بسم الله الرحمن الرحيم

شبكة المعلومـــــات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

﴿ قـــسـم ﴾

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون آية تغيرات

يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %

بعض الوثائق الأصلية تالفة

بالرسالة صفحات

لم ترد بالأصـــل

Evaluation of the Polymerase Chain Reaction in the Identification of Certain Bacteria Causing Nosocomial Infections.

Thesis
Submitted for Partial Fulfilment of Master Degree of Science
(Microbiology)

By
Hala Mohammed Abu Shady
(B.Sc.,1995, Microbiology)

Supervisors

Prof Dr. Reda M.Mostafa
Prof. Of general surgery
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Dr.Mohammed S.Salama
Associate Prof. Of molecular biology
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Dr. Mohamed Khaled Ibrahim
Lecturer of Microbiology

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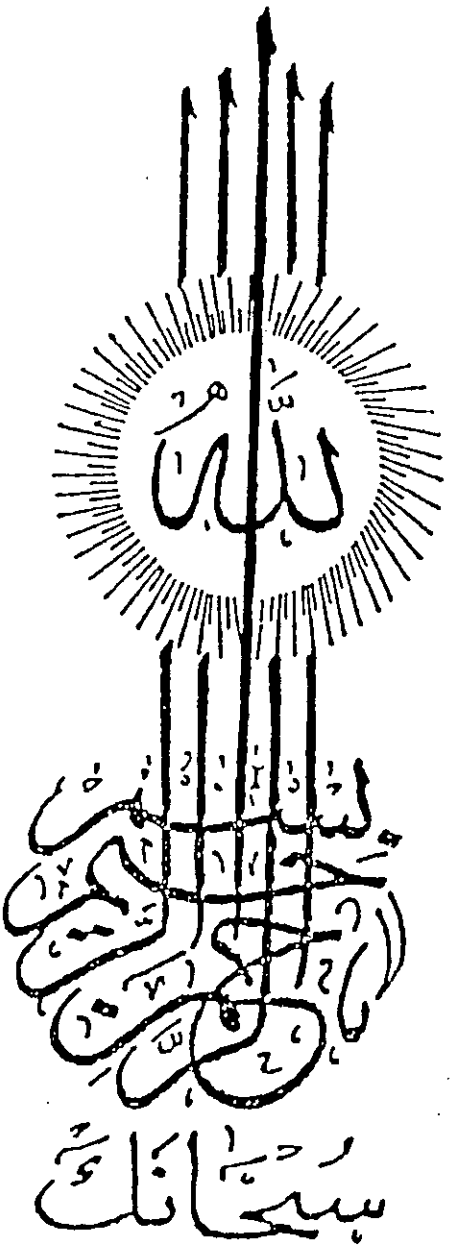

سبحانك

لا علم لنا إلا ما علمتنا إنك أنت العليم الحكيم

صدق الله العظيم

سورة البقرة آيه ٣٢

Acknowledgement

I would like to express my deep gratitude and thanks to ***Prof .Dr Reda M.Moustafa*** Professor of general surgery Faculty of Medicine , Ain Shams University , ***Dr.Mohammed S. Salama*** Associate Prof. Of molecular biology , Faculty of science Ain Shams University and ***Dr.Mohammed Khaled Ibrahim*** , Lectuer of microbiology , Faculty of Science , Ain Shams University , for their kindly supervision , precious help, continuous support and critical criticism during practical work and writting the manuscript of the thesis

Thanks are also due to head and staff members of national agricultural genetic engineering institute (NAGEL) for their and extreme generous , advise, and support me by all facilities that this work was achieved.

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CONTENTS

PCR	Polymerase chain reaction
MRSA	Methicillin resistant staphylococcus aureus
PBP'S	Penicillin binding proteins
CFU	Colony forming unit
OD	Optical density
STET	Sucrose triton EDTA tris
dNTP's	Deoxynucleotide triphosphates
ONPG	Orthonitrophenyl galactoride
ADH	Arginine dihydrolase
LDC	Lycin decarboxylase
ODC	Ornithine decarboxylase
NO2	Production of nitrate and nitrite
H2S	Hydrogen sulphide product
URE	Urease
TDA	Tryptophan deaminase
IND	Indol production
VP	Voges-Proskauer
GEL	Gelatin liquification
GLU	Glucose
MAN	Mannitol
INO	Inositol
SOR	Sorbitol
RHA	Rhamminol
SAC	Sucrose
MEL	Mellibiose
AMY	Amygdalin
ARA	Arabinose
CIT	Citrate utilization

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