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| Book Name: | [Pharmaceutical Science: New Insights and Developments](https://www.bookpi.org/bookstore/product/pharmaceutical-science-new-insights-and-developments-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4496** |
| Title of the Manuscript:  | **Strategies for Studying Antiviral Activity of Natural Products: From Screening to Mechanism Elucidation** |
| Type of the Article | **BOOK CHAPTER** |

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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 article is valuable for the scientific community because it provides a review on various techniques to study antiviral activity of different natural products. It also highlights the potential of natural products in the combatment of drug resistant viral threats. It also discloses the relevance to address global health challenges.  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes, its title is suitbale and captures the focus of the article. |  |
| 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. | There are a few areas where a little adjustment would enhance the clarity of the abstract.1. The article mentions effects of natural products on different stages of viruses but it could also highlight theis potential to overcome drug resistance. For example; this chapter explore the potential of natural products to destroy different stages of viral cycle that would offer a promise to combat drug resistance and enhance therapeutic results.
2. The different bioinformatics approaches are mentioned and their specific contributions line the identification of potential inhibitors and understanding of complex mechanisms could be elaborated.
3. The abstract could end with a summarizing sentence that describes the impact of mentioned strategies to discover antiviral drug. For example; with the incorporation of these methodologies, this chapter provides a framework th accelerate the discovery of antiviral drugs form natural sources.
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| **Is the manuscript scientifically, correct? Please write here.**  | Based on the provided information, the manuscript appears to be **scientifically correct**. It accurately discusses the methodologies to study the antiviral activity. The manuscript has cited the relevant studies and provided a balanced view of both traditional and innovative techniques. Additionally, it has also acknowledged the limitations of some methods (for example, the labor intensive nature of plaque assays and the need for the validation of docking results). It reflects a critical and realistic perspective. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references provided in the manuscript are **sufficient and recent**. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language and English quality of the article are generally suitable for scholarly communication. It has demonstrated the clarity, technical accuracy and a formal tone that is appropriate for the scientific audience. However, there are some areas for improvement. For example, to simplify the overly complex sentences and reducing the repetition of some terms like "natural products,". There is also need to address the minor grammatical issues like the subject-verb agreement and the use of article. Additionally, the balancing of the passive and active voice sentences would enhance reader’s readability and engagement. |  |
| Optional/General comments | The manuscript is an informative review about the antiviral avtivity of natural products. It also establishes a connective bridge between the traditional and modern innovations such as the bioinformatics. It makes it suitable for the researchers in virology, pharmacology and the drug discovery.However, there are some areas where the manuscript if improved, would enhance its impact and readability.1. **Language and Flow**: The simplification of the complex sentences and reduction in the repetition of same words would improve the overall readability and flow of the text.
2. **Abstract and Conclusion**: the expansion of these sections in order to emphasize the broader implications of the research and the potential of natural products would make the manuscript more compelling.

The manuscript is strong and well written but benefit from minor revision to improve language clarity and enhance the abstract and conclusion. |  |

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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: | **Hafiz Aftab Ahmed** |
| Department, University & Country | **University of Agricuture Faisalabad, Pakistan** |