

ON THE NOMENCLATURE OF DRUPA.

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A necessary but mournful process in scientific advancement is the elimination of familiar names. It has been shown by Dr. Dall (Journ. of Conch., XI, 1906, p. 294) that *Ricinula* of Lamarck, 1812, and *Ricinella* of Schumacher, 1817, must yield to *Drupa* Bolten, 1798, of which the type is *D. morum* Bolten.

Continuing the process of revision from genus to species, similar changes occur, for with the fall of *Ricinula* go the Lamarckian specific names associated with it. The presentation of the genus most accessible to students is that of Tryon's Manual of Conchology, II, 1880, pp. 182-185. In the genus as there framed the specific names require amendment. Meeting at the first step *Ricinula hystrix* Linn., it is to be remarked that Hanley (Ips. Linn. Conch., 1855, p. 294) has shown that *Murex hystrix* Linn., is an immature *M. ricinus* L., to the synonymy of which it must be accordingly transferred. Other synonyms of *M. ricinus* are *D. tribulus* Bolten, recognized by von Martens (Rumphius, Gedenboek, 1902, p. 116) and *R. arachnoides* Lamk., noted by Tryon.

The place which Tryon gave to *R. hystrix* should apparently be taken by *Drupa rubuscaesius* Bolten, of which *clathrata* Lamarck, 1822, and *speciosa* Dunker, 1867, seem to be synonyms. But *R. reeveana* Crosse, should be parted from its heading and subordinated as an absolute synonym to *D. rubusidaeus* Bolten, an independent species. Again, *R. laurentiana* Petit should be cut away from the species to which Tryon binds it and associated with *R. digitata*.

R. horrida Lamarck, was preceded both by *R. violacea* Schumacher, 1817, and *D. morum* Bolten, 1798. As the same figure in the Conchylien Cabinet was cited by all three authors, the coincidence of names is exact. Similarly another of Martini's figures (979) is given as foundation by Bolten in 1798 for his *D. grossularia*, by Schumacher in 1817 for his *R. dactyloides*, and by Lamarck in 1822 for his *R. digitata*. So that the claim for Bolten's name is here also clear. Deshayes has pointed out (An. s. vert., X, p. 50, footnote) that Blainville unfortunately redescribed the yellow form of this species as "*lobata*," while to the nameless brown form he gave the preoccupied name of "*digitata*." On the ground of expediency, Deshayes thereupon reversed Blainville's names. Though

his example has been followed, this action is quite illegitimate. For the brown form is available the name of "*fusca*," apparently introduced by Deshayes (*op. cit.*, p. 53) for f. 4, pl. 235, of Sowerby's Genera of Shells.

R. biconica of the Manual represents a group rather than a species, in which we may distinguish *D. spinosum* H. & A. Adams, Genera I, 1851, p. 130, for Reeve's *Ricinula*, f. 12b; *D. iostomus* A. Adams, Proc. Zool. Soc., 1851, p. 267, and Gardiner, Fauna Laccadive, Pl. XXXV, f. 14; and *R. andrewsi*, Smith, P. Mal. Soc., VIII, 1909, p. 369, fig.

So the species grouped by Tryon under *Ricinula*, *sensu stricto*, may thus be tabulated in revised nomenclature; synonyms in *italics*.

1. DRUPA MORUM Bolten, 1798.
R. violacea Schumacher, 1817.
R. horrida Lamarck, 1822.
2. DRUPA IODOSTOMA Lesson, 1842.
3. DRUPA GROSSULARIA Bolten, 1798.
R. dactyloides Schumacher, 1817.
R. digitata Lamarck, 1822.
R. lobata Blainville, 1832.
var. *fusca* Deshayes, 1844.
R. digitata Blainville, 1832.
var. *laurentiana* Petit, 1850.
4. DRUPA RICINUS Linne, 1758.
D. tribulus Bolten, 1798.
M. hystrix Linne, 1758.
R. arachnoides Lamarck, 1822.
var. *elegans* Brod. & Sowerby, 1828.
var. *albolabris* Blainville, 1832.
5. DRUPA RUBUSCAESIA Bolten, 1798.
R. clathrata Lamarck, 1822.
R. speciosa Dunker, 1867.
R. spathulifera Blainville, 1832.
var. *miticula* Lamarck, 1822.
6. DRUPA RUBUSIDAEUS Bolten, 1798.
R. reeveana Crosse, 1862.
7. DRUPA BICONICA Blainville, 1832.
8. DRUPA SPINOSA H. & A. Adams, 1853.
9. DRUPA IOSTOMUS A. Adams, 1853.
10. DRUPA ANDREWSI Smith, 1909.