

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Pharmacology

ESPS manuscript NO: 22731

Title: Allosteric modulation of cholinergic system: Potential approach to treating cognitive deficits of schizophrenia

Reviewer's code: 02486704

Reviewer's country: China

Science editor: Fang-Fang Ji

Date sent for review: 2015-09-22 18:50

Date reviewed: 2015-10-09 20:03

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<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"/> 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		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

This review aims to explain the roles of the cholinergic system, particularly the muscarinic M1 receptor, in cognitive deficits of schizophrenia and discuss a promising therapy, allosteric ligands, for addressing cognitive impairment in schizophrenia. I have a few comments. 1. Allosteric modulators of cholinergic system receptors were well reviewed in this paper, and it is better if the authors can mention "allosteric modulators" in the title. 2. The overall structure and the logic of the manuscript are somewhat unclear. The authors discussed four hypotheses associated with the mechanism of schizophrenia lengthily. 3. "The cholinergic hypothesis" and "OVERVIEW OF THE CHOLINERGIC SYSTEM" may be incorporated. 4. The authors focused too much on the pathophysiology of schizophrenia, but the discussion for the cognitive deficits of schizophrenia was insufficient. 5. In the part of CONCLUDING REMARKS, the authors only summarized allosteric modulators of muscarinic M1 receptors is a promising therapy to redress cognitive impairment in schizophrenia, ignoring the roles of the cholinergic system in cognitive deficits of schizophrenia. 6. The legend of figure 2 is lack.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Pharmacology

ESPS manuscript NO: 22731

Title: Allosteric modulation of cholinergic system: Potential approach to treating cognitive deficits of schizophrenia

Reviewer's code: 02445298

Reviewer's country: Slovenia

Science editor: Fang-Fang Ji

Date sent for review: 2015-09-22 18:50

Date reviewed: 2015-10-10 20:40

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" 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 checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The article "Pharmacological modulation of cholinergic system: Potential approach to treating cognitive deficits of schizophrenia" I can recommend for a publication in WJP. The manuscript was revised according to reviewer comments. I do not have special remarks. The authors should only correct some technical faults – capitals of drugs, some grammatical faults..

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Pharmacology

ESPS manuscript NO: 22731

Title: Allosteric modulation of cholinergic system: Potential approach to treating cognitive deficits of schizophrenia

Reviewer's code: 02446061

Reviewer's country: Mexico

Science editor: Fang-Fang Ji

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

COMMENTS TO AUTHORS

Dear author(s): Your work is attractive and the reviewing of the topics approached is in 'increasing-interest' today. However, some points should be improved in order to have a adequate version of this manuscript. a) The entire manuscript should be revised in order to avoid typing errors. (catacholaminergic, glutamateric, etc.) b) Please check the use of 'involve' instead of 'implicate'. c) I suggest you for checking the content of: Christopoulos A, Changeux J-P, Catterall WA, Fabbro D, Burris TP, Cidlowski JA, Olsen RW, Peters JA, Neubig RR, Pin J-P, Sexton PM, Kenakin TP, Ehlert FJ, Spedding M, Langmead CJ. (2014) International Union of Basic and Clinical Pharmacology. XC. Multisite Pharmacology: Recommendations for the Nomenclature of Receptor Allosterism and Allosteric Ligands. Pharmacol Rev. 66: 918-947. [PMID:25026896] in order to express in adequate form the 'allosteric/allosterism definitions' d) The aim of pharmacologist-developers and medicinal chemists is target a receptor subtype in highly selective form. There are not specific drugs, yet. But there are advances for designing new molecules with advantageous profile. In this regard, please consider these two articles to be included in your review (Insights into the structural



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biology of GPCRs impacts drug design for CNS neurodegenerative processes. Farfán-García Eunice D., Trujillo-Ferrara José G., Castillo-Hernández María C., Guerra-Araiza Christian H., Soriano-Ursúa Marvin A. Neural Regeneration Research, 2013; 8(24):2290-302 AND Allosteric modulators of GPCRs: a novel approach for the treatment of CNS disorders. Conn PJ, Christopoulos A, Lindsley CW. Nat Rev Drug Discov. 2009 Jan;8(1):41-54. All the best, Reviewer