

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 37074

Title: SNP-SNP interactions of DNA repair gene ERC with metabolic gene GSTP1 in the gastric cancer/atrophic gastritis risk modified by H. pylori infection in a Chinese population

Reviewer's code: 03442259

Reviewer's country: Italy

Science editor: Ke Chen

Date sent for review: 2017-11-09

Date reviewed: 2017-11-11

Review time: 2 Days

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|--|---|--|--|
| <input checked="" type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input checked="" type="checkbox"/> Accept |
| <input type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> The same title | <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"/> Duplicate publication | <input type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade D: Rejected | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Minor revision |
| <input type="checkbox"/> Grade E: Poor | | BPG Search: | <input type="checkbox"/> Major revision |
| | | <input type="checkbox"/> The same title | |
| | | <input type="checkbox"/> Duplicate publication | |
| | | <input type="checkbox"/> Plagiarism | |
| | | <input type="checkbox"/> No | |

COMMENTS TO AUTHORS

Excellent study. Only some minor language revision is required.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 37074

Title: SNP-SNP interactions of DNA repair gene ERC with metabolic gene GSTP1 in the gastric cancer/atrophic gastritis risk modified by H. pylori infection in a Chinese population

Reviewer's code: 03035906

Reviewer's country: Greece

Science editor: Ke Chen

Date sent for review: 2017-11-09

Date reviewed: 2017-11-12

Review time: 2 Days

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|--|--|--|--|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input type="checkbox"/> [Y] Accept |
| <input type="checkbox"/> [Y] Grade B: Very good | <input type="checkbox"/> [Y] Grade B: Minor language polishing | <input type="checkbox"/> [] The same title | <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"/> [] Duplicate publication | <input type="checkbox"/> [] Rejection |
| <input type="checkbox"/> [] Grade D: Fair | <input type="checkbox"/> [] Grade D: Rejected | <input type="checkbox"/> [Y] No | <input type="checkbox"/> [] Minor revision |
| <input type="checkbox"/> [] Grade E: Poor | | BPG Search: | <input type="checkbox"/> [] Major revision |
| | | <input type="checkbox"/> [] The same title | |
| | | <input type="checkbox"/> [] Duplicate publication | |
| | | <input type="checkbox"/> [] Plagiarism | |
| | | <input type="checkbox"/> [] No | |

COMMENTS TO AUTHORS

Very interesting study. No special comments.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 37074

Title: SNP-SNP interactions of DNA repair gene ERC with metabolic gene GSTP1 in the gastric cancer/atrophic gastritis risk modified by H. pylori infection in a Chinese population

Reviewer's code: 03478869

Reviewer's country: United Kingdom

Science editor: Ke Chen

Date sent for review: 2017-11-09

Date reviewed: 2017-11-15

Review time: 5 Days

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|---|--|--|--|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input type="checkbox"/> [Y] Accept |
| <input type="checkbox"/> Grade B: Very good | <input type="checkbox"/> [Y] Grade B: Minor language polishing | <input type="checkbox"/> The same title | <input type="checkbox"/> High priority for publication |
| <input type="checkbox"/> [Y] Grade C: Good | <input type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> Duplicate publication | <input type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade D: Rejected | <input type="checkbox"/> Plagiarism | <input type="checkbox"/> Minor revision |
| <input type="checkbox"/> Grade E: Poor | | <input type="checkbox"/> [Y] No | <input type="checkbox"/> Major revision |
| | | BPG Search: | |
| | | <input type="checkbox"/> The same title | |
| | | <input type="checkbox"/> Duplicate publication | |
| | | <input type="checkbox"/> Plagiarism | |
| | | <input type="checkbox"/> No | |

COMMENTS TO AUTHORS

The study intended to investigate the interactions of the DNA repair gene ERCC5 with metabolic gene GSTP1 on atrophic gastritis (AG) and GC risk. Two pairwise combinations influenced AG risk, and the ERCC5 rs2094258-GSTP1 rs1695 SNP pair demonstrated an antagonistic effect while ERCC5 rs873601-GSTP1 rs1695 shown a synergistic effect on AG risk. None pairwise combination in relation to GC risk. There were no cumulative effects among the pairs-way interaction (ERCC5rs2094258 and rs873601 with GSTP1 rs1695) on AG susceptibility. While the effect modification of H. pylori infection was evaluated, the cumulative effect of one aforementioned pairs-way interaction shown a risk on the negative status of H. pylori. The authors found that there is a multifarious interaction between DNA repair gene ERCC5 (rs2094258 and

rs873601) and metabolic gene GSTP1 rs1695 pathways, which may form the base for the inter-individual various susceptibility in AG risk. Over all, this manuscript is interesting. The results are good and well discussed. After a minor language revision, it can be accepted.