

# بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



HOSSAM MAGHRABY



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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# جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم  
قسم

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بالرسالة صفحات

لم ترد بالأصل



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**Comparison Between Phenotypic And Genotypic  
Methods For Identification Of Methicillin  
Resistant Staphylococcus Aureus**

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*Thesis*

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Degree In Microbiology And Immunology

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالُوا سُبْحَانَكَ اللَّهُمَّ إِنَّا كُنَّا ظَالِمِينَ

إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ

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# List of abbreviations

(agr) probe	(Accessory gene regular) probe.
Aph(2'')acc(6')	Aminoglycoside resistance gene probe
bp	Base pair.
BSSA	Borderline-sensitive <i>Staphylococcus aureus</i> .
CFU	Colony forming unit.
CoNS	Coagulase negative staphylococci.
CPT	Cyclic probe technology.
DNase	Deoxyribonuclease enzyme
dNTPs	Deoxynucleotide triphosphate.
dUTP	Deoxyuridine triphosphate.
dTTP	Deoxy thymidine triphosphate
EDTA	Ethylene diamine tetra acetic acid.
EIA	Enzyme immune assay.
EMRSA	Epidemic methicillin-resistant <i>Staphylococcus aureus</i>
ERIC	Enterobacterial repetitive intergenic consensus.
Fc	Fragment crystallizable.
Fem	Factor essential for expression of methicillin-resistance
GISA	Glycopeptide intermediate susceptible <i>Staph. aureus</i> .
HMW	High molecular weight.
IgG	Immunoglobulin G
IS	Insertion sequence
KDa	Kilo dalton.
MARSA	Methicillin aminoglycoside resistance <i>Staphylococcus aureus</i> .

MHC	Major histocompatibility complex.
MICs	Minimal inhibitory concentrations.
MOD-strain	Modified strain.
MRSA	Methicillin-resistant <i>Staphylococcus aureus</i> .
MSA	Mannitol-salt agar.
MSSA	Methicillin-sensitive <i>Staphylococcus aureus</i> .
PBP <sub>s</sub>	Penicillin-binding proteins.
PCR	Polymerase chain reaction.
PFGE	Pulsed field gel electrophoresis.
RAPD	Randomly amplified polymorphic DNA.
RFLP	Restriction fragment length polymorphism.
RNase	Ribonuclease enzyme.
rRNA	Ribosomal ribonucleic acid.
SDS	Sodium dodecyl sulfate.
SDS-PAGE	Sodium dodecyl sulfate-poly acrylamide gel electrophoresis.
Spa gene	Protein A gene.
<i>Staph.</i>	<i>Staphylococcus</i> .
TAE	Tris-acetate EDTA.
Taq	<i>Thermus aquaticus</i> .
TE	Tris-EDTA
Tn	Transposon.
tRNA	Transfer ribonucleic acid.
TSST	Toxic shock syndrome toxin.
UNG	Uracil-N-glycosylase.
UV	Ultraviolet.

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# INTRODUCTION