



PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 50139

Title: Cancer-specific metabolism: Promising approaches for colorectal cancer treatment

Reviewer’s code: 03656586

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Science editor: Ying Dou

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Review time: 7 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer’s expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Tumor cells form a unique metabolic pattern during the growth process - the Warburg effect, in which the glucose in the tumor cells rarely enters the high-efficiency metabolic capacity mode of the Krebs cycle, but most of them undergo anaerobic mode. Glycolysis rapidly metabolizes to form lactic acid. The Warburg effect not only makes the



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endogenous metabolism of cells change drastically, but also the expression and activity of drug metabolizing enzymes (DMEs) related to the metabolism of exogenous substances. The special living environment and metabolic patterns of tumor cells, as well as changes in the expression and activity of intracellular DMEs, inevitably cause the metabolic intensity and elimination rate of drugs in tumor cells to be different from those in normal cells, directly affecting the target cells in tumor cells. Exposure and efficacy, as well as exposure and toxicity in normal tissue cells. This article has a systematic description in this file, so that we basically understand the mechanism of metabolic abnormalities in colon cancer cells. In addition, it should be noted that liver metastasis of colon cancer is also closely related to metabolic abnormalities. Through this article, we can understand the metabolic abnormalities of colon cancer, know: 1. Some specific DMEs expression in colon cancer tissue can be used as tumor markers; 2. Some enzyme-dependent metabolic reactions can be applied to tumor targeted therapy; Certain specific metabolic reactions mediated by DMEs expressed in colon cancer tumors can be used for screening for anticancer drugs. 4. To understand the mechanism of chemotherapy resistance of colon cancer at the metabolic level.

INITIAL REVIEW OF THE MANUSCRIPT

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