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Dr. Ludmila Chistoserdova

Academic Editor

PeerJ

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Dear Dr. Chistoserdova,

Thank you for your comment regarding our discussion of potential methylotrophic pathways in our manuscript “Freshwater carbon and nutrient cycles revealed through reconstructed population genomes.” The statement as written in lines 418-423 omits the large body of research on methylotrophs belonging to *Rhizobiales* and *Burkholderiales*. We have revised this portion of the manuscript to instead read:

“We also found predicted pathways for methanol degradation in MAGs classified as *Burkholderiales* and *Rhizobiales* in Trout Bog. Methylotrophy has been identified in members of *Rhizobiales,* such as *Methylobacterium* and *Methylocystaceae,* and in *Burkholderiales,* including *Methylibium* (Auman et al., 2000; Chistoserdova et al., 2003; Kane et al., 2007)*.* Our MAGs may represent populations related to these known methylotrophs.”

We have also acted on comments received from PeerJ staff, including removing Supplemental Data S5 due to large file size. Subsequent supplemental files have been renumbered in the uploaded version, and this dataset is still available via our GitHub repository.

Again, thank you for pointing this out and for the opportunity to revise our work for PeerJ. Please let us know if you have any further questions, comments, or concerns regarding this manuscript.

Sincerely,

Alexandra Linz