



PEER-REVIEW REPORT

Name of journal: *World Journal of Experimental Medicine*

Manuscript NO: 99968

Title: Familial hypercholesterolemia: Current limitations and future breakthroughs

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 08008500

Position: Peer Reviewer

Academic degree: MD

Professional title: Chief Physician

Reviewer’s Country/Territory: Viet Nam

Author’s Country/Territory: China

Manuscript submission date: 2024-08-04

Reviewer chosen by: AI Editor

Reviewer accepted review: 2024-08-04 05:58

Reviewer performed review: 2024-08-04 10:32

Review time: 4 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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript's organization and flow could be improved for better readability. While it covers a broad range of topics, some sections would benefit from a more structured arrangement. For instance, the discussion on genetic mutations and their impact on treatment outcomes could be consolidated into a single section rather than being dispersed throughout the text. Additionally, some sections would benefit from a deeper analysis. The discussion on the functional impact of LDLR gene mutations could include more details on how these mutations specifically affect cholesterol metabolism and patient outcomes. The section on lifestyle modifications could also provide more concrete examples and evidence of their efficacy. The manuscript could enhance its practical relevance by including more information on the clinical implications of the discussed research. For example, it could provide more insights into how clinicians can apply the findings from gene testing and precision medicine in everyday practice. Providing case studies or examples would make the discussion more tangible. The inclusion of figures and tables could also greatly enhance the manuscript. Visual aids such as charts depicting the prevalence of FH, tables summarizing current treatment



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA

Telephone: +1-925-399-1568

E-mail: office@baishideng.com

https://www.wjgnet.com

options, and flowcharts of future treatment strategies would provide clear and immediate reference points for readers. In the introduction, consider adding a brief overview of the genetic basis of FH earlier to set the stage for the subsequent discussions on treatment limitations and future directions. The manuscript mentions several studies in the literature review but does not always provide detailed analysis or critique of these studies. Adding a critical perspective would strengthen this section. Overall, the manuscript "Familial Hypercholesterolemia: Current Limitations and Future Breakthroughs" is a well-researched and timely contribution to the field. With some improvements in organization, depth of analysis, and clarity, it has the potential to provide significant insights into the management of FH. The emphasis on future research directions is particularly commendable and positions the manuscript as a valuable resource for both researchers and clinicians. The conclusion effectively summarizes the key points but could be more impactful by reiterating the urgent need for new diagnostic and treatment strategies and suggesting specific areas for future research.