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Wan Chai, Hong Kong, China

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 7388

Title: Cortactin expression confers a more malignant phenotype to SGC-7901 cells

Reviewer code: 00051382

Science editor: Gou, Su-Xin

Date sent for review: 2013-11-17 08:17

Date reviewed: 2013-12-23 20:37

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input 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 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)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

Cortactin is an actin-related protein 2/3 (Arp2/3) complex-activating and filamentous (F)-actin-binding protein that is implicated in tumor cell motility and metastasis. This study, the effects of cortactin on gastric cancer progression were investigated. The results showed that cortactin expression promoted SGC-7901 cell migration, invasion and proliferation both in vitro and in vivo.

1. Only one gastric cell line was used. Why SGC7901 was selected?
2. Chi-square or Fish test may be better for the statistical analysis of the in vivo metastases.
3. You should provide references for some concepts, such as, proliferation index and tumor volumes.
4. The first author style of Ref.19 is incorrect.
5. To exclude the impact of the virus, the untreated SGC7901 may also be used as a control.
6. In Fig.2A, since LV5-cortactin-SGC is not a control for LV3, two different Y axes may be used, or separate it into two figures.
7. The actual p value had better provide.



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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 7388

Title: Cortactin expression confers a more malignant phenotype to SGC-7901 cells

Reviewer code: 02258108

Science editor: Gou, Su-Xin

Date sent for review: 2013-11-17 08:17

Date reviewed: 2013-12-24 15:35

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 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)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Minor revision
		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

In this study, the authors give some evidences that cortactin expression promotes the migration, invasion and proliferation of SGC-7901 cells both in vivo and in vitro. In general, the research is interesting, however several issues still needed to be clarified. Minor Essential Revisions: 1. The methods used are conventional methods, the method section should be summarized briefly. 2. It needs to proof read the grammar errors in English. 3. The authors should cite the relevant articles. 1) Li X, Zheng H, Hara T, Takahashi H, Masuda S, Wang Z, Yang X, Guan Y, Takano Y. Aberrant expression of cortactin and fascin are effective markers for pathogenesis, invasion, metastasis and prognosis of gastric carcinomas. *Int J Oncol.* 2008,33(1):69-79. 2) Jia L, Uekita T, Sakai R. Hyperphosphorylated cortactin in cancer cells plays an inhibitory role in cell motility. *Mol Cancer Res.* 2008,6(4):654-662.



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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 7388

Title: Cortactin expression confers a more malignant phenotype to SGC-7901 cells

Reviewer code: 00504213

Science editor: Gou, Su-Xin

Date sent for review: 2013-11-17 08:17

Date reviewed: 2013-12-25 08:56

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" 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 checked="" type="checkbox"/> High priority for publication
<input 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)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

GENERAL COMMENTS: Generally, this is an interesting and well-written basic research manuscript concerning to the role of cortactin expression in the SGC-7901 gastric cancer cell line. Authors clearly showed that cortactin expression promoted the migration, invasion, and proliferation of the cell both in vitro and in vivo. They also showed that the EGFR signaling pathway involved in the way. I think this manuscript would fulfill the criteria of acceptance after making revision.

SPECIFIC COMMENTS: 1. Authors should indicate the page number in each page. 2. The name of gene should be indicated as an italic style, such as "src". 3. The "et al" may also prefer to be indicated as italic. 4. In the section of DISCUSSION, is "microscopy" misspelling? 5. The title of "References" should be inserted into the beginning of the section of reference. 6. In the Figure 7, figure B, C, and D are enough to show that the cortactin expression promotes cell growth and metastasis in vivo. I recommend removing the other figures from Figure 7.



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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 7388

Title: Cortactin expression confers a more malignant phenotype to SGC-7901 cells

Reviewer code: 00724450

Science editor: Gou, Su-Xin

Date sent for review: 2013-11-17 08:17

Date reviewed: 2013-12-25 20:06

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input checked="" 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 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 type="checkbox"/> Major revision

COMMENTS TO AUTHORS

You et al presented a study title as “Cortactin expression confers a more malignant phenotype to SGC-7901 cells”. This research is an interesting and well designed study. Also it has many novel findings and may promote to oncology practice especially gastric cancer researches. They found that cortactin expression promoted the migration, invasion and proliferation of SGC-7901 cells both in vivo and in vitro. It is well designed, has excellent results and well discussed. In recent years CerbB2 status become very important in metastatic gastric cancer and effect the overall survival. The authors may add the relationship between the cortactin levels and cerbB2 status in this or ongoing study.



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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 7388

Title: Cortactin expression confers a more malignant phenotype to SGC-7901 cells

Reviewer code: 02446446

Science editor: Gou, Su-Xin

Date sent for review: 2013-11-17 08:17

Date reviewed: 2013-12-26 07:49

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" 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 checked="" type="checkbox"/> High priority for publication
<input 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)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

Comments to the Authors: The manuscript entitled “Cortactin expression confers a more malignant phenotype to SGC-7901 cells “ is conducted according to the highest standards of biomedical research. Furthermore, it addresses the topic of molecular biology of gastric cancer and clearly demonstrates the effects of cortactin on its progression, invasion and metastasis that matter on national and international scale. Jun Wei and coauthors represent a comprehensive study on the effects of cortactin on tumor biology of SGC-7901 cells and identify the mechanism involved in the process. The effects of cortactin on the proliferation, migration and invasion ability of SGC-7901 cells were assessed by the MTT assay, colony formation, flow cytometry, transwell migration and matrigel invasion. Nude mouse models were also used to evaluate the role of cortactin in the growth and metastasis of SGC-7901 cells in vivo. Western-blot analysis was also performed to identify the expression of EGFR and downstream molecules. The paper mainly present four significant key contributions: 1-Cortactin overexpression promoted SGC-7901 cell migration and invasion. 2-Cortactin downregulation impaired SGC-7901 cell migration and invasion. 3-Cortactin elevated EGFR expression and activated the downstream molecules. 4-Cortactin may serve as a novel therapeutic target of gastric cancer. The manuscript is written in a smart manner & contains enough scientific information. I have no question with this paper and I highly recommend publication.