Reviewer's report

Title: Butein inhibit metastatic behavior in mouse melanoma cells through VEGF expression and translation-dependent signaling pathway regulation

Version: 2 Date: 6 October 2015

Reviewer: Junsei Taira

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Comment to authors:

# Authors demonstrated that butein inhibited invasion and metastasis of melanoma cell B16F10 mediated MAPK Akt/mTOR signaling with reduction of VEGF, resulted in reduced lung metastasis foci, in vivo. In this study, it seems to be extremely important result from Figure 4, indicating butein suppressed on PI3K/Akt/mTOR, ERK and FAK pathway. Unfortunately, figure (missing the expression of concentration) of western blot are indistinctness, provably, many readers of this journal cannot believe that of bare figure. Thus, authors should indicate more clear result with dose-dependent concentration.

# Figure 2 and 3: Should add scale bar.

# Explanation of figure 6B is lacking through the text.

# In Figure 3: Is individual scratched area same? Please confirm the area in the group (A-F) again. Also, how did count the wounded closure count in (G)?

Minor comments: Should check below and also carefully spell check through the text including English grammar.

# Page 8, lines 18: 5x104 cell/ well # 5x104 cells/ well

# Page 11, lines 6: Butein (1, 3, 10 mg/kg) # Butein (1, 3, 10 mg/kg)

# Page 17, lines 2: Previously study shown # Previous studies showed

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests.