

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Biology &amp; Biotechnology</a>
Manuscript Number:	Ms_JABB_130363
Title of the Manuscript:	Synthesis, characterization, herbicidal activities and in silico studies of some highly functionalized Oxazolone derivatives
Type of the Article	Original Research Article

#### PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This study on some highly functionalized Oxazolone derivatives is valuable in the field of pesticide chemistry and organic chemistry. This is also applicable in agriculture since the compounds could be commercialized and be incorporated as active ingredient. The study covers various aspects demonstrating the identity of the compounds and their herbicidal potential.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract is comprehensive, Yet, add the specific enzymes targeted by oxazolone herbicides.	Oxazolone herbicides are known to inhibit protoporphyrinogen oxidase and it is mentioned in the rev. manuscript.
Is the manuscript scientifically, correct? Please write here.	Italics words properly such as in vitro, in silico, scientific names, etc. Specify the version of ChemDraw software used. In herbicidal activity assay, specify the concentration of Pendimethalin solution used. 1H-NMR data should be included in Results and Discussion part, not methodology part. Include the IR frequencies of C-NO <sub>2</sub> group identified in NHA, and C-OCH <sub>3</sub> group found in MH in the discussion.  Show error bars in figures 1 to 6 (herbicidal potential). Connect <i>in-silico</i> ADME and toxicity studies to the actual organic structures of the compounds tested.  Recheck the format and punctuations of the references cited.	<b>The corrections have been made in the revised manuscript.</b> ChemDraw 8.0 version is used and is mentioned the rev. manuscript. Pendimethalin is used at 25, 50, 75 and 100 ppm and is mentioned in the table. The 1H NMR data have been included in the rev manuscript. The IR frequencies are mentioned in Rev manuscript.  The error bars have been shown in the rev manuscript. The in-silico ADME and toxicity studies have been connected to the structures of the compounds in the rev manuscript.  The references have been corrected in the rev manuscript.
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Include more recent literature related to the study:  <a href="#">Aqueous extract from leaves of Ludwigia hyssopifolia (G. Don) Exell as potential bioherbicide - Mangao - 2020 - Journal of the Science of Food and Agriculture - Wiley Online Library</a>  <a href="#">Design, In Silico Studies, Synthesis, Characterization, and Biological Activities of Novel Substituted Oxazole Derivatives   Russian Journal of Bioorganic Chemistry</a>  <a href="https://pubs.acs.org/doi/10.1021/acs.jpcb.1c08056">https://pubs.acs.org/doi/10.1021/acs.jpcb.1c08056</a>  <a href="https://pubs.rsc.org/en/content/articlehtml/2020/ra/d0ra02230f">https://pubs.rsc.org/en/content/articlehtml/2020/ra/d0ra02230f</a>	The literatures related to the study have been added in the rev manuscript.

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	Highlight the differences of your study with these recent literature studies.	
Is the language/English quality of the article suitable for scholarly communications?	Yes	
Optional/General comments	Incorporate the suggestions mentioned above.	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	