DNA FROM TISSUE SLIDES FOR MOLECULAR ANALYSIS

Reviewer's code: 03976790

SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled: "DNA extraction from archived H&E stained tissue slides for downstream molecular analysis" is about an interesting study concerning the extraction of genes in formaline preserved and hemaelum-eosin stained tissues from medical collections. This study is useful for the study of old pathological histological samples belonging to medical collections, in order to provide new elements about pathologies. This method can also be useful for the study of animal and vegetal samples stocked in museum collections. The study is well done, and I have only minor remarks to do. 1. In the title, it would be useful to specify "formaline-preserved tissues", because it exists a lot of tissue samples preserved in other fixatives such as alcohol,-formaline, Bouin's fluid, and Carnoy's fluid... 2. Centrifugations speeds must be given in g number, not rpm (rpm depends on the model of centrifuge); specify also the "maximum speed". 3. In "de-staining and ethanol regulation" (pages 6-7), specify the reference of mineral oil used, for it is the first time at which mineral oil appears in the text. 4. In the discussion, a sentence generalizing this kind of method to the tissues fixed with another fixative and stained with other dyes could open the field of investigations.

Thank you for your comments and valuable suggestions. We could not include "formalin preserved tissues" in the title because of the word limit but we have included the same in introduction and discussion. We have changed the centrifugation speeds from rpm to g and also specified the maximum speed as per your suggestions. Mineral oil reference has been given under other reagents used in the study. A general sentence stating the use of these methods for other tissues fixed with various fixatives is also included as per your suggestions.

Reviewer's code: 00504167

SPECIFIC COMMENTS TO AUTHORS

"DNA extraction from archived H&E stained tissue slides for downstream molecular analysis" by Pushkal *et al*. In this manuscript, the authors describe several protocols for the extraction of high quality DNA from FFPE tissues that could be used for downstream molecular analysis. The authors identified two protocols that perform best in terms of DNA yield and DNA quality. The protocols suggested in this work are particularly suitable in settings where the resources for buying standardized kits are limited.

Thank you for your comments and appreciation. We believe that our study would be beneficial and shall be incorporated in labs with limited resources around the globe.

Dear Editor,

We are hereby sending you the response letter for the article number-**50615 titled "DNA extraction from archived Hematoxylin and Eosin stained tissue slides for downstream molecular analysis".** We have incorporated all the suggestions given by the editorial office and following are the details of the same:

1. Book Antiqua font 12pt and 1.5 line spacing has been used throughout the manuscript.
2. Name of the journal, manuscript no. and manuscript type has been added.
3. Running title added.
4. Abbreviation expanded in the title.
5. Author affiliations and addresses have been rearranged and full postal code is included.
6. Institutional review board approval certificate uploaded.
7. Telephone and fax details of corresponding author added.
8. Audio core tip uploaded and all abbreviations are expanded.
9. All the author names abbreviations provided.
10. All the cited references are kept in superscript.
11. Centrifugation speeds have been changed from rpm to rcf as per reviewer's comments.
12. Article highlights under the sub-headings Research background, motivation, objectives, methods, results, conclusions and perspectives have been added.
13. The first pages of the articles without PMID or DOI have been provided as a single document "50615-References with PMID".
14. Figures are formatted as per the guidelines and a separate PPT file named as "50615-Image file" has been uploaded.
15. A non-native speaker of English editing certificate has been uploaded.

26/08/19

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