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| Book Name: | **Applications of Artificial Intelligence in Genetics** |
| Manuscript Number: | **Ms\_BPR\_5760** |
| Title of the Manuscript:  | **Applications of Artificial Intelligence in Genetics** |
| Type of the Article | **Complete Book** |

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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.** | **Chapter offers convergence between AI and genetics by detailing how AI methodologies are being applied across diverse genetic workflows from variant detection to gene expression modeling and personalized genomic medicine** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Title is suitable** |  |
| 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 chapter is clear, comprehensive, and well-structured**, effectively summarizing the scope, content, and relevance of the chapter. It highlights core technologies (ML, DL), major application areas (GWAS, gene expression, genomic medicine. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The chapter is scientifically rigorous and accurate. Some suggestions are to include more GWAS comparisons between classical statistical genetics and AI-based approaches |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references are **sufficient, diverse, and highly current,** with a strong emphasis on literature from 2015–2024 |  |
| Is the language/English quality of the article suitable for scholarly communications? | Good language with technical fluency.Suggestion - Improve clarity in a few places where transitions between concepts (e.g., from GWAS to pharmacogenomics) are abrupt |  |
| Optional/General comments |  |  |

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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:**

**Anirudh Mehta, United States of America**