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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Oncology*

Manuscript NO: 89149

Title: Identification of the Key Genes and Mechanisms Associated with Transcatheter Arterial Chemoembolisation Refractoriness in Hepatocellular Carcinoma

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04425299

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Lecturer, Surgical Oncologist

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: China

Manuscript submission date: 2023-10-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-10 13:04

Reviewer performed review: 2023-11-10 14:34

Review time: 1 Hour

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 Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input 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 checked="" type="checkbox"/> Grade B: Good <input 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 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
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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Dear Authors, Thank you for submitting your work to the World Journal of Clinical Oncology. This is a very interesting and of high quality article on the identification of genes that might predict response to TACE. The Introduction section is informative and provides adequate background. Methodology is sound, although I would like to know why you selected only 5 genes for your further analysis. Results are presented in thorough detail with appropriate tabulations and figures. Discussion is comprehensive. However, a paragraph should be included discussing the limitations of the study. For instance, the heterogeneity in diagnosis, and treatment selection of all cases registered in accessed Databases, might have an impact on your results. Moreover, it would be important to know if there are data regarding previous treatment (prior to TACE) for these patients, as well as whether according to current guidelines, these patients should have been offered some other first-line treatment.