Author's response to reviews

Title: Noninvasive Fetal Trisomy (NIFTY) Test: An Advanced Noninvasive Prenatal Diagnosis Methodology for Fetal Autosomal and Sex Chromosomal Aneuploidies

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Author’s response to reviews:

Dear Editor,

Thanks for your kind suggestion the reviewers’ evaluation and comments on our manuscript “Noninvasive Fetal Trisomy (NIFTY) Test: An Advanced Noninvasive Prenatal Diagnosis Methodology for Fetal Autosomal and Sex cChromosomal Aneuploidies”.

We have revised the manuscript according to your kind advices and reviewers’ detailed suggestions. We have sent our manuscript to online Editing Services (BioScience Writers Scientific Editing and Proofreading) for grammar and expression editing. The order number is 13626.

Enclosed please find the responses to the reviewers. We sincerely hope this manuscript will be finally acceptable to be published on BMC medical genetics. Thank you very much for all your help and looking forward to hearing from you soon.

Yours Sincerely,

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Response to Reviewers:

There are still a number of grammatical errors. Examples are (but not limited to):

1. P5 para2 line11: ?gene dosage real-time PCR ?. (should be: ? quantitative real-time PCR)
   Thanks for your suggestion. We revised it as “quantitative real-time PCR”.

2. P7 kline 20:”mine” the hidden relationship??.
   Thanks to remind the mistake, we revised it as “observed”.

3. P8 line 5:.which "leaded" to???
   The characteristics of sequencing data enriched in high GC content regions leads to a low K-mer coverage in chromosome 13, which is with a relative low GC content in whole chromosome. We updated the statement to make it clear.

4. P9 line 8: detection power "increasing” with gestational week
   Thanks for your suggestion. We revised it as “the detection power improved with gestational week”.

5. P10 line 2: corresponding ?to? 0% of false negative rate?.
   Thanks for your suggestion. We revised it as “corresponding to 0% of false negative rate…”

6. P10 line 10: In another words??
Thanks for your suggestion. We revised it as “in other words”.

Additionally we note that ethical approval for the study was given by the institutional review board of BGI-Shenzhen, but the participants were recruited from the Shenzhen People’s Hospital, the Zhuhai Municipal Maternal and Child Healthcare Hospital and the Shenzhen Maternal and Child Care Center. Please can you add a confirmation that these institutions also approved the study.

Thanks for your suggestion. We have obtained from each sampling site. We have made the statement clear in the revised version.