

## ***Interactive comment on “Protein aggregates nucleate ice: the example of apoferritin” by María Cascajo-Castresana et al.***

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The statement in the introduction (page 2, line 39) "In screening experiments, fungi and lichen failed to show IN activity above  $-25^{\circ}\text{C}$ , with the exception of *Fusarium acuminatum* and *Fusarium avenaceum* (Pouleur et al., 1992; Pummer et al., 2013)." is not supported by the literature since several studies found IN activity in other fungal species as well as lichen (e.g., Fröhlich-Nowoisky et al., 2015; Haga et al., 2013; 2014; Huffmann et al., 2013; Kieft 1988; Kieft and Ahmadjian, 1989; Kieft and Ruscetti, 1990; Moffet et al., 2015; Morris et al., 2013).

Moreover, the authors cite Fröhlich-Nowoisky et al., 2015 (page 3, line 1) to support their statement "Surveys of the IN ability of pollen showed that only few types were

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active, the most active ones stemming from birch and conifer trees, yet, only at temperatures below  $-9^{\circ}\text{C}$ ".

This should be corrected as Fröhlich-Nowoisky et al., 2015 performed a screening of soil fungi and found ice nucleation activity in the widespread soil fungus *Mortierella alpina*.

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