

## Erratum: Clinical role and biological function of CDK5 in hepatocellular carcinoma: A study based on immunohistochemistry, RNA-seq and *in vitro* investigation

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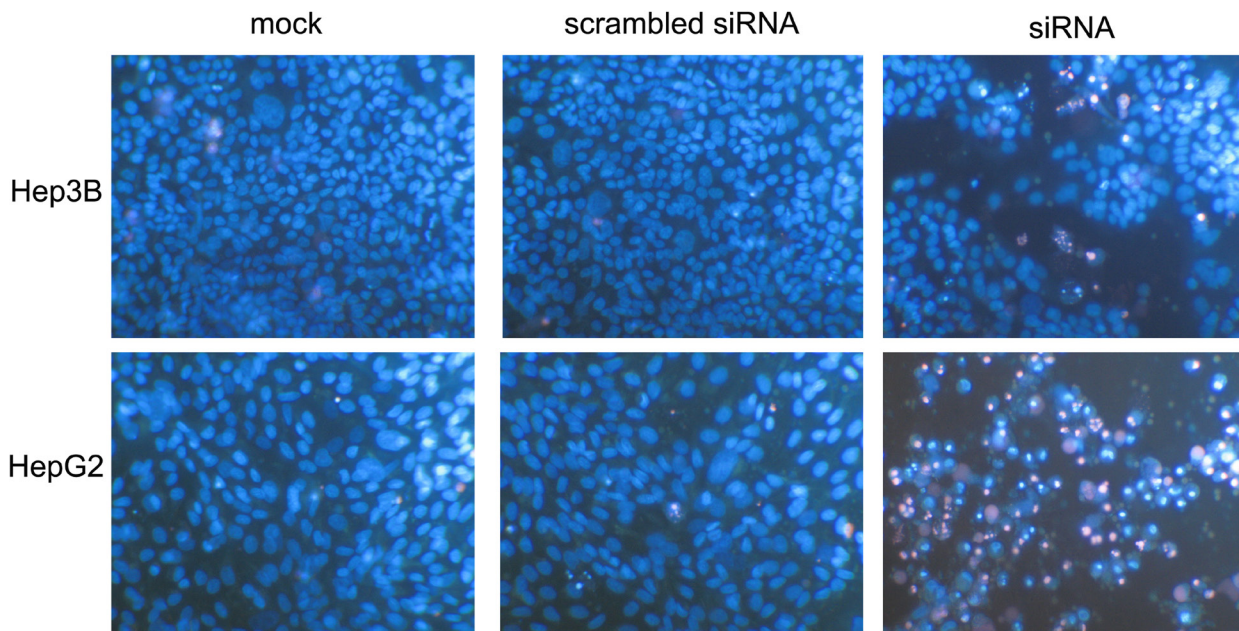
In the original paper by Rui Zhang, et al., entitled “Clinical role and biological function of CDK5 in hepatocellular carcinoma: A study based on immunohistochemistry, RNA-seq and *in vitro* investigation”, there are several errors in the texts as well as Figure 15.

Line 10 of the **ABSTRACT** section, page 108333: “in the HCC cell lines HepG2 and **HepB3**” should be corrected into “in the HCC cell lines HepG2 and **Hep3B**”. Legends of Figure 8, page 108344, the comma in “When SMD > 0 and its 95% CI do not cross, 0 indicates increased CDK5 expression in HCC compared with noncancerous samples” should be deleted: “When SMD > 0 and its 95% CI do not cross 0 indicates increased CDK5 expression in HCC compared with noncancerous samples”. Section of the **RESULTS**, left side of page 108345, ① line 2 of **Bioinformatic analysis suggests that CDK5 is associated with the proliferative signaling pathway**, “**differently** expressed genes” should be corrected into “**differentially** expressed genes”. ② Right side of page 108345, line 12 of **CDK5-siRNA inhibited cell growth and induced apoptosis *in vitro***, “Figure 13**B**, Figure 14**C**” should be corrected into “Figure 13**B-C**, Figure 14**B-C**”. ③ Right side of page 108345, line 2, 8, 14, 16 and 26 of **CDK5-siRNA inhibited cell growth and induced apoptosis *in vitro***, please change “**HepB3**” into “**Hep3B**”. Title of Figure 13, page 108348, “Effects of CDK5-specific-siRNA on cell growth and apoptosis in HCC **HepB3** cells” should be corrected into “Effects of CDK5-specific-siRNA on cell growth and apoptosis in HCC **Hep3B** cells”. Right side of page 108350, line 3 of the **DISCUSSION** section: “indicating that CDK5 **down-regulation** induces the low apoptosis rates” should be corrected into “indicating that CDK5 **up-regulation** induces the low apoptosis rates”. Legends of Figure 15, page 108350, “**HepB3**” should be corrected into “**Hep3B**”. Section of the **MATERIALS AND METHODS**, left side of page 108351, line 15 of **Immunohistochemical technique**, “**permitting the use the samples**” should be corrected into “**permitting the use of the samples**”. Section of the **MATERIALS AND METHODS**, left side of page 108352, ① line 1 of **Experiment *in vitro***, ② line 4 of **Viability**, ③ and line 5 of **Evaluation of cell apoptosis and morphology using fluorescence microscopy**, please change “**HepB3**” into “**Hep3B**”. Figure 15 on page 108350 contained incorrect images. We have prepared the corrected version of Figure 15. This error does not change the scientific conclusions of the study.

The authors confirm that all of the published results and conclusions of the paper remain unchanged, as well as the figure legends. The authors apologize for any confusion caused.

The corrected sentences and figure are shown as follows, together with the page numbers.

1. Line 10 of the ABSTRACT section, page 108333: “in the HCC cell lines HepG2 and Hep3B”.
2. Legends of Figure 8, page 108344: “When SMD > 0 and its 95% CI do not cross 0 indicates increased CDK5 expression in HCC compared with noncancerous samples”.
3. Section of the RESULTS, left side of page 108345, ① line 2 of **Bioinformatic analysis suggests that CDK5 is associated with the proliferative signaling pathway:** “differentially expressed genes”. ② Right side of page 108345, line 12 of **CDK5-siRNA inhibited cell growth and induced apoptosis *in vitro*:** “Figure 13B-C, Figure 14B-C”. ③ Right side of page 108345, line 2, 8, 14, 16 and 26 of **CDK5-siRNA inhibited cell growth and induced apoptosis *in vitro*:** “Hep3B”.
4. Title of Figure 13, page 108348: “Effects of CDK5-specific-siRNA on cell growth and apoptosis in HCC Hep3B cells”.
5. Right side of page 108350, line 3 of the DISCUSSION section: “indicating that CDK5 up-regulation induces the low apoptosis rates”.
6. Legends of Figure 15, page 108350: “Hep3B and HepG2 cell lines were treated with CDK5-specific-siRNA”.
7. Section of the MATERIALS AND METHODS, left side of page 108351: “permitting the use of the samples”.
8. Section of the MATERIALS AND METHODS, left side of page 108352, ① line 1 of **Experiment *in vitro*,** ② line 4 of **Viability,** ③ and line 5 of **Evaluation of cell apoptosis and morphology using fluorescence microscopy:** “Hep3B”.
9. On page 108350, the correct Figure 15 should be:



**Figure 15: Effects of CDK5-specific-siRNA detected by Hoechst33342 and PI double fluorescent staining.** Hep3B and HepG2 cell lines were treated with CDK5-specific-siRNA. Live cells and apoptotic cells were detected with Hoechst33342 and PI double fluorescent staining on the 10th day.