

# ESPS Peer-review Report

**Name of Journal:** World Journal of Gastroenterology

**ESPS Manuscript NO:** 11837

**Title:** TWIST1 correlates with poor differentiation and progression in gastric adenocarcinoma via elevating FGFR2 expression

**Reviewer code:** 01213174

**Science editor:** Yuan Qi

**Date sent for review:** 2014-06-07 17:33

**Date reviewed:** 2014-06-13 10:48

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input checked="" type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> No records	<input checked="" type="checkbox"/> Major revision

## COMMENTS TO AUTHORS

**GENERAL** This is an in vitro study that explored the roles of TWIST1 and FGF-receptor 2 (FGFR2) in gastric cancer progression. The authors authentically conducted the required experiments and revealed that the expression of the two molecules is associated with pathological differentiation and the invasive ability of gastric cancer cells. The findings are expected to contribute to the development of molecularly targeted therapy for gastric cancer. This reviewer thinks the manuscript is potentially worth publishing in World Journal Gastroenterology after major revisions are made. **SPECIFIC**

1. To investigate the relationship between TWIST1 and FGFR2 expression, the authors divided gastric adenocarcinoma samples into low- and high-expression groups based on TWIST1 mRNA expression levels. Thereafter, they compared FGFR2 mRNA levels between the two groups (Fig. 3A). This is scientifically incorrect. As the authors have quantitative data of each sample, they should determine the relationship by linear regression analysis using Pearson's test. 2. Many abbreviations are used in the present manuscript: RT-PCR, BSA, SDS-PAGE, PVDF, ECL, MTT, and DMSO. They should be spelled out as specified in the Instructions for Authors of the journal. 3. The manuscript requires linguistic revision by a native English speaker.

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**Name of Journal:** World Journal of Gastroenterology

**ESPS Manuscript NO:** 11837

**Title:** TWIST1 correlates with poor differentiation and progression in gastric adenocarcinoma via elevating FGFR2 expression

**Reviewer code:** 01135743

**Science editor:** Yuan Qi

**Date sent for review:** 2014-06-07 17:33

**Date reviewed:** 2014-06-16 21:21

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

**COMMENTS TO AUTHORS**

1) In the abstract, BACKGROUNDS should be put before AIM. 2) RT-PCR should be qPCR. 3) The part of "Introduction" is too long, and especially the first paragraph is not closely related to the main idea of this manuscript. 4) In the Results, "Figure 1A and B showed Twist1 expression in well/middle and poorly differentiated gastric adenocarcinomas, whereas Figure 1 C and D represented FGFR2 expression in well/middle and poorly differentiated gastric adenocarcinoma, respectively." is redundant, because they had been presented in figure legends. 5) In the Results, "MKN-7 and MKN-28 were well differentiated adenocarcinoma cells; SGC-7901 was middle differentiated adenocarcinoma, and SNU-1 and SNU-16 were poorly differentiated gastric adenocarcinomas." is also redundant, because they had been described before. 6) In Figure 3, the authors should labeled B with SUN-1, and C with MKN28. Due to different cells, D should be clearly labeled or be presented separately. 7) "In gastric cancer, Twist1 had been identified to involve in gastric cancer cell lines." is puzzling, the authors should state clearly. 8) In Figure 4A, the difference between "Twist1 + siFGFR2" and "control" should be presented. 9) In Figure 4 legend, the authors indicated "MKN28 cells", however, they presented as SUN-1. The authors should explain it. 10) In Figure 4G, FGFR2 expression did not change accordingly when Twist1 expression was up-regulated, which did not related with foregoing results. In addition, the group "Twist1 + scrambled RNA" should be performed. 11) The part of "Discussion" should be further strengthened to be more appropriate and concise.