

## ***Interactive comment on “What do we know about how the terrestrial multicellular soil fauna reacts to microplastic?” by Frederick Büks et al.***

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Dear PD Dr. Werner Kratz. Thank you very much for your review. In the following I will try to answer your comments at my best. You will also find the corrections highlighted within our final response to the referees. Best regards, Frederick Büks

[1] Line 53: Is that only “microbial” decay? ->We agree, we will change this to "processing by soil organisms" as it is actually micro- as well as macroorganisms.

[2] Figure 1: The taxonomic group “further Panarthropods” is placed centrally, the other groups are not. ->Done.

[3] Table 7: The last three experiments within this table were conducted by feeding the mice with a MP suspension. You might write “(food)” behind the concentration data as

in the other tables. ->Thanks a lot. Done.

[4] Line 507: "Preferably" instead of "preferably". Done.

[5] Table 8: Could you explain the meaning of the numbers within the table. Are these the numbers of experiments with the named type-shape combinations? ->Yes. Please see the answer to referee #1 (Table 8 is now Table 1).

[6] Lines 549-507: Is that proved that carboxylation of microspheres decreases hydrophobicity in an appreciable extent? ->We ask the manufacturers of Polyciences Europe GmbH, a leading producer of PS microspheres, and they said no. We added this important information to the review.

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