

## ***Interactive comment on “Progress on quantitative assessment methods of biological aerosols in the atmosphere” by L. Liang et al.***

**Anonymous Referee #1**

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The manuscript attempted to provide a review on the development and advancement of quantitative assessment of biological aerosols in the atmosphere. It has major drawbacks on the following aspects; 1. Authors submitting review papers are usually working/researching in the field so that their research experiences/publications form part of the skeleton in the review paper. The present paper, however, does not have any referenced papers published by any of the authors. This leads to inadequate understanding on the topic, pros and cons of different approaches and insightful discussion to further advance the research in the area.

2. Literature was not well covered. I wonder whether the authors had read another review type paper in AST (v45:11, 1337-1394) entitled 'Bioaerosol Science, Technology, and Engineering: Past, Present, and Future', which covered quite a large different as-

C441

pects in the bioaerosol field, much in-depth and insightful discussion than the present manuscript.

3. Literature update - the present manuscript seems not include some recent publications in the subtopics they discussed. E.g.s - endotoxins: Morgenstern et al AE 2005, 6931-6941; Traversi et al JEM 2010, 484-490, Nilsson et al AE 2011, 266-270, Cheng et al AE 2011 (doi:10.1016/j.atmosenv.2011.11.055 - ergosterol conversion factor: Cheng et al, 2008, Atmospheric Environment 42, 5526-5541

4. Though the manuscript present a nice summary accounting on the works done, it is however inadequate to provide some more in-depth discussions on the pros and cons of various approaches. It also did not provide a direction on how the research work can head to in this important area.

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C442