|  |
| --- |
|  |
| 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** |

|  |
| --- |
| 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.** | 1. The manuscript provides a comprehensive framework for studying the antiviral activity of natural products, a crucial area in the fight against viral infections and drug-resistant strains.
2. Integrating traditional virology techniques with innovative biosensor designs and bioinformatics approaches offers a multifaceted strategy for identifying and characterizing potential antiviral agents.
3. The detailed methodologies outlined, including virus quantification techniques, molecular docking analysis, and network pharmacology, will aid researchers in accelerating the discovery of novel, effective antiviral therapies
4. This manuscript makes a valuable contribution to the scientific community by addressing the urgent need for innovative antiviral drug discovery strategies
 |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | It effectively highlights the focus on studying antiviral natural products.The title is quite clear and informative, but it could be refined for better clarity and impact |  |
| 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, the abstract is quite comprehensive as it effectively summarizes the key aspects of the manuscript. However, there are some areas where it could be improved for clarity, conciseness, and impact.The abstract could better separate the problem, methodology, and significance for clarity. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The manuscript appears to be scientifically sound, presenting well-established methodologies, citing relevant literature, and providing a comprehensive overview of antiviral screening strategies.To ensure full scientific accuracy, here are a few key points to consider:Some methodologies, such as molecular docking and network pharmacology, require precise validation. The manuscript correctly states that in silico methods should be complemented by in vitro assays, but cross-checking specific claims (e.g., docking accuracy or PCR interference by natural compounds) would strengthen the discussion. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references in the manuscript appear to be **extensive, relevant, and largely recent**, which strengthens its scientific credibility.Older references (e.g., El Sayed, 2000; Cooper, 1962) may be foundational, they should be supplemented with newer studies if more recent validation exists.Some citations are broad review papers; adding more **primary experimental studies** could further strengthen specific claimsNew molecular docking or network pharmacology advancements (2023–2024) exist, and including them would ensure the most up-to-date computational methodologies. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language quality of the manuscript is generally **suitable for scholarly communication**, but it could benefit from minor refinements to enhance clarity, conciseness, and readability.1. Some sentences are lengthy and could be restructured for better readability.
2. There are occasional wordiness and minor grammatical inconsistencies that may affect clarity.
3. A professional language review or proofreading (e.g., Grammarly, journal editing services) could further refine grammar and syntax.
 |  |
| Optional/General comments | This manuscript is **scientifically robust and highly relevant** to antiviral research. With minor refinements in **language, structure, and references**, it will be well-suited for publication in a journal. |  |

|  |
| --- |
| **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)* |  |

|  |
| --- |
| **Reviewer Details:** |
| Name: | **Vinod Kumar Gurjar** |
| Department, University & Country | **Parul Unversity, India** |