Author's response to reviews

Title: Transglucosidase improves the gut microbiota profile of type 2 diabetes mellitus patients

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Author's response to reviews: see over
To
Editors
BM C Gastroenterology

Subject: Submission of manuscript entitled “Transglucosidase improves the gut microbiota profile of type 2 diabetes mellitus patients”

Dear Sir/Madam:

I would like to submit the enclosed manuscript entitled “Transglucosidase improves the gut microbiota profile of type 2 diabetes mellitus patients” for possible publication in the BM C Gastroenterology.

This study was conducted by randomized, double blinded, placebo-controlled trial. Transglucosidase or placebo was administered for 12 weeks to investigate the efficacy of transglucosidase in modulating blood glucose levels and body weight gain in patients with type 2 diabetes mellitus and clarify the underlying mechanism by analyzing the gut microbiota of type 2 diabetes mellitus. After 12 weeks of transglucosidase therapy, the ratio of the Bacteroides population to that of Firmicutes in the transglucosidase groups significantly increased and was significantly higher compared with that in the placebo group. Therefore, the mechanism underlying the decrease in the blood glucose levels and inhibition of body weight gain in the type 2 diabetes mellitus patients may be the modulation of gut microbiota induced by transglucosidase administration.

We believe that the findings reported in this study are relevant to the scope of your journal and will be of interest to its readership.

This paper is not being considered for publication in any other journal. Further, it has not been published elsewhere in part or in entirety. All the authors of the manuscript have read the paper, attest the validity of its contents, and agree to its submission in the BM C Gastroenterology. None of the authors have any competing interests.

We hope to hear from you soon.

Thanking you in anticipation,

Sincerely,
Makoto Sasaki

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