Reviewer’s report

Title: Apical Periodontitis: preliminary assessment of microbiota by 16S rRNA high throughput amplicon target sequencing.

Version: 1 Date: 13 Jan 2018

Reviewer: Kiyonobu Honma

Reviewer's report:
I would like to give my comments to the revised manuscript as shown in below.

P4 L73,
Please add the reference.

P5 L88
"OPT" to "panoramic radiograms (OPTs)"

P6 L120 DNA analysis by pyrosequencing,
Please provide detail about PCR primers data.

P7 L128
"OTUs" to "The operational taxonomic unit(OTU) datas".

P10 L204-208
Please provide pathway analysis data.

Table 3,
I think, If the authors use separate tables for RCs and PGs that generated from Table 3, and sort
the data by OTUs value, then we can understand RCs contains more gram negative bacteria than PGs group. The results will endorse RCs group showed more LPS synthesis pathway than PGs at pathway analysis data.

Propionibacterium should be classified as "facultative anaerobe". Corynebacterium, Staphylococcus, Actinomyces, Capnocytophaga are too.

Fig 3 is still hard to read.
Can the authors make a table from the Fig.3 data?

**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?**
If not, please explain in your comments to the authors.
Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.
I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:
Acceptable

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