undoubtedly, this work is very relevant and interesting. It answers very fundamental questions, which mechanisms are involved in the implementation of the process of resurrection of xerophyte plants. namely, after bringing their practices to complete drying. thus, the results of the study reveal the mechanisms of extreme stress resistance and may provide a basis for using the data obtained in the implementation of drought resistance of agricultural crops.

In the article, the authors used transmission electron microscopy and original large-scale proteomics, including organellar and phosphorylating proteomics.,and combined these studies with previously published data on transcriptomics and metabolomics of the resurrected Haberlea rhodopensis plant. The results showed new data on the preservation of organelles and cells, post-transcriptional and post-translational regulation, photosynthesis, primary metabolism, autophagy and cell death in response to desiccation in H. rhodopensis.

I do not think that the discussion of previous results on antioxidant activity and the consideration of this material with the obtained proteomic analysis is considered a weak point. I think this research will expand our knowledge and answer a wide range of questions about the involvement of various molecular components and metabolic systems in the implementation of the process of preservation of cellular structures and metabolism (photosynthesis, for example).

I am not a great expert in English, but thanks to the translator, it was quite clear to me what follows from what. The text is written normally, quite understandable. The authors received answers to the questions posed. making corrections after reviewer 2 improved the perception of the text. The conclusions are consistent with the evidence. It should be noted that in our practice we have never done such a large-scale analysis and I do not have the possibility of sufficient experience, but I liked the idea and implementation very much. I support this work.

As for the literature, my colleague reviewer 2 understands it better, I fully trust him to support. please accept this manuscript for publication.