acutd ; anfractibus 6 convexis, ultimo spird pauld breviore ; aperturd semiovali ; pariete aperturali medio plica lavi, intrante munito; columella medio lamellatim truncata; peristomate simplice, acuto.
Long. $12 \frac{1}{2}$, diam. 6 mill.
From the province of Merida, New Granada (Funck).
19. Balea Funcei, Pfr. Bal. testd sinistrorsd, vix subrimatd, turritd, truncatd, sublavigatd, fuscd; anfractibus (spec. trunc.) 5 convexiusculis, ultimo basi rotundato; aperturd oblongo-semiovali, intus fulva; plica parietali valida, compressa, columellari obligud, obsoletd ; peristomate albo, expanso, reflexiusculo, marginibus callo junctis, externo sinuato.
Long. (spec. trunc.) 14, diam. 4 mill.
From Chachopo, province of Merida, New Granada (Funck).

## MISCELLANEOUS.

On the Red Corpuscles of the Blood of the Mud-fish (Lepidosiren annectens). By Andrew Smith, M.D., Deputy'Inspector-General of Hospitals, and George Gulliver, F.R.S., Surgeon in the Royal Horse Guards.

In the uncertainty as to whether the Lepidosiren is to be classed among Reptiles or Fishes, it is interesting to examine the characters of its blood-discs; and Dr. Andrew Smith having procured some dried specimens of its blood, we have examined them together, and the following are short notes of the results:-

In shape and structure these blood-corpuscles are the same as those of the naked amphibia, and in size range between the bloodcorpuscles of the Siren and of the Triton. The long diameter of these blood-corpuscles of the Lepidosiren is $\frac{1}{570}$ th, and the short diameter $\frac{1}{94}$ st of an inch, and the nuclei are $\frac{1}{1455}$ th long and $\frac{1}{2900}$ th broad: these are the average sizes in vulgar fractions of an English inch.

Now no blood-corpuscles, so far as we know, of any fish, are so large as these of the Lepidosiren; while this great size is characteristic of the blood-corpuscles of some of the amphibious reptiles, as was long ago described by Professor Wagner, and may be seen, for comparison, in Mr. Gulliver's measurements of the blood-corpuscles of the Proteus, Siren, and Triton, in his Notes to the edition of Hewson's works printed f,r the Sydenham Socicty, and in the Proceedings of the Zoological Society, February 1848, p. 38.

## Filago apiculata, G. E. Smith.

The Rev. G. E. Smith discovered in Yorkshire a plant to which he gave the above name'(Phytol. ii. 575), considering it a distinct species from F. germanica (Linn.). Although favoured with specimens by him, I was unable to satisfy myself of its just claims to specific rank. Recently (July 28) I had the pleasure of gathering it near Thetford, close to the station on Redneck Heath of Apera in-
terrupta, and am now quite satisfied of its distinctness. Its leaves are all blunt and apiculate, oblong; its heads are ten to twenty in each cluster, and prominently 5 -angled as in F. Jussiai (C. et G.), but they are deeply sunk in tomentum as in F. germanica; the cluster is overtopped by one or two blunt leaves which are wanting in the latter and acute in the former. There are also other differences. It is the F.' lutescens of Jordan (Plantes Nov. de la France, iii. 201 . pl. 7. fig. B.) ; that name was published in Sept. 1846, Mr. Smith's name in July 1846.

The pubescence of the three plants is very different and they are quite distinguishable at sight. I may add that the F. Jussiai (C. et G.), which occurs plentifully from within two miles of Cambridge to the town of Linton, is probably, as remarked by Jordan, the F. spatulata (Presl); if so, that name must displace the one given by Cosson and Germain.

I believe that, previously to the discovery of F. Jussiai near Linton by Mr. G. S. Gibson, it had been found in Sussex by Mr. Mitten, and in Dorsetshire by Mr. Woods.-C. C. B.

## Note on the genus Allorisma. By William King, Esq.

Having satisfied myself that this genus, as I first described it (Annals of Natural History, November 1844), comprises two distinct genera, one of which is the Edmondia of De Koninck, I will here briefly point out a few of its distinctive characters, is now restricted, reserving a fuller description for my Monograph. I consider Allorisma regularis* as the type of the genus. Allorisma possesses a siphonal inflexion, an edentulous hinge, and an external cartilage. It differs from Pholadomya-a closely-related genus-in the want of ribs proceeding from the umbones to the ventral margins, the valves being more or less wrinkled transversely. The anterior muscular impressions have a low or proximo-ventral position as in Thracia pubescens.

