Reviewer’s report

Title: Chinese herb mix TG-Decoction up-regulates expression of oestrogen receptors ER alpha and beta in ovariectomized rats

Version: 1 Date: 18 August 2011

Reviewer: Takamitsu Tsukahara

Reviewer’s report:

The authors suggested TG-Decoction was up-regulated the estrogen receptor expressions in ovariectomized rats. This material was seemed very interesting for prevent the menopause. However, this manuscript seems incomplete particularly in a discussion section.

Major compulsory Revisions

Introduction
You should explain Why the ERa and ERb expressions were measured in this article. According to your title, this is the most important point in this manuscript.

Discussion
1. Adams et al. (J. Neurosci. 2002. 22: 3608-14) and many other investigators were suggested that estrogen exposure was down-regulated the ER-a expression in in vitro and in vivo experiments. However, your result was not as same tendency, therefore you must explain this contradiction.

2. “The major finding…..body balances.” These sentences were unclear. Why did the up-regulation of ERa and ERb introduce “regulate body balances”? Please explain.

3. “The mild estrogen-…..quercetin.” Please mention the relative composition of these estrogenic compounds in TG-decoction.

4. Please mention the health effect of up-regulation of ERa and ERb in this manuscript.

5. Discussion part is too short.

Minor Essential Revisions
1. Please mention the complete word before the first abbreviation word.
2. Please mention the breeding type of rat and production field.
3. Please mention the city and country in the research laboratory, reagents, and instruments.

Level of interest: An article of limited interest
Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.