

## PEER-REVIEW REPORT

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

**Manuscript NO:** 67204

**Title:** Celiac Disease: From genetics to epigenetics

**Provenance and peer review:** Invited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 01555264

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Associate Professor, Chief Doctor, Senior Scientist, Technical Editor

**Reviewer's Country/Territory:** Iran

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-04-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-04-18 08:19

**Reviewer performed review:** 2021-04-18 08:40

**Review time:** 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous

statements

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

#### **SPECIFIC COMMENTS TO AUTHORS**

The title reflected the main subject/hypothesis of the manuscript. In the abstract some sentences regarding the epigenetics should be added. The key words reflected the focus of the manuscript. The manuscript adequately describe the background, present status and significance of the study. Please add the Methods searching and add the type of selected studies e.g. experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail. The study has made for research progress in this field. The manuscript interpreted the findings adequately and appropriately, highlighting the key points concisely, clearly and logically. please site the following article as well: Rostami-Nejad M, Romanos J, Rostami K, Ganji A, Ehsani-Ardakani MJ, Bakhshipour AR, Zojaji H, Mohebbi SR, Zali MR, Wijmenga C. Allele and haplotype frequencies for HLA-DQ in Iranian celiac disease patients. World J Gastroenterol. 2014 May 28;20(20):6302-8. doi: 10.3748/wjg.v20.i20.6302. PMID: 24876751; PMCID: PMC4033468.

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**Manuscript NO:** 67204

**Title:** Celiac Disease: From genetics to epigenetics

**Provenance and peer review:** Invited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05932402

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-04-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-04-18 16:23

**Reviewer performed review:** 2021-04-23 11:49

**Review time:** 4 Days and 19 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

#### **SPECIFIC COMMENTS TO AUTHORS**

I pleasantly reviewed this paper about celiac disease. I have no comments on the work except for a suggestion in the description of literature and conclusions. What I think is that the treatment of new data for the development of modeling should be done also using machine learning. Recently, also for CD, these techniques have given indications useful for physician. In my opinion, authors should review and include in the paper: Hegenbart S, Uhl A, Vécsei A    Review Survey on computer aided decision support for diagnosis of celiac disease. *Comput Biol Med.* 2015 Oct 1; 65:348-58. Piccialli, Francesco, Francesco Calabrò, Danilo Crisci, Salvatore Cuomo, Edoardo Prezioso, Roberta Mandile, Riccardo Troncone, Luigi Greco, and Renata Auricchio. "Precision medicine and machine learning towards the prediction of the outcome of potential celiac disease." *Scientific Reports* 11, no. 1 (2021): 1-10.

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**Provenance and peer review:** Invited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 04092118

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Postdoc, Senior Lecturer

**Reviewer's Country/Territory:** Romania

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-04-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-04-18 08:07

**Reviewer performed review:** 2021-05-01 14:30

**Review time:** 13 Days and 6 Hours

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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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<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

#### **SPECIFIC COMMENTS TO AUTHORS**

I've carefully read the manuscript entitled "Celiac disease: from genetics to epigenetics". The topic is of great interest for the celiac community – both researchers and healthcare professionals. The authors accurately describe the role of HLA in the genetic predisposition for CD and research targeting other genes that contribute to this genetic susceptibility. Further, the authors present currently available data on epigenetic modifications in CD. Figures are well illustrated, referring to correlation with clinical practice and profiling of patients according to epigenetic changes.