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Dear Editor:

Thank you for sending us your reviewers' comments on our manuscript. We have read the commentaries thoroughly and responded in detail to each of the points raised. We have been able to address these comments directly by making the suggested changes and feel that our text is enhanced by these revisions.

We are now pleased to present our revised manuscript on the 'Genetic barriers in transplantation medicine' for your consideration as a review article for publication in the *World Journal of Transplantation*.

Yours sincerely,

Dr Hisham A Edinur

Corresponding Author

24 MAY 2016

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Transplantation

ESPS manuscript NO: 26223

Title: Genetic barriers in transplantation medicine

Reviewer's code: 00502871

Reviewer's country: United States

Science editor: Fang-Fang Ji

Date sent for review: 2016-03-31 14:26

Date reviewed: 2016-04-01 03:05

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

COMMENTS TO AUTHORS

The manuscript is a review of tissue compatibility relevant to transplantation medicine. New research material is not presented but the manuscript explains complex issues in an understandable way that would be a valuable reference, especially for individuals starting in the clinical or laboratory study of organ transplantation.

Authors: We were gratified by this positive comment from the reviewer.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Transplantation

ESPS manuscript NO: 26223

Title: Genetic barriers in transplantation medicine

Reviewer's code: 00504150

Reviewer's country: Canada

Science editor: Fang-Fang Ji

Date sent for review: 2016-03-31 14:26

Date reviewed: 2016-04-03 07:31

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	GoogleSearch:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input checked="" type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input checked="" type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

The manuscript entitled, "Genetic barriers in transplantation medicine" by Edinur and co-workers appears to be rather unorganized with little structure, admixture of speculations or unimportant and distracting details. I - personally- find it very difficult to extract important information on the topic. The entire paper needs to be shortened, vigorously restructured and sharply focused with the study goal in mind: genetic barriers in transplantation medicine.

Authors: We agree with the comments and recommendation but have to keep this manuscript within a wider scope. We believe that the future of transplantation medicine depends on continuous support from both, public and health professionals. Therefore, the present text started with general aspects in transplantation (donor and recipient matching, graft rejection and GVHD) and followed by a greater emphasis on the molecular bases of the genes encoding for transplant determinants and future prospects in transplantation medicine (e.g. donor recruitment strategy and bioengineering). We felt that the existing design of our review is not only important to readers who are working in tissue typing laboratory but also for those in clinical settings and helps to raise the number of organ donors through public education (see comments from Reviewer #00502871, #00006912 and #26223).

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Transplantation

ESPS manuscript NO: 26223

Title: Genetic barriers in transplantation medicine

Reviewer's code: 00006912

Reviewer's country: Taiwan

Science editor: Fang-Fang Ji

Date sent for review: 2016-03-31 14:26

Date reviewed: 2016-04-22 02:47

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	GoogleSearch:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

In this short review, the authors described genetic barriers in transplantation including graft rejection, management of graft rejection and genetic barriers (ABO, HLA, MICA and KIR). This manuscript was well-written. However, several points have to be clarified. 1. In page 5, the authors mentioned "Examples of the drugs that have been used in immunosuppressive therapy are like cyclosporine, azathioprine, cyclophosphamide and anti-inflammatory agents such as corticosteroids." It is better to mention most popular agents such as tacrolimus, mycophenolic acid, etc. 2. In page 6, the authors mentioned that the combination of costimulatory molecule blockage with inhibitory of signal activation also appear to be effective in inducing tolerance in pre- or post-transplant. It is not true clinically. It has to be revised.

Authors: We thank the reviewer for these comments and regard them as particularly valuable advice. Some revisions have been made and we have included four references to cover the most popular immunosuppressive drugs (i.e tacrolimus, mycophenolic acid, etc.) suggested by the Reviewer (see p. 6, L. 8-14 and p. 7, L. 19 of the revised manuscript). The idea is to simplify the manuscript by linking to previous works on these immunosuppressive drugs (see comments from Reviewer #00504150).

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Transplantation

ESPS manuscript NO: 26223

Title: Genetic barriers in transplantation medicine

Reviewer's code: 00505066

Reviewer's country: China

Science editor: Fang-Fang Ji

Date sent for review: 2016-03-31 14:26

Date reviewed: 2016-04-26 21:50

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	GoogleSearch:	<input checked="" type="checkbox"/> Accept
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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

This manuscript is well done for reviewing Genetic barriers in transplantation medicine. I suggest it can be published.

Authors: We were gratified by this positive comment from the reviewer.