Author's response to reviews

Title: Identification of gene fusion transcripts by transcriptome sequencing in BRCA1-mutated breast cancers and cell lines

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Author's response to reviews: see over
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Attention: The BMC Series Editorial Production Team

RE: Editorial revisions for manuscript submission #2929062295802141

Dear Sir/Madam:

We are delighted that our manuscript “Identification of gene fusion transcripts by transcriptome sequencing in BRCA1-mutated breast cancers and cell lines” has been accepted in principle for publication in BMC Medical Genomics. We have addressed all of the formatting changes raised by the editorial team and have submitted a revised version of the manuscript along with this cover letter.

In particular, to respond to the formatting of the second affiliation in our manuscript, we wish to clarify that the full name of the institution is in fact “McGill University and Genome Quebec Innovation Centre” – it does not represent two institutions. Thus, no changes were made to the affiliation.

The remaining requested formatting changes have been addressed as follows:

- Author list: the middle initial of one of the authors was missing in the submission system. This has been corrected.
- Authors’ contributions: we have noted that all authors have read and approved the final manuscript.
- Tables 3: a citation to the table has been added in the text.
- Additional files: we have reordered the numerical order of the files to reflect the order in which they appear.
- Typography: we have reviewed the entire manuscript and made additional grammatical and typographical revisions to the text.

We have re-organized some of the text in the Discussion section. The final paragraph, which commented on the limitations of our study, has been revised and merged with the penultimate paragraph in the section. We also added a new statement discussing the difficulty in identifying lowly expressed gene fusions in our study. While these changes were made to improve clarity and provide further insight, they do not alter the final conclusions of this study. Lastly, we have made some minor aesthetic updates to the figures, also to improve clarity.

We thank you for taking the time to consider our manuscript. Please do not hesitate to contact us if there are any further questions or concerns.

Sincerely, on behalf of all the authors,

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