





ثبكة المعلومات الجامعية





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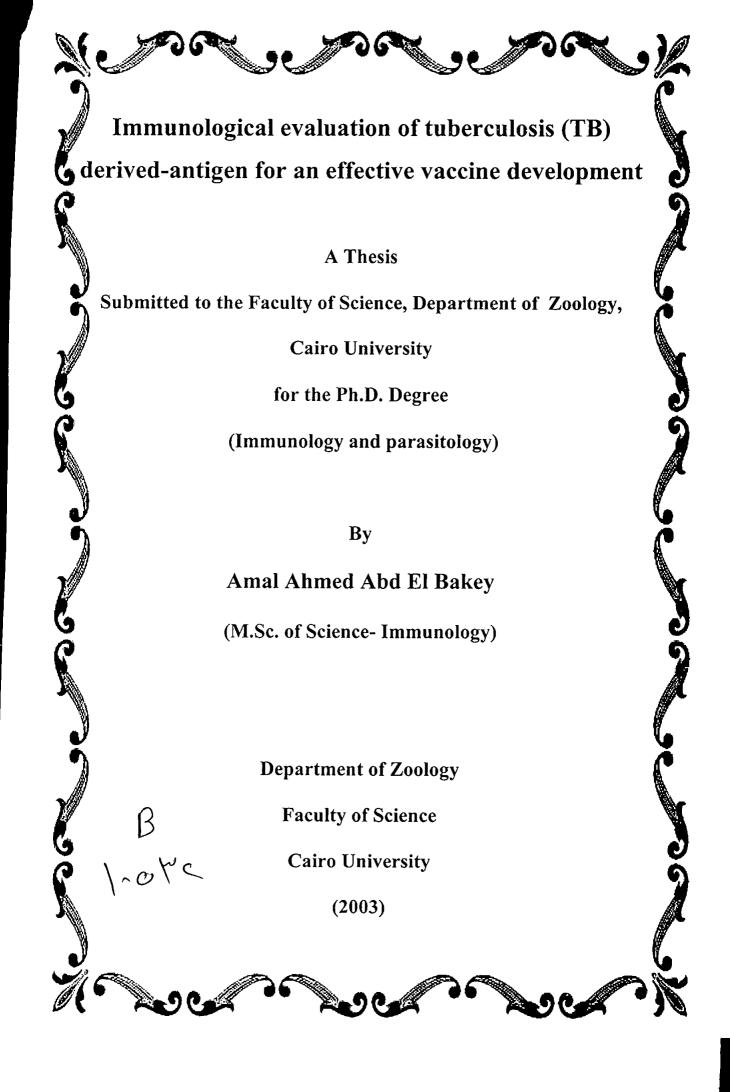


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Approval Sheet

Title of the Ph.D Thesis

Immunological evaluation of tuberculosis (TB) derived-antigen for an effective vaccine development

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Acknowledgments

First of all I express my deepest gratitude to God to whom I owed every thing I learned and every success in my life.

I would like to express my deepest gratitude to Prof. Dr. Abdel Hakim Saad, Professor of Immunology, Department of Zoology, Faculty of Science, Cairo University, for his generous help, supervision, his guidance and kind help. Also, I would greatly appreciate the unfailing enthusiasm of the supervision during the writing and checking the final manuscript.

I wish to express my sincere thanks to Dr. Maged Moustafa Al-Sherbiny, Assistant Professor of Immunology, Department of Zoology Faculty of Science, Cairo University, to whom I am deeply indebted for having given me the chance to undertake the subject of this thesis, and whose guidance, supervision, stimulating suggestion, and endless support.

My special deep thanks and appreciation are also due to **Dr. Ahmed** Osman, Assistant Professor of Immunology, Department of Zoology, Faculty of Science, Cairo University, for his generous help, sincere effort, and continuous encouragement in supervising time research.

Whatever I say or write, I will never be able to express my profound thanks, appreciation and great obligation toward Dr. Mohamed El Abadey for his continuous supervision, guidance, endless and encouragement.

Special thanks to research committee of VACSERA Dr. Laila Basiouny, Dr. Emam Zakhlol and Dr. Magda Salah.

