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PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 39031

Title: Dental pulp cell bank as a possible future source of individual hepatocytes

Reviewer's code: 00068723

Reviewer's country: Japan

Science editor: Jin-Lei Wang

Date sent for review: 2018-03-29

Date reviewed: 2018-03-30

Review time: 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 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 type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The authors reviewed dental pulp cell bank as a source of hepatocytes. As they stated, dental pulp cell bank is promising. It seems that differentiation of dental pulp cells to hepatocytes is difficult. It would be better to refer representative protocols to generate hepatocytes. Differentiation status of hepatocytes is important. It would be better to cite

data to show the differentiation status of the hepatocytes produced with each protocol. Has dental pulp cell bank been established? Or is it in progress? Where are the cells banked? How are the dental pulp cells obtained? How are the cells transported to the bank?

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

- ☐ The same title
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PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 39031

Title: Dental pulp cell bank as a possible future source of individual hepatocytes

Reviewer's code: 00069630

Reviewer's country: China

Science editor: Jin-Lei Wang

Date sent for review: 2018-04-26

Date reviewed: 2018-05-02

Review time: 5 Days

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

Dental pulp mesenchymal stem cells (especially SHEDs) have the advantages of low immunological rejection, less invasively, low cost and very few ethical issues, and are ideal cell sources for the treatment of diseases such as the liver. This manuscript presents current information about the dental pulp cells bank as a possible future source of

individual hepatocytes. However, the literature cited in this paper is old and lacks the latest research progress in the past five years. The author should provide more recent study or viewpoint to state the mechanisms of MSC-based therapy. On the other hand, the review paper should review previously published literature and put it into some kind of perspective. This paper lacks the new data that have to develop the authors own.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
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- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 39031

Title: Dental pulp cell bank as a possible future source of individual hepatocytes

Reviewer's code: 03195661

Reviewer's country: China

Science editor: Jin-Lei Wang

Date sent for review: 2018-04-26

Date reviewed: 2018-05-03

Review time: 6 Days

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 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

The minireview submitted by Shogo Ohkoshi et al provides the update knowledge regarding the general information and the potential clinical application of dental pulp cells. The review is well organized and written. One key point should be considered before the acceptance of this review. The authors aimed to show that the dental pulp cell

bank is a possible future source of individual hepatocytes, however, they described too much of the basic and clinical research about the MSCs derived from other organs while much less regarding the dental pulp MSCs, especially their potential application in liver diseases.

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- ☐ Plagiarism
- ☐ No

BPG Search:

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

PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 39031

Title: Dental pulp cell bank as a possible future source of individual hepatocytes

Reviewer's code: 03567380

Reviewer's country: United States

Science editor: Jin-Lei Wang

Date sent for review: 2018-04-26

Date reviewed: 2018-05-03

Review time: 6 Days

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
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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

The minireview by Ohkoshi et al. describes MSCs and their role in disease, potential for therapy for liver diseases and the establishment/utilization of a dental pulp cell bank. The strength of this minireview lies in the accurate description of DP-MSCs and their role in regenerative medicine as well as their description of how to establish and utilize a

dental pulp cell bank for liver pathology. While this minireview is important to the field and is relevant, there are a few areas the authors could improve to strengthen this minireview. 1) While most of the sections are well described, the sections involving “cell transplantation therapy with SHEDs for liver diseases” could be improved. There are core studies not referenced (PMID: 29118330). In addition some of the studies are not described in sufficient detail, such as the Ito et al. study that reported conditioned media from SHEDs improved survival in D-galactosamine acute liver failure. The authors should mention that IV administration of SHED-conditioned media reduces inflammation/macrophage M1 polarization here. The authors need to review this section and add additional details where possible. 2) The authors should include a figure or table describing the core benefits and detriments to using iPSCs, MSCs (not from DP origin), DP-MSCs and SHEDs for hepatocyte proliferation/liver regeneration/regenerative medicine. This could replace some of the text in the “Establishment and operation of dental pulp cell bank” paragraph. 3) The authors need to mention about other dental banks and regulatory agencies besides those in Japan in some detail (or at least acknowledge that other countries use different banks/regulatory bodies). 4) Figure 1 is not referenced anywhere in the text of the minireview. 5) Make sure all abbreviations are defined before use (for example, GVHD on page 9) and if abbreviations are used, that they are used throughout (MSCs from dental pulp after DP-MSCs were already defined, page 7).

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[Y] No

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[] Plagiarism

[Y] No