



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



HANAA ALY



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جامعة عين شمس

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قسم

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HANAA ALY



Isolation and Characterization of Bacteriophages Active against Clinical Isolates of MRSA

A Thesis

Submitted in Partial Fulfillment of the
Requirements for

Master's degree

In Pharmaceutical Sciences

(Microbiology and Immunology)

By

Israa Mohamed Abd-Allah Abd El-Maqsoud

Bachelor of Pharmaceutical Sciences,

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List of Abbreviations

Abbreviation	Definition
ACME	Arginine catabolic mobile element
AMR	Antimicrobial resistance
AMK	Amikacin
ARG	Antibiotic resistance genes
AMP	Antimicrobial peptide
AZM	Azithromycin
CDC	Centers for Disease Control and Prevention
CF	Cystic fibrosis
CPP	Cell-penetrating peptide
CFU	Colony forming unit
CIP	Ciprofloxacin
CLSI	Clinical and Laboratory Standards Institute
GEN	Gentamicin
DNA	Deoxyribonucleic acid
DCN	Doxycycline
eIND	Emergency Investigational New Drug
ECM	Extracellular matrix

List of Abbreviations

Abbreviation	Definition
FDA	Food and Drug Administration
FOX	Cefoxitin
HGT	Horizontal gene transfer
IDSA	Infectious Diseases Society of America
IPM	Imipenem
LB	Luria Bertani
MSCRAMMs	Microbial surface components recognizing adhesive matrix molecules
MDR	Multidrug-resistant
MRSA	Methicillin-resistant <i>Staphylococcus aureus</i>
PBP(s)	Penicillin binding protein(s)
PFU	Plaque forming unit
PRR	Pattern recognition receptor
PEG	Polyethylene glycol
TMP/SMX	Trimethoprim/sulfamethoxazole
SCV	Small colony variant
VRSA	Vancomycin resistant <i>Staphylococcus aureus</i>

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