



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	In general, the manuscript is about effect of stable magnetic field produced by a neodymium-iron-boron magnets on the germination and growth of garden cress (<i>Lepidium sativum</i> L) during the entire period of its vegetation. The manuscript is recommended to be accepted with the minor correction. Kindly consider the following comments: (i) Abstract should highlight the important of magnetic study to the germination and growth of the plant (ii) Introduction should provide a clear drawing mechanism on the effect of magnetism on plants. (iii) Morphological analysis of growth plant should be provided to support the obtained results (iv) Conclusion should answers the main objectives of study and supported with the obtained results	Thank you for this kind review. 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. The paper was redesigned as short original article. Therefore some detailed info from background are discarded.
Minor REVISION comments	Abstract: (i) The novelty and research gap of study should be highlighted at the initial part of abstract followed by the research motivation. (ii) The important of stable magnetic field on the germination and growth of plants should be clearly written (iii) The magnetic properties produced by neodymium magnet should be clearly indicated (iv) The results should discuss till 25 days and provide a significant fact why there is no impact on germination of garden cress after introduction of the magnetic fields (v) The conclusion should come out the list of future works Introduction (i) The current studies on effect on magnetic fields to plants should be included (references from 2015 to 2010)	The suggested construction of abstract in science domain journals starts from Aim of the study. Improved Improved It is in opposite to comment above



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	(ii) Please provide a complete reference for Reinke et al. (iii) Please clarify this statement...."there is a universal attraction or what some people call a world-soul, it is life, as fire and ethereal as light itself. All matter is destitute of action, except when this life-force, magnetic force, permeates it.." Please use your own words to describe the respective statement (iv) Please discuss effect on different magnetic fields (static, pulsed), different intensities and schedule affect the germination and growth of different plants (v) The comparative study on effect of stable magnetic field to different types of garden plant should be summarized in a single table (vi) Please provide some literature on the properties of magnetic fields generated by neodymium-iron-boron magnets Results and discussion (i) Author should discuss in detail on reason of no significant differences occurred between magnetized and control groups within 2 days of experimental works (ii) Morphological analysis should be provided to support the obtained results (iii) The series of photos from day 1 till day 25 should be provided as a comparative images between magnetized and control plant (iv) Standard deviation should be provided in Figure 3 (v) Label should be provided in Figure 4 (vi) Please provide references for the following statements: • The differences in growth between cultivation on north and south pole of strong magnets could be related to the orientation of magnets in regard to the Earth's magnetic field • The south pole on the top oriented magnets had synergistic effect with magnetic fields of the planets.... • The enhancement of Earth's magnetic field....	Deleted, as suggested by other reviewers As it was stated above, paper was designed as short research article, therefore these points were omitted. There is stated: <i>After 3 days, the field of growth was visible, differentiated and measureable</i> It seems clear??? This point requires completely new experiment. Every day one??? (due to statistical reasons it should be more than one) plant should be taken from the sprout to measure exactly growth and root size. In this case measuring of growth area would be burden with an error. As it was stated above, paper was designed as short research article, therefore photo was omitted. SD is very tiny – the lowest value is 0,5 mm and the highest is 7 mm, Mainly SD is 2-3 mm. It is impossible to indicate these small values on the figure. These info are related to the results of our experiment.
Optional/General comments	The manuscript should be grammatically checked	Checked and corrected