Response to the reviewer of the manuscript „Genetic diversity within and among populations of roseroot (*Rhodiola rosea*) based on SSR and ISSR markers”

The reviewer is highly acknowledged for the thorough reviewing work. The authors are also grateful for the encouragement. The valuable comments were followed and the content of the manuscript was improved according to them.

Based on the remarks of the reviewer the following changes were made to the manuscript:

1. The title is changed to “Genetic diversity within and among populations of roseroot (*Rhodiola rosea*) based on molecular markers”. The reviewer complained about not including the study of ITS sequences in the title, but with doing this the title would have been too long, to avoid it the title is changed to a more simple and general one.
2. Few sentence is incorporated in the Abstract about the ITS study.
3. Also few sentence is incorporated about the application of ITS sequences in the Introduction.
4. Aims of the study is written into third person.
5. The Material and methods section is improved with all missing and facts (plant material, SSR primers, ITS primers, sequencing).
6. Table 1 and 2 were changed as suggested. Some part of table 1 were moved to the discussion part.
7. Numbers are given with two decimals.
8. A gel photo is included about an ISSR marker.
9. Dendrograms are made to be uniform.
10. Specific ISSR bands are discussed.
11. Mantel test was performed and included.
12. ID of the aligned sequences is listed.
13. Alignment of the analysed ITS sequences is cleared.
14. While quoting of other’s results number of the used primers are given.
15. About the ITS sequence analysis: we do not know where *R. iremelica* ITS sequence differs (if eat all) from *R. rosea*, since no sequence information is available about *R. iremelica*. If the ITS sequence of the S-Uralian population showed any alteration compared to the other 3 population, the taxonomic difference would have been obvious. Since it showed no alterations the only thing we can say is that in those positions (visible on the alignment figure) where the other *Rhodiola* species show differences, the S-Uralian individuals don’t differ. Of course this leaves the question open. A reliable *R.iremelica* sample could help to get closer to the answer, but unfortunately we don’t have access to one.

On behalf of the authors,

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