I wish to express my sincere thanks and appreciation to my friend Marwa for `her generous help during the thesis. I Owe adept of all members of Egyptian Reference Diagnostic Center (ERDC), Cairo, for their help.

I am also more than grateful to my family especially to my wonderful sister, my father and my husband for their support and encouragement through this time.

Finally I would express my thankful to Mr. Yasser Mamdouh for providing the useful helps in statistical work.

To the rested soul of my unforgettable

Father who wanted to see me a doctor and helped me to reach to what I become now.

To My kind mother whom the first teachers in life, My sisters Wafaa and Saffaa and My brother Usama..

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To a very special person in my life; my husband REDA and my wonderful sons Abdel Khalek and Youssif.

LIST OF ABBREVATION:

ACUC:	Animal Care and Use Committee
Ag:	Antigen
Al(OH) 3,:	Aluminum hydroxide;
APC:	Antigen presenting cell
APS:	Ammonium persulphate
BALT:	Bronchial associated lymphatic tissue
BCG:	Bacille-Calmette-Guenin
BSA:	Bovine serum albumin
CD:	Cluster differentiation
CD4:	Antigenic marker on T-cells that
	recognize antigens bound to
	class I MHC proteins
	(Helper T-cells)
CD ₄₅ RB:	Cluster differentiation-45
CD8:	Antigenic marker on T-cells that
	recognize Antigens bound to
	Class II MHC proteins
	(Cytotoxic T-cells)
CF:	Culture Filtrate

Ci/mmol,:	Curie millimole
CM:	Culture medium
CO ₂ :	Carbon dioxide
CPM:	Count per minute.
DDA:	Dimethyl dioctadecylammonium
	bromide.
DNA:	Deoxeyribo nucleic acid.
DTH:	Delayed type hypersensitivity.
DTT:	Dithiotheitol
ELISA:	Enzyme –linked immunosorbent assay
EP:	Epidermal
ESAT-6:	Early secreted antigen of tuberculosis
HAC:	Glacial acetic acid
HCL:	Hydrochloric acid
HEPES:	N-2 hydroxyethyl-piperazine-N\-2
	ethane sulfonic acid
HIV:	Human immunodeficiency virus.
HLA:	Human leucocyte associated antigen
hsp60:	Heat shock protein-60
i.d.:	Intradermal
i.m.:	Intramuscular

Colony -Forming Unit

CFU:

ICAM:	Intercellular adhesion molecule
IFA,:	Incomplete Freund's adjuvant
IFN-γ:	Interferon gamma
IgG:	Immunogloblin G
IL:	Interlukin
kDa:	Kilodalton
LeuD:	leucine auxotrophic
LKB:	E-liquid scintillation counter
M:	Mycobacterium
M.Wt:	Molecular weight
MHC:	Major histocompatibility complex.
MHC-I:	Major histocompatibility complex
	Class 1
MHC-II:	Major histocompatibility complex
	Class 2
MoAb:	Monoclonal antibodies
MPL:	Monophosphoryl lipid A
MT-CFP:	Mycobacterium tuberculosis-culture
	filtrate proteins.
n:	Number
NaCl:	Sodium chloride

NC:	Nitrocellulose
NHS:	Normal human serum
O ₂ :	Oxygen
PALS:	Periarteriolar lymphocyte sheath
PB:	Peripheral blood.
PBMCs:	Peripheral blood mononuclear cells.
PBS:	Phosphate-buffered saline.
PMNCs:	Polymorphonuclear cells
PPD:	Purified protein derivative
	(tuberculin).
QS21:	Amphipathic triterpene glycoside
	from Quillaja saponaria.
s.c:	Subcutaneous.
SD:	Standard division.
SDS-PAGE:	Sodium dodecyl sulfate
	Polyacrylamide gel electrophoresis.
SI:	Stimulation index
ST-CFP:	Short-term culture filtrate proteins
TB:	Tuberculosis.
TEMED:	N, N, N, N'- tetramethylethylene
	diamine
Th1:	T helper cells

TMB: 3.3\,5,5\-tetra methyle benzidine.

TNF: Tumor necrosis factor.

TW: Tween.

UV: Ultraviolet

WHO: World Health Organization

ZN: Ziel-Nielsen stain

μCi/: Micro Curie

 Π : Microliter