



PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 51858

Title: Overview of organic anion transporters and organic anion transporter polypeptides and their roles in the liver

Reviewer's code: 03537407

Position: Peer Reviewer

Academic degree: MD

Professional title: Postdoc

Reviewer's country: Germany

Author's country: China

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-10-08 06:55

Reviewer performed review: 2019-10-10 13:02

Review time: 2 Days and 6 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 type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input 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 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 type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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This is a very well written and comprehensive review on the role of OAT and OATP in the liver and in various liver diseases. The article gives an excellent overview on the biology and pathophysiologic implications of these transporters. Some minor points should be corrected: Fig 1 is referred to in the text only after Fig 2. It is suggested to reference Fig 1 already in the introduction chapter. Chapter 4 largely discusses OAT and OATP in HCC and provides less information on HB/HCV and other causes of chronic liver diseases. It would be good to include more aspects of e.g. PBC, PSC, alcoholic liver diseases and especially NAFLD and NASH as the latter two are rapidly increasing in prevalence and importance for endstage liver disease worldwide.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- No

BPG Search:

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- No



PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 51858

Title: Overview of organic anion transporters and organic anion transporter polypeptides and their roles in the liver

Reviewer's code: 02811953

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's country: United States

Author's country: China

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-10-08 11:06

Reviewer performed review: 2019-11-02 03:08

Review time: 24 Days and 16 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 type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input checked="" type="checkbox"/> Grade D: Fair	<input checked="" 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" 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



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The manuscript (Manuscript NO: 51858) entitled “Overview of OATs and OATPs and their roles in the liver” is a manuscript by Tingting Li, et al. The authors tried to summarize similarities and differences in OAT and OATP structures, tissue distribution, substrates and roles in liver diseases. Major comments 1. Extensive language editing is needed. For example, in lines 4 of the abstract, what does it mean “normal”. In addition, in the line of third to the last, it should be “... OAT and OATP structures...”. Moreover, the first sentence of Introduction section (the third word), it should be “...are...”. There are other places. 2. HNF1a was defined on page 22/50. However, it was defined again on page 24/50. Please use abbreviation when you defined an abbreviation. 3. The value of the current view can be improved if the chromosome loci of those transporters in human are summarized in if data are available. 4. In addition, in those tables, it will be very helpful if the Km of these transporters to those substrates are shown. 5. Figure 2 should have more figure legend to describe the content.

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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 51858

Title: Overview of organic anion transporters and organic anion transporter polypeptides and their roles in the liver

Reviewer's code: 02942856

Position: Peer Reviewer

Academic degree: BM BCh

Professional title: Associate Professor, Attending Doctor

Reviewer's country: Taiwan

Author's country: China

Reviewer chosen by: Jie Wang

Reviewer accepted review: 2019-10-26 06:40

Reviewer performed review: 2019-11-03 04:09

Review time: 7 Days and 21 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:
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<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

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WJG-51858 Li et al., Overview of OATs and OATPs and their roles in the liver In this article, Le et al reviewed the structure/function and distribution of OATs and OATPs, their impacts on liver diseases and the potential clinical application. The content is organized. However, there are some issues to be clarified: Comments 1. Page 15, line 1-7: The authors indicate that changes in OAT2 expression may help explain the pharmacokinetic changes in patients with cirrhosis who have high plasma hepatocyte growth factor HGF levels. However, the quoted references only mentioned about the function and changes of HGF levels in patients with liver decompensation. Although Le et al found that HGF treatment downregulated OAT2 mRNA levels, this is not necessarily linked to the pharmacokinetic changes in cirrhotic patients, because OAT2 are multifunctioning. 2. Page 16, line 13-14:”It has been hypothesized that these microenvironmental changes may occur in patients with early chronic HCV.” The reference is suggested to be quoted.

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