We are thankful to the reviewers for a very thoughtful reading of our manuscript and performed extensive revision of the manuscript and English editing in accordance to the reviewer's suggestions.

Comments from Reviewer 1

1. Lines 42-43, specify here what these two telomerase components are.

Corrected

2. Line 47, "modification of protein components" is unclear. If you mean TERT, it should be "protein component", if you mean TERT and telomerase accessory proteins, modify the sentence.

Corrected

3. Line 90, it is confusing what is "other telomerase RNP components". In various contexts, the authors the authors use the same term "telomerase", denoting either a two-component enzyme (TERC and TERT) or telomerase holoenzyme, with its interactors. Please, unify the definitions of telomerase and telomerase holoenzyme along the text.

We have addressed this issue throughout the text. Now the definitions are uniform.
"Telomerase" is used in a broad sense as the enzyme elongating telomeres
"Telomerase complex"/"telomerase holoenzyme" are used as a fully assembled and catalytically active telomerase ribonucleoprotein complex
"Telomerase RNP" is used as immature telomerase ribonucleoprotein complexes lacking some auxiliary proteins compared to telomerase holoenzyme

4. The authors review telomerase biogenesis in yeast and vertebrates as it is declared in the abstract. It would be logical to compare and discuss the similarities and differences in the crucial stages of this process in so distant species.

We added subsection 4 to compare yeast and vertebrate telomerase biogenesis.

5. It should be "Figure 3" instead of "Figure 2" in lines 257 and 295.

Corrected

6. The section 3.3. is confusing and hard to read. The heading and the phrases in the lines 323-326, 328-329, 333-336 should be rephrased for clarity.

Corrected

7. Line 318, "This motif is used…". Do you mean that snoRNA and scaRNAs harbor this motif?

Yes, this sentence has been corrected

8. Line 340, "Two complete complexes…" The composition of these complexes should be specified.

Corrected

9. Lines 336-337, the composition of "first tetramer" and "second tetramer" should be specified.

Corrected

10. Line 378. "H/ACA proteins". Do you mean H/ACA RNPs or proteins that recognize H/ACA?

We meant dyskerin/NHP2/NOP10/GAR1. We corrected this ambiguous paragraph.

11. Rephrase the heading of 3.4 section. PTM modifications can be applied only to proteins.

Corrected

12. Lines 453-457. Rephrase this paragraph for clarity.

Corrected

13. Lines 466, 532, 763. "nuclei" is written here instead of "nucleoli"; double-check this throughout the text.

Corrected