which exhibit an erect mode of growth should be combined in one genus with those which are crustaceous in habit, I believe that no universal rule can be laid down. One thing seems to me clear—that the tendency to form free expansions, consisting of a single layer of cells, ought not to be accounted a generic diagnostic. The genus Hemeschara represents a very trivial variety of habit, and forms a most unnatural group, including as it does very

distinct types of cell.

Nor can the development of erect foliaceous expansions, composed of two layers of cells placed back to back, by forms which very commonly assume a simply crustaceous habit, be taken as a distinctive character in itself, and apart from structural peculiarities in the zooœcium. Lepralia Landsborovii has been transferred to the genus Eschara, because it takes on at times such an erect, foliaceous habit, though more usually crustaceous in its mode of growth. But this very trifling and occasional change of habit is a very insufficient ground for severing it from the simply incrusting forms to which it is closely allied in zooœcial character (e. g.

Lepralia reticulata, L. trispinosa, &c.).

On the other hand, the habitual formation of erect, well-compacted, more or less dendroid zoaria, which marks the adult or perfect condition of the species, is a character fairly included in the generic diagnosis. The old genus Eschara rests on this foundation; but, like Lepralia, it will require to be subdivided should it be found to include various distinct zooccial types. I cannot see that the validity of this character is affected by the fact that in many cases the dendroid zoaria exhibit a tendency to be decurrent at the base, and spread out into a lepralioid crust of varying size. This is no doubt a significant genealogical indication; but if we are to have any distribution into groups at all, I see no reason why forms which have made a great and distinctive advance in colonial development should not be set apart from those which have been left behind at a lower grade. At the same time we

should expect them to retain signs of their descent in some

part of their developmental history*.

Prof. Smitt makes no account of differences in the mode of growth. Finding a species with the characteristic cell of Membranipora and the equally characteristic colonial habit of Retepora†, he at once ranks it as a Membranipora. But surely the remarkably diverse plan of the gemmation, which has resulted in the formation of an erect reticulate zoarium instead of a continuous crust, should count for something. From my point of view, I should regard this form as the type of a distinct genus in the Membraniporidan series. I am well aware that there will be many difficulties in seeking to give practical effect to the principles I have briefly indicated; but difficulties neither few nor slight seem to attend every

attempt at the classification of the Polyzoa.

To sum up, whilst agreeing with Prof. Smitt in assigning the highest systematic value to the zooœcium, and dissenting entirely from the authors who have founded their genera on mere colonial habit, I hold that the latter should not be altogether disregarded, but that in its more marked modifications it should enter as an element into generic diagnosis. The form of the zooœcial aperture, the architecture and structural composition of the cell, and the plan of the gemmation are all to be taken into account. I have made no reference to the appendicular organs (avicularia and vibracula) as systematic helps. In some sections they are very constant in character and position, and may be employed with propriety as distinctive marks; but amongst the Membraniporidæ (Busk) they constitute the most unstable and variable structural element, and are of comparatively little value for systematic purposes.

The polypides amongst the Infundibulata generally offer few marked structural peculiarities. Amongst the Ctenostomata the presence of a gizzard is a true generic character. The peculiar arrangement of the tentacles in Valkeria uva of authors, and some other kindred forms, on which I have founded the genus Campylonema, is a character of undoubted importance. But, speaking generally, with our present knowledge we do not derive much help from the polypides in constructing our

secondary groups.

† Membranipora sigillata, Smitt, 'Floridan Bryozoa,' part ii. pp. 8-10.

^{*} Prof. Smitt himself retains the genus Flustra, Linn.; but in an early stage of growth F. foliacea (and no doubt the same is the case with other species) forms a spreading crustaceous network, often of considerable size, and in this condition is not distinguishable, so far as either the habit or the structure of the cell is concerned, from a Membranipora. The genus is really founded on the remarkable colonial characters of the adult.

I am quite prepared for the criticism that some of the divisions which I shall propose are really artificial rather than natural. Must there not always be a large element of artificiality in any scheme for distributing into definite groups the series of natural forms, so variously interconnected and melting as they do at all points one into the other?

Family Membraniporidæ, Busk and others.

The large and heterogeneous group of Cheilostomatous Polyzoa composing this family was ranged by Johnston under the two genera Membranipora and Lepralia. The latter, comprehending an immense number of species, has been maintained by Busk in its integrity; and he has been followed by many other writers on the Polyzoa. D'Orbigny, in his great work the 'Paléontologie Française,' has broken it up in part, and distributed its contents through several genera. Gray, in his 'Catalogue of the British-Museum Radiata,' has introduced a number of new groups to include certain sections of the genus Lepralia, a few of which have every claim to stand, while a large proportion are founded upon trivial characters and are wholly superfluous.

