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***Helicobacter pylori* promotes invasion and metastasis of gastric cancer by enhancing heparanase expression**

Liu LP *et al*. HPA in *H. pylori* positive GC

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**Author contributions:** Liu LP and Li YM designed the experiments; Sheng XP and Li B contributed to the statistical analyses; Zhao YX performed the experiments; Liu LP prepared the manuscript; Shuai TK and Li B conducted data collection.

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**Abstract**

Correction to "Liu LP, Sheng XP, Shuai TK, Zhao YX, Li B, Li YM. *Helicobacter pylori* promotes invasion and metastasis of gastric cancer by enhancing heparanase expression. *World J Gastroenterol* 2018; 24: 4565-4577 [PMID: 30386106 DOI: 10.3748/wjg.v24.i40.4565]." In this article, we have identified some of the images in Figure 2A, C, E, G, and I are identical to the images in Figures 1B, 2A, 3B, 3E, and 3G of another paper entitled "Liu L, Zhao Y, Fan G, Shuai T, Li B, Li Y. Helicobacter pylori infection enhances heparanase leading to cell proliferation via mitogen‑activated protein kinase signalling in human gastric cancer cells.", which was published by us in the *Molecular Medicine Reports* in December, 2018 [PMID: 30320396 DOI: 10.3892/mmr.2018.9558]. The reason why we asked to replace the pictures was that when we were simultaneously preparing to submit our two different articles to the *World Journal of Gastroenterology* (*WJG*) and *Molecular Medicine reports*, we uploaded the wrong pictures to the *WJG*, which were same as those submitted to the *Molecular Medicine Reports*. We apologize for this negligence and any inconvenience that this may cause. We would be grateful if you could replace the wrong pictures with the correct ones attached.

**Key Words:** Correction; Replace the wrong pictures; Gastric cancer; *Helicobacter pylori*

Liu LP, Sheng XP, Shuai TK, Zhao YX, Li B, Li YM. *Helicobacter pylori* promotes invasion and metastasis of gastric cancer by enhancing heparanase expression. *World J Gastroenterol* 2021; In press

**Core Tip:** This manuscript is to correct the images in Figure 2A, C, E, G, and I of "Liu LP, Sheng XP, Shuai TK, Zhao YX, Li B, Li YM. *Helicobacter pylori* promotes invasion and metastasis of gastric cancer by enhancing heparanase expression. *World J Gastroenterol* 2018; 24: 4565-4577 [PMID: 30386106 DOI: 10.3748/wjg.v24.i40.4565]."

**TO THE EDITOR**

***Correction***

Correction to: Figure 2A, C, E, G and I. Liu LP, Sheng XP, Shuai TK, Zhao YX, Li B, Li YM. *Helicobacter pylori* promotes invasion and metastasis of gastric cancer by enhancing heparanase expression. *World J Gastroenterol* 2018; 24: 4565-4577 [PMID: 30386106 DOI: 10.3748/wjg.v24.i40.4565].

In this article[1], we have identified some of the images in Figure 2A, C, E, G, and I are identical to the images in Figures 1B, 2A, 3B, 3E, and 3G of another paper entitled "Liu L, Zhao Y, Fan G, Shuai T, Li B, Li Y. *Helicobacter pylori* infection enhances heparanase leading to cell proliferation via mitogen‑activated protein kinase signalling in human gastric cancer cells"[2], which was published by us in the *Molecular Medicine Reports* in December, 2018.

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We apologize for this negligence and any inconvenience that this may cause.

We would be grateful if you could replace the wrong pictures with the correct ones attached (Figure 1).

**ACKNOWLEDGEMENTS**

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**REFERENCES**

1 **Liu LP**, Sheng XP, Shuai TK, Zhao YX, Li B, Li YM. *Helicobacter pylori* promotes invasion and metastasis of gastric cancer by enhancing heparanase expression. *World J Gastroenterol* 2018; **24**: 4565-4577 [PMID: 30386106 DOI: 10.3748/wjg.v24.i40.4565]

2 **Liu L**, Zhao Y, Fan G, Shuai T, Li B, Li Y. Helicobacter pylori infection enhances heparanase leading to cell proliferation via mitogen‑activated protein kinase signalling in human gastric cancer cells. *Mol Med Rep* 2018; **18**: 5733-5741 [PMID: 30320396 DOI: 10.3892/mmr.2018.9558]

**Footnotes**

**Conflict-of-interest statement:** The authors declare that they have no competing interests to disclose.

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**Figure Legends**

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**Figure 1 Heparanase protein expression following Helicobacter pylori infection in MKN-45 gastric cancer cells via the mitogen-activated protein kinase signaling pathway.** A: Heparanase (HPA) expression was determined by Western blot at 0, 6, 12, 24, and 48 h after Helicobacter pylori (H. pylori) infection; B: Quantitative Western blot results of HPA; C: p-p38 mitogen-activated protein kinase (MAPK) expression was determined by Western blot at 0, 30, 60, 120, and 480 min after H. pylori infection; D: Quantitative Western blot results of p-p38MAPK; E: HPA expression when the MAPK inhibitor SB203580 was given to MKN-45 cells before H. pylori infection; F: Quantitative Western blot results of HPA when the MAPK inhibitor SB203580 was given. bP < 0.01 compared with the value at 0 h; G and H: Cell invasion rates in the three groups detected using a Transwell invasion assay; I and J: Migration rates in the three groups detected using a scratch migration assay. aP < 0.05, bP < 0.01. HPA: Heparanase; MAPK: Mitogen-activated protein kinase; H. pylori: Helicobacter pylori. Figure 2 in the original manuscript: Liu LP, Sheng XP, Shuai TK, Zhao YX, Li B, Li YM. *Helicobacter pylori* promotes invasion and metastasis of gastric cancer by enhancing heparanase expression. *World J Gastroenterol* 2018; 24: 4565-4577 [PMID: 30386106 DOI: 10.3748/wjg.v24.i40.4565].