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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells
ESPS manuscript NO: 22054
Title: Towards in vivo amplification: Overcoming hurdles in the use of hematopoietic stem cells in transplantation and gene therapy
Reviewer's code: 00504012
Reviewer's country: China
Science editor: Shui Qiu
Date sent for review: 2015-08-11 10:06
Date reviewed: 2015-08-18 09:05

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[Y] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[Y] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[ ] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

no further comments

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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells
ESPS manuscript NO: 22054
Title: Towards in vivo amplification: Overcoming hurdles in the use of hematopoietic stem cells in transplantation and gene therapy
Reviewer's code: 01217232
Reviewer's country: China
Science editor: Shui Qiu
Date sent for review: 2015-08-11 10:06
Date reviewed: 2015-08-23 06:54

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[Y] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[Y] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[ ] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

In this review, Dr. Nagree et al have reviewed the advences on gene therapy with hematopoietic stem cells as the target cells, focusing on in vivo selection and amplication of the tranduced HSCs. The paper is appropriately prepared and the review is instructive. This reviewer has no concerns to be addressed.

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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells
ESPS manuscript NO: 22054
Title: Towards in vivo amplification: Overcoming hurdles in the use of hematopoietic stem cells in transplantation and gene therapy
Reviewer's code: 01021289
Reviewer's country: Japan
Science editor: Shui Qiu
Date sent for review: 2015-08-11 10:06
Date reviewed: 2015-08-23 18:04

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[Y] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

This manuscript reviews the current strategies and limitations to expand the gene corrected hematopoietic stem cells. The authors detailed the Ex vivo selection, In vivo chemo-selection, engineered inducible growth and selection strategies and those aimed to enhance engraftment of the gene corrected cells. The manuscript is well organized and educational that may be shared by the basic scientist and clinician that deals with the HSC oriented gene therapies. Major comments 1. In the middle part of the paragraph on page 21 where T cell gene therapy is described, the authors should elaborate what the T-cell gene therapy is. Without having this, it is hard to follow this section. 2. The first line on page 7 states the "reduction of the usefulness of the cells post-selection". It would be helpful for the readers to follow if the reasons for their reduction are explained. Minor 1. Line 8 from the bottom on page 8: "Faber disease" may be "Fabry disease". 2. "have showed" on the 4th line on page 18 should be "have shown".

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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells
ESPS manuscript NO: 22054
Title: Towards in vivo amplification: Overcoming hurdles in the use of hematopoietic stem cells in transplantation and gene therapy
Reviewer's code: 01047169
Reviewer's country: South Korea
Science editor: Shui Qiu
Date sent for review: 2015-08-11 10:06
Date reviewed: 2015-08-24 16:12

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[Y] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[Y] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[ ] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

This manuscript reviews current art-of-status to overcome the hurdles of gene therapy and stem cell transplantation using hematopietic stem cell and deivative cells. It is Generally well written and informative. For better understanding of the audience, I recommend to split the former part to sub-sections. eg Ex Vivo Pre-Selection Strategies - Cytotoxic drug resistance - Cell surface markers In Vivo Chemo-Selection strategies - ABCB1 - DHFR - MGMT ….