
XV. *The specific Characters of some minute Shells discovered on the Coast of Pembrokehire, with an Account of a new marine Animal. By John Adams, Esq. F. L. S.*

Read January 6, 1795.

I HAVE the honour to offer to the attention of the Linnæan Society the specific characters of the following minute shells collected in the sea sand on the coast of Pembrokehire, and I believe hitherto unnoticed by our British Conchologists.

ARCA. *Syst. Nat.* 312.

minuta. A. testa subrotunda: striis concentricis, margine integro.
Obf. Color albus.

BUCCINUM. *Syst. Nat.* 33.

breve. 1. B. testa quinque anfractibus: longitudinaliter costatis: transversim striatis.

Obf. Color albus opacus, caudâ brevissimâ.

TAB. 13. *fig.* 3, 4.

minutum. 2. B. tribus anfractibus: longitudinaliter costatis.

Obf. Color albus opacus. *Fig.* 5, 6.

læve. 3. B. testa lævi tribus anfractibus, caudâ elongatâ.

Obf. Color albus opacus; anfractus primus fecundo multo ventricosior; apertura ovalis. *Fig.* 7, 8.

obtusissimum.

obtusissimum. 4. B. testa lævi, tribus anfractibus, apertura coarctata, cauda elongata.

Obs. A præcedente differt et in aperturæ forma, et quod anfractus ipsi sunt quam proxime magnitudinis æqualis. *Fig. 9, 10.*

MUREX. *Syst. Nat.* 325.

minutissimus. M. quinque anfractibus spiralter striatis, costis remotis, canali clauso.

Obs. Testa elegans pellucida.

TROCHUS. *Syst. Nat.* 326.

parvus. T. testa conica imperforata quatuor anfractibus tuberculatis.

Obs. Color albus.

TURBO. *Syst. Nat.* 327.

* imperforati opaci.

nitidus. 1. T. testa lævi quatuor anfractibus, apertura ovali.

Obs. Testa obtusa.

scriptus. 2. T. testa lævi tribus anfractibus, lineis fuscis characteriformibus, apertura subrotunda.

Obs. Istæ lineæ lineis Lichenis scripti omnino similes. *Fig. 11, 12.*

costatus. 3. T. quatuor anfractibus profundè longitudinaliter costatis: transversim striatis, apertura ovali.

Obs. Color albus, apertura marginata, costæ ipsæ nitidissimæ. *Fig. 13, 14.*

subluteus. 4. T. quinque anfractibus longitudinaliter costatis, apertura rotunda marginata. *Fig. 15, 16.*

- albus.* 5. T. quinque anfractibus longitudinaliter costatis, apertura subrotunda.
Obf. A præcedente differt, quod apertura non marginata est. *Fig. 17, 18.*
- reticulatus.* 6. T. quatuor anfractibus reticulatis, apertura subrotunda.
Obf. Color albus. *Fig. 19, 20.*
- ruber.* 7. T. testa lævi quinque anfractibus, apertura subrotunda. *Fig. 21, 22.*
* * imperforati pellucidi.
- interstinctus.* 8. T. testa lævi quinque anfractibus costa tenui interstinctis.
Obf. Color albus, apertura subrotunda. *Fig. 23, 24.*
- striatus.* 9. T. quinque anfractibus spiraliter striatis, apertura ovali.
Obf. Color albus. Testa perelegans. *Fig. 25, 26.*
- subarcuatus.* 10. T. decem anfractibus longitudinaliter costatis, testa ad apicem subarcuata.
Obf. Color albus. *Fig. 27, 28.*
- æreus.* 11. T. sex anfractibus longitudinaliter costatis, apertura subovali.
Obf. Color inter costas æreus, costæ ipsæ albæ. *Fig. 29, 30.*
- elegans.* 12. T. sex anfractibus spiraliter striatis, costis remotis apertura ovali. *Fig. 31, 32.*
- pellucidus.* 13. T. quinque anfractibus reticulatis, apertura subrotunda.
Obf. Color albus. *Fig. 33, 34.*

HELIX. *Syſt. Nat.* 328.

tubulatus. 1. H. tribus anfractibus longitudinaliter ſtriatis.

Obſ. Singularis hac in ſpecie eſt conſtructio, nam teſta, umbilici loco, tubo marginato qui extra teſtæ ſuperficiem extenditur, inſtructa eſt. *Fig.* 35, 36.

variegata. 2. H. teſta lævi quatuor anfractibus, primo ventriculoſo, lineis rubris notatis.

Obſ. Baſi imperforata. Teſta ſubpellucida, aperturæ margine patentiffima.

NERITA. *Syſt. Nat.* 329.

pellucida. 1. N. teſta lævi pellucida, anfractibus tribus.

alba. 2. N. teſta lævi ſubpellucida, duobus anfractibus.

The following Marine Animal appears to conſtitute a new genus among the *Vermes Zoophyta*.

DERRIS.

GENER. CHAR. *Corpus* teres articulatum; *os* terminale, *tentacula* duo.

ſanguinea. D.—TAB. 13. *f.* 1, 2.

Observations.

THIS ſingular animal is of a cylindrical form, gradually decreasing to the anus, and terminating in an acute point. It is composed of joints, and capable of the greateſt flexibility: the body is composed of an external membranaceous transparent coat, that ſurrounds the internal parts; which are rendered viſible by the pellucidneſs of the covering. The head is extended beyond the outer ſkin, and

is less than the anterior extremity of the body, to which it is connected by the membranaceous covering of the head forming a neck : on the top are situated two white cylindrical *tentacula*, capable of being elevated or depressed at pleasure : the mouth consists of two lips ; the lower one straight and fixed, the upper one hooked and moveable : when the animal is at rest it is open, but is frequently closed with wonderful quickness, probably to secure the animalcula on which it may be presumed to feed.

The internal structure is composed of a simple alimentary canal, somewhat larger in the joints ; this increase of size in those particular parts originates, as I conceive, in its being attached by transverse processes to the external coat in the articulations, for the purpose of keeping this long intestine steady : a similar contrivance is observable in the genus *Echinus* ; it is capable of partial dilatation between the joints only, which is an additional proof of its being fastened there. The animal moves by an undulatory motion of the whole body.

Though the liberality of Sir Joseph Banks has enabled me to consult his extensive collection, I have not been able to meet with any author who has described a marine animal resembling this. In this case it seemed most eligible to make it a distinct genus ; to which, from the truly membranaceous substance of this species, I have given the title of *Derris*.

E X P L. OF T A B. 13.

- FIG. 1. *Derris sanguinea* of the natural size.
 2. The head magnified.
 3, 4. *Buccinum breve*.
 5, 6. *Buccinum minutum*.

FIG. 7, 8.



- FIG. 7, 8. *Buccinum læve*.
9, 10. *B. obtusissimum*.
11, 12. *Turbo scriptus*.
13, 14. *Turbo costatus*.
15, 16. *Turbo subluteus*.
17, 18. *Turbo albus*.
19, 20. *Turbo reticulatus*.
21, 22. *Turbo ruber*.
23, 24. *Turbo interstinctus*.
25, 26. *Turbo striatus*.
27, 28. *Turbo sub-arcuatus*.
29, 30. *Turbo æreus*.
31, 32. *Turbo elegans*.
33, 34. *Turbo pellucidus*.
35, 36. *Helix tubulatus*.
37, &c. See page 45.