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| Journal Name: | [**International Journal of Environment and Climate Change**](https://journalijecc.com/index.php/IJECC) |
| Manuscript Number: | **Ms\_IJECC\_143027** |
| Title of the Manuscript: | **Effect of heavy metal Stress on seed Germination and Relative Water Content in Tomato Genotypes** |
| Type of the Article |  |

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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** (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.** | Heavy metals in the environment can significantly impact seed germination and seedling growth, particularly in tomato plants. These metals, even at low concentrations, can disrupt various physiological and biochemical processes within the plant, leading to reduced germination rates, stunted growth, and even cell death. High concentrations can be toxic,  causing significant damage and potentially leading to plant death. | suggestion added into the manuscript |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | "Impact of Heavy Metals on Seed Germination and Seedling Growth of Tomato (Solanum lycopersicum L.)  Or **Heavy Metal Stress and Its Impact on** [**Tomato Seedling**](https://www.google.com/search?sca_esv=63ad467223b51100&cs=0&sxsrf=AE3TifNsD860J3QjjZ1A-b_hXRhzCCTNSQ%3A1755629754251&q=Tomato%2BSeedling&sa=X&ved=2ahUKEwjDt7u-xpePAxVT8bsIHbjHLQYQxccNegQIGxAB&mstk=AUtExfCCy6gG9dutd9VhxFwnsZ_Hoh6brkGvDNOkpihhgOCsV-G9thN7hoGkgMUzs1Uvz0PvyBFUl0pRuhyHrKZ8KT54AlbKpvKw1dEZHFTwZ3N1_AHLPknCvOL5xU3vnkphjaNAjUMdh-ZUAPoaOHjAa-7jzVXv5s3fL7uxJMqK48PSNRpcmgcO3riZxCHYlNYxg0qjYu6o3nKRieiTyouhAjlZnB_hnPpAWSW1NxH0GWX1Qj2N_nFUi_nstJdOfqpPNLsmw1HCK3taGtEmfruk3sZJ&csui=3) **Development** | Incorporated |
| **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.** | **It would have been better (in my opinion) to test more than one heavy metal and compare the effect and its relationship to the properties of that metal, thus further exploring the impact of lead.** | This experiment focusing on how effect of heavy metal l(ead )is concentration dependent and impact on genotype of tomato. |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript is scientifically correct. The topic is very important and has been addressed previously in similar or close research.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **References are acceptable and there are previous studies that can be used.** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes. The language is clear and scientifically understandable.** |  |
| **Optional/General** comments | **I suggest that the student discuss the effect of heavy metals with different salinity levels in the water so that we can understand the effect of salt in the water on reducing the effect of these metals.** | This experiment was conducted with different levels of lead stress to study their impact on tomato genotypes. The results show that the impact is concentration-dependent. |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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)* | NO ISSUE. |