

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 77463

Title: Effect of low-dose radiation on thyroid function and the gut microbiota

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05126185

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: China

Manuscript submission date: 2022-05-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-12 02:23

Reviewer performed review: 2022-05-16 02:25

Review time: 4 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The topic is interesting, the design was appropriate, the results were good and the discussion was convincing. But I would like to point out that every single-center study including yours is expected to have the issue of external validation. I would like to suggest you to address it as a limitation of this study in Discussion.

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Peer-review model: Single blind

Reviewer's code: 03850246

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor, Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2022-05-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-25 03:41

Reviewer performed review: 2022-05-26 12:20

Review time: 1 Day and 8 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The paper aimed to explore the effects of low-dose ionizing radiation on homeostasis from the "thyroid-gut axis" perspective, providing a conceptual and analytical foundation for further research into the chronic effects of LDR on human health, including thyroid function. The manuscript is clear and presented in a well structured manner. The study is well designed. Materials and methods are described in detail. Results are reported clearly and appropriate. The impact of radiation is well known on thyroid but there emerging scenarios related to tumors and therapy. Can you briefly introduce the hot topic of the role of PD L1 in thyroid, quoting as follow: Programmed Death-Ligand 1 (PD-L1) Is a Potential Biomarker of Disease-Free Survival in Papillary Thyroid Carcinoma: a Systematic Review and Meta-Analysis of PD-L1 Immunoexpression in Follicular Epithelial Derived Thyroid Carcinoma. Girolami I et al. Endocr Pathol. 2020 Sep;31(3):291-300. doi: 10.1007/s12022-020-09630-5.

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Reviewer's code: 05910457

Position: Peer Reviewer

Academic degree: MBBS, MS

Professional title: Chief Doctor, Doctor, Surgeon

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2022-05-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-27 10:33

Reviewer performed review: 2022-05-29 06:45

Review time: 1 Day and 20 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

good study i accept it