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ESPS Peer-review Report

Name of Journal: World Journal of Transplantation

ESPS Manuscript NO: 4295

Title: Massively Parallel Sequencing in Transplantation Science

Reviewer code: 00608249

Science editor: Song, Xiu-Xia

Date sent for review: 2013-06-26 16:59

Date reviewed: 2013-08-03 10:37

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The concept of reviewing MPS in transplantation is interesting, but the manuscript needs to be reorganized and presented in a more focused way. The manuscript can be drastically shortened. It is quite broad at many parts and reviews issues and topic regarding sequencing that are well known and have been reviewed in many other reviews. E.g issues like privacy of sequencing data etc are not specific for the transplant population. All these sections should be removed/condensed and addition of a summary figure showing the possible applications of sequencing in transplantation would significantly increase the quality of the manuscript. Also addition of tables that would summarize all the studies in this area per field and specific application would be important since the reader loses focus with this extensive manuscript and important info is lost among other well known facts.



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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<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"/> No records	<input type="checkbox"/> Rejection
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<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is an interesting Editorial about massively parallel sequencing (MPS), i.e. applications of modern molecular biology approaches, in the field of transplantation. The possibilities of analysis at DNA and RNA level, including methylation and alkylation aspects, have substantially grown during the last decades, and as such an Editorial is warranted to present the possibilities in transplantation. The author presents examples from other areas, i.e. major breakthrough analysis in the field of oncology. Regarding the transplantation area, potential applications are presented with respect to histocompatibility matching, analysis of the immune reaction to a transplant, and evaluation of microbiological flora. Missing are items like minor histocompatibility antigens and personalized treatment with immunosuppressants. The author also presents the discussion on relevant aspects such as data ownership, consent by people providing samples, and associated ethical principles. This all presents a topic that is of interest to the readership of World Journal of Transplantation. A major comment is the style and structure of the editorial. The manuscript is written with the viewpoint of the author, and is quite biased to his opinion about matters. It would be much better to write and present the topic with a more general description on what are opinions and consensus by experts in the field, and what is typically needed for discussion. It could be advised to outline what needs to be done within the scientific arena in a multidisciplinary approach to achieve consensus and advise/educate e.g., competent regulatory authorities. Is this a topic for e.g., the international transplantation society (www.tts.org)? Also, it is strongly recommended to give more details on potential applications in the transplantation field, so that the discussion is no longer theoretical and hypothetical, but rather pragmatic and practical for workers in the field. This reviewer does not know the institution which is founded by the author. If Spheromics has a stake in the field of molecular



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biology, it can be questioned whether this creates a conflict of interest. At least, it is advised that the author declares his position. Finally, there are typographical errors, and the phrasing of a number of sentences need to be changed: it is advised to edit the manuscript in this respect.