



Journal Name:	<u>Journal of Agriculture and Ecology Research International</u>
Manuscript Number:	Ms_JAERI_22186
Title of the Manuscript:	Glyphosate influence on the soil microorganism sensibility, physiological parameters of the plant, isoflavones and residues in the seeds and soil
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (<i>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</i>)
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<u>Compulsory</u> REVISION comments	The manuscript describes the study on the safety of glyphosate herbicide usage in the soybean field cultivation. For that the authors measure the soil microbial biomass and respiration, plant chlorophyll, nitrogen, ureides, nitrates and carotenoid, as well as isoflavone, glyphosate and aminomethylphosphonic acid (AMPA) content in the seeds; all with and without the herbicide application. They claim there is increment in seeds yield by using the herbicide and also higher levels of microbial biomass and basal respiration. In addition, they say that the other parameters analysed were not affected by the herbicide, while the glyphosate residues observed in the seeds were above the levels permitted by the Brazilian law. This is a very interesting and important study, which concerns not only the farmer but also all soybean consumers. The authors rely on important parameters to get their conclusions, but unfortunately not all results showed in the tables agree with the statements in the text. For instance, in lines 216 and 217 the authors claimed that “higher levels of carotenoids were obtained by treatments with glyphosate”, but the statistical analysis in the table 2 shows an “a” for treated and untreated samples of BRS 243 RR. Likewise, other parameters analysed show misplaced conclusions. There with, the authors must double-check the results and rephrase the statements in the results and discussion sections when necessary. Also in discussion, and in the abstract and conclusion sections, I believe the authors should emphasize that although the amount of glyphosate observed in the soybean seeds was higher then the amount allowed by the Brazilian law, it is still lower than the value practiced in USA and Europe. Finally, many grammatical and formatting errors are observed throughout the text, so I recommend a careful rereading and rewriting of the whole manuscript, including tables. Other comments can be found in the revised manuscript file.	Thank you for review, I agree with recommendations and I corrected the manuscript. I put yellow highlight in the manuscript. I rephrased a few sentences in the Results and Discussion as requested.
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<u>Minor</u> REVISION comments	There are variations in some abbreviations; and words in Portuguese.	Ok, I did fix.
<u>Optional/General</u> comments		