CORRECTION



Correction: Anti-tumor effect of polysaccharide from *Pleurotus ostreatus* on H22 mouse Hepatoma ascites in-vivo and hepatocellular carcinoma in-vitro model

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Following publication of the original article (Khinsar et al. 2021), the authors regret for the errors occurred in the figures and funding section. The images of Figs. 3, 4 and 5 have been corrected with this correction and updated Funding information.

The original article can be found online at https://doi.org/10.1186/s13568-021-01314-5.

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Figure 3A: FoxP3 (c) is similar to FoxP3 (b):

The following figure shows the IHC images of FoxP3 gene, the (c) part picture is replaced with the correct original one, but it does not make any difference to the statistical analysis, or any other picture associated with the results.

Figure 4B: HepG2 400 $\mu g/ml$ is similar HepG2 300 $\mu g/ml$:

The following figure shows the colony formation assay for HepG2 cells, the 400 μ g/ml picture is replaced with the correct original one, but it does not make any difference to the statistical analysis, or any other picture associated with the results.

Figure 5A: HepG2 500 $\mu g/ml$ 0 h is similar to HepG2 400 $\mu g/ml$:

The following figure shows the wound healing assay for HepG2 cells, the 500 μ g/ml, 0-h picture is replaced with the correct original one, but it does not make any difference to the statistical analysis, or any other picture associated with the results.



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Fig. 3 Immunomodulatory effects of polysaccharide on H22 malignant ascites mice model A Immunohistochemistry was performed of liver sample tissues to observed Foxp3 and Stat3 expression in mice model and observed a significant decrease in gene expression in a dose-dependent manner. Images were captured at the 40 × lens. B Cytokines level was checked by performing Elisa such as IL-2, TNFa, and INF γ was observed to have a significant increase in serum in a dose-dependent manner. C Western blot analysis was performed to observe protein expression of Foxp3 and Stat3 and results show a significant dose-dependent decrease in expression. *p < 0.05, **p < 0.01, ***p ≤ 0.001. *PPO (Polysaccharide from *Pleurotus ostreatus*), *CTX (Cyclophosphamide)







Fig. 5 Polysaccharide affects anti-metastatic abilities of cancer cells **A** Wound closure assay was performed and observe the significant difference between Control and polysaccharide treated cells after comparing relative gap distance in HepG2 and HCCLM3. **B** To observe the anti-migratory abilities of polysaccharide in HepG2 and HCCLM3, transwell chambers assay was performed and the difference was observed in decrease number of migrated cells in a dose-dependent manner **C** Transwell chamber was used for invasion assay and the results suggest that there is a significant difference as compared to control group and observed a decrease in the invaded number of cells in a dose-dependent manner. *p < 0.05, **p < 0.01, ***p < 0.001. *PPO (Polysaccharide from *Pleurotus ostreatus*), *CTX (Cyclophosphamide)

Figure 5A: HCCLM3 400 μ g/ml 24 h is similar to 400 μ g/ml 48 h:

The following figure shows the wound healing assay for HCCLM3 cells, the 400 μ g/ml, 24-h picture is replaced with the correct original one, but it does not make any difference to the statistical analysis, or any other picture associated with the results.

Figure 5C: HCCLM3 500 $\mu g/ml$ is similar to 400 $\mu g/ml$:

The following figure shows the invasion assay for HCCLM3 cells, the 500 μ g/ml, picture is replaced with the correct original one, but it does not make any difference to the statistical analysis, or any other picture associated with the results.

Under Funding paragraph, the authors want to remove the grant numbers (81301995; 81472836) and replaced it with Chinese Government Scholarship (CSC no. 2015GXZ482). The correct Funding should appear as:

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