

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Transplantation

**Manuscript NO:** 51316

**Title:** Therapeutics administered during ex vivo liver machine perfusion: An overview

**Reviewer's code:** 02492984

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor

**Reviewer's country:** Japan

**Author's country:** United States

**Reviewer chosen by:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-09-23 09:18

**Reviewer performed review:** 2019-09-26 05:26

**Review time:** 2 Days and 20 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 checked="" 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 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

This is the interesting review regarding organ protection during ex vivo liver perfusion



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before transplantation. They raised three categories of therapeutics including RNAi pathway, defatting cocktails and vasodilators. They summarized currently available literature and this is very good information for readers. Although almost every studies they discuss is preclinical, they are promising therapeutic options for this types of specific conditions. One more limitation would be that ex vivo liver perfusion itself is not standard therapy in several countries at the moment.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Transplantation

**Manuscript NO:** 51316

**Title:** Therapeutics administered during ex vivo liver machine perfusion: An overview

**Reviewer's code:** 02446061

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor, Research Scientist

**Reviewer's country:** Mexico

**Author's country:** United States

**Reviewer chosen by:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-09-23 13:58

**Reviewer performed review:** 2019-09-27 23:05

**Review time:** 4 Days and 9 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" 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 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 type="checkbox"/> General
			<input checked="" type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The manuscript content is interesting. Please edit to be clearer about the two trends to



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therapeutics in EV-LMP (RNA and vasomodulators). Other therapies are not mentioned!  
This is important as your work included the trends from basic research.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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- ☐ Plagiarism
- ☐ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Transplantation

**Manuscript NO:** 51316

**Title:** Therapeutics administered during ex vivo liver machine perfusion: An overview

**Reviewer's code:** 00502954

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Associate Professor

**Reviewer's country:** Canada

**Author's country:** United States

**Reviewer chosen by:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-09-23 13:52

**Reviewer performed review:** 2019-10-04 19:44

**Review time:** 11 Days and 5 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" 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 checked="" 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 checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Therapeutics Administered During Ex Vivo Liver Machine Perfusion: An Overview

This is a very good review that has covered most of treatment potential for liver injury. It will surely help reader to understand prevention and treatment strategies to preservation injury in liver transplantation. It will be helpful for reader to comprehensively understand this field if authors can provide one illustration for the crosstalk (cons and pros) between the proposed therapeutic treatments and the methods of organ presentation. Authors should discuss more about targeting few candidate molecules that play important roles in prevention of liver injury. In addition, it will be important to discuss if low temperature would reduce effectiveness of siRNA or other drugs treatment considering enzyme function is temperature dependent.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

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- ☐ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No