شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالأصل

Cairo University
Faculty of Veterinary Medicine
Dept. of Virology

Preparation of Bovine Coronavirus Vaccine

A Thesis Presented
By
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For
Master Degree in Veterinary Science (M.V.Sc)
(Virology)

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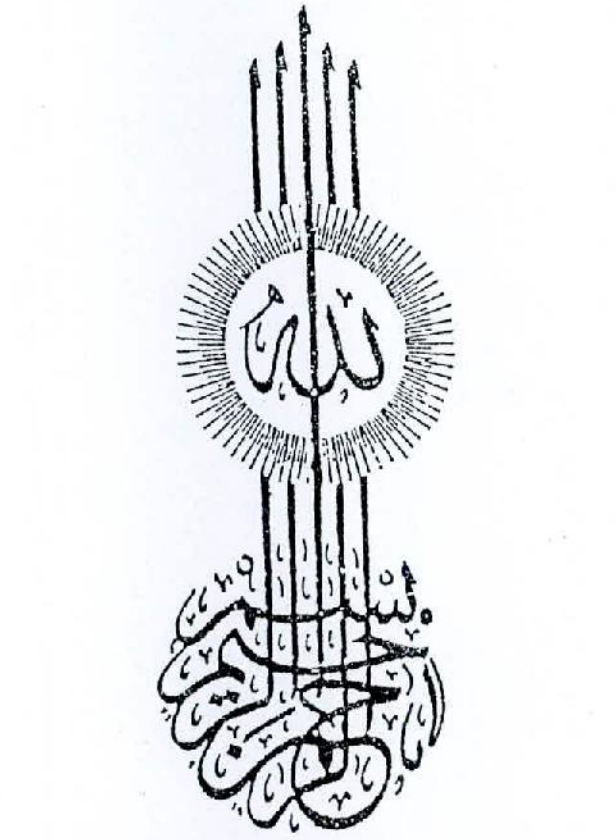
(1997)



صدق الله العظيم

(سورة العلق، آية ٥)

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APPROVAL SHEET

This is to approve that the dissertation presented by Effat Lotfy El-Sayed Karam-Alla to Cairo University for the M.D. has been approved by the examining committee.

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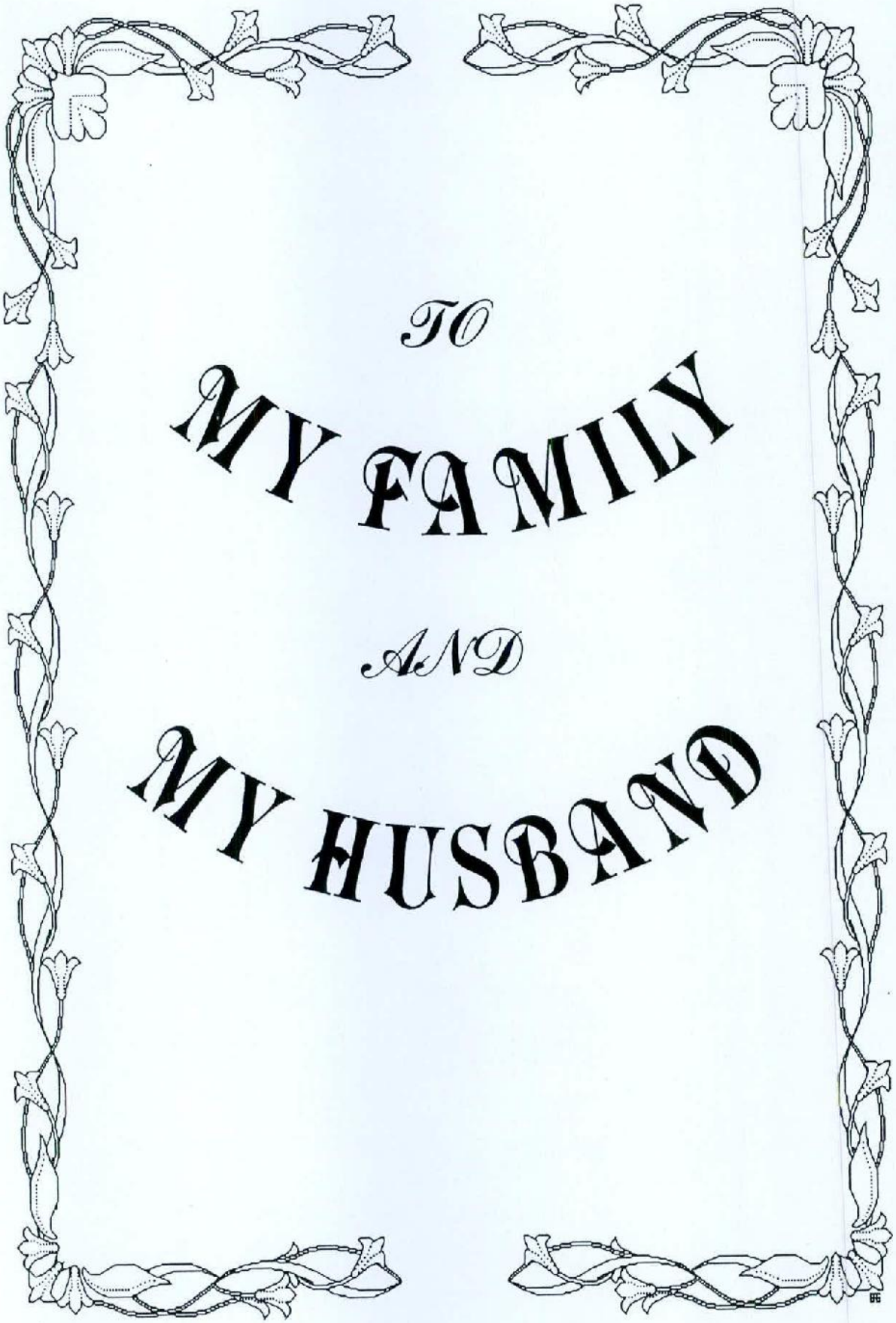
Date : / / 1997


TO
MY FAMILY
AND
MY HUSBAND

ACKNOWLEDGMENT

*In actual fact, the prayful thanks at first to our merciful **ALLAH**, who give me everything I have.*

*I express my sincere gratitude to **Prof. Dr. Mohamed Abd El-Hamid Shalaby**, Professor of virology and Immunology. chairman of virology Department, Veterinary Medicine, Cairo University, Under whose direction, suggestions and advice this study was undertaken and fulfilled. He has given so much of his valuable time, experience and scientific knowledge as well as his great endless help throughout the whole work.*

*I am especially indebted to **Dr. Thanna Ibrahim Baz.** Head of Rinder pest like diseases Blue Tongue Dept., Serum and Vaccine Research Institute, Abbasia, Cairo, for her ideals sincere and scrupulous guidance and her fruitful help towards constructive criticism. I have benefitted immensely from her diligent, patient and intelligent supervision stimulating encouragement.*

*All of my feelings of gratitude and respect are offered to **Dr. Samy Saad and Dr. Samira Said** for their keen interest, advice and giving almost help to accomplish this work.*

It is a pleasure to record my gratefulness and appreciation to ***Dr. Magdy El-Sabbagh, Hussin Mutolly, Iman Kamel,*** *for his great help, advice and laboratory facilities.*

I would like to express my greatest gratitude to ***Dr. Ashraf, A.Hassan.*** *Rift Vally Fever Department, Vet Serum and Vaccine Research Institute Abbassia.*

It is a great pleasure to remember the great help and cooperation of the staff members (Doctors, Technicians and Workers), Rinder pest like diseases Blue Tongue. Department, Veterinