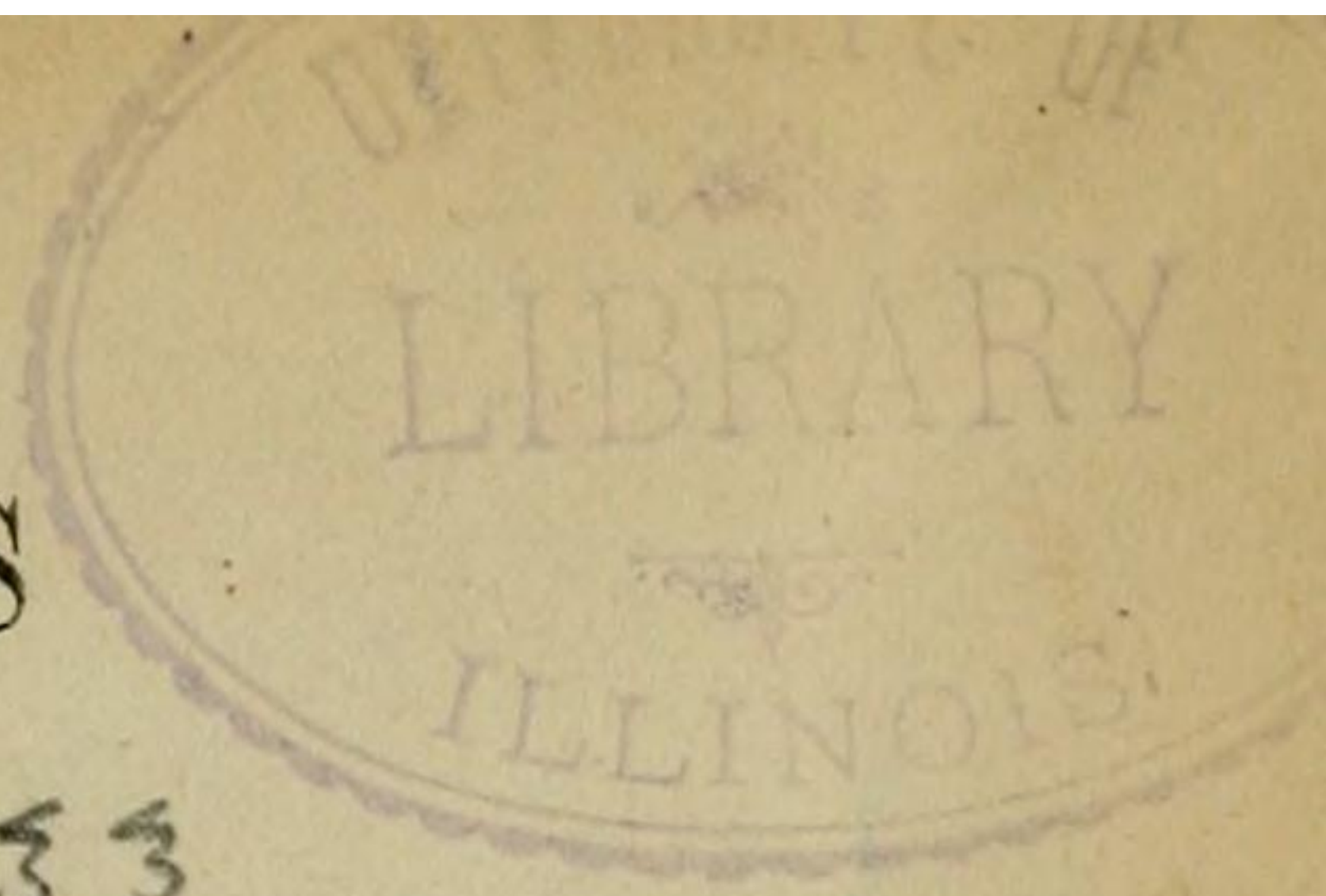


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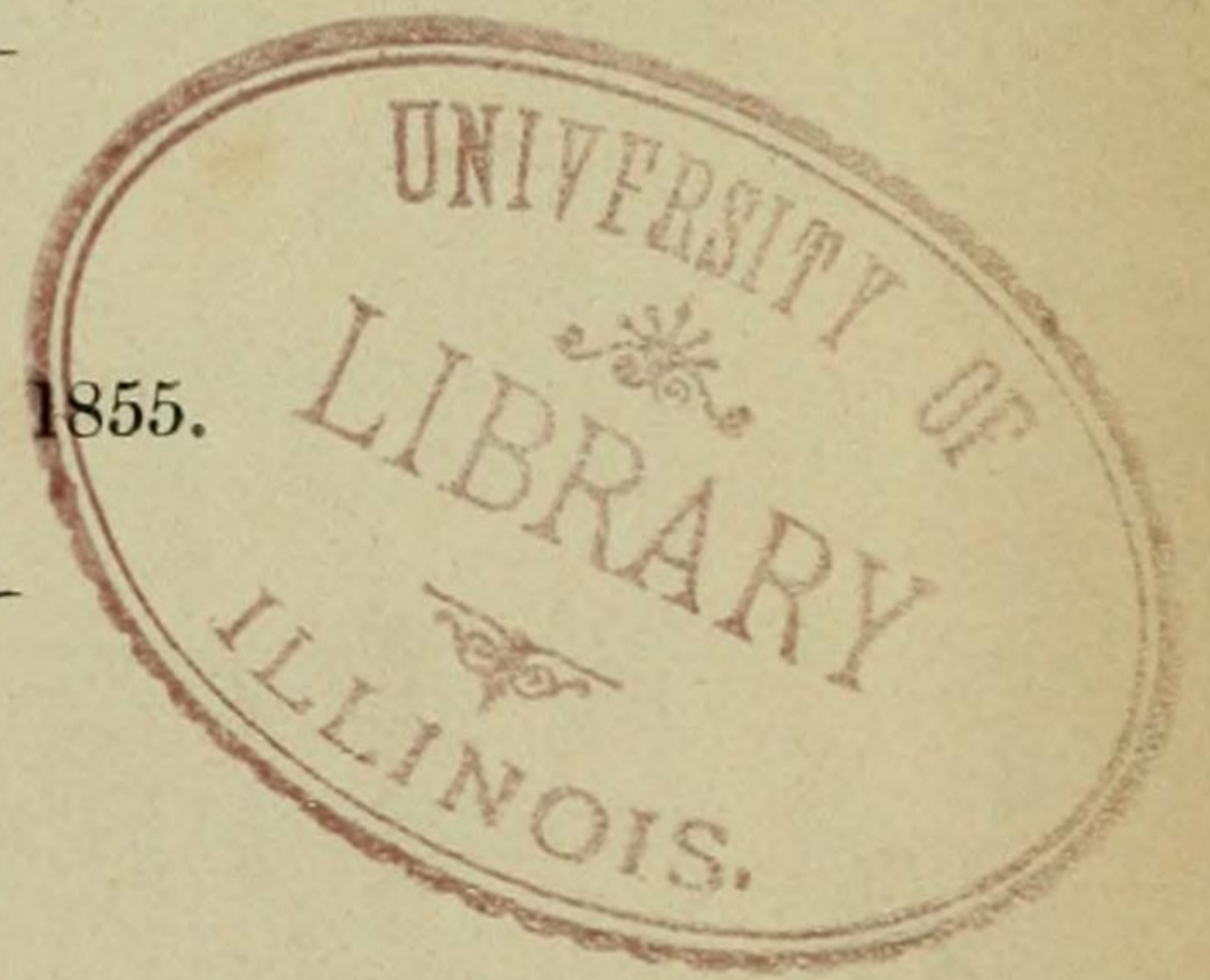
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1855.

June 5.

Thomas Bell, Esq., President, in the Chair.

Mr. Ward, F.L.S., exhibited specimens in flower of *Gentiana verna* from Galway, and *Cerastium latifolium* and *Draba frigida*, from the Dovra Range of mountains in Norway, all of which have flourished freely on some peaty banks in his garden at Clapham for the last three years. Mr. Ward also exhibited collections of dried specimens of Alpine plants from Switzerland and Norway.

Mr. Stevens, F.L.S., exhibited a splendid new Butterfly (*Ornithoptera Brookeana*, Wallace), collected by Mr. Wallace in Borneo.

Read the first of a Series of Memoirs, entitled "Horæ Carcinologicae, or Notices of *Crustacea*. I. A Monograph of the *Leucosiadae*, with observations on the relations, structure, habits and distribution of the family, a revision of the generic characters, and descriptions of new genera and species." By Thomas Bell, Esq., V.P.R.S., Pres. L.S.

The author commences this paper with remarks on the distinct limitation of the *Leucosiadae*, and the absence of any obvious osculant forms by which to associate them closely with neighbouring groups of the *Oxystomata*, and the no less striking want of any distinct representation of this family within the limits of other members of the same great group. He refers, however, to a probable affinity in the structure of the type of the *Pinnotheridae*, which has hitherto been overlooked. The apparent approximation of the genus *Oreophorus* to the *Calappadae* is also suggested, and a corresponding tendency to a lateral expansion of the carapace pointed out in the genera *Lithadia*, *Nursia*, *Phlyxia* and *Ebalia*.

The history of the progressive knowledge of the family from its first detection by Fabricius as a distinct group is then given. The author enters at some length into the consideration of the nature of specific characters in general, and the necessity of adopting such as are tangible and certain; and after deprecating the use of such as are merely comparative between different species, he urges the importance of giving, in all cases when a new species is described, such a definition as shall point out as briefly as may consist with clearness

and certainty the points of distinction from all those which are already known, and a description so full as to enable the future observer to ascertain whether any individual afterwards examined is new, or identical with the one so described. Specific characters, the author says, should always be either absolute, or derived from points of comparison within the individual itself.

After a general view of the structure, it is shown that from a low degree of development of the organs subserving the functions of relation, these animals are necessarily slow and circumscribed in their locomotion, and dependent for their safety from injury upon external means of protection.

In referring to the distribution of the family, it is shown that every genus, without exception, is restricted to its own geographical limit; and this is true to such an extent, that there is no instance of one species of any genus inhabiting the old world, and another of the same genus being found in the new.

The systematic portion of the paper consists of the characters of, and observations on, all the genera whether new or previously known, and characters and descriptions of every known species. Five new genera and no less than thirty-six new species are described. The following are the generic and specific characters as given in the paper:—

Genus LEUCOSIA. *Testa* ovato-orbicularis, subglobosa, lævis, polita; fronte subproducto, fossulas antennarias tegente. *Orbita* fissuris tribus. *Fossæ antennariæ* obliquæ, apertæ. *Pedipalpi externi* caule exteriori lateribus parallelis, recto vel subcurvo, apice obtuso; caule interiori acutè triangulari. *Pedes antici* crassiores, longitudine mediocres, brachiis ad basin et ad latera tuberculatis. *Abdomen maris*, in nonnullis speciebus, segmentis omnibus primo et ultimo exceptis—in aliis tertio cum quarto et quinto cum sexto; *fœminæ* a tertio ad sextum coalitis.

1. *Leucosia Urania*, Herbst. Testâ subglobosâ, anticè productâ, fronte rotundato; brachiis triedris, suprâ ad basin tuberculis paucis; sinu thoracico usque ad latera regionis hepaticæ anticè attingente, granis marginato.
2. *Leucosia craniolaris*, Linn. Testâ ovato-rhomboideâ, fronte tridentato; brachiis serie tuberculorum ad latera et tuberculis duobus tantùm ad basin.
3. *Leucosia obtusifrons*, De Haan. Fronte rotundato, sinu thoracico anticè circulari, tuberculis circumscripto; brachiis ad latera et ad basin tuberculatis, manibus longioribus quam latioribus, serie granorum ad marginem interiorem.

4. *Leucosia unidentata*, De Haan. Fronte unidentato; sinu thoracico anticè circulari, tuberculis perlatis circumscripto; brachiis facie superiore seriebus binis tuberculorum.
5. *Leucosia rhomboidalis*, De Haan. Testâ rhomboidali, anticè productâ, multò longiore quam latiore; brachiis basi utrinque densè tomentosis, lateribus tuberculatis, suprâ plerumque lævibus.
6. *Leucosia longifrons*, De Haan. Testâ subglobosâ, fronte producto, integerrimo; sinu thoracico anticè elliptico, granis non cincto; brachiis ad latera tuberculatis, et granulis paucis ad basin.
7. *Leucosia orbicularis*, Bell. Testâ orbiculari, fronte lato, brevissimo, bidentato; sinu thoracico nullo; sterno anticè granulato.
8. *Leucosia pallida*, Bell. Fronte tridentato, ultra orbitâ producto; sinu thoracico in sulco brevi profundo anticè terminato; granulis paucis supra insertionem pedum anteriorum; manibus utrinque carinatis lævibus; digitis inermibus.
9. *Leucosia obscura*, Bell. Testâ suborbiculari; rostro minutè tridentato; sinu thoracico angustissimo; manibus longioribus quam latioribus utrinque carinatis, lævibus; digitis inermibus.
10. *Leucosia marmorea*, Bell. Fronte minutè tridentato, dente medio longiore; sinu thoracico anticè brevi, lineâ semicirculari granulata terminato; brachiis ad basin et ad latera tuberculatis; manibus margine interno granulato.
11. *Leucosia punctata*, Bell. Testâ impresso-punctatâ; fronte subemarginato; brachiis suprâ omninò granulatis.
12. *Leucosia affinis*, Bell. Testâ anticè angustatâ, fronte producto, subemarginato; manibus utrinque carinatis; brachiis anticè tumidis, lævissimis, politis.
13. *Leucosia brevimana*, Bell. Testâ subrhomboidali; fronte emarginato; margine laterali haud granulato; manibus æquè longis ac latis.
14. *Leucosia margaritacea*, Bell. Testâ multò longiore quam latiore, lævissimâ, margaritaceâ; sinu thoracico margine lævi; brachiis suprâ tuberculis albis, rubro-cinctis.
15. *Leucosia ocellata*, Bell. Testâ rhomboidali; fronte bidentato; regione gastricâ maculis quatuor parvis rubris signatâ, quarum binæ anteriores ocellatæ.
16. *Leucosia Whitei*, Bell. Testâ rhomboideâ; fronte producto, minutè tridentato; regionibus hepaticâ et branchiali granulis tribus vel quatuor; brachiis tomentosis, tuberculis magnis omninò instructis.
17. *Leucosia hæmatosticta*, Adams & White. "Thorace trapezoidali suprâ valdè convexo, post angulum latero-anteriorem incisurâ profundâ, maculis multis sanguineis obsito."

18. *Leucosia Cumingii*, Bell. Testâ suborbiculari, margine lævi; sinu thoracico incisurâ inter regiones hepaticam et branchialem terminato; regionibus branchialibus valdè tumidis.
19. *Leucosia pulchella*, Bell. Testâ æquè longâ ac latâ, margine lævi, tenui, subreflexo; brachiis suprâ et infrâ omninò tuberculatis; pedipalpis externis anticè paulo angustatis.
20. *Leucosia phyllocheira*, Bell. Manibus latioribus quam longioribus, utrinque lamellatis; pedibus omnibus posterioribus articulo penultimo lato, compresso.

Genus ILIA, Leach. *Testa* subglobosa, postice dentibus quatuor armata, quarum utrinque una compressa ad regionem intestinalem, et una conica ad brachialem; fronte bifido. *Orbita* suprâ bifissa. *Pedipalpi externi* caule exteriori recto, apice obtuso. *Pedes antici* longissimi, manibus contortis, antrorsùm angustatis.

1. *Ilia nucleus*, Linn. Testâ minutè et confertè granulosâ, granulis majoribus distantibus instructâ.
2. *Ilia rugulosa*, Roux. Testâ glabrâ, sparsim granulosâ, anticè lævi.

Genus PERSEPHONA, Leach. *Testa* ovalis seu orbicularis, depressa, dentibus tribus ad partem posteriorem armata, regionibus pterygostomianis angulatis. *Orbita* trifissa. *Fossæ antennariæ* transversæ. *Pedipalpi externi* caule exteriori paulo dilatato sensim angustato, ad apicem internè truncato. *Pedes antici* robusti, testâ haud bis longiores; *reliqui* articulis ultimo et penultimo compressis. *Abdomen maris* segmentis a tertio ad quintum,—*fœminæ* a quarto ad sextum, coalitis.

1. *Persephona Guaia*, Bell. Testâ ovatâ, sparsim tuberculatâ, angulo pterygostomiano obtusissimo, spinâ mediâ posticâ lateralibus paulo superiore.
2. *Persephona Lichtensteini*, Leach. Testâ orbiculari, angulo pterygostomiano dentiformi, margine laterali unidentato, spinis posticis æqualibus, medio cum lateralibus triangulum æquilateralem designante.
3. *Persephona orbicularis*, Bell. Testâ orbiculari, angulo pterygostomiano in tuberculo abruptè producto; spinis posticis æqualibus, angulum ferè rectum designantibus.
4. *Persephona Edwardsii*, Bell. Testâ orbiculari, anticè subproductâ, angulo pterygostomiano obsolete; spinâ posticâ mediâ lateralibus multò altiore.

Genus LEUCOSILIA, Bell. *Testa* globosa, fronte dentibus binis divergentibus terminata; regione intestinali unidentatâ. *Orbita* trifissa. *Fossæ antennariæ* obliquæ in dentibus frontis excavatæ. *Pedipalpi externi* caule exteriori subcurvo, obtuso. *Pedes antici* robusti, longitudine mediocres. *Abdomen maris* segmentis 3^{to} 4^{to} 5^{to} coalitis, penultimo unidentato; *fœminæ* latè ovatum, valdè convexum.

Sp. unica, *Leucosilia Jurinii*, Saussure.

Genus MYRA, Leach. *Testa* ovato-globosa, posticè tridentata. *Orbita* profundè trifissa. *Fossæ antennariæ* obliquæ. *Pedipalpi externi* caule exteriori dilatato. *Pedes antici* longissimi, graciles, manibus rectis.

1. *Myra fugax*, Fabr. Testâ subglobosâ, medio elevatâ, non carinatâ; spinâ posticâ mediâ lateralibus bis longiore; spinis lateralibus compressis.
2. *Myra affinis*, Bell. Testâ ovato-globosâ, spinis posticis brevibus, subæqualibus; pedibus anticis testâ vix bis longioribus; manu digitis tertiâ parte longiore.
3. *Myra carinata*, Bell. Testâ ovatâ, minutè granulatâ, medio carinatâ, spinâ posticâ mediâ lateralibus ter quaterve longiore, spinis lateralibus acutè conicis.
4. *Myra elegans*, Bell. Testâ bis longiore quam latiore (spinâ posticâ non inclusâ), margine anteriore setoso.
5. *Myra mammillaris*, Bell. Testâ ovatâ, glabrâ, tuberculis parvis elevatis sparsim instructâ; dentibus posticis brevissimis, rotundatis.

Genus MYRODES, Bell. *Testa* ovata, rostro emarginato terminata, posticè dentibus tribus, quarum media longior, armata. *Orbita* trifissa. *Fossæ antennariæ* ferè longitudinales. *Pedipalpi externi* caule exteriori subcurvo, haud dilatato. *Pedes antici* testâ vix longiores; manibus pyriformibus haud longioribus quam latioribus; digitis tenuibus, valdè elongatis, curvis, apice aduncis.

Sp. unica, *Myrodes eudactylus*, Bell.

Genus PHILYRA, Leach. *Testa* orbicularis, depressa, inermis, fronte epistomate brevior. *Orbita* suprâ aperta, trifissa. *Fossæ antennariæ* ferè transversæ. *Pedipalpi externi* caule exteriori dilatato. *Pedes antici* mediocres; octo posteriores tarso compresso lamelloso. *Abdomen maris* hastato-lanceolatum; *fæminæ* articulo ultimo angusto, producto.

1. *Philyra scabriuscula*, Fabr. Testâ depressâ, granuloso-scabrâ, fronte epistomate multo brevior; brachiis tuberculatis; manibus ad marginem interiorem lineis duabus granulatis.
2. *Philyra globulosa*, Fabr. Testâ globosâ, lævi, margine laterali granulato; fronte vix epistomate brevior; brachiis granulatis.
3. *Philyra porcellana*, Fabr. "Testâ globosâ, minutè punctatâ; fronte epistomate parùm brevior, margine granulato; brachiis cylindricis tuberculatis; manibus lævibus inflatis."

Hanc speciem non vidi—a præcedente ane distincta?

4. *Philyra Pisum*, De Haan. "Fronte epistomate parùm brevior; regionibus pterygostomianis medio angulatis; thorace granulato; chelis in maribus thoracem dimidio superantibus; digitis in longitudinem 5-sulcatis margine interno denticulatis."

5. *Philyra platycheira*, De Haan. "Parva, regionibus pterygostomianis medio angulatis; fronte epistomate parùm brevior; chelis in maribus thorace bis longioribus; digitis valdè depressis, lævibus, margine interno integerrimis."
6. *Philyra lævis*, Bell. Testâ, corpore, pedibus omninò lævibus.
7. *Philyra Adamsii*, Bell. Testâ glabrâ, regionibus partim et lineâ longitudinali granulatis; margine posteriore utrinque bituberculato.
8. *Philyra punctata*, Bell. Testâ orbiculari, lævi, punctatâ; angulo pterygostomiano obsoleto; brachiis triquetris.
9. *Philyra carinata*, Bell. Testâ partim granulosa, inter regiones cardiacam et branchialem lævi, medio carinatâ; manibus lineis duabus granulosis.
10. *Philyra macrophthalma*, Bell. Testâ ovatâ, minutissimè granulata; pedunculis oculorum elongatis; abdomine maris angusto, lineari.

Genus EBALIA, Leach. Testa rhomboidalis vel subhexagona; fronte producto, emarginato. Orbita bifissa. Fossæ antennariæ tectæ, obliquæ. Pedipalpi externi ad marginem epistomatis extendentes, caule exteriori margine externo recto, caule interiore acuminato. Pedes antici breves, crassi; posteriores ungue forti styliformi terminati.

1. *Ebalia Pennantii*, Leach. Testâ granulata, eminentiâ cruciformi; margine latero-anteriore bilobato; abdomine maris segmentis a tertio ad sextum confluentibus.
2. *Ebalia Bryeri*, Leach. Testâ minutè granulata, margine laterali integro, subrevoluto, posteriore bilobato; regione cardiacâ bituberculata, branchiali utrinque tuberculo uno; brachio haud bis longiore quam latiore.
3. *Ebalia Cranchii*, Leach. Testâ granulata, carinata, tuberculis quinque; margine latero-anteriore fere integro; brachio ter longiore quam latiore.
4. *Ebalia granulosa*, Edw. Testâ granulosa, tuberculis sex; margine latero-anteriore bilobo.

Genus PHLYXIA, Bell. Testa rhomboidea, tuberculis tribus posticè instructis. Orbita suprâ emarginata, bifissa. Fossæ antennariæ cum orbitis communicantes. Antennulæ elongatæ, porrectæ. Pedipalpi externi caule exteriori lato, margine externo curvo, anticè angustato; caule interno segmento penultimo lateribus parallelis, ultimo triangulari. Abdomen in utroque sexu segmentis a tertio ad sextum coalitis.

1. *Phlyxia crassipes*, Bell. Testâ subcarinata; rostro quadrato, quadri-dentato; pedibus anticis testâ plus quam duplò longioribus; brachiis rotundis, medio tumescentibus.

2. *Phlyxia lambriformis*, Bell. Testâ carinatâ; rostro triangulari, emarginato; margine latero-anteriore inciso, latero-posteriore acutè carinato.
3. *Phlyxia lævis*, Bell. Brachiis triedris; testâ lævi, margine laterali unidentato.

Genus LITHADIA, Bell. *Testa* rhomboidea, rudis; regionibus gibbosis; rostro bifido, resupinato. *Orbita* suprâ et extrorsum aperta. *Fossæ antennariæ* obliquæ. *Pedipalpi externi* caule exteriori ensiformi obtuso; interiore lanceolato, exteriori longiore. *Pedes antici* robusti, rudes, tuberculati. *Abdomen maris* segmentis tertio, quarto et quinto coalitis.

Species unica, *Lithadia Cumingii*, Bell.

Genus OREOPHORUS, Rüppell. *Testa* tuberosa, posticè supra pedes dilatata. *Fossæ antennariæ* obliquæ. *Pedipalpi externi* caule exteriori arcuato, apicem versus sensim angustiore. *Pedes anteriores* longi, robusti; octo posteriores subæquales, scuto dorsali reconditi.

1. *Oreophorus horridus*, Rüpp. Testâ subtriangulatâ, regionibus branchialibus fortitè et obliquè carinatis; chelis mediocribus; manu digitis longiore.
2. *Oreophorus reticulatus*, Adams & White. Testâ subpentagonâ, reticulatâ; digitis maximis, manu bis longioribus.
3. *Oreophorus nodosus*, Bell. Testâ nodosâ, margine undato; manu tumidâ, ad margines carinatâ, bisulcatâ, digitis longiore.