Allorisma elegans, n. sp. Form very inequilateral : both ends closed; anterior one the shortest, and oblique superiorly; posterior one squarish : umbones somewhat gibbous: dorsal slopes with a faint angle running from the umbone to the posterior end of the shell : surface slightly wrinkled transversely, and crowded with minute pimples : pallial sinus shallowish. Amphidesma lunuiata, Keyserling, of the Petchora Permian marls, may be the same species. Humbleton and Whitley.-Catalogue of the Organic Remains of the Permian Rocks of Northumberland and Durham.

## Melilotus arvensis, Wallr.

On a recent visit to the neighbourhood of Thetford (July 28) in company with Mr. Borrer, Mr. G. S. Gibson, and Mr. Newbould, I had the pleasure of gathering specimens of this plant which grows there in considerable quantity. I am unable to state to which of the party the discovery belongs, but believe that it lies between Mr.

* Geol. Russ. vol. ii. pl. 19. fig. 9.-The fossil under this name, in pl. 21. fig. 11, is an Edmondia.

Borrer and Mr. Newbould. The plant is so like M. officinalis (Willd.) that it has probably been overlooked in many places; indeed I now (Aug. 2) find that it is far from rare between Cambridge and the Gogmagog Hills. The proportions of the parts of its flower, and the shape and surface of its pod, are so different from those of M. officinalis (which also grows near Cambridge), that a very slight examination of the two plants is sufficient to show their specific distinctness. In the 2nd edition of his Synopsis, Koch has altered the names of these plants, calling the present species M. officinalis (Desr.) ; the M. officinalis (Willd.) he names M. macrorhiza (Pers.). -C. C.B.

## On the Parasitical Habits of Scrophulariner. By Professor Henslow.

The supposed parasitism of the Scrophularineæ (in Euphrasia, Odontites, Melampyrum, Rhinanthus, \&c.), detected by Decaisne, has more than once been called in question. You may remember that I stated, in the Gardeners' Chronicle last autumn, my own conviction of the fact, and mentioned my having obtained the roots of Euphrasia officinalis and Odontites rubra attached by succors to the roots of grass. This fact appeared to me sufficiently satisfactory at the time; but I determined to follow up the inquiry by sowing seeds of Rhinanthus and Odontites, both near and at a distance from other plants. The results of my experiment are as follows:-Several plants of Rhinanthus Crista-galli came up at a distance from other plants, but did not thrive ; they scarcely attained an inch or an inch and a half in height; only two produced one flower each, and then the whole withered without any seed being formed. A single plant, which came up close to a plant of wheat, attained the usual dimensions and flowered freely, but I neglected to observe whether its seeds were perfected. The specimens of Odontites rubra came up more freely than the Rhinanthus; and they all flowered, both those that were near other plants and those at a distance. On examining them I found abundance of examples of the succors, or succor-like protuberances, on their roots attached to the roots of wheat and rye; and, in two instances, I traced fibres of the Odontites spreading more than a foot from the spot where the plant was growing till they had reached and intermixed with the fibres of the rye. In some cases I could detect no appearance of succors, and nothing like an attachment to the roots of other plants.

I learn from Mr. Bentham that he has met with instances where there were certainly none of the succor-like appendages to the roots of some specimens of Euphrasia, Melampyrum, and Odontites examined by him. There is, therefore, something yet to be ascertained concerning the precise character of the parasitism of these plants, if indeed they be truly parasitic. As the question is of some importance to cultivators, I would suggest the following experiment to those who have fields in which Rhinanthus Crista-galli is abundant. Let them keep a space of about three yards square perfectly cleared of this plant for two or three years, and observe whether the grass on that patch flourishes beyond that which surrounds it. I shall pro-
pose repeating my own garden experiments with more care than I had thought necessary this year, having hitherto felt sufficiently convinced that Decaisne's statement was correct.

I send you a preparation in spirits of the succors (?) on the roots of Odontites rubra, attached to the fibres of wheat, and you will see what a parasitic aspect they have assumed, whatever their real functions may be. I am very desirous of procuring seeds of Melampyrum arvense for experiment, and if any of your correspondents could procure me a few, I shall feel much obliged to them. Hitcham, Sept. 14. -Gardeners' Chronicle, Sept. 23.

## METEOROLOGICAL OBSERVATIONS FOR AUG. 1848.

Chiswick.-August 1. Heavy showers. 2. Very fine. 3. Rain. 4. Cloudy and fine. 5. Heavy showers. 6. Fine : cloudy : showery. 7. Very fine. 8. Fine: rain. 9. Clear : showers : clear. 10. Very fine : rain at night. 11. Overcast: rain. 12. Cloudy. 13. Overcast : rain. 14. Heavy rain. 15. Densely clouded. 16. Foggy : overcast : clear. 17. Hazy and damp: overcast. 18. Very fine. 19. Rain. 20. Very fine. 21. Heavy rain: showery. 22. Heavy shower : clear. 23. Fine. 24. Showery : clear, with lightning at night. 25. Hazy : rain : cloudy and fine. 26. Unifornly overcast : rain. 27. Rain. 28. Cloudy : slight rain. 29. Fine. 20. Very fine. 31. Very fine till 5 p.m., when a very heavy thunder-storm commenced and continued upwards of two hours-an inch of rain falling in the time.

Mean temperature of the month ............................... $58^{\circ} \cdot 74$
Mean temperature of Aug. 1847 ................................. 62 • 47
Mean temperature of Aug. for the last twenty years ...... 62-s2
Average amount of rain in Aug. ................................. $2 \cdot 41$ inches.
Boston.-Aug. 1. Cloudy : rain early A.m. 2. Fine. 3. Rain: rain a.m. 4. Fine. 5. Rain : rain A.m. 6. Fine: rain p.m. 7, 8. Fine. 9. Fine: hailstorm and rain A.m. 10, 11. Fine. 12. Fine : rain p.m. 13. Fine. 14. Rain. 15. Fine. 16, 17. Cloudy. 18. Fine : rain p.m. 19. Cloudy : rain a.m. and p.м. 20. Fine. 21. Rain : rain A.m. and p.m. : very stormy. 22. Cloudy : rain A.m. and p.m. 23, 24. Fine. 25. Fine : rain p.m. 26. Cloudy : rain A.m. 27. Cloudy : rain P.m. 28. Cloudy. 29-31. Fine.

Applegarth Manse, Dumfries-shire.-Aug. 1. Fine : one slight shower. 2. One shower. 3. Showery. 4. Slight showers. 5. Fine throughout : thunder. 6. Fine : shower p.m. 7. Fine and fair. 8. Heavy rain all day : thunder : flood. 9. Frequent showers. 10. Frequent showers : thunder. 11, 12. Fair and fine. 13. A few drops : fine. 14, 15. Fair and fine. 16. Fair and fine : a few drops p.s. 17. Heavy rain A.m. : cleared and fine. 18. Fine A.m.: heavy rain p.m. 19. Heavy rain A.m. : very high flood. 20. Fine, but cloudy A.m. : shower p.m. 21. Dull A.m.: rain p.m. 22. Showers. 23. Gentle showers: thunder. 24. Showers. 25. Fair and fine. 26. Complete day of rain: flood. 27. Fair and fine. 28. Rain: cleared p. m. 29. Fine till 6 p.m.: then heary rain. 30. Fair till 11 A.m. : rain and hail p.m. 31. Very fine day throughout.

Mean temperature of the month ................................. 530.7
Mean temperature of Aug. 1847 ................................. 57 •1
Mean temperature of Aug. for the last twenty-five years . $57 \cdot 1$
Rain in Aug. 1847 ................................................ $2 \cdot 23$ inches.
Average amount of rain in Aug. for twenty years ......... $3 \cdot 60$ "
Sandwick Manse, Orkney.-Aug. 1, 2. Bright: clear. 3. Cloudy : clear. 4-6. Bright: clear. 7. Cloudy: clear. 8. Bright : clear: aurora. 9. Bright : rain. 10. Showers. 11. Showers : clear: cloudy. 12. Cloudy : clear. 13. Clear. 14, 15. Fine. 16. Bright: frost: clear. 17. Rain : clear. 18. Clear: cloudy. 19. Rain: showers. 20. Showers: clear. 21. Clear: aurora. 22. Clear: cloudy. 23. Showers. 24. Clear. 25. Clear: frost: fine. 26. Cluudy : showers. 27. Clear. 28. Cloudy : clear : drops. 29. Clear : drops. 30. Clear : showers. 31. Bright : cloudy.
Meteorological（Observations made by Mr．Thompson at the Giarden of the Horticultural Society at Chiswicx，near London；by Mr．Veall，at

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