

Dear Editor

I have joined from the revision stage as a statistical analysis advisor in the manuscript submitted to “World Journal of Gastroenterology”, entitled “Syngeneic implantation of mouse hepatic progenitor cell–derived three-dimensional liver tissue with dense collagen fibrils”.

I publish the following paper on statistical analysis (1) and paper containing the results of statistical analysis (2).

- 1) M. Kawase et. al., “Note in statistical treatment of medical and pharmaceutical data”, *J. Biosci. Bioeng.*, 100, 116-118 (2005).
- 2) K.Takahashi et. al., “Quality and safety issues related to traditional animal medicine: role of taurine”, *J. Biomed. Sci.*, 17(S1), S44 (2010).

Similar points to those pointed out in the paper (1) are made in Nature, Vol.567, 21 March (2019).

I also give a lot of explanations about statistics in Japanese, so I think I was selected as a statistical advisor.

https://www.sbj.or.jp/sbj/sbj_tokei_kaiseki.html

https://www.sbj.or.jp/sbj/sbj_tokei_kaiseki-2.html

I examined the validity of the statistical analysis method used, and advised the following in the revision:

- 1) The used statistical analysis method should be shown in the legends in Figs. 2 and 3.
- 2) Statistical software used should be shown in the methods and materials section.
- 3) In recent years, it has been recommended to use Welch's t-test instead of Student's t-test. The results by using Welch's t-test should also be shown in manuscript.

I have confirmed that the above points have been corrected in the revised draft.

Sincerely yours,



Masaya Kawase