

# On the nomenclatural validity of *Achnantheidium subatomoides* (Bacillariophyta)

## *Sobre la validación nomenclatural de Achnantheidium subatomoides (Bacillariophyta)*

Saúl Blanco<sup>1</sup> & Luc Ector<sup>2</sup>

<sup>1</sup>Department of Biodiversity and Environmental Management, University of León.E-24071 León, Spain. Current address: The Institute of the Environment. La Serna, 58, E-24007 León, Spain

<sup>2</sup>Department of Environment and Agro-biotechnologies (EVA), Public Research Centre - Gabriel Lippmann.Rue du Brill, 41, L-4422 Belvaux, Luxembourg

e-mail: sblal@unileon.es

The name *Navicula subatomoides* was first used by Hustedt in Schmidt *et al.* [4] for a diatom found in Vuokatti, Finland. According to Patrick [3] and Fourtanier & Kociolek [1], since no valid description accompanied the type illustration, this binomial is to be considered as invalidly published. In our opinion, however, the brief text included in the plate legend (“*N. subatomoides nov. spec.* Kannwegen der wesentlich zarteren Struktur nicht mehr mit taf. 403, fig. 51-53 verbunden werden [in reference to *N. minima* var. *atomoides* (Grunow) Cleve]”, cfr. also Simonsen [5]: “Description included in plate explanation”) does constitute an effective diagnosis of this taxon under ICN rules. The reasons are: i) it presents a statement that distinguishes the taxon from other taxa (Art. 38.2), and ii) German is a valid language for diagnoses of non-fossil algae described before 1 January 1958 (Art. 44.1). Therefore, this name, as well as subsequent combinations based on it, namely *Navicula utermoebli* var. *subatomoides* (Hust.) Cleve-Euler, *Achnanthes subatomoides* (Hust.) Lange-Bert. & R.E.M. Archibald, *Psammothidium subatomoides* (Hust.) Bukhtiyarova & Round, and *Achnantheidium subatomoides* (Hust.) O. Monnier, Lange-Bert. et Ector [2] are validly published. Accepting the taxonomic argumentation provided by Monnier *et al.* [2] to transfer this species to the genus *Achnantheidium*, we want to repeat hereunder its correct name in this genus:

*Achnantheidium subatomoides* (Hust.) O. Monnier, Lange-Bert. et Ector in Monnier *et al.* [2].

Basionym: *Navicula subatomoides* Hust. in Schmidt *et al.* [4]

Lectotype: BRM N12/84 (HT fide R. Simonsen [5])

## Acknowledgements

P. Compère (National Botanic Garden of Belgium) kindly revised the draft.

## References

- [1] Fourtanier, E. & Kociolek, J.P. 2009. *Catalogue of Diatom Names. Part 2: Abas through Bruniopsis*. California Academy of Sciences Occasional Papers 156: 1-231.
- [2] Monnier, O.; Lange-Bertalot, H.; Hoffmann, L. & Ector, L. 2007. *The genera Achnantheidium Kützting and Psammothidium Bukhtiyarovaet Round in the family Achnanthidiaceae (Bacillariophyceae): a reappraisal of the differential criteria*. Cryptogamie Algologie 28: 141-158.
- [3] Patrick, R. 1945. *A taxonomic and ecological study of some diatoms from the Pocono Plateau and adjacent regions*. Farlowia 2: 143-221.
- [4] Schmidt, A. et al. 1936. *Atlas der Diatomaceen-kunde. Series VIII, Issue: Heft 101-102, pls. 401-408 [F. Hustedt]*. O.R. Reisland, Leipzig.
- [5] Simonsen, R. 1987. *Atlas and Catalogue of the Diatom Types of Friedrich Hustedt, Volumes I-III*. J. Cramer, Berlin. 618 pp.