

ESPS Peer-review Report

Name of Journal: World Journal of Neurology

ESPS Manuscript NO: 4079

Title: A common genetic mechanism underlying susceptibility to posttraumatic stress disorder--A potential approach with combination of laser-assisted microdissection and microarray techniques

Reviewer code: 02446087

Science editor: Gou, Su-Xin

Date sent for review: 2013-06-13 11:29

Date reviewed: 2013-06-18 17:10

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)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

In the review article "A common genetic mechanisms underlying susceptibility to posttraumatic stress disorder- a potential approach with combination of laser-assisted microdissection and microarray techniques", He Z et al discussed the evidences supporting that susceptibility to PTSD may be determined in part by aberrant microtubule-associated protein tau (MAPT) expression in neurons of critical brain structures. This article is well written, and the cited references are updated, i.e., 19 cited paper (23%) were published in and after year 2010. The weakness of this article, however, is shown in the following points: 1. The conclusion in lines 17-20, page 2, was not useful to interested readers. The usefulness of laser capture microdissection (LCM) and microarray analysis of gene expression (MAGE) have been proved and in providing specific insights in every discipline of neuroscience. There is no need to add another positive statement for LCM-MAGE. Instead, interested readers of the Journal would like to learn: what new mechanisms have been derived by using this combination. 2. Similar to the aforementioned comment, Figures of this review article appear superfluous, because they were used only to depict the procedures of LCM and the typical analyses of MAGE, which have long become the standard procedures. I suggest that authors use Figures and add Tables for summarizing key evidences to support their hypothesis.

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Name of Journal: World Journal of Neurology

ESPS Manuscript NO: 4079

Title: A common genetic mechanism underlying susceptibility to posttraumatic stress disorder--A potential approach with combination of laser-assisted microdissection and microarray techniques

Reviewer code: 00505755

Science editor: Gou, Su-Xin

Date sent for review: 2013-06-13 11:29

Date reviewed: 2013-06-21 13:36

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 checked="" type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input checked="" 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
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

General comments (1) The importance of the research and the significance of the research contents The research about posttraumatic stress disorder (PTSD) is very important because of the recent increase of PTSD upon natural disaster and modern problems and stress. The attempt to reveal the common genetic mechanism of PTSD is highly significant to resolve the complex situation of PTSD. (2) The novelty and innovation of the research The approach to reveal the gene expression of PTSD is unique and the importance of the research should be emphasized. (3) Presentation and readability of the manuscript Presentation and readability of the manuscript are quite acceptable. (4) Ethics of the research There seems to be no relevant problem in ethics of the research Specific comments Title: It accurately reflects the major topic and contents of the study. Abstract: It describes about the aim of the research to reveal gene expression in PTSD and the methods using laser-assisted/capture microdissection with microarray to reveal the mechanism of PTSD are innovative. The result should be described more in detail to emphasize the importance of the research. Material and methods: Material and methods are needed to explain figures. Results: "Future studies" includes the recently revealed data, so the heading of the section might be changed to describe the gene expression in PTSD, or semi-sections may be added. In page 16, line12, "Forty-nine of the 50 1000-neuron RNA samples were amplifiable" is hard to be interpreted. Does this mean that 501000 samples have been examined? It seems like figure 4 plots signal intensity in each gene. Discussion: Discussion section may be added. References: Shin LM et al, 2006 might be cited. Tables and figures: Legends are well described. It should be clarified to which panels the equation indicating the correlation of samples corresponds in figure 4. Material and method section to describe the figures should be added.

ESPS Peer-review Report

Name of Journal: World Journal of Neurology

ESPS Manuscript NO: 4079

Title: A common genetic mechanism underlying susceptibility to posttraumatic stress disorder--A potential approach with combination of laser-assisted microdissection and microarray techniques

Reviewer code: 00069966

Science editor: Gou, Su-Xin

Date sent for review: 2013-06-13 11:29

Date reviewed: 2013-06-24 15:36

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)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This manuscript is acceptable for publication with a minor change as follows: 1. The authors should complete the name of people in Acknowledgements. (There is a blank in the last line of the Acknowledgements) 2. The authors should make the reference style consistency and meet the journal format. 3. There are 2 journals listed in Reference no. 14, so the total references should be 84.

ESPS Peer-review Report

Name of Journal: World Journal of Neurology

ESPS Manuscript NO: 4079

Title: A common genetic mechanism underlying susceptibility to posttraumatic stress disorder--A potential approach with combination of laser-assisted microdissection and microarray techniques

Reviewer code: 00506358

Science editor: Gou, Su-Xin

Date sent for review: 2013-06-13 11:29

Date reviewed: 2013-06-25 00:53

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

COMMENTS TO AUTHORS

He et al: A common genetic mechanism underlying susceptibility to posttraumatic stress disorder--A potential approach with combination of laser-assisted microdissection and microarray techniques

This is an article can be clarified either as a review with a much narrowed topic, or an argument for a research proposal (with the first sentence such as "We hypothesize that susceptibility...". If this is a review paper, authors should extensively research literature and summarize the most recent development in the field, thereby giving audiences a brief but updated view of PTSD research. On the other hand, if this is a research proposal, "a potential approach with LAM/LCM technique and microarray..." seems not working very well even in author's laboratory as stated in the paper that "In order to maximize the likelihood of obtaining quality data, the quality of the RNA obtained using the LAM/LCM technique should be carefully examined...". Therefore, a backup approach should be in place.