



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
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 the 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>)



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PART 1: Review Comments

	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)
Compulsory REVISION comments	Submitted manuscript is very interesting from historical point of view. A valuable retrospection of the application of magnetic field, mostly in medicine, is presented. From agricultural point of view the presented work is rather insufficient. The aim is to "evaluate the effect of... magnetic field...on the germination". In fact there are not any results on germination presented. The method used for estimation of germination and growth is not officially recognised. It is interesting from the point of view of applied agro physics , but it is not clear if the green component used as characteristic of germination and plant growth is defined from reflection spectra (this is objective method) or visually (subjective). Besides, the method mostly evaluates the development of plant, not germination. Some useful references could be found in: 1. Physical factors for plant growth stimulation improve food quality, In: <i>Food Production – Approaches, Challenges and Tasks</i>, 2012. Available from: http://www.intechopen.com/articles/show/title/physical-factors-for-plant-growth-stimulation-improve-food-quality - about measurement of germination 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. Recommendation: To change "the aim of work is the to promote new method for investigation of plant development" , but in this case it is necessary	I am not quite sure, but probably an important information from cover letter was not distributed and affiliations were hidden. This work was done by students from Students of Pharmacy Research Society (under my supervision). Typically to young people, they presented non-standard thinking. Therefore procedures in this work are non-standard, as measurements and use of specific software designed for photography. In my opinion it is one of valuable aspects of this work, together with results, of course. I agree that historical and medical background was very interesting. However, unfortunately 3 remaining reviewers suggest to cut this part. Therefore paper was redesigned as <u>short original article</u>. Due to graduation of one member of students research society it would be difficult or even impossible.



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	to compare obtained results by the new methods with standard ones.	
<u>Minor</u> REVISION comments	Some orthographical notices : page 2, row 1 “is dated” Page 2, row 7 – missing dot.	corrected
<u>Optional/General</u> comments		