Reviewer’s report

Title: Cucurbitacin B inhibits human breast cancer cell proliferation through disruption of microtubule polymerization and nucleophosmin/B23 translocation

Version: 2 Date: 1 July 2012

Reviewer: Slimane AIT-SI-ALI

Reviewer’s report:

The proofreading of the paper untitled “Cucurbitacin B inhibits human breast cell proliferation through disruption of microtubule polymerization and nucleophosmin/B23 translocation” has been addressed with a great interest. Authors have taken into account almost all remarks and pieces of advice suggested in the last lecture of the paper. These supplemental information have improved the quality of the message addressed in the paper. However, authors are strongly encouraged to improve the quality of the writing English. Some of the mistakes found are presented and below the correction that we propose. Authors are encouraged to read the paper and correct all such mistakes.

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Our findings suggest that cucurbitacin B may inhibit the proliferation of human breast cancer cells through disruption of the microtubule network and downregulation of c-Myc and nucleophosmin/B23 as well as alters trafficking of nucleophosmin/B23 from the nucleolus to nucleoplasm, resulting in G2/M arrest

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Microtubule, a component of the cytoskeleton, is a dynamic heterodimer of α-tubulin and β-tubulin subunit.

Cells in exponential growth were used.

Briefly, the fruits of C. cucumerina, after ripening and becoming naturally dry, were collected from Nakhon Sawan province, Thailand.

The polymerization of tubulin was measured at each consecutive minute during a period of 30 minutes at 37°C.

Protein extracts were separated according to their isoelectric point (pI) followed by their molecular weight.

Goat anti-rabbit IgG and goat anti-mouse IgG (BD Transduction Laboratories, San Diego, CA) were used as secondary antibodies against all primary antibodies.

The cover slip was mounted with 50% glycerol in PBS.

Level of interest: An article of importance in its field.

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

**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.