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## Author comments and manuscript revision

Dear Editors

We would like to thank both anonymous referees as well as Erik T.-S. for the exceptionally positive evaluation of our study. We herein provide a detailed point-by-point response of how we have considered all comments and suggestions and how we changed the manuscript (*Ideas and perspectives: truffles not radioactive*) accordingly. Please note that we also corrected several other minor typos and improved the text for clarification. Additional references were included when necessary.

### Referee #1

We appreciate all of the constructive comments and suggestions. **C.1:** Although interesting, the assessment of mycelium biochemistry would exceed the scope of this short article. **C.2.1:** Other fungal species that were tested have undergone the same disintegration time and their mushrooms still reveal high levels of  $^{137}\text{Cs}$ . It is also unlikely that  $^{137}\text{Cs}$  disintegrate faster in truffles compared to other organisms. Furthermore, we can discard any effects of sample freezing on the  $^{137}\text{Cs}$  activity. **C.2.2:** Truffle fruitbodies were gently cleaned at their surface and immediately frozen after harvesting until their final analysis in the gamma-spectrometer. Hence, we do not expect any decrease in  $^{137}\text{Cs}$  activity. Nevertheless, will provide more details on how the individual truffle samples were prepared and processed. **C.2.3:** We agree with this statement and will therefore add critical discussion to the paper. **C.3:** Again, we share this perspective and we will therefore avoid extrapolation of our results, which will be further described with more caution. **C.4:** We will re-write this sentence towards clarification. Moreover, we will correct the reference, i.e. change Stobbe et al., 2014 to 2013.

### Referee #2

We are thankful for this praising and encouraging evaluation, and we expect that our paper will stimulate further interdisciplinary projects associated with the broad field of radioecology.

### Erik T-S

We are pleased that our work also appears beneficial for the community of applied truffle hunters and cultivators, and we suppose that the all clear will further boost their business.

We kindly ask you to consider our paper for final publication in *Biogeosciences* and look forward to hearing from you in due course.

On behalf of the authors;

Yours sincerely

A handwritten signature in black ink, appearing to be 'Ulf Büntgen'.

Ulf Büntgen