

Potential of Lactic Acid Bacteria and Antibiotics as Synergistic Therapeutic Agent against Resistant Strains of Bacteria Associated with Skin Infections.

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LCU/PG/002267

**Being a M Sc Post-Field Presentation Submitted to the Department of Biological Science,
Faculty of Basic Medical & Applied Sciences, Lead City University, Ibadan, Oyo State,
Nigeria**

**In Partial Fulfillment of the Requirements for the Award of Master of Science Degree (M
Sc.) in Medical Microbiology**

2023

Certification

This is to certify that **Ifeoluwa ODUNUGA** with the matriculation number: LCU/PG/002267, carried out this research titled “Potential of Lactic Acid Bacteria and Antibiotics as Synergistic Therapeutic Agent against Resistant Strains of Bacteria Associated with Skin Infections” in the Department of Biological Sciences, Faculty of Basic Medical and Applied Sciences, Lead City University Ibadan, Oyo State, for the award of Master of Science Degree (M.Sc) in Medical Microbiology and that this has not been previously submitted.

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(Supervisor)

Date

Dr Felicia Adesina

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Date

Dedication

This project report is dedicated to my family, friends and colleagues who made significant contributions for this study.

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Acknowledgement

I would like to express my heartfelt gratitude to Lead City University for providing me with the essential facilities and resources that were instrumental in the successful completion of this research. The libraries, both within and outside the institution, played a pivotal role in enriching my knowledge and aiding in the comprehensive data collection process. Furthermore, I extend my appreciation to all the relevant places that contributed significantly to the data collection for this research.

I am deeply grateful to my supervisor, Dr Mrs. Felicia Adesina, whose guidance, unwavering support, and invaluable insights have been the cornerstone of this research. I would like to acknowledge the contributions and extend my sincere thanks to Dr Mrs. Lola Ayelabola, Mr. Olagunju Agboola, Dr Mrs. Bukola Bamkefa, Mr. Habeeb Adeyemi, Dr Mrs. Omotayo Sindiku, Dr. Emeka Umezurike and all the lecturers, within the department who have imparted a great measure of knowledge, enabling me to pursue this research, without whom this work would not have been possible. Additionally, I am grateful to those who have directly or indirectly contributed to the research, including Akinlosotu Samuel, Oduola Dasola and Mr. Akinwale Akinnate.

Lastly, I want to express my deep appreciation and gratitude to my family, especially my Dad (Dr. Joseph Bamidele Odunuga) and Mum (Dr Mrs. Adeola Funmilayo Odunuga) for their financial and unwavering support and understanding throughout this endeavor.

In conclusion, I want to emphasize that while the above-mentioned institutions and individuals have played a crucial role in the process of this research work, I alone stand responsible for any

errors, if any, found in the work. Their support and guidance have been invaluable, and I am truly grateful for their contributions.

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List of Acronyms

Abbreviation

Meaning

AMR	Antimicrobial Resistance
MRSA	Methicillin-Resistant <i>Staphylococcus Aureus</i>
LAB	Lactic Acid Bacteria
Pen G	Penicillin
SSTI	Skin and Soft Tissue Infection
MIC	Minimum Inhibitory Concentration
MBC	Minimum Bactericidal Concentration
NDM-1	New Delhi Metallo-beta-lactamase-1
CDAD	<i>Clostridium Difficile</i> Associated Diarrhoea
RiPPs	Ribosomally integrated and Post-translationally Modified Peptides
Man-PTS	Mannose Phosphotransferase System
DNA	Deoxyribonucleic Acid
RNA	Ribonucleic Acid
tRNA	Transfer Ribonucleic Acid
VRSA	Vancomycin-Resistant <i>Staphylococcus aureus</i>
HA-MRSA	Healthcare Associated-Methicillin Resistant <i>Staphylococcus aureus</i>
CA-MRSA	Community Associated-Methicillin Resistant <i>Staphylococcus aureus</i>

CDC	Centre for Disease Control
BHI	Brain Heart Infusion
MP1	Micrococcin P1
MRS	de Mann Rogosa and Sharpe agar
ZDI	Zone Diameter of Inhibition
SD	Standard Deviation
CFU	Colony Forming Unit
SPSS	Statistical Package for Social Science
MDR	Multi-Drug Resistant

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