

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 21403

Title: ROLES OF LOCALLY RELEASED SMALL (NON-PROTEIN) MOLECULES IN THE DEVELOPMENT OF REGIONAL SPECIFICITY OF SPINAL AND MEDULLARY DORSAL HORN NEURONS

Reviewer's code: 02446219

Reviewer's country: Iran

Science editor: Xue-Mei Gong

Date sent for review: 2015-07-14 12:25

Date reviewed: 2015-10-04 02:26

| 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

In this review article, the author has summarized the roles of small molecules in the development of trigeminal and spinal dorsal horn. This is a very well-written review. It is very informative to readers working in the field, and very instructive to readers working outside of the field.

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Reviewer's code: 02616129

Reviewer's country: Taiwan

Science editor: Xue-Mei Gong

Date sent for review: 2015-07-14 12:25

Date reviewed: 2015-11-03 14:35

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | 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 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

Recently, even embryonic stem cells and artificial stem cells may be functionally equivalent. However, I agree that understanding the region-specific regulation of neurons in the CNS is still one of the biggest challenges in the research field of neuroscience. In this review, authors focused on recent data dealing with the regional specificity involved in the development of neurons in subnucleus caudalis (Vc) and spinal dorsal horn (SDH). They also highlight the agents of ninhydrin-reacting small molecules in fraction NF1 or NF2 isolated from conditioned medium may be useful not only for investigating region-specific regulation in areas of the CNS such as Vc and SDH, but also for developing new approaches to diagnose and treat neurodegenerative diseases, pain and sensorimotor dysfunction. The review work appears innovative and reasonable which deserve to be published in this journal.