Erratum to: Zn biomineralization processes and microbial biofilm in a metal-rich stream (Naracauli, Sardinia)

F. Podda · D. Medas · G. De Giudici · P. Ryszka ·
K. Wolowski · K. Turnau

Published online: 28 November 2013
© Springer-Verlag Berlin Heidelberg 2013

Erratum to: Environ Sci Pollut Res (2013) DOI 10.1007/s11356-013-1987-0

We would like to bring your attention to some errors in the article “Zn biomineralization processes and microbial biofilm in a metal-rich stream (Naracauli, Sardinia)” published in the Environmental Science and Pollution Research Journal 2013 (doi: [10.1007/s11356-013-1987-0](https://doi.org/10.1007/s11356-013-1987-0)). These errors have no influenced on the results presented.

1.a) In Table 3 (with description of taxa) the correct caption is:

Species composition of diatoms in biofilm, morphology characteristics, and site characteristics from which the diatoms are known according to: Krammer and Lange-Bertalot (1991); Van Dam et al. (1994); Levkov (2009); Wojtal (2009)

Instead of:

Species composition of diatoms in biofilm, morphology characteristics, and site characteristics from which the diatoms

are known according to: 1—Krammer and Lange-Bertalot (1991); 2—Van Dam et al. (1994); 3—Levkov (2009); 4—Wojtal (2009)

1.b) In Table 3 (with description of taxa) the correct references to the respective figures are:

Fig. 6a instead of Fig. 3a,
Fig. 6b instead of Fig. 3b,
Fig. 6c-d instead of Fig. 3c-d,
Fig. 6e-i instead of Fig. 3e-i,
Fig. 6j-k instead of Fig. 3j-k,
Fig. 6l-o instead of Fig. 3l-o,
Fig. 6p-r instead of Fig. 3p-r,
Fig. 7b-h instead of Fig. 4b-h,
Fig. 7i-l instead of Fig. 4i-l,
Fig. 7m instead of Fig. 4m,
Fig. 7n instead of Fig. 4n,
Fig. 7o instead of Fig. 4o

The online version of the original article can be found at <http://dx.doi.org/10.1007/s11356-013-1987-0>.

F. Podda · D. Medas (✉) · G. De Giudici
Department of Chemical and Geological Sciences,
University of Cagliari, 09127 Cagliari, Italy
e-mail: dmedas@unica.it

P. Ryszka · K. Turnau
Institute of Environmental Sciences of the Jagiellonian University,
Gronostajowa 7, 30-387 Kraków, Poland

K. Wolowski
Institute of Botany of the Polish Academy of Sciences, Lubicz 46,
31-512 Kraków, Poland

1.c) The correct Table 3 is shown below:

Species name	Morphology	Size of valvae and striae	Abundance	Distribution	Occurrence in other sites
<i>Achnanthes inflata</i> (Kützing) Grunow (Fig. 6a)	Valves longitudinally elliptic in outline, strongly widened at the center, ends capitate broadly rounded	40 µm long, 12.9 µm wide, striae 12 per 10 µm	Singly	Cosmopolitan	Frequently reported from tropical and subtropical regions and south Europe, in freshwater and brackish water
<i>Achnanthes levanderii</i> Hustedt (Fig. 6b)	Valves elliptical	7.5 µm long, 3.4 µm wide, striae 28–30 per 10 µm	Singly	Probably cosmopolitan	Oligo-saprobe with wide ecological amplitude
<i>Achnantheidium minutissimum</i> (Kützing) Czamecki (Fig. 6c, d)	Valves broadly elliptic, slightly narrowed at the ends	6.0–8.5 µm long, 2.5–2.9 µm wide; dorsal striae slightly radiate 30–31 in 10 µm with punctuation, ventral striae with points which are shortly oblong	Singly	Cosmopolitan	Wide ecological amplitude reported from fresh brackish water, neutrophilous
<i>Caloneis bacillum</i> (Grunow) Cleve (Fig. 6e–i)	Valves longitudinally elliptic, ends rounded sometimes slightly narrowed at the top	28–29 long, 5.8–6.1 µm wide, striae 27 per 10 µm	Singly	Cosmopolitan	Alkaline water
<i>Cocconeis placentula</i> Ehrenberg var. <i>lineata</i> (Ehrenberg) Van Heurck (Fig. 6j–k)	Valve broadly elliptical	20.9 µm long 13.4 µm wide 22–23 per 10 µm	Singly	Cosmopolitan and common	Alkaliphilous, beta-mesosaprobous
<i>Encyonopsis microcephala</i> (Grunow) Krammer (Fig. 6l–o)	Valves narrow, slightly dorsiventral, broadly elliptical, ends abruptly capitate	13.3–14.3 µm long, 3.7–3.8 wide, axial area narrow, striae slightly radiate 24–26 per 10 µm	Abundant	Cosmopolitan	Mountains to lowlands, from peat-bogs, halophilous, aerophilic
<i>Fragilaria tenera</i> (W. Smith) Lange-Bertalot (Fig. 6p–r)	Valves narrow, longitudinal	100–106 µm long, ca. 2.9 µm wide, striae 17–18 per 10 µm with punctuation	Singly	Cosmopolitan	Wide ecological amplitude
<i>Halamphora coffeaeformis</i> (Aghardh) Levkov (Fig. 7b–h)	Valves narrow, semi-lanceolate, dorsiventral with smoothly arched dorsal margin and straight to weakly concave ventral margin; valve ends shortly protracted, capitate	13.2–16.5–17.6–19–20 µm long, 3.1–3.4–4.1 µm wide dorsal striae radiate	In mass	Widely distributed	Freshwater, oligotrophic
<i>Halamphora normanii</i> (Rabenhorst) Levkov (Fig. 7i–l)	Valves longitudinal semi-lanceolate, dorsiventral with smoothly arched dorsal margin, valve ends protected, capitate and ventrally bent	32.5–35.5 µm long, 4.0 µm wide; ventral striae slightly radiate 26–32 per 10 µm, without punctuation, uniseriate	Singly	Widely distributed in Europe	Freshwater
<i>Navicula gregaria</i> Donkin (Fig. 7m)	Valves lanceolate to elliptic-lanceolate, ends narrowed slightly capitate	ca. 23.8 µm long, 6.1 µm wide; 18 striae per 10 µm	Singly	Cosmopolitan	Occurred in brackish water, common in eutrophic and hypereutrophic freshwater, alkaliphilous, mesosaprobous
<i>Nitzschia palea</i> (Kützing) W. Smith (Fig. 7n)	Valve narrowly lanceolate	13.9–14 µm long, 2.3–2.5 µm wide, 14 fibulae and 26–28 striae per 10 µm	Singly	Cosmopolitan	Wide ecological amplitude reported from fresh brackish water, neutrophilous
<i>Planolthidium frequentissimum</i> F.E. Round & L. Bukhtyarova (Fig. 7o)	Valves short elliptical	11.5 µm long, 4.9 µm wide, striae 16 per 10 µm	Singly	Cosmopolitan	Wide ecological amplitude, mesosaprobe

2) The correct caption of Fig. 6 is:

Diatoms present in biofilm of *Leptolyngbya frigida*: a – *Achnanthes inflata*, piece of the valve; b – *Achnanthes levanderi*; c–d – *Achnantidium minutissimum*; e–i – *Caloneis bacillum*; j–k – *Cocconeis placentula* var. *lineata*; l–o – *Encyonopsis microcephala*; p–r – *Fragilaria tenera* (for description see table 3).

Instead of:

Diatoms present in biofilm of *L. frigida*: a–e *C. bacillum*; f–h *Fragilaria tenera*; i *Navicula gregaria*; j *Nitzschia palea*; k *Achnanthes inflata*, piece of the valve; l,m *Achnantidium minutissimum*; n *Achnanthes levanderi*; o *Planothidium frequentissimum*; p–q *Cocconeis placentula* var. *lineata*; r *Stomatocyst*

3) The correct caption of Fig. 7 is:

Diatoms present in biofilm of *Leptolyngbya frigida*: a – general view on community of diatoms; b–h – *Halamphora*

coffeaeformis; i, j – *Halamphora normanii*; k, l – *Halamphora normanii*, teratological specimens; m – *Navicula gregaria*; n – *Nitzschia palea*; o – *Planothidium frequentissimum*; p – *Stomatocyst* (for description see table 3).

Instead of:

Diatoms present in biofilm of *L. frigida*: a General view of community of diatoms; b–h *Halamphora coffeaeformis*; i, j *H. normanii*; k, l *H. normanii*, teratological specimens; m–p *E. microcephala*

4) In the whole text must be:

Halamphora coffeaeformis

Instead of:

Halamphora subsalina

We sincerely apologise for any confusion this may have caused.