

# Certificate of Biostatistics

15 September 2017

To whom it may concern

Title of study: Rifaximin ameliorates hepatic encephalopathy and endotoxemia without affecting the gut microbiome diversity

Chief investigator: Kosuke Kaji

Third Department of Internal Medicine, Nara Medical  
University, Kashihara, Japan

This letter is to confirm that I have read the ethics application prepared for this study, and that in my opinion the statistical methods and techniques mentioned are appropriate for the research.

Please contact me if you have any queries.

Sincerely,



Ryuichi Noguchi, M.D., Ph.D. Center for Digestive and Liver Diseases, Heisei  
Memorial Hospital, Kashihara, Japan

E-mail: [rnoguchi@naramed-u.ac.jp](mailto:rnoguchi@naramed-u.ac.jp)

TEL: +81-744-29-3300