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| Book Name: | [**Food Science and Agriculture: Research Highlights**](https://www.bookpi.org/bookstore/product/food-science-and-agriculture-research-highlights-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4386** |
| Title of the Manuscript:  | **Comparing Chromosomes Between Cucumber (Cucumis sativus L.) and Melon (C. melo L.) Based on Amino Acids Analysis** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments |
|  | Reviewer’s comment | 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.** | **The study aims to investigate the chromosomal similarities and differences between cucumber and melon using amino acid analysis as a genomic marker. This is an intriguing approach as it bridges the fields of biochemistry and cytogenetics, offering fresh insights into the evolutionary relationship between these closely related cucurbitaceous crops. The use of amino acid analysis in comparative genomics is novel and potentially valuable for uncovering chromosomal differences that may not be visible using conventional methods. The study provides detailed amino acid profiles and highlights key similarities and variations in protein-coding regions, which help understand evolutionary divergence. Understanding chromosomal and genetic differences between these species can aid in breeding programs and crop improvement efforts.** |  |
| **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.  | Yes |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **Yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | Correction required: In material and methods give proper citation for NCBI. Don’t put unnecessary link in the paper.Try to remove citations from conclusion. Overall the study makes a significant contribution to understanding chromosomal and genetic variations between cucumber and melon. By incorporating the suggested improvements, the research can offer more robust and actionable insights for the scientific and agricultural community. |  |

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| **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)* |  |

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| **Reviewer Details:** |
| Name: | **Anjali Kumari Jha** |
| Department, University & Country | **Uttar Banga Krishi Viswavidyalaya, India** |