

Interactive comment on “Fossilized bioelectric wire – the trace fossil *Trichichnus*” by M. Kędzierski et al.

M. Kędzierski et al.

mariusz.kedzierski@uj.edu.pl

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We are really grateful to Referee #1 for the very kind review that promotes our idea on findings of the bacterial bioelectric activity in a fossil state. There were several minor revisions proposed that in general can be accepted as a whole, nevertheless, below we specify five points related to the revision:

Ad. 1. Of course, all of these paper listed in this point described the biogeobattery idea before Nielsen & Risgaard-Petersen (2012) did and we will add them into the reference.

Ad. 2. Risgaard-Petersen et al. (2014) showed that so called cable bacteria of family Desulfobulbaceae form a biogeobattery in marine sediments. Nevertheless, we did not mention about this paper as well as paper by Nielsen and Risgaard-Petersen (2012) in

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the introduction. There is a mention of nanowires and biofilm in context of biogeobatteries in page 17712 (lines 20–21), however, this is consistent with the biogeobattery mechanism described as a “network of microbial nanowires” by Nielsen and Risgaard-Petersen (2015; wrongly cited as 2014 in the manuscript, see page 17721, lines 30-32) who followed paper by Revil et al. (2010).

Ad. 3. Thank you for this suggestion – we are going to include this possibility in figure and add the suggested references.

Ad. 4. Right – it will be changed.

Ad. 5. Lovley – this was perhaps due to type processing auto correction. Thank you for this point, we corrected this mistake definitely.

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