

2. The inconsiderable breadth of the posterior portion ;
3. The similar disposition of dorsal ribs ;
4. The shortness of the rostrum or posterior point.

6. *Hyalæa lævigata*, d'Orbigny.

1836. *Hyalæa lævigata*, d'Orbigny, Voyage dans l'Amérique méridionale, t. v. p. 110, pl. vii. figs. 15, 19.

1850. *Diacria lævigata*, Gray, Catalogue of the Mollusca in the Collection of the British Museum, pt. ii., Pteropoda, p. 11.

1858. *Pleuropus lævigatus*, A. and H. Adams, The Genera of Recent Mollusca, vol. ii. p. 611.

I refer this form to *Cavolinia longirostris*, with which it appears to have most affinity :—

1. In the horizontal direction of the posterior margins ;
2. In the way the ventral lip extends posteriorly beyond the dorsal ;
3. In the two inconspicuous dorsal grooves ;
4. In the curvature of the posterior portion (in *Cavolinia longirostris* the initial portion of the shell is always broken off, but even the direction of the truncature shows that the portion which has disappeared would have been much recurved dorsally). It is of course not to be imagined that "*Hyalæa lævigata*" is the caducous portion of *Cavolinia longirostris*, to which only its posterior recurved portion corresponds.

The geographical distribution of the two forms is the same. *Cavolinia longirostris* is abundant in localities where *Hyalæa lævigata* has been found.

*7. *Hyalæa depressa*, d'Orbigny.

1825. *Pleuropus pellucidus*, Eschscholtz, Bericht über die zoologische Ausbeute während der Reise von Cronstadt bis St. Peter und Paul, Oken, Isis, 1825, p. 735, pl. v. fig. 2 (male).

1836. *Hyalæa depressa*, d'Orbigny, Voyage dans l'Amérique méridionale, t. v. p. 110, pl. vii. figs. 11–14.

1850. *Clio pellucida*, Gray, Catalogue of the Mollusca in the Collection of the British Museum, pt. ii., Pteropoda, p. 14.

1850. *Diacria depressa*, Gray, *Ibid.*, p. 11.

1853. *Cleodora curvata*, Huxley, On the Morphology of the Cephalous Mollusca, &c., Phil. Trans., 1853, p. 42, pl. iv. figs. 4, 5.

1858. *Pleuropus depressus*, A. and H. Adams, The Genera of Recent Mollusca, vol. ii. p. 611.

Souleyet¹ has referred *Pleuropus pellucidus* to *Clio cuspidata*, and Gray to "*Cleodora curvata*," Souleyet. These identifications appear to me erroneous, as in my opinion *Pleuropus pellucidus* corresponds to *Hyalæa depressa*. But as the description and figure given by Eschscholtz are equally bad, it is better to ignore entirely the title which he has bestowed.

¹ Histoire naturelle des Mollusques Ptéropodes, p. 48.