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| Book Name: | [Contemporary Research and Perspectives in Biological Science](https://www.bookpi.org/bookstore/product/contemporary-research-and-perspectives-in-biological-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4230** |
| Title of the Manuscript:  | **Phytochemical characterization and antioxidant activity in the extracts of folklore medicinal plant, Citrullus colocynthis (L.) Schard.** |
| 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 minimumof 3-4 sentences may be required for this part.** | **Importance of the Manuscript****The manuscript explores Citrullus colocynthis, a plant with significant ethnopharmacological applications, providing valuable insights into its phytochemical composition and antioxidant potential. This research contributes to the scientific community by:****1. Highlighting the bioactive compounds present in a plant with widespread traditional medicinal use.****2. Demonstrating advanced methods like thin-layer chromatography (TLC) and DPPH radical scavenging for validating antioxidant activities.****3. Offering foundational data for further exploration of the plant's therapeutic potential, particularly in the context of sustainable and alternative medicine.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Title Suitability****The title is appropriate and precise, accurately reflecting the content of the manuscript. No changes are suggested.** |  |
| 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. | **Abstract****The abstract is comprehensive, but the inclusion of more quantified data on phenolic content and IC50 values for clarity could enhance its impact.****Suggested Addition: "Include the IC50 values and phenolic content ranges explicitly to provide readers a quick summary of the results."** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Scientific Accuracy****The manuscript is scientifically robust, with detailed methodologies and results that align with the objectives. However, more comparative data from other studies could strengthen the findings.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **References****The references are adequate and relevant, covering studies on similar topics. However, a few recent studies (post-2020) on antioxidant analysis and TLC profiling might further enhance the discussion.****Suggested Additions:****1. Recent antioxidant activity studies on Citrullus colocynthis or similar species.****2. Comparative phytochemical analyses conducted in different geographic regions.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **Language and English Quality****The language is clear and scholarly, suitable for publication. However, minor grammatical refinements are recommended for smoother readability.** |  |
| Optional/Generalcomments | **The manuscript is well-prepared, but the following revisions are suggested:****1. Include IC50 values and total phenolic content ranges in the abstract.****2. Add 2-3 recent references for enhanced context.****3. Refine language for grammatical precision.** |  |

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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: | **Montadher Ali Mahdi** |
| Department, University & Country | **Leading National Center for Cancer Research, Univercity of Baghdad, Iraq** |