

## Reviewer Report

**Title:** Benchmarking ultra-high molecular weight DNA preservation methods for long-read and long-range sequencing

**Version:** Original Submission    **Date:** 10/26/2021

**Reviewer name:** Elena Hilario

### Reviewer Comments to Author:

I am glad to have been selected as reviewer for the manuscript "Benchmarking ultra-high molecular weight DNA preservation methods for long-read and long-range sequencing" by Dahn and colleagues. The manuscript reports a detailed guide on the effect of preservation methods on the quality of the DNA extracted from a wide range of animal tissues. Although the work is only focused on vertebrates, it is a great foundation to conduct similar studies on plants, invertebrates and fungi, for example. Although the effectiveness of the tissue/preservative combination was only tested with the preparation of long range libraries, it would have been useful to select one or two cases for long range sequencing (PacBio or Oxford Nanopore) to explore the impact of the different QC parameters measured in this study. Minor comments and corrections are included in the file uploaded.

### Methods

Are the methods appropriate to the aims of the study, are they well described, and are necessary controls included? Choose an item.

### Conclusions

Are the conclusions adequately supported by the data shown? Choose an item.

### Reporting Standards

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Choose an item.

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Are you able to assess all statistics in the manuscript, including the appropriateness of statistical tests used? Choose an item.

### Quality of Written English

Please indicate the quality of language in the manuscript: Choose an item.

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