



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





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## التوثيق الالكتروني والميكرو فيلم

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي هذه الأفلام قد اعدت دون أية 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 %



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# بعض الوثائق الأصلية تالفة



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بالرسالة صفحات  
لم ترد بالأصل

# MOLECULAR GENETICS OF DRUG RESISTANCE OF MYCOBACTERIUM TUBERCULOSIS

*Thesis*

*Submitted in the Partial Fulfillment of (M.D.)  
Degree in Clinical and Chemical Pathology*

*By*

**SAHAR HUSSIN MAHMOUD**  
(M.B., B.Ch. and M.Sc.)

*Under The Supervision Of*

**PROF. DR.**

**FETNAT MAHMOUD TOLBA**

Prof. and Head of Clinical and Chemical  
Pathology Dept.  
Benha Faculty of Medicine

**PROF. DR.**

**AHMED GODA EL-GAZZAR**

Assis. Prof. of Chest Diseases Dept.  
Benha Faculty of Medicine

**PROF. DR.**

**MAHMOUD REFAAT**

Assis. Prof. of Genetic Engineering  
Gentic Engineering Research Institute  
Cairo University

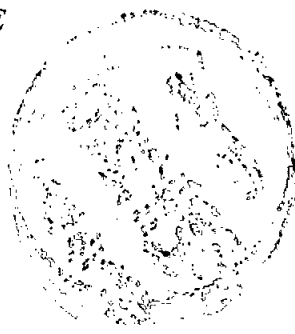
**DR.**

**SOHEIR ABD EL-RAHMAN**

Lecturer of Clinical and Chemical  
Pathology Dep.  
Benha Faculty of Medicine

**BENHA FACULTY OF MEDICINE  
ZAGAZIG UNIVERSITY**

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## ACKNOWLEDGEMENT

Firstly my deep thanks to **ALLAH** who gave us and gave me the strength for producing this work.

This study could have never been made without the performance guidance, help and enthusiasm of *Prof. Dr. Fetnat Mahmoud Tolba*, Prof. and Head of Clinical Pathology Department, Benha Faculty of Medicine.

I wish to express my sincere thanks to *Prof. Dr. Ahmed Goda El-Gazzar*, Assiss. Prof. of Chest Disease Department, Benha Faculty of Medicine, for his immeasurable help in collection of samples and marvelous support during this work.

I am indebeted to *Prof. Dr. Mahmoud Refaat*, Assis. Prof. of Genetic Engineering, Gentic Engineering Research Institute, Cairo University, for his valuable guidance and suggestions. His cooperative attitude was of great help to complete this work.

I wish to express special thanks to *Dr. Sohear Abd el-Rahma*, Lecturer of Clinical and Chemical Pathology Department, Benha Faculty of Medicine, for the valuable time she spent in reviewing the manuscript, for her objective criticism, meticulous guidance and kind close supervision during the delivery of this work.



## LIST OF ABBREVIATIONS

|        |   |
|--------|---|
| Ab     | Antibody  |
| A.F.B  | Acid fast bacilli                               |
| Ag     | Antigen   |
| AMD    | Amplification mismatch detection                |
| b.P    | Base pair                                       |
| BCG    | Bacillus calmet Guarine                         |
| CDC    | Center for disease control                      |
| CICs   | Circulating immune complexes                    |
| DGGE   | Denaturing gradient gel electrophoresis         |
| ELISA  | Enzyme linked immuno sorbent assay              |
| ESR    | Erythrocyte sedimentation rate                  |
| GLC    | Gas liquid chromatography                       |
| HPLC   | High performance liquid chromatography          |
| IgA    | Immunoglobulin A                                |
| IgE    | Immunoglobulin E                                |
| IgG    | Immunoglobulin G                                |
| IL     | Interlukin                                      |
| INH    | Isoniazid                                       |
| IU     | International unit                              |
| L.J.   | Lowestein-Jensen                                |
| M      | Mycobacterium                                   |
| MAI    | Mycobacterium avium-intracellular               |
| MOTT   | Mycobacterium other-than tuberculosis           |
| NTM    | Non tuberculous mycobacterium                   |
| OT     | Old tuberculin                                  |
| PASA   | PCR amplification specific alleles              |
| PCR    | Polymerase chain reaction                       |
| PPD    | Purified protein derivatives                    |
| RT-PCR | Reverse transcriptase polymerase chain reaction |
| T.B.   | Tuberculous bacilli                             |
| Vol.   | Volume  |
| Z.N.   | Ziehl - Neelsen.                                |
| -ve    | Negative  |
| +ve    | Positive  |
| MTB    | Mycobacterium tuberculosis                      |



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