But the most elaborate and philosophical attempt to place the classification of these forms on a more natural basis has been made by Prof. Smitt in his 'Critical Review of the

Scandinavian Marine Bryozoa.'

Every student of the Polyzoa is deeply indebted to the Swedish zoologist for his minute and thorough and discriminating investigation of the northern species, in all the stages of their growth and development, and through all their varietal modifications, and, whether he may accept all his conclusions or not, for his suggestive views respecting the true method of classification. Whilst freely admitting the great value of those views under many of their aspects, I find myself quite unable to accept a large number of the practical results to which they have conducted their author.

In attempting the very difficult task of revising the classification of the *Membraniporidæ*, I have derived the most valuable assistance from Prof. Smitt's writings; but I have been compelled to differ frequently from him as to the definition and composition of the groups which are to supplant the older divisions. In the present paper I merely propose to characterize briefly some of the new genera into which, I believe, the *Membranipora* and *Lepralia* of authors ought to

be resolved.

The genus Lepralia includes a multitude of forms agreeing

in certain general characters, but many of them distinguished from the rest by differences of very great significance. For example, L. nitida, Johnston, and L. Peachii, Johnston, agree in being adnate and incrusting, and in having cells which are calcareous, decumbent, and contiguous; but they differ widely in the structural composition of the cell (the plan upon which it is built); and to group them together is simply misleading. The definition of the genus, in short, is too general and vague. To make any approach to a natural system our groups must be founded on a careful and minute study of the individual cell in its various stages of growth.

The following seem to me to constitute natural and well-

defined groups:-

1. Membraniporella, Smitt.

(Lepralia, part, Johnst., Busk, &c.)

Zoarium incrusting; zooæcia closed in front by a number of flattened calcareous ribs, more or less consolidated.

Type Lepralia nitida, Johnston.

2. CRIBRILINA, Gray.

(Lepralia, part, Johnston &c.)

Zoarium incrusting; zooæcia in a single layer, contiguous, having the front more or less occupied by transverse or radiating punctured furrows.

Type Lepralia radiata, Moll.

3. Mucronella, nov. gen.

(Lepralia, part, Johnston &c.)

Zoarium incrusting; zooœcia usually ovate, punctured round the base, with a suborbicular or semicircular aperture, the inferior margin mucronate, a denticle within it; avicularia generally wanting.

Type Lepralia Peachii, Johnston.

4. MICROPORELLA, nov. gen.

(Lepralia, part, Johnston &c. Porellina, Smitt. Reptoporina, part, D'Orbigny.)

Zoarium incrusting; zooœcia with a semicircular aperture, the lower margin straight and entire; a semilunate or circular pore below it.

Type Leprialia ciliata, Pallas.

The Reptoporina of D'Orbigny includes this group; but as

it also embraces a miscellaneous assemblage of forms, it seems better to employ a new name.

5. Mastigophora, nov. gen.

(Lepralia, part, Johnston &c. Hippothoa, part, Smitt.)

Zoarium incrusting; zooœcia with a semicircular orifice; the inferior margin straight, with a central sinus; one or more lateral vibracula.

Type Lepralia Hyndmanni, Johnston.

6. Schizoporella, nov. gen.

(Lepralia, part, Johnston &c. Hippothoa, part, Smitt.)

Zoarium incrusting; zooœcia with a semicircular or suborbicular orifice, the inferior margin with a central sinus; avicularia usually lateral, sometimes median, with an acute or rounded mandible.

. Type Lepralia unicornis, Johnston.

7. LEPRALIA, Johnston (part).

(Lepralia, Smitt.)

Zoarium incrusting (or erect?); zooæcia with a semielliptical aperture, contracted on each side about the middle or below it.

Type Lepralia Pallasiana, Johnston.

Smitt has retained Johnston's name for the section of the old genus Lepralia with a more or less horseshoe-shaped aperture; and it is clearly right that his decision should be respected. The group seems to be a natural one.

8. Escharella, Smitt (part).

(Lepralia, Johnston, part. Eschara, part.)

Zoarium incrusting, or rising into foliaceous expansions, which are either simple or bilaminate; zooæcia with a sub-orbicular aperture, the lower margin slightly curved inward; the peristome raised and forming a secondary aperture, which is channelled in front; a median avicularium generally placed immediately below the sinus.

Type Lepralia reticulata, Macgillivray.

I retain Smitt's name provisionally for this large and well-defined group; but I have serious doubts whether the introduction of a new name is not a less evil than the retention of one which has been so variously applied.

9. CYLINDROPORELLA, nov. gen.

(Lepralia, part, Norman &c.)

Zoarium adnate, incrusting; zooœcia having the front wall composed of a single piece, not depressed; oral extremity produced, tubular, with a terminal orifice; an elevated pore on the front of the cell.

Type Lepralia tubulosa, Norman.

