Review Form 1.7

Journal Name:	**Journal of Experimental Agriculture International**
Manuscript Number:	**Ms_JEAI_117470**
Title of the Manuscript:	**Photoregulation of seed germination : A review**
Type of the Article	**Review Article**

Review Form 1.7

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 **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	1. Manuscript "Photoregulation of seed germination: A review". This article provides an overview of the influence of light on the seed germination process. The article explains that the seed germination process is a process regulated by sensory organs and signaling pathways. Sensory cells include phytochromes, cryptochromes and phototropins, which are the main sensors in the seed that detect and transmit light signals. The regulation of seed germination by light is a complex process regulated by a series of photoreceptors and signaling pathways. Photoreceptors, including phytochromes, cryptochromes and phototropins, are the main sensors in seeds that detect and transmit light signals. These photoreceptors regulate the expression of various sets of genes, leading to the activation or suppression of germination-related activities. The article explains the mechanism of action of phytochromes, cryptochromes and phototropin during seed germination. This research aims to enhance agricultural practices and devise strategies to maximize crop yields. 2. Article title "Photoregulation of seed germination: A review". The title of the article is clear and concise, showing the goal, content of the article and achieved results. 3. The abstract of the article presents complete information about the effects of light on seed germination. The summary of the article conveys complete information about light regulation during seed germination, which is a complex process regulated by photoreceptors and transmission signals. Photoreceptors include phytochromes, cryptochromes and phototropins, which are the main sensors in seeds that detect and transmit light signals. These photoreceptors regulate the expression of various sets of genes, leading to activation or suppression of quiescence-related activities. The summary shows that Phytochromes disrupt seed dormancy, provide endosperm weakening, and mobilize reserves during dormancy. Cryptochromes, another type of photoreceptor, are primarily involved in blue light perception and have been found to influence seed incubation through multiple processes, including regulation of internal pathways. Hormones 4. The article has a structure suitable for a scientific article. The subsections are appropriate to each research content. Categories and subsections are arranged scientifically and clearly. Tables are clear, complete with appropriate scientific symbols. Check the numbering of sections and subsections from 3 to 11 5. Article "Photoregulation of seed germination: A review". The article has scientific value, the article has an overview of the effects of light on the seed germination process. This article presents the scientific basis for the impact of light in the germination process. The article also shows the possibility of applying practices to increase crop productivity to ensure food security. 6. The article cites many documents and the cited documents are all related to the content of the article. References are arranged scientifically. However, it is necessary to add some citations to the reference materials (indicated in the article) and unify the citation style	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	The article is written in English and uses technical words appropriate to the research field.	

Review Form 1.7

Optional/General comments	Article “Photoregulation of seed germination: A review”. The article uses a lot of valuable scientific information to explain the influence of light on the germination process of seeds, helping to cultivate high-yield crops and save seeds in the process. culture. Photoregulation of seed germination is an important component of plant development and it involves the use of light, as an essential environmental signal that influences seed germination. Use of different wavelengths of light, red (R) and far-red (FR) light, is used to regulate seed germination through phytochrome and is used in environmental signals to promote germination process. Check citations and references	

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)*	

Reviewer Details:

Name:	**Phạm The Hue**
Department, University & Country	**Tay Nguyen University, Vietnam**