

بسم الله الرحمن الرحيم



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

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شبكة المعلومات الجامعية  
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# **RAPID DIAGNOSIS OF EXTRAPULMONARY TUBERCULOSIS BY POLYMERASE CHAIN REACTION**

## **Thesis**

Submitted for Partial Fulfillment of MD Degree in clinical  
and Chemical pathology

## **By**

**GEHAN MOHAMED FAHMY EL-MOSELHY**

## **Supervised By**

**Prof. Dr. IBRAHIM KHALIL ALI**

*Prof. of Clinical Pathology  
Faculty of Medicine - Ain Shams University*

**Prof. Dr. HADIA HUSSEIN BASSIM**

*Prof. of Clinical Pathology  
Faculty of Medicine - Ain Shams University*

*Hadia Bassim*

**Assis.Prof.Dr. FATMA EL-ZAHRAA HASSAN MOHAMED BAHGAT**

*Assis. Prof. of Clinical Pathology  
Faculty of Medicine - Ain Shams University*

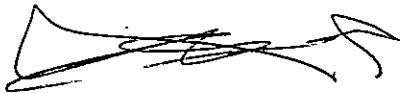
**Dr. OMNIA ABOU EL-MAKAREM SHAKER**

*Ass. Prof. of Clinical Pathology  
Faculty of Medicine - Ain Shams University*

**Dr. NAHED AHMED MAHMOUD AFIFY**

*Ass. Prof. of Clinical Pathology  
faculty of Medicine - Ain Shams University*

*Faculty of medicine  
Ain Shams University*



**2000**

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*Dr. Soher*



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*Ass. Prof. of Clinical Pathology  
faculty of Medicine - Ain Shams University*

*Faculty of medicine  
Ain Shams University*

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## List of abbreviation

|               |                                                                       |
|---------------|-----------------------------------------------------------------------|
| <b>M.TB</b>   | Mycobacterium tuberculosis                                            |
| <b>T.B.</b>   | Tuberculosis                                                          |
| <b>M.</b>     | Mycobacterium                                                         |
| <b>BCG</b>    | The bacillus of calmette-Guerin                                       |
| <b>MAC</b>    | Mycobacterium avium complex                                           |
| <b>MAI</b>    | Mycobacterium avium intracellular                                     |
| <b>NTM</b>    | Non tuberculous mycobacteria                                          |
| <b>MAIS</b>   | Mycobacterium intracellulare-scrofulaceum                             |
| <b>NAP</b>    | NAP: P-nitro- $\alpha$ acetylamino- $\beta$ -hydroxy<br>propiophenone |
| <b>Z.N.</b>   | Ziehl Neelsen                                                         |
| <b>LJ</b>     | Lowenstein-Jensen                                                     |
| <b>CFU</b>    | Colony forming unit                                                   |
| <b>LAM</b>    | Lipo arabinomannan                                                    |
| <b>KDA</b>    | Kilo Dalton Antigen                                                   |
| <b>PPD</b>    | Purified protein derivative                                           |
| <b>MHC</b>    | Major histo compatibility complex                                     |
| <b>HLA</b>    | Human leucocyte antigen                                               |
| <b>SC</b>     | Secretory component                                                   |
| <b>MDR.TB</b> | Multidrug resistant tuberculosis                                      |
| <b>INH</b>    | Isoniazid                                                             |
| <b>RIF</b>    | Rifampcin                                                             |
| <b>PZA</b>    | Pyrazinamide                                                          |
| <b>EMB</b>    | Ethambutol                                                            |
| <b>STH</b>    | Streptomycin                                                          |

|                |                                                   |
|----------------|---------------------------------------------------|
| <b>DOT</b>     | Directly observed therapy                         |
| <b>HIV</b>     | Human immune deficiency virus                     |
| <b>AIDS</b>    | Acquired immune deficiency syndrome               |
| <b>AMTDT</b>   | Amplified mycobacterium tuberculosis direct test  |
| <b>CSF</b>     | Cerberspinal fluid                                |
| <b>GI</b>      | Growth index                                      |
| <b>MGIT</b>    | Mycobacteria growth indicator tube                |
| <b>HPLC</b>    | High performance liquid chromatography            |
| <b>UV</b>      | Ultra violet                                      |
| <b>EIA</b>     | Enzyme immunoassay                                |
| <b>LDH</b>     | lactate dehydrogenase                             |
| <b>MOTT</b>    | Mycobacterium other than tuberculosis             |
| <b>OLA</b>     | Oligomer ligation assay                           |
| <b>RFLP</b>    | Restriction fragment length polymorphism          |
| <b>PFGE</b>    | Pulsed-field gel electrophoresis                  |
| <b>MPTR</b>    | Major polymorphic tandem repeat                   |
| <b>PGRS</b>    | Polymorphic GC rich repetitive sequence           |
| <b>PPEM</b>    | Potentially pathogenic environmental Mycobacteria |
| <b>BACTEC.</b> | Becton Dickinson-Diagnostic Instrument system     |
| <b>Sp.</b>     | Specificity                                       |
| <b>sn.</b>     | Sensitivity                                       |
| <b>P+</b>      | Positive predictive value                         |
| <b>P-</b>      | Negative predictive value                         |
| <b>F+R</b>     | False positive rate                               |
| <b>F-R</b>     | False negative rate                               |
| <b>Eff</b>     | Efficacy                                          |



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