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| Book Name: | [**Research Perspective on Biological Science**](https://www.bookpi.org/bookstore/product/research-perspective-on-biological-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4933** |
| Title of the Manuscript:  | **IDENTIFICATION OF THE SPECIFIC GENES OF ISOCITRATE LYASE FROM PLANT AMARANTHUS CAUDATUS L** |
| 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.**

**Plant Archives, 19(1): 1067-1070, 2019.**

**Available:** [**https://www.plantarchives.org/List%2019-1.html**](https://www.plantarchives.org/List%2019-1.html)

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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.** | **Study identifies two isocitrate lyase (ICL) genes (*icl₁* and *icl₂*) in *Amaranthus caudatus* and develops specific primers for their detection.****Homology comparisons with *Arabidopsis thaliana* (53% for *ICL₁*, 36% for *ICL₂*) provide evolutionary insights.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **"Identification and Characterization of Isocitrate Lyase Genes in Amaranthus caudatus L."** |  |
| 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. | **Findings in relation to the broader plant metabolic pathways** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Discussion on the comparison between the ICL genes of *Amaranthus* and other species, particularly in terms of evolutionary significance** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** |  |  |
| Is the language/English quality of the article suitable for scholarly communications? |  |  |
| Optional/General comments | * **Limited discussion of how this work advances existing knowledge. While homologous ICL genes are well-studied in *Arabidopsis*, identifying them in *Amaranthus* is not sufficiently justified.**
* **No comparison with other *Amaranthus* species or related crops to highlight unique findings.**
* **The primers developed are presented as a key outcome, but their (e.g., specificity for *A. caudatus*) is not clearly demonstrated against prior studies.**
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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?**  |  |  |

**Reviewers:**

**Shiwa Chaubey, India**