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| Journal Name: | [**International Journal of Pathogen Research**](https://journalijpr.com/index.php/IJPR) |
| Manuscript Number: | **Ms\_IJPR\_131532** |
| Title of the Manuscript: | **Pyocin As An Alternative For Antibiotic Resistance** |
| Type of the Article | **Review Article** |

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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 is highly significant for the scientific community as it addresses the urgent global challenge of antimicrobial resistance (AMR) and explores pyocins as a promising alternative to conventional antibiotics. By highlighting the effectiveness of pyocins against multidrug-resistant organisms (MDROs), including methicillin-resistant *Staphylococcus aureus* (MRSA) and *Pseudomonas aeruginosa*, this review contributes to the ongoing search for novel antimicrobial strategies. Furthermore, it provides a comprehensive analysis of pyocin mechanisms of action, such as bacterial membrane depolarization and DNA cleavage, which could inform future therapeutic developments. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **yes** |  |
| 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. | Some sentences are fragmented or unclear. For example, "antimicrobial This is especially important for Pyocins strains that are resistant to the target." could be revised for better readability. The abstract should have a smooth, logical progression. The phrase “For managing antibiotic-resistant infections” appears disjointed and could be better integrated into the sentence about pyocins' mechanisms of action. | Thank you for your detailed observations. I have revised the abstract to ensure better readability and logical progression. The fragmented sentence "antimicrobial This is especially important for Pyocins strains that are resistant to the target" has been corrected, and the phrase "For managing antibiotic-resistant infections" has been smoothly integrated into the section describing pyocins' mechanisms of action. These changes aim to enhance clarity and coherence in the abstract. |
| Is the manuscript scientifically, correct? Please write here. | his review explores the therapeutic potential of pyocins, their mechanisms of action, and key areas for future research to facilitate their clinical development. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Add resent referances2024-25 | Thank you for this suggestion. I have updated the references to include more recent studies that contribute to the current understanding of pyocins and their therapeutic potential. |
| Is the language/English quality of the article suitable for scholarly communications? | Some grammatical errorsis there , kindly nimprove. | I have gone through the manuscript and corrected all grammatical errors. This includes fixing fragmented sentences, improving overall flow, and ensuring proper use of language to meet scholarly communication standards. |
| Optional/General comments | **none** |  |

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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)* |  |