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| Book Name: | [**Medical Science: Trends and Innovations**](https://www.bookpi.org/bookstore/product/medical-science-trends-and-innovations-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4515** |
| Title of the Manuscript: | **Challenges of Developing Precision Drugs for Non-Communicative Diseases** |
| 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.** | **The book chapter explained the critical challenges of developing precision drugs for non-communicative diseases. This novel concept is highly relevant to the modern medical domain. This work concentrates on ethical and scientific barriers in drug development and highlights the importance of personalized medicine. Given the rising burden of non-communicative diseases worldwide, this research is valuable for academic and clinical communities.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title is appropriate but could be slightly refined for clarity and impact. Suggested alternative:**  **"Challenges and Advances in Precision Drug Development for Non-Communicable Diseases"**  **This revision enhances the scope by incorporating both challenges and progress.** |  |
| 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 provides a good overview but lacks clarity in methodology and key findings.**  **Suggest briefly mentioning data sources, case studies, or methodologies used to strengthen its comprehensiveness. The last sentence should emphasize the manuscript’s practical implications for research and clinical applications.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript presents a well-structured discussion on precision drugs but lacks detailed discussion on technological advancements. Consider adding a section on real-world case studies to support claims and enhance credibility. Definitions and classifications of non-communicative diseases should be clearly stated with references.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references cover key aspects, but some recent studies (2022–2024) on precision medicine advancements are missing. Suggested additional references:**   * **Recent WHO reports on precision medicine applications** * **AI-driven drug development strategies** * **CRISPR applications in non-communicable diseases**   **Ensure proper formatting of citations as per the book’s referencing style.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The manuscript is well-written, but minor grammatical issues and redundant phrases should be revised.**  **Some technical jargon should be explained for clarity to a broader audience.**  **A final proofreading is recommended to enhance readability.** |  |
| Optional/General comments | **Consider adding a flowchart or diagram illustrating the development pipeline for precision drugs in NCDs. A brief discussion on precision drugs' economic and ethical implications would be beneficial.**  Include a comparative table summarizing key findings from different studies (e.g., methodologies, datasets, accuracy metrics) to provide a clearer picture of advancements in YouTube summarization and RAG-based approaches.  Add a brief discussion on real-world applications and limitations of retrieval-augmented generation (RAG) and NLP-based summarization, supported by case studies or industry examples.  Structure the literature review more thematically (e.g., "RAG in NLP," "YouTube Summarization Approaches," "Speech-to-Text Challenges") instead of listing studies sequentially. This will make the review more insightful and reader-friendly.  Some references (e.g., [6] on Salt Evaporite Identification, [8] on SuperLU) seem unrelated to the core topic (YouTube summarization, NLP, Retrieval-Augmented Generation). Remove or replace these with more relevant sources.  The manuscript is scientifically sound but requires additional recent references, structural refinements, and minor grammatical improvements before publication.  Strengthen the methodology and practical implications for a more impactful contribution. |  |

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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: | **Aruna Pavate** |
| Department, University & Country | **Univeristy of Mumbai, India** |