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Article Information

Published: March 31, 2025

Keywords

Ogiri-egusi,
Alkaline-fermented,
Bioactive compounds,
Antimicrobial,
Therapeutic Potential.

Authors' Contribution

AA designed; MNI and AA wrote and revised the paper.

How to cite

Ashraf, A., Iqbal, M.N., 2025. Antimicrobial and Therapeutic Potential of Bacterial Isolates from Ogiri-egusi. *Adv. Micro. Nano. Sci.*, 1(1): 19-21.

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Antimicrobial and Therapeutic Potential of Bacterial Isolates from Ogiri-egusi

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Abstract:

The production of Ogiri-egusi, a traditional alkaline-fermented condiment, produces a variety of microbial communities that affect the product's safety and quality. The secondary metabolites secreted by these microorganisms can serve as alternative therapy. Bioactive compounds in the secreted metabolites can be identified and utilized as sources of new antibiotics. These natural compounds have a variety of biological and therapeutic properties due to their molecular diversity. The biological activities of bacterial secondary metabolites are crucial owing to the rise of drug-resistant microbial infections. In this issue, Ado et al. (2025) describe the incidence of a diverse microbial community in Ogiri-egusi. The antimicrobial screening of crude extracts from *Bacillus* species against bacterial pathogens showed notable inhibitory effects. Biologically active molecules produced by bacteria may have medicinal properties that encourage the creation of novel therapeutic agents in academia and industry.



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