



Comments on the priority of *Fryxelliella pacifica* over *Fryxelliella sepulvedana* (Eupodiscaceae, Bacillariophyta)

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In 2008 two new species of the diatom genus *Fryxelliella* A.K.S. Prasad, Riddle *et* Livingston (1997: 306) were independently described from the tropical Mexican Pacific Ocean: *Fryxelliella pacifica* Hernández-Becerril *et* Barón-Campis (Hernández-Becerril & Barón-Campis 2008: 150) and *F. sepulvedana* Meave, Zamudio *et* Fernandes (Meave *et al.* 2008: 179). The types of both species were collected at Salina Cruz, Oaxaca, Mexico.

Observations of the type materials, deposited in MEXU (Herbario Nacional de México, Instituto de Biología, Universidad Nacional Autónoma de México; MEXU, slide 1705 for *Fryxelliella pacifica*, and slides 1837, 1839 for *F. sepulvedana*), were made to compare both species. All morphological (shape, size, areolae density, presence of three equidistant ocelli and three alternate rimoportulae) and ecological (locality and habitat) details given in the original protologues coincide, leading us to conclude that only one species is involved.

There exists, however, different opinions concerning the priority of the two names, particularly *Fryxelliella sepulvedana* over *F. pacifica* (Aké-Castillo *et al.*, 2014). The question as to which of the two names has priority is complex as the nominal date of publication is the same for both venues of publication, *Phycological Research* and *Iheringia*.

New evidence, recently found through correspondence with the former editor of the journal *Iheringia* (Dr. Lezilda Torgan, pers. comm.), indicates that the date of printing of *Iheringia*, Série Botânica 63 (2) was 1st October 2008 and was received in major libraries in the UK, and the Smithsonian and Berkeley, USA, between November and December, 2008. The issue of *Phycological Research* was printed and delivered by September, 2008 (for details see Table 1a, b). Thus, species published in *Phycological Research* have priority. Therefore, we suggest that the taxonomy should be:

Fryxelliella pacifica Hernández-Becerril *et* Barón-Campis (2008: 150, Figs 2–29).

Synonym: *Fryxelliella sepulvedana* Meave, Zamudio *et* Fernandes (*in* Meave *et al.*, 2008: 179, Figs 2–28).

TABLE 1: a) Dates of ms. submission, acceptance, receipt of DOI and printing for *Phycological Research* 56(3) and *Iheringia*, Série Botânica 63 (2); b) Dates of receipt of *Iheringia*, Série Botânica 63 (2) for several UK libraries and the Smithsonian.

	Date of ms submission	Date of ms acceptance	DOI	Date of Publication
<i>Fryxelliella pacifica</i>	9th June, 2007	November 23rd, 2007	19th August 2008	September 2008
<i>Fryxelliella sepulvedana</i>	28th November, 2007	January 10th, 2008	--	1 st October 2008 ¹
	NHM	Kew	RBG Edinburgh	Smithsonian
Date of Receipt: <i>Iheringia</i> , Série Botânica 63 (2)	28 th November 2008	26 th November 2008	3 rd December 2008	9 th December 2008

¹ “Jan/Jun. 2008” appears on the cover but this date indicates the date of completion not printing

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References

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