10. LAGENIPORA, nov. gen.

(See 'Annals' for September 1877, p. 214.)

Type L. socialis, Hincks.

11. Schizotheca, nov. gen.

Zoarium incrusting; zooœcia with a suborbicular (primary) aperture, the lower margin slightly sinuated; secondary aperture raised, tubular, notched or dentate in front; ooœcium terminal, with a fissure in the front surface; avicularia borne on distinct areas and distributed amongst the cells, sometimes wanting.

Type Lepralia fissa, Busk.

12. RHYNCHOPORA, nov. gen.

(Lepralia, part, Johnston.)

Zoarium incrusting; zooœcia with a suborbicular or subquadrangular aperture, the lower margin supporting an uncinate process; a large avicularium (in fully developed specimens) placed transversely below the aperture; ooœcium terminal, closed in front by a calcareous lamina.

Type Lepralia bispinosa, Johnston.

13. Anarthropora, Smitt (part).

(Lepralia, part, Busk.)

Zoarium incrusting; zooœcia free and suberect above, aperture transversely elongate, contracted, with an entire and thickened peristome; an avicularium below and above the aperture.

Type Lepralia monodon, Busk.

The diagnosis is founded on the adult state. The primary aperture is slightly arched above, with a straight inferior margin, and is little if at all elevated.

I quite agree with Mr. Norman* that Smitt has united distinct types in his genus Anarthropora; and in conformity

^{*} Rep. Brit. Assoc. 1868, fig. 309.

with his suggestion, and to avoid confusion, I have assigned this name to L. monodon.

Many other distinct groups are blended in the genus Lepralia of authors; I merely give the foregoing as a sample of the work of redistribution which has to be done, and must reserve the more complete treatment of the subject for some future opportunity.

The genus Membranipora also includes a large number of species; but there seem to be few distinct types of structure

amongst them.

1. MICROPORA, Gray.

(Membranipora, part, Busk. Lepralia, part, Norman, &c.)

Zoarium incrusting; zooœcia with prominent raised margins; front depressed, wholly calcareous; oral aperture semicircular, enclosed by a calcareous border.

Brit. spec. Membranipora coriacea, Esper. Lepralia complanata, Norman.

2. Setosella, nov. gen.

(Membranipora, part, Busk. Cupularia, part, Smitt.)

Zoarium incrusting; zooæcia with raised margins; front depressed and wholly calcareous; aperture semicircular; vibracular cells alternating with the zooæcia throughout the colony; vibracula setiform.

Type Membranipora vulnerata, Busk.

3. Megapora, nov. gen.

(Lepralia, part, Busk.)

Zoarium incrusting; zooæcia with prominent raised margins; front depressed, wholly calcareous; oral aperture trifoliate; oral valve composed of two portions, a fixed transversely elongate lamina and a movable lip.

Type Lepralia ringens, Busk.

Suborder CTENOSTOMATA, Busk.

Smitt has pointed out that the principal character on which this suborder is founded, the operculum of setæ, occurs occasionally amongst the Cheilostomata and is not absolutely distinctive. Ehlers questions the validity of this division, and proposes to dismember it, by separating the fleshy forms, Halcyonellea, Ehrenb: (Alcyonidium, &c.), from the Vesiculariidæ. The latter he would constitute a distinct group, Ann. & Mag. N. Hist. Ser. 4. Vol. xx. 36

characterized by the presence of a jointed stem and the development of the zooœcia by budding from the internodes of this stem. For this group he suggests the name Bryozoa

stolonifera*.

I confess I cannot see that Busk's classification is invalidated by the mere fact that we find in two or three cases amongst the Cheilostomata a structure analogous to the opercular termination of the cell in the Vesiculariidæ†. We do not meet with completely isolated groups; and our zoological provinces cannot be shut in by perfectly hard and fast lines. In the absence of any very distinct types amongst the polypides, the structure of the zooœcium seems to offer the best systematic characters; and the principal points selected by Busk have certainly the merit of marking out very natural groups, as sharply defined probably as nature permits. The opercular valve of the Cheilostomata involves all the appendicular organs (avicularia and vibracula), which are so characteristic a feature of this division; the absence of operculum distinguishes the multitudinous forms which are constituted by the varied combination and arrangement of simple calcareous tubes; the setose operculum is characteristic of a very homogeneous group, the Vesiculariidæ, and also of the fleshy forms included in the genus Alcyonidium. Ehlers is undoubtedly right in insisting on the marked differences between these two sections in the mode in which the cell is developed by budding. In the former case cells are produced only by budding from a stem or stolon; in the latter they are produced by gemmation from another zooœcium.

This is an important distinction, but it seems to me less significant than the structural peculiarities of the cell on which the suborder Ctenostomata is founded; and I therefore propose to range these two sections under the latter as subgroups.

