

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 80511

Title: Network Pharmacology-Based Analysis of Heat Clearing and Detoxifying Drug JC724 on the Treatment of Colorectal Cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05447886

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Research Scientist

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2022-09-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-07 10:50

Reviewer performed review: 2022-10-19 12:30

Review time: 12 Days and 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Accept (General priority) <input 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: [☒] Anonymous [☐] OnymousConflicts-of-Interest: [☐] Yes [☒] No**SPECIFIC COMMENTS TO AUTHORS**

This study aimed to clarify the anticancer mechanism of JC724 through network pharmacology analysis, and reveal the meaning of heat toxins in heat-clearing and detoxifying therapy. Machine learning, IAs, and networks are valid and important tools given our big data era, including in biological sciences. This study engages these tools in a complex disease. The manuscript is overall well written. A minor editing is required before publication. Thank you.

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Reviewer's code: 03309454

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2022-09-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-07 10:49

Reviewer performed review: 2022-10-19 12:33

Review time: 12 Days and 1 Hour

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
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Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

The authors clarified the components of JC724 and investigated the mechanism of the anticancer effects of JC724 on HCT116. After a minor revision, it can be accepted for publication. Minor comments: 1. Please explain why the author chose HCT116 in this research. Many colorectal cancer cell lines have been used in basic research, and each cell line has different characteristics. 2. It is unclear whether the anticancer effect of JC724 on the NRF2 and IL-17 is specific for colorectal cancer, because the authors investigated the mechanism using only HCT116. Please discuss about this.