Genus NURSIA, Leach. *Testa* polyedra, fronte producto. *Orbita* extrorsum aperta. *Fossæ antennariæ* transversæ. *Pedipalpi externi* caule exteriori curvo, dilatato, anticè et posticè obtuso; caule interiore margine interno recto, articulo penultimo quadrato, ultimo triangulari. *Pedes antici* digitis deflexis. *Abdomen maris* articulo penultimo apice processu dentiformi instructum.

1. *Nursia plicata*, Herbst. Testâ utrinque 4-dentatâ, medio tuberculis tribus triangulum delineantibus, posticè lineâ elevatâ transversâ tuberculum gerente; fronte 4-dentato.
2. *Nursia abbreviata*, Bell. Testâ orbiculari, margine undato, lineâ elevatâ longitudinali, alterâ transversali decussatâ; fronte integro.

Genus NURSILIA, Bell. *Testa* latior quam longior, margine polygono, fronte producto. *Orbita* bifissa, extrorsum aperta. *Fossæ antennariæ* obliquæ. *Pedipalpi externi* epistoma superantes, caule exteriori curvo, medio dilatato; interiore elongato, margine interno arcuato. *Abdomen fœminæ* valdè convexum, articulo ultimo inter bases pedipalporum externorum producto.

Species unica, *Nursilia dentata*, Bell.

Genus *ARCANIA*, Leach. *Testa* subglobosa, spinis seu tuberculis elevatis plurimis armata. *Orbita* suprâ et extrorsum aperta. *Fossæ antennariæ* longitudinales. *Pedipalpi externi* caule exteriori recto, lineari; apice interiori emarginato-truncato; caule interiori gradatim acuminato. *Pedes antici* gracillimi. *Abdomen maris* lanceolatum, segmentis a tertio ad sextum coalitis.

1. *Arcania Erinaceus*, Herbst. Corpore atque membris densè spinosis, spinis spinulosis.
2. *Arcania 11-spinosa*, De Haan. "Thorace spinuloso, spinulis obtusis, ambitu 11-spinoso, spinis acutis simplicibus; brachiis granulatis, digitis manibus longioribus."
3. *Arcania novem-spinosa*, Adams & White. "Thorace lævi, granuloso, marginibus latero-anterioribus spinis duabus, latero-posterioribus spinis duabus, posteriore spinâ longâ rectâ."
4. *Arcania septem-spinosa*, Bell. Testâ paulò latiore quam longiore, tuberculatâ, margine spinis septem tuberculatis armato, laterali utrinque reliquis longiore.
5. *Arcania tuberculata*, Bell. Testâ paulò longiore quam latiore, omnino tuberculatâ, margine spinis novem tuberculatis instructo; brachiis granulatis, manibus lævibus.
6. *Arcania gracilipes*, Bell. Testâ granulosâ, tuberculis quindecim suprâ, et tribus ad marginem posteriorem instructâ; pedibus anticis tenuissimis.
7. *Arcania lævimana*, Bell. Testâ granulatâ, tuberculis numerosis distinctis, ad marginem spinis novem simplicibus armatâ; manibus glabris.

Genus *IPHIS*, Leach. *Testa* rhomboidalis, transversa, angulis rotundatis, utrinque spinâ longissimâ horizontali armata; fronte emarginato.

Species unica, *Iphis septemspinosa*, Fabr.

Genus *IXA*, Leach. *Testa* elliptico-rhomboidalis, processu utrinque subcylindrico à regione branchiali producto; regionibus sulco profundo separatis. *Orbita* suprâ bifissa. *Pedipalpi externi* caule exteriori lato, interiori longiore. *Pedes* filiformes.

Species unica, *Ixa cylindrus*, Fabr.

Read also, a "Notice of a species of Carabideous Insect, *Helluo* (*Acanthogenys*) *myrmecophilus*, Westw., found together with its larva, in Ants' nests in Ceylon, by G. H. K. Thwaites, Esq., F.L.S." By J. O. Westwood, Esq., F.L.S. This paper was accompanied by figures of the larva and imago states of the insect.