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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\_4664** |
| Title of the Manuscript: | **Molecular characterization of Algerian date palm cultivars using circular plasmid-like DNAs** |
| 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.**

**Indian J. Genet., 77(1): 170-172 (2017).**

**DOI: 10.5958/0975-6906.2017.00024.4**

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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.** | This manuscript provides valuable insights into the molecular mechanisms underlying Bayoud disease resistance in Algerian date palm cultivars. By utilizing circular plasmid-like DNAs as molecular markers, the study offers a novel approach for identifying resistant and susceptible genotypes, which can be instrumental in breeding programs aimed at developing disease-resistant date palm varieties. The findings contribute to the broader understanding of plant-pathogen interactions and genetic resistance, potentially aiding in the preservation of economically important date palm crops. Furthermore, the research highlights the need for further genomic and functional studies to fully elucidate the genetic factors governing resistance, thereby advancing plant biotechnology and sustainable agriculture. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Molecular Identification of Bayoud Disease Resistance in Algerian Date Palm Cultivars using Plasmid-Like DNAs |  |
| 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 effectively summarizes the study’s objective, methodology, and key findings. However, some improvements can be made to enhance its clarity and comprehensiveness:  The abstract could also be slightly refined to avoid repetition, ensuring a more fluid and engaging summary.  Conclude with a sentence on how these findings can contribute to breeding programs and future disease management strategies. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The study follows a logical methodology, using plasmid-like DNAs as molecular markers and employing PCR analysis to distinguish resistant and susceptible cultivars. The findings align with prior research, reinforcing the reliability of the conclusions. Complementary methods, such as sequencing or gene expression analysis, could strengthen the findings. Statistical validation of the PCR findings (e.g., replicates, error margins) would improve robustness. A more detailed comparison with similar studies on date palm resistance mechanisms could enhance the scientific depth of the discussion. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references used in the manuscript include relevant studies on Bayoud disease, molecular markers, and date palm genetics, citing key works from the 1990s and early 2000s. While these references provide a strong foundation, some are quite dated, and incorporating more recent studies (from the last decade) would enhance the manuscript’s scientific relevance.  Update with Recent Studies (2015–2024) |  |
| Is the language/English quality of the article suitable for scholarly communications? | Some sentences are overly complex or lack clarity (e.g., in the abstract and discussion). Simplifying sentence structures would improve readability.  Ensure uniformity in tenses. |  |
| Optional/General comments | Structure: Some sections, such as "Materials and Methods," could be expanded with more details on laboratory procedures.  Results Interpretation: While the PCR findings are well-explained, a comparative analysis with similar studies could enhance the scientific value of the article.  Scientific References: Incorporating more recent studies would provide a broader and more updated perspective.  Language and Coherence: Some parts require linguistic refinement and better cohesion in presenting scientific concepts. |  |

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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:**

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