

***Echinanthus callosensis* (Echinoidea, Eocene) nomen novum  
pro *Echinanthus dorsalis* Cotteau, 1889 nomen praeoccupatum**

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**RESUMEN** – Se propone sustituir *Echinanthus dorsalis* Cotteau, 1889 nomen praeoccupatum por *Echinanthus callosensis* nomen novum.

**ABSTRACT** – The following replacement name is proposed: *Echinanthus callosensis* nom. nov. instead of *Echinanthus dorsalis* Cotteau, 1889 nomen praeoccupatum

**KEY WORDS** – Palaeontology. Echinoidea. Lutetian, new name and new species. Southeast Spain.

### HISTORICAL SUMMARY

The genus *Echinanthus* has a confused taxonomic history, owing to several authors accepted the genus *Echinanthus* Leske (1778), but others used *Echinanthus* Breynius, 1732, prelinnean author.

For this reason, some authors changed *Echinanthus* Breynius, 1732 and used other genera. For example Gray (1834, *sic*, in d'Orbigny, 1854, p. 18) suggested *Echinolampas*, instead of *Echinanthus* Breynius, 1732. But d'Orbigny (1854), against the opinion of Gray, used again the name of *Echinanthus*. Here the opinion of D'Orbigny (1854, p. 18) is reminded:

“...ce genre a été changé en *Echinolampas*, par M. Gray, en 1834. M. Agassiz et tous les autres auteurs ont conservé cette dénomination imposée par le naturaliste anglais. Pour nous, nous revenons a la plus ancienne des appellations, à celle d' *Echinanthus*”

As a consequence d'Orbigny (1854 in p. 18) points out all the species of *Echinolampas* Gray

must became to genus *Echinanthus* Breynius, 1732, and so the species *Echinolampas dorsalis* Agassiz & Desor, 1847 must be renamed as *Echinanthus dorsalis*. Agassiz & Désor, 1847. Because of this opinion d'Orbigny (1854, p. 22), when copy the catalog of echinoids of Agassiz and Desor (1847), points out the following synonymy for *Echinolampas dorsalis* Agassiz & Desor:

*Echinanthus dorsalis*, d'Ob., 1853. – *Echinol. dorsalis*, Ag. et Des. Loc. sup cit., p.106. 1847

As can be seen d'Orbigny used the following principle: when an author changes the name of the genus, this author becomes the author also of the species. However *Echinolampas dorsalis* (d'Orbigny, 1854) must be named *Echinolampas dorsalis* (Agassiz & Desor, 1847). On the other hand, we believe that 1853 is the year that d'Orbigny writes the publication, that in fact was published in January 1854.

This taxonomic position of d'Orbigny gave rise to quite controversy. For example this was the reaction of Desor (1858, p. 292), when writing a brief history of the genus *Echinanthus* Breynius, claims that: “Il s'en suivrait que toutes les nombreuses espèces d'*Echinolampas* dont M. d'Orbigny voudrait faire

des *Echinanthus* devraient de nouveau changer de nom”.

Cotteau (1884) followed to the opinion of Desor (1858) when pointed out *Echinanthus dorsalis* D'Orbigny, 1854, *recte Echinanthus dorsalis* Agassiz & Desor, 1847, is a synonymous of *Echinolampas dorsalis* Agassiz & Desor, 1847.

Incomprehensibly later Cotteau (1889) himself named also *Echinanthus dorsalis* for some specimens from Callosa d'Ensarrià (province of Alicante, Spain). The confusion arises because of the same specific name *dorsalis* was already used by Agassiz & Desor (1847).

As a matter of fact the specimens of *Echinanthus dorsalis* Agassiz & Desor, 1847 from Saint Palais (France) are quite different from *Echinanthus dorsalis* Cotteau, 1889 from Callosa d'Ensarria because of both belong to two quite different genus. The genus *Echinolampas* Gray, 1825 has a transversal periprocte, however *Echinanthus* Breynius, 1732 has longitudinal one.

As a conclusion, here a *nomen novum* is proposed for *Echinanthus dorsalis* Cotteau, 1889 non Agassiz & Desor, 1847.

## SYSTEMATIC PALAEONTOLOGY

Genus *Echinanthus* Breynius, 1732

*Echinanthus callosensis* Carrasco, 2015, new species and *nomen novum*

1889 *Echinanthus dorsalis* Cotteau, p. 646-647 *nomen praeoccupatum*

1890 *Echinanthus dorsalis* Cotteau, p. 61-62, pl. VII, fig. 10-13 *nomen praeoccupatum*

**Taxonomic notes** – The holotype is the specimen described and figured by Cotteau (1889). We don't know where the holotype is housed. Cotteau himself pointed out the type specimen belongs to “ma Collection (M. Marty)”. Was named for the provenance of the locality (Callosa d'Ensarrià, Sheet 848, Alicante Province, Spain) where the type was collected. Our first opinion was to give the name of Cotteau to the new species, but *Echinanthus cotteaui*

was already described. So we must named otherwise. The *stratum typicum* is Lutetian.

## ACKNOWLEDGEMENTS

We thank Dr Bruno Cahuzac (Université Bordeaux 1) for providing old bibliographical references of french echinologists and staff of Museo Geológico del Seminario de Barcelona which offered us corrections and suggestions.

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Received in December 2014

Accepted in March 2015