







شبكة المعلومــات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



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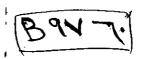












Bacteriologically Confirmed Pulmonary Tuberculous Infection and Drug Resistance

Thesis

Submitted for partial fulfillment of the Master Degree in Microbiology and Immunology

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بسم الله الرحمن الرحيم

قالوا سبحانك لاعلم لنا إلا ما علمتنا

إنكأنت العليم المحكيم

صدق الله العظيم (سورة القرة /آية ٣٢)

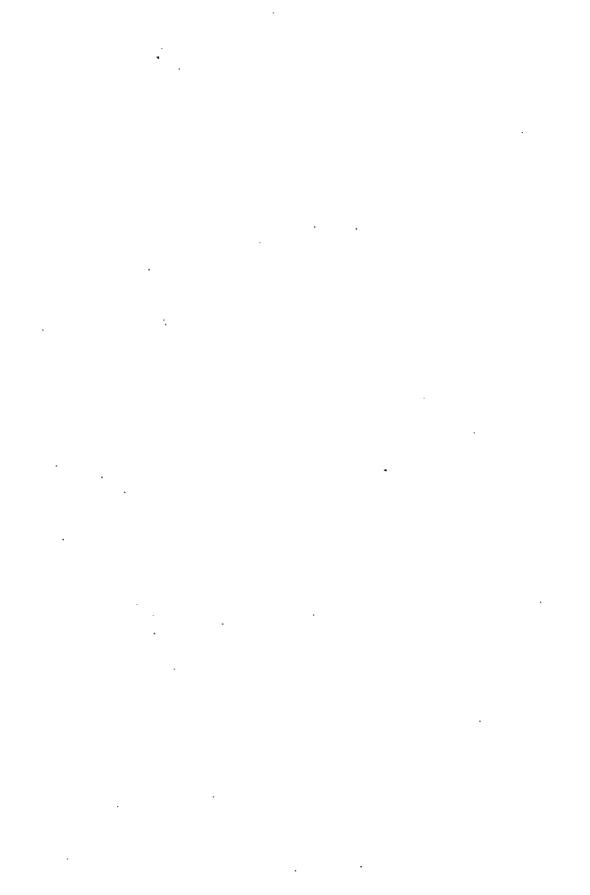




To My Parents

To My Husband &

To My Brother



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List of Abbreviations

AFB : Acid fast bacilli

AIDS : Acquired immune deficiency syndrome

AM : Alveolar macrophage

AMT : Antimycobacterial therapy

ARI : Annual risk of infection

ATS : American Thoracic Society

BAL : Bronchoalveolar lavage

BCG : Bacillus Calmette-Guerin

CDC : Center of Disease Prevention and Control

CSF : Cerebrospinal fluid

DNA : Deoxyribonucleic acid

E. coli : Escherichia coli

ELISA : Enzyme linked immunosorbant assay

EMB : Ethambutol

GLC: Gas liquid chromatography

HIV : Human immune deficiency virus

HPLC: High performance liquid chromatography

INH : Isoniazid

LAM : Lipoarabinomannan

LJ : Lowenstein Jensen

LC : Liquid chromatography

LTBI : Latent tuberculosis infection

M. : Mycobacterium

M. tuberculosis: Mycobacterium tuberculosis

MB : Middle brook

MDR : Multidrug resistant

MGIT : Mycobacterial growth indication tube

MIC: Minimum inhibitory concentration

MOTT : Mycobacteria other than tuberculosis

mRNA : messenger ribonucleic acid

NAA : Nucleic acid amplification

NaCl : Sodium chloride

NALC: N-Acetyl-L-Cysteine

NaOH : Sodium hydroxide

NAP : Nitro-alpha-acetylamine-beta propiophenone

NPV : Negative predictive value

NTM: Non tuberculous mycobacteria

PCR : Polymerase chain reaction

PPD : Purified protein derivative

PPV : Positive predictive value

PTB : Pulmonary tuberculosis

PZa : Pyrazinamide

RAN : Ribonucleic acid

RIF : Rifampicin

rRNA : ribosomal ribonucleic acid

SDA: Strand displacement amplification

SM : Streptomycin

TB: Tuberculosis

TBB : Transbronchial biopsy

Tween 80 : Polyxyethylene sorbitan mono-deale

US : United States

WHO: World Health Organization

Z.N : Ziehl-Neelsen