

# **CALVEZELLA, A NEW REPLACEMENT NAME FOR ARAGONELLA CALVEZ, 1989 (TYPE-SPECIES *A. MARGINATA*), A FORGOTTEN ORBITOLINID FROM THE ALBIAN OF SPAIN**

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**Abstract** Calvez (1989) described a new orbitolinid as *Aragonella marginata* n. gen., n. sp. from the Albian of Spain. The genus name however is a junior homonym of *Hantkenina* (*Aragonella*) Thalmann, 1942, an Eocene foraminiferal genus. In accordance with Article 60.3 of the International Code of Zoological Nomenclature (ICZN), the new replacement name *Calvezella* is introduced for *Aragonella* Calvez, 1989. This taxonomic revision leads to the new combination *Calvezella aragonata* (Calvez, 1987) for its only species.

**Keywords:** Foraminifera, New Replacement Name, Taxonomy, ICZN, Lower Cretaceous

## **INTRODUCTION**

In 1989 Calvez described a new genus belonging to the Orbitolinidae as *Aragonella marginata* n. gen., n. sp. from the Albian of the Spanish Pyrenean Mountains ("Calcaires Urgo-Albien moyen"). The generic name referred to the nearby Spanish Province of Aragon, and the specific name to the marginal zone of the orbitolinid taxon. Because the genus was described after the publication of the monograph by Loeblich & Tappan (1987), it has logically not been treated in it. *Aragonella* has neither been included in later taxonomic compilations (e.g., Kaminski, 2010, 2014; Iba et al., 2011; Mikhalevich, 2013; BouDagher-Fadel, 2018) nor mentioned in the recent redefinition of the orbitolinid genera by Cruz-Abad (2018). According to my knowledge, *Aragonella marginata* has not been recorded elsewhere in the literature since its description in the late 1980's. In the World Foraminifera Database (Hayward et al., 2018), it is mentioned as a "junior homonym of *Hantkenina* (*Aragonella*) Thalmann, 1942". In accordance with Article 52.1 (Principle of homonymy), and Article 60.3 (Junior homonyms without synonyms) of the International Code of Zoological Nomenclature (ICZN), the new replacement name *Calvezella* is introduced for *Aragonella* Calvez, 1989. In addition to this nomenclatural revision, a new find from the Albian of Cantabria, Northern Spain is provided (Fig. 1).

## **SYSTEMATICS**

Phylum Foraminifera d'Orbigny, 1826  
 Class Globothalamea Pawlowski et al., 2013  
 Order Loftusiida Kaminski and Mikhalevich, 2004  
 Suborder Loftusiina Kaminski and Mikhalevich, 2004  
 Superfamily Orbitolinoidea Martin, 1890  
 Family Orbitolinidae Martin, 1890  
 Subfamily Dictyoconinae Moullade, 1965  
 Genus *Calvezella* Schlagintweit, nomen novum pro *Aragonella* Calvez, 1989  
 Type-species *Aragonella marginata* Calvez, 1989  
**Etymology:** Named in honour of Hervé Calvez, who first described the genus. The genus name is feminine.

**Remarks:** The detailed description provided by Calvez (1989) is considered as still valid. Also the comparisons with the taxa *Heterocoskinolina* Saint-Marc, 1978, and *Abrardia* Neumann & Damotte, 1960 are justified. Calvez (1989, p. 520) considered *Paracoskinolina pertenuis* Foury, 1968 from the Barremian of France a possible representative of "*Aragonella*" lacking rafters in the marginal zone and therefore being more primitive than "*A.*" *marginata* (with rafters). This species has correctly been removed from *Paracoskinolina* and taxonomically revised as *Eopalorbitolina pertenuis* (Foury) by Cherchi & Schroeder (2002).

**Occurrences:** The type-locality chosen by Calvez (1989) is the hermitage of Las Aras, Province of Aragon (Fig. 1a-b). In the outcropping Urgonian limestones (Urgo-Albien), *Calvezella marginata* is associated with other orbitolinids such as *Simplorbitolina conulus* Schroeder and *S. manasi* Ciry & Rat. This assemblage characterizes the uppermost early to middle Albian (Schroeder and Neumann, 1985).

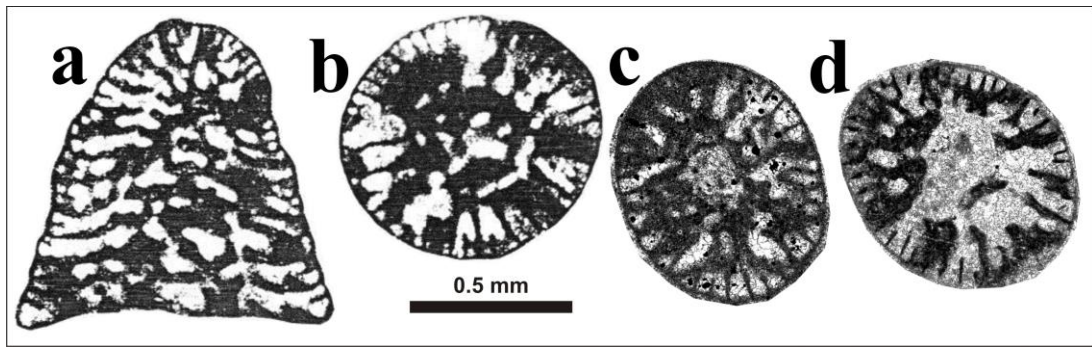
Apart from the original description, *Calvezella marginata* has been observed in wackestones associated with *S. conulus* from the Rmales Formation of the Solorzano section in Cantabria, south-east of the city of Santander (Schlagintweit et al., 2017, Figs. 1, 3), (Fig. 1c-d).

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**Fig. 1** *Calvezella marginata* (Calvez) n. comb., from the Albian of the Spanish Pyrenees (**a-b**), and Cantabria (**c-d**). **a** Axial section of the holotype (from Calvez, 1989, fig 2n). **b** Transverse section (from Calvez, 1989, fig. 2e). **c-d**) Slightly oblique transverse sections.

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