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

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 88568

Title: Circulating MicroRNA Expression and Nonalcoholic Fatty Liver Disease in Adolescents with Severe Obesity

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02937551
Position: Editorial Board
Academic degree: PhD
Professional title: Professor, Research Fellow
Reviewer's Country/Territory: China
Author's Country/Territory: United States

Manuscript submission date: 2023-09-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-10-16 00:49

Reviewer performed review: 2023-10-27 03:31

Review time: 11 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This study indicates the differential expression of circulating miRNAs in adolescent NAFLD, suggesting that they may become diagnostic and prognostic biomarkers for NAFLD. However, there are two shortcomings. Firstly, the sample size is small and research needs to be conducted in a larger and more diverse populations. The second issue is that there has been no molecular mechanism validation of differentially expressed circulating miRNAs through cytology or animal experiments.

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

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 88568

Title: Circulating MicroRNA Expression and Nonalcoholic Fatty Liver Disease in Adolescents with Severe Obesity

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02546910
Position: Peer Reviewer
Academic degree: MD
Professional title: Chief Physician, Professor
Reviewer's Country/Territory: China
Author's Country/Territory: United States

Manuscript submission date: 2023-09-29

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-11-03 01:54

Reviewer performed review: 2023-11-05 01:49

Review time: 1 Day and 23 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

So far, many studies have reported the relationship between microRNA and NAFLD, but there is poor consistency in the global published research and evaluation of human liver miRNA expression. There is limited research on the human liver. This study identified new circulating miRNAs and analyzed their expression in different pathological features of NAFLD, which have mechanisms to promote or alleviate the progression of NAFLD. This is a new exploration and has good innovation. This study is of great significance for the diagnosis and treatment of NAFLD. As a contributor to the pathogenesis of human NAFLD, novel miRNAs are expected to serve as biomarkers for the non invasive diagnosis and staging of NAFLD or hepatocellular carcinoma, or as targets for drug therapy, thereby preventing or reversing disease progression. The novel miRNA discovered in this study provides a new direction for targeted therapy of NAFLD. Due to the different types and quantities of miRNA expression at different stages of NAFLD, as well as differences in gender and whether obesity is present (such as obesity with NAFLD or lean individuals with NAFLD), further research is needed. Due to the relatively small sample size of this study, gender stratification studies were

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: office@baishideng.com
https://www.wjgnet.com

not conducted. Additionally, it would be better if specific miRNAs that reflect disease progression or deterioration could be identified.

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

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 88568

Title: Circulating MicroRNA Expression and Nonalcoholic Fatty Liver Disease in Adolescents with Severe Obesity

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03959944
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: China
Author's Country/Territory: United States

Manuscript submission date: 2023-09-29
Reviewer chosen by: Yu-Lu Chen
Reviewer accepted review: 2023-10-31 08:43
Reviewer performed review: 2023-11-09 01:16
Review time: 8 Days and 16 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This study investigated miRNAs associated with NAFLD and identified several miRNAs worthy of attention. However, it is necessary to provide additional details about the methods employed and present more robust results to enhance the scientific validity of this study. 1. This reviewer is interested in the methods of acquiring miRNAs from plasma and the approach used for differential expression analysis of miRNAs. 2. Line283, it appears that there is confusion or ambiguity regarding “serum miRNA” and “plasma miRNA”. 3. Could you provide some images related to the histological features of NAFLD? 4. The current study identified several novel miRNAs that may serve as biomarkers for NAFLD. However, as mentioned in the manuscript's limitations, these results were based on a small sample size. Therefore, this reviewer is interested in knowing whether these miRNAs show differential expression at the RT-qPCR level?