

Reviewers comments: Ko et al describe how *Bacteroides fragilis* enterotoxin upregulates heme oxygenase-1 in dendritic cells using Nrf2 signaling pathway. This study is not entirely new as such pathway has already been described in dendritic cells triggered by *H. pylori*, as such the novelty is limited as it represents an interesting confirmation that DC utilize this pathway also with another enterotoxin (BFT) at variance with intestinal epithelial cells that utilize NF-kB and MAPK pathways as described previously by the same authors. The work is well designed, well presented and results are convincing.

Response: Thank you for providing the reviews of our manuscript. We are especially grateful for the careful reading and detailed comments of the reviewers, whose contribution to the clarity and accuracy of the manuscript is considerable. We have been able to modify the manuscript exactly as suggested by Reviewers. We hope that we have addressed all points to your and reviewer's satisfaction. Thank you again for your efforts and consideration of our manuscript.

Question 1. Please provide the decomposable figure of all the figures, whose parts are all movable and editable, organize them into a PowerPoint file, and submit as "Manuscript No. - image files.ppt" on the system. Make sure that the layers in the PPT file are fully editable. For figures, use distinct colors with comparable visibility and consider colorblind individuals by avoiding the use of red and green for contrast.

Response: We upload the PPT file (Manuscript No. 52287-image files.ppt). We hope that this file would satisfy your requests.

Question 2. Please rearrange all the authors' affiliations with Department, University or Institute, City, Postcode, Country, etc. (without any symbol or figure like * or 1, postcode must be there) Such as: full name, address

Response: We rearranged all the authors' affiliations, as the below.

Su Hyuk Ko¹, Jong Ik Jeon¹, Hyun Ae Woo², Jung Mogg Kim¹

Su Hyuk Ko¹, Jong Ik Jeon¹, Jung Mogg Kim¹, Department of Microbiology and Department of Biomedical Science, Hanyang University College of Medicine and Graduate School of Biomedical Science and Engineering, Seoul 04763, South Korea

Hyun Ae Woo², Graduate School of Pharmaceutical Sciences, Ewha Womans University, Seoul 03760, South Korea

Question 3. You need to provide the grant application form(s) or certificate of funding agency for every grant, or we will delete the part of "Supported by...".

Response: We upload the grant application form into the system. However, the language in the document is Korean.

Question 4. Abbreviations and acronyms are often defined the first time they are used within the main text and then used throughout the remainder of the manuscript. Please consider adhering to this convention.

Response: We wrote the manuscript according to the regulations.

Question 5. Please don't include abbreviations in the title of the figure/table.

Please don't include any *, #, ...in your manuscript; Please use superscript numbers for illustration; and for statistical significance, please use superscript letters.

Please create another file for all the supplementary figures and tables and name the file as "xxxxx-Supplementary material.pdf"

Response: We revised the figure legends in the revised manuscript according to the regulations.

We would really appreciate your helpful comments, and hope that we have replied all points to your satisfaction.