

Princeton, June. 1843.

Dear Doctor

Eliza received your letter, & I hope will fill at least one page of this sheet in return. She did not deserve so much attention from you. I greatly wish that she would exercise herself more in epistolary writing. She & the other children are much occupied in their studies of recitation - & in a day or two they are to commence their French.

I have had a very good drawing of the *Obolaria* prepared - but have no new views to offer concerning its placentation. I wait for the fruit to open - to see whether any change will take place in the appearance of the ovuliferous walls. It will be important too, to examine the seeds. The root has (as Darlington states) something of a coralloid appearance, the fibres - but I could not find that in my case that ~~was~~ plant was parasitic. The relative position of the carpels with respect to the axis is not constant.

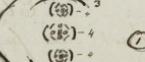
The most common arrangement is this, for the Solitary Cauline axillary flowers. Fig 1 Stem.



2 Bract. 3 Bracteoles or Sepals.

4 Petals (united $\frac{2}{3}$ of the way up) 5 Stamens 6 Ovary. (represented large in the following a  a) The outer circle is the membranaceous covering (exocarp & endocarp united?) The convex wavy circle is the ovuliferous cavity united with the exterior conv. at (a.a.) ^(perpendicular to the axis): The parallel lines show the direction of the laminae of the Stigma. There is a deep groove at a.a., but no appearance of a sulcus anywhere else. Can the carpels be collected
erect, & a.a. the ventral sutures? The peduncles are often 3-flowered

In this case the relative position of the sepal, & the axis of the central flower
~~is~~ to the axis is reversed. If the lamellæ of the stigmas in all these
flowers are in the same line of tangency to the axis of the stem. The
lamellæ are perpendicular to the axis of the branch.
1 Axis of the stem. 2 General bract or p
central leaf subtending the branch. 3 Bract of the 2 lateral flowers. 4 Sepals
5



I have been looking at Broome's. If you begged to explain (accord-
ing to the generally received doctrine,) the 4 parallel placenta
in a Diapetalous way. They are plainly enough to be seen - 4 of them,
equidistant & similar. The style is curved & tapering, the
stigma blackish. There is a concurvous cavity from the body of the
ovary to summit of the style & the stigma is porous between
its lobes. Did Lindley notice this in his figure? Did he not give
any details of the way of capsule? If he did they are not
copied in your figure. Are the Ovules attached both to
the ventral & dorsal surfaces?

June 28. - This sheet was commenced a fortnight ago
& laid aside for a favorable opportunity to examine some other
plants of give you my view of their structure - but I have
been prevented by various duties, as well as by a visit to New-
York of collecting from the prevailing epidemic. Mrs.
Terry has received a letter from you since I returned, &
the note by Mr. Abbott was handed to me two or
three days ago. I am glad that I saw him, though
for little more than half an hour. I might have
spent part of a day with him had I been aware that he was
in New York. The parcel of Buckley plant (including
Merriam) I left at Wiley & Putnam; myself, the young
man who used to attend to such affairs took it. I think

had it under the counter. I told him there were parcels coming
for Mrs. T. from you, & that the whole were to be forwarded
together.

I found my parcel of H. Brasil. &c.

The Cyperaceæ pleased me greatly - although I cannot adopt all
her's genera. I see her adopt one Peltocaryæ

When you come this way call at Throckmorton's & ask if they have heard
from Mr. Leroy. He removed to St. Louis (I think) about the
time I left home, & I have no place for him. Perhaps Throckmorton
will advance the money - as poor K. need it greatly.

Cannot you manage to visit Pecker-Wood & some other part
of the Pine, in July. Eliza & I are going in a small
wagon with Kuest.

I have been examining young Buckleberries. Several are dead
& cotted, but the ~~rest~~ ^{rest} are only 5. The dorsal surface
which are more or less infested, & even attached to the placenta.
There is a placental lobe in each half cell. Sometimes, the end of
becomes indented, finely nerved. I have made a number
of drawings which I will show you.

What a splendid affair was that Celestine Catchhand! I was
somewhat prepared to go with a friend who would have paid my
expenses - but I could not spare the time - & it is well that I
came with home.



Torrey, John. 1843. "Torrey, John Jun [23], 1843." *John Torrey letters* -.

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