Amongst the Cheilostomata the zoocecia are developed by gemmation from a stolon in the Æteidæ, and amongst the Cyclostomata in the Crisiidæ to a certain extent.

In the genus Eucratea we have both kinds of gemmation: the primary zooœcia are developed on a creeping stolon that

* Hypophorella expansa, 'Ein Beitrag zur Kenntniss der minirenden

Bryozoen, von E. Ehlers, p. 126 (sep.), 1876.

† In the genera Ætea and Eucratea the uppermost portion of the tentacular sheath is composed of a number of delicate rods connected by an attenuated membrane; when the polypide is fully extended, this portion, which is scalloped round the free extremity, is thrown back, and stands out like a frill at right angles to the cell. This may be the homologue of the setose operculum of the Ctenostomata; but it exists in a very rudimentary condition; and as it is associated with the cheilostomatous movable lip, it has lost its significance as a protective covering.

swells out at intervals into ovate expansions from which the cells originate, as in the genus Ætea. These give rise to secondary cells, which bud from their upper extremity *.

Even in the genus Ætea we meet with one case, at least, in which gemmation from a stolon is combined with gemmation from the cell itself. In Ætea truncata the zooœcia are usually developed on a creeping stem, which is sometimes divided by joints into more or less fusiform internodes. But occasionally a long and slender tubular offshoot rises from the back of the primary cell, terminating above in a zooœcium; from this secondary zooœcium another tubular offshoot is in some cases developed, bearing a third cell. Beyond this I have not seen the process of gemmation carried. The tubular stem, proceeding from the dorsal surface of a cell and bearing another cell at its extremity, must be regarded as a kind of pedicel †, and we have therefore in Ætea truncata the direct development of cell from cell, as well as the production of zooœcia by budding from a stolon. This seems to be the case amongst the Crisiidæ also, according to Ehlers.

In the presence of these facts I cannot regard the Stoloni-

fera as a suborder.

Suborder CTENOSTOMATA, Busk.

Group 1. HALCYONELLEA, Ehr.

Zoarium fleshy; zooæcia developed by budding from other zooæcia.

Group 2. Stolonifera, Ehlers.

Zoarium horny or membranous; zooæcia developed by budding from the internodes of a distinct stolon or stem.

The Stolonifera (= Vesiculariidæ, Johnst.) range themselves under two divisions: in one the tentacles form a perfect circle; in the other, two of them are constantly bent outwards and the circle is broken on one side.

For the species in which this remarkable peculiarity was first noticed I constituted the genus Campylonema; but I have since ascertained that it has a wider range, and occurs, amongst others, in the well-known Valkeria uva, Fleming. It is met with only in species of the simplest structure, which

† The primary cells, it may be noted, are sometimes pedicellate.

^{*} In some cases, however, the colony commences with a line of decumbent and adnate cells, assuming the habit of *Hippothoa*, and from these the erect shoots rise. I believe that these decumbent cells must be regarded as the morphological equivalent of the creeping stolon, and that the more or less clavate swellings which occur on the latter, in both Ætea and Eucratea, are in fact aborted cells.

are destitute of a gizzard. I have detected it so far in Campylonema tremula, mihi, Valkeria uva, Flem., Valkeria cuscuta, Linn., and Mimosella gracilis, mihi. As Valkeria uva is the type of Fleming's genus Valkeria, his name will supplant my Campylonema, now that this species is known to possess the bent tentacles. Valkeria pustulosa, Ellis and Sol., V. citrina, mihi, and V. gracillima, mihi, have the tentacles in a perfect circle and are furnished with a gizzard; they must therefore be referred to another genus.

I propose to classify the Stolonifera as follows:-

STOLONIFERA, Ehlers.

a. ORTHONEMIDA, Hincks.

Polypides with the tentacles disposed in a perfect circle.

With a gizzard.

1. Family Vesiculariidæ.

Genera: Vesicularia, Bowerbankia, Valkeria (part), Amathia.

Without a gizzard.

2. Fam. Farrellidæ.

Genera: Farrella, Avenella, Anguinella.

3. Fam. Triticellidæ.

Genera: Triticella, Dalyell; ? Hippuraria, Busk.

I suspect that the latter genus will prove to be nearly allied to Triticella; but until it has been more thoroughly investigated, it can only be placed provisionally in this family.

b. CAMPYLONEMIDA, Hincks.

Tentacles not forming a perfect circle, two of the number being always everted; no gizzard.

1. Fam. Valkeriidæ.

Genus Valkeria, Flem.

2. Fam. Mimosellidæ.

Genus Mimosella, Hincks.

Ehlers includes in his Stolonifera the Entoprocta of Nitsche (Pedicellina, Loxosoma, and ? Urnatella); but I am quite unable to accept this view. The structural and embryological peculiarities of this group are such as to entitle it, in my judgment, to rank as a subclass.