



## SDI FINAL EVALUATION FORM 1.1

### PART 1:

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| Journal Name:            | <a href="#">American Journal of Experimental Agriculture</a>                                                                 |
| Manuscript Number:       | 2014_AJEA_15862                                                                                                              |
| Title of the Manuscript: | The influence of static strong magnetic field on the germination and growth of garden cress ( <i>Lepidium sativum</i> , L.). |
| Type of Article:         | Short Research Article                                                                                                       |

### PART 2:

| FINAL EVALUATOR'S comments on revised paper (if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Authors' response to final evaluator's comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p>As I see, my recommendations have not been taken into account. I recommended:<br/>The method mostly evaluates the development of plant, not germination. The use of magnetic field for plant stimulation as well as the use of physical parameters for its control could be found in:</p> <p>1. Physical factors for plant growth stimulation improve food quality, In: <i>Food Production – Approaches, Challenges and Tasks</i>, 2012. Available from: <a href="http://www.intechopen.com/articles/show/title/physical-factors-for-plant-growth-stimulation-improve-food-quality">http://www.intechopen.com/articles/show/title/physical-factors-for-plant-growth-stimulation-improve-food-quality</a> - about measurement of germination</p> <p>2. Influence of stationary magnetic field on the absorption spectra of some energy plants. <i>J. Environ. Prot. Ecol.</i> 2009, 10, 1032–1036. – About the possibilities of use of spectral measurement for revealing influence of magnetic field.</p> | <ol style="list-style-type: none"> <li>1. In several places in text germination was discarded – as conclusion about germination, as well as germination was omitted in Aim of the study (abstract and text body). Unfortunately germination is still in the title – it could be erase, but it is also justified with the data added previously to Result/discussion - In both phases of this study, seeds of <i>Lepidium sativum</i> began to sprout on the first day and no differences were observed in this matter between studied and control groups. There were also no significant differences in the green of field (pictures) between magnetized groups and control groups within first 2 days.</li> <li>2. I have read your interesting papers about plants and magnetic field. I have found also acces to the second mentioned paper (<a href="http://www.bjp-bg.com/papers/bjp2002_3-4_179-183.pdf">http://www.bjp-bg.com/papers/bjp2002_3-4_179-183.pdf</a>). Bulgaria is a beautiful country – I was four times there. Beautiful sea, nice people and good food – my favorite are fresh peaches and caca (small grilled fishes) – not together, of course.</li> </ol> <p>Unfortunately, I didn't know your papers at the basic stage of our study. However it has no impact on our study. The conception of our experiment based on measurement of “colony” growth as well as calculation of green (method “densitometry-like”) <u>could not</u> be used or joined to our protocol. Length of stems and roots require – as I stated in my reply before - to bring out a few plants (in your experiment it is 50 plants as I remember) every day. It would strongly influence ALL measurements established in our study. I have no doubt that indicated there methodology is better, but we have done our study in different way.</p> |