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ESPS Peer-review Report

Name of Journal: World Journal of Psychiatry

ESPS Manuscript NO: 4372

Title: CURRENT STATUS OF BRAIN-DERIVED NEUROTROPHIC FACTOR AS A POTENTIAL BIOMARKER OF COGNITIVE RECOVERY IN SCHIZOPHRENIA

Reviewer code: 02460731

Science editor: Song, Xiu-Xia

Date sent for review: 2013-06-28 17:52

Date reviewed: 2013-07-04 15:12

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> [Y] Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> [Y] Grade B: minor language polishing	<input type="checkbox"/> [] Existed	<input type="checkbox"/> [] High priority for publication
<input checked="" type="checkbox"/> [Y] 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

1. The work can improve, in my opinion, if in some sections offered facts and comments of these data. That is, multiple jobs and cited their input is solved using expressions such as "provide empirical evidence" without further clarification. Well, in my opinion such claims and examples, in many cases would be better if the reader followed by some minimal data were added to clarify the meaning of the impact or intensity thereof. I do not say that in this case approach the issue from the proposals of the meta-analysis techniques as this would go beyond the scope of work but if approached. If the objective is to analyze the possibility of a relationship between cognitive activity BDNF and in patients diagnosed with schizophrenia, this possibility should be seated in the estimate of effect between the two entities so that this effect is an indicator of intensity and magnitude of relationship. None of these data are available and therefore is not feasible to establish the contributions of the works cited if not consulting them directly. 2. - Also the issue of cognitive activity neglects clearly. Not adequately explained to understand the neither authors nor cognitive recovery as operationalized in cognitive performance measurement. These ends are clearly outside the analysis. 3. - Should the document be revised as we speak, for example, cognitive recovery in schizophrenia when it should be displayed as cognitive recovery in patients diagnosed with schizophrenia. Speaking of ... recovery in shizophrenia ... violates the ethical standards laid.



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Title: CURRENT STATUS OF BRAIN-DERIVED NEUROTROPHIC FACTOR AS A POTENTIAL BIOMARKER OF COGNITIVE RECOVERY IN SCHIZOPHRENIA

Reviewer code: 00211905

Science editor: Song, Xiu-Xia

Date sent for review: 2013-06-28 17:52

Date reviewed: 2013-07-09 12:43

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 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

R. Penades et al. described a potential of BDNF as a biomarker on the cognitive function in schizophrenia. The ability of BDNF on neurotransmission and/or synaptic plasticity related to the schizophrenia was shown. Furthermore, authors mentioned perspective and problem of BDNF as a biomarker. This paper is timely and informative, however, required major revision before publication.

- 1) There are critical mistakes on words. For example, BDND (page 4), BDNF (page 5, 6), and DBNF (page 11). The reference number (page 7) is wrong.
- 2) The current status of other biomarkers for schizophrenia should be included in the Introduction section to lead deeper discussion, and making BDNF being special as potential biomarker.
- 3) Author only discussed the relationship between BDNF and schizophrenia in dopaminergic system. To make the paper being informative, evidences on both glutamatergic and serotonergic systems should be included.
- 4) Author mentioned serum or blood levels of BDNF in various psychiatric disorders in page 5. It may be meaning that BDNF is not specific marker for schizophrenia and cognition. Therefore, to demonstrate BDNF as useful biomarker for schizophrenia, author should add detailed description about the specificity in schizophrenia BDNF, comparing with that in other mental disorders.
- 5) Table 1 is not suitable for this review. I wonder why author just listed BDNF ability on glutamatergic system.
- 6) Author had better provide a figure which illustrating the outline of the BDNF function in nervous system and usefulness as a marker, to make it being much understandable for readers.