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| Book Name: | [Current Research Progress in Agricultural Sciences](https://www.bookpi.org/bookstore/product/current-research-progress-in-agricultural-sciences-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4651** |
| Title of the Manuscript: | **Ultrastructural Studies of Embryo Abortion in Buckwheat (Fagopyrum esculentum) as a Heat-stress** |
| Type of the Article | **BOOK CHAPTER** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Cytologia 73(4): 371–379, 2008.**

[**https://doi.org/10.1508/cytologia.73.371**](https://doi.org/10.1508/cytologia.73.371)

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **Buckwheat is grown mainly as a cereal crop. It is the only non-cereal crop in the cereal group. Buckwheat is characterized by a high content of digestible proteins, carbohydrates and minerals, especially salts of phosphorus, calcium and iron. Buckwheat protein is dominated by easily soluble globulins and glutamines, so it is better digested and more nutritious than the protein of cereal crops. The protein is complete in amino acid composition. Buckwheat grain also contains various organic acids (citric, malic, maleic, oxalic), which contribute to better digestion of food. The grain contains such important vitamins as B1, B2, B6, P (rutin), which determine the therapeutic and dietary value of buckwheat.**  **Since buckwheat is grown in hot climate countries, this topic is relevant and promising, stress factors affect plant fertilization and subsequently have an impact on seed yield and quality.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract does not indicate the location of the research (was it in the field or in a laboratory)** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **From the point of view of physiological research - yes. There are enough photos with studies of the nucleus and cytoplasm and the process of changing the nucleus during a stressful situation.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **The list of references is outdated. References should be made to literature published in the last 10 years.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **Yes** |  |
| Optional/General comments | **For scientific research, it is appropriate to use several buckwheat varieties from different breeding institutions, which allows for comparisons. Also, better results can be obtained if results are compared over years.** |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* |  |

**Reviewer details:**

**Svitlana Shakalii, Poltava State Agrarian University, Ukraine**