

GALWAYELLA, A NEW FORAMINIFERAL GENUS AND NEW NAMES FOR TWO FORAMINIFERAL HOMONYMS

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ABSTRACT

Galwayella, a new genus of the Oolininae differs from other genera of this family by its distinct trigonal cross-section. The type species of the new genus is *Lagena trigonoelliptica* Balkwill and Millett, 1884.

New names are proposed for two homonyms in the Oolininae and Nodosariinae: *Lagenosolenia incomposita* for *Lagena marginata* (Montagu) var. *spinifera* Earland, and *Dentalina ariena* for *Dentalina intorta* (Dervieux).

INTRODUCTION

The authors are currently studying benthic foraminifera from the Rio Grande Rise in the southwest Atlantic Ocean, and from the Benham Rise in the western Philippine Basin of the western Pacific Ocean. While identifying Quaternary species of the Oolininae and Nodosariinae a new genus has been differentiated and some specific taxa were found to be homonyms of previously described species. We are herein describing the new genus and proposing replacement names for the junior homonyms.

SYSTEMATIC DESCRIPTION

Suborder ROTALINA Delage and Herouard, 1896
Superfamily NODOSARIACEA Ehrenberg, 1838

Family GLANDULINIDAE Reuss, 1860

Subfamily OOLININAE Loeblich and Tappan, 1961

Galwayella, n. gen.

Trigonulina SEGUENZA, 1862, p. 74 (not d'Orbigny, 1846).

Type species. *Lagena trigonoelliptica* Balkwill and Millett, 1884, p. 81, 87, pl. 3, fig. 8 (as *L. marginata* var. *trigono-elliptica* on p. 87).

Diagnosis. An oolinid with a distinct trigonal cross-section.

Description. Test free, unilocular, triangular in section, apices mayor may not be keeled, subfusiform longitudinally, broadest centrally and tapering at ends; wall calcareous, hyaline, smooth; aperture a curved narrow slit to triangular, apertural region may be compressed, with a short centrally located entosolenian tube; neck mayor may not be distinct.

Derivation of name. From Galway Bay, Eire, plus *-ella*, diminutive, with reference to the type locality of the type species of the microfossil.

Remarks. *Galwayella*, n. genus, differs from *Fissurina* Reuss, 1850 in the distinct trigonal cross-section and the trigonal aperture of many species. *Trigonulina* Seguenza (1862), with type species *Trigonulina oblonga* Seguenza (1862) as designated by Cushman (1928, p. 193), may be congeneric. Unfortunately, *Trigono-*

lina Seguenza is a homonym of *Trigonulina* d'Orbigny (1846, Mollusca) and is therefore invalid. Seguenza (1862) lists no depository for *Trigonulina oblonga*. As no specimens of *T. oblonga* were available for this study, its placement in *Galwayella*, although probable, is not certain. *Lagena trigonoelliptica* Balkwill and Millett (1884), was available for study from the Quaternary of DSDP Site 357 in the southwest Atlantic, and was therefore chosen as the type species of *Galwayella* (Figs. 1-4).

Certain species formerly included in *Trigonulina* Seguenza and *Lagena* Walker and Jacob (in Kanmacher, 1798) are herein transferred to *Galwayella*. These include *Trigonulina biangulata* Seguenza, now *Galwayella biangulata* (Seguenza), *Trigonulina globosa* Seguenza, now *G. globosa* (Seguenza), *Trigonulina oblonga* Seguenza, now *G. oblonga* (Seguenza), *Trigonulina regularis* Seguenza, now *G. regularis* (Seguenza), *Lagena trigona* Koch, now *G. trigona* (Koch), *Lagena trigonobicarinata* Balkwill and Millett, now *G. trigonobicarinata* (Balkwill and Millett), *Lagena trigonoorbignyana* Balkwill and Millett, now *G. trigonoorbignyana* (Balkwill and Millett), *Lagena trigonoornata* Brady, now *G. trigonoornata* (Brady) and *Lagena trigonopulchella* Balkwill and Millett, now *G. trigonopulchella* (Balkwill and Millett).

Lagenosolenia McCulloch, 1977

Lagenosolenia incomposita, n. name

Lagenosolenia incomposita new name for *Lagena marginata* (Montagu) var. *spinifera* EARLAND, 1934, p. 156, pl. 7, figs. 3, 4, not *Lagena aspera* Reuss var. *spinifera* CHAPMAN 1895, p. 27, pl. 1, fig. 4.

Derivation of name. From the Latin, *incompositus*, disarranged, confused, with reference to the muddled nomenclatorial history of the species.

Remarks. *Lagena marginata* (Montagu) var. *spinifera* Earland is a primary homonym of *Lagena aspera* Reuss var. *spinifera* Chapman. Although herein transferred to *Lagenosolenia*, the species *spinifera* was a homonym when coined by Earland in 1934 and is therefore unavailable. The new name *Lagenosolenia incomposita* is proposed as a replacement.

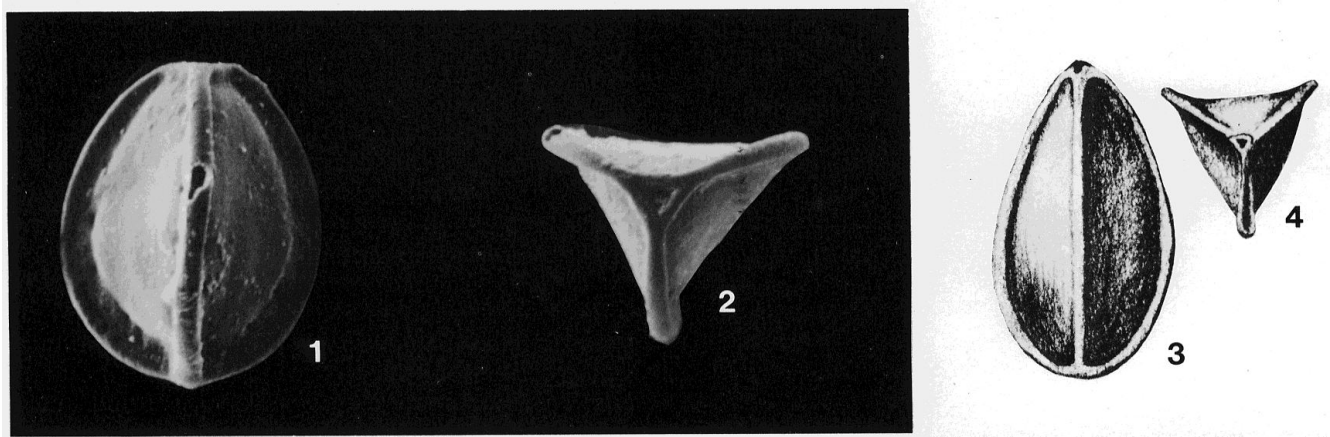
Family NODOSARIIDAE Ehrenberg, 1838

Subfamily NODOSARIINAE Ehrenberg, 1838

Dentalina Risso, 1826

Dentalina ariena, n. name

Dentalina ariena new name for *Dentalina intorta* (Dervieux) BARKER, 1960, (ex *Nodosaria intorta* Dervieux, 1894) p. 130, pl. 62, figs. 27-31, not *Dentalina intorta* TERQUEM, 1870, p. 364, pl. 27, figs. 26-34.



FIGURES 1-4. *Galwayella trigonoelliptica* (Balkwill and Millett). 1 Side view of hypotype (USNM 383281); x 300. 2 Apertural view of same specimen showing trigonal opening; from DSDP Site 357, Core 1, Section 2, 80-86 cm; x 300. 3,4 Side and apertural view of specimen figured by Balkwill and Millett (1884, pl. 3, fig. 8); from the shoresands of Galway Bay, near Salthill, about two miles west of Galway, Eire; x 145.

Derivation of name. From the Latin, *ariena*, fruit of pala, plantain, with reference to the shape of the test.

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