Reviewer’s report

Title: Comprehensive chromosomal aberrations in a case of a patient with TCF3-HLF-positive BCP-ALL

Version: 2 Date: 12 Mar 2020

Reviewer: James Blackburn

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The authors have actioned the latest comments, but have unfortunately jumbled the figure legend for Figure 4.

"Two breakpoints cluster in two TCF3 intronic regions are distinguished. On the transcript level, type I translocation results in joining TCF3 exon 16 to HLF exon 4. Moreover, intronic sequences, new splice sites and inserted non-template sequences are attached to the HLF gene (lightening purple line). Implications resulting from the insertion of certain sequences have not yet been studied. Type II translocation occur downstream of TCF3 exon 15. In this case, TCF3 exon 16 is not part of the fusion transcript. Boxes corresponds to exonic regions of the TCF3 gene (green colour) and the HLF gene (red colour). Lines corresponds to intronic regions of the TCF3 gene (green colour) and the HLF gene (red colour). Additional upstream and downstream exons of TCF3 and HLF gene are not graphically represented. Lightning bolds represents exons involved in TCF3-HLF fusion."

To correct the spelling errors and interpretation, this should read:

"Two breakpoints clustering in two TCF3 intronic regions are distinguished. At the transcript level, type I translocation results in joining TCF3 exon 16 to HLF exon 4. Moreover, intronic sequences, new splice sites and inserted non-template sequences are attached to the HLF gene (purple shadowed line). Implications resulting from the insertion of certain sequences have not yet been studied. Type II translocation occurs downstream of TCF3 exon 15. In this case, TCF3 exon 16 is not part of the fusion transcript. Boxes correspond to exonic regions of the TCF3 gene (green) and the HLF gene (red). Lines correspond to intronic regions of the TCF3 gene (green) and the HLF gene (red). Additional upstream and downstream exons of the TCF3 and HLF gene are not graphically represented (broken coloured lines). Lightning bolts represent intronic breakpoints."

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.
Yes

*Are the conclusions drawn adequately supported by the data shown?*
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Yes

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Not relevant to this manuscript

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