Reviewer's report

Title: Suppression of eukaryotic initiation factor 4E prevents chemotherapy-induced alopecia

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Reviewer: Hsin-Sheng Yang

Reviewer's report:

The manuscript entitled “Suppression of eukaryotic initiation factor 4E prevents chemotherapy-induced alopecia” by Nasr et al is well written and clear. The data are convincing and supporting the conclusion that suppression of translation initiation prevents CyP-induced hair loss. I have following concerns that authors may need to address.

1. The authors showed that knockdown of eIF4E decreases CyP-induced apoptosis in mice. Authors also showed that knockdown of eIF4E decreases cyclin D1 expression, which suggest that decrease in eIF4E expression may cause growth arrest in cells. A discussion may be required to address the relationship between cell growth arrest in anagen and protection of CyP induced apoptosis.

2. A discussion is also required to address whether decrease in eIF4E expression or inhibition of translation initiation interferes the efficiency of chemotherapeutic reagents since knockdown of eIF4E decreases apoptosis.

3. What are the potential targets of eIF4E knockdown, which lower CyP-induced apoptosis?

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

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

Declaration of competing interests:

'I declare that I have no competing interests'