



## PEER-REVIEW REPORT

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

**Manuscript NO:** 89482

**Title:** Lipid metabolism-related lncRNA R Y1-817I4.1 promotes fatty acid synthesis and tumor progression in hepatocellular carcinoma

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 02936529

**Position:** Editorial Board

**Academic degree:** FRCS (Hon), MD, PhD

**Professional title:** Professor, Surgical Oncologist

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

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

**Manuscript submission date:** 2023-11-02

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-11-04 02:05

**Reviewer performed review:** 2023-11-13 14:06

**Review time:** 9 Days and 12 Hours

<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 Grade E: Do not publish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>Novelty of this manuscript</b>	<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
<b>Creativity or innovation of this manuscript</b>	<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 creativity or innovation



<b>Scientific significance of the conclusion in this manuscript</b>	<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
<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 statements</b>	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 authors conducted the differential expression analyses in The Cancer Genome Atlas (TCGA) to identify lipid metabolism-related lncRNAs in HCC progressivos. qRT-PCR analysis was used to evaluate the expression of LMR lncRNAs and Nile red staining was used to observe intracellular lipid levels. Dual-luciferase reporter gene and RIP assays were performed to validate the interaction between RP11-817I4.1, miR-3120-3p, and ACLY. The authors concluded that 3 LMR-lncRNAs (NRAV, TMCC1-AS1, and RP11-817I4.1) were found to be predictive markers for HCC patients and were used to build risk models. Furthermore, RP11-817I4.1 knockdown reduced proliferation, migration, and invade. RP11-817I4.1 significantly increased lipid levels in HCC cells through the miR-3120-3p/ ACLY axis abs. They also concluded that LMR-lncRNAs have the capacity to predict the clinical characteristics and prognoses of patients with HCC and a new lncRNA, RP11-817I4.1, can accelerate the emergence and development of HCC. The methodology was proper and well described. The figures are illustrative and well displayed. The discussion is concise and updated. English polite is needed, mainly in concordance.



**Baishideng  
Publishing  
Group**

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

**Telephone:** +1-925-399-1568

**E-mail:** [office@baishideng.com](mailto:office@baishideng.com)

**https://**[www.wjgnet.com](http://www.wjgnet.com)