

Biogeosciences Discuss., author comment AC1
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Reply on RC1

Jan Goleń et al.

Author comment on "Fluorescent double labelling of F-actin in Foraminifera: evaluation of granular pattern F-actin organisation in reticulopodia" by Jan Goleń et al., Biogeosciences Discuss., <https://doi.org/10.5194/bg-2021-76-AC1>, 2021

Response to the interactive comment by Jutta Wollenburg.

On behalf of all authors I we would like to thank Dr Jutta Wollenburg for her constructive comments. We are preparing a detailed response to all the comments to be submitted as soon as possible after the end of open discussion. At the moment I would like to refer to two most important and general issues raised by the referee.

The first issue is the number of the individuals presented in the paper. The images presented in the submitted manuscript are based only on two individuals. However, all replicated experiments have been done on much higher number of individuals. We agree that it is important to give a precise number of individuals presented in the paper and we will clarify it in the revised version of the manuscript. We chose those two individuals because the preservation of the granuloreticulopodial structures was the best. and We will do our best to provide as good as possible documentation with new figures added to the main text and/or to supplementary materials.

The second issue is the taxonomic attribution of the presented individuals. To identify the species or genera of individuals used in the study we consulted the published data on the species composition in the sea-water aquarium in Burgers' Zoo (Arnhem, the Netherlands) (Ernst et al., 2011). This paper presents SEM images of the individuals identified samples from this aquarium, individual no. 5 in fig. 4 most closely resembles the specimens used in or study. This individual was described by Ernst et al. (2011) as belonging to the genus *Quinqueloculina*, it lacks identification at the species level. Overall we observe similar diversity of miliolids in our sample as in Ernst et al. (2011). Following your comment and suggestion, we would like to admit that taxonomy is, in general, a truly important matter, therefore, we are working on extra documentation of the studied individuals under the SEM. We hope that such documentation should allow for accurate identification of the species.

All other comments will be addressed in our detailed response. We would like to submit the detailed response at the beginning of July within the 3 weeks' period from the end of the open discussion.

We are very grateful for the helpful and insightful comments.

Kind regards,

Jan Goleń