

## Reviewer Report

**Title: Inferring microbiota functions from taxonomic genes: a review**

**Version: Original Submission**    **Date: 11/2/2021**

**Reviewer name: Axel Könsnter, PhD**

### Reviewer Comments to Author:

The authors presented a review about inferring microbiota functions from taxonomic genes. In general, this topic is very important to gain more insights from amplicon based sequencing strategies to decipher the role of the microbiome. The manuscript is clearly written and the authors present nicely the state of current tools.

I have just a couple of minor comments that should be addressed.

I wonder whether the author can mention PICRUSt2 earlier in the manuscript as it is a great improvement compared to v1. I would suggest to add one sentence in the section about PICRUSt v1.

[L176] @Mlnter should be spelled correctly.

[L224] Picrust should be written PICRUst

[L421] The author write 'No tool...' but I guess it should be 'The tool...'

[L508] A space is missing ('...fungi - along with...')

## Methods

Are the methods appropriate to the aims of the study, are they well described, and are necessary controls included? Choose an item.

## Conclusions

Are the conclusions adequately supported by the data shown? Choose an item.

## Reporting Standards

Does the manuscript adhere to the journal's guidelines on [minimum standards of reporting?](#) Choose an item.

Choose an item.

## Statistics

Are you able to assess all statistics in the manuscript, including the appropriateness of statistical tests used? Choose an item.

## Quality of Written English

Please indicate the quality of language in the manuscript: Choose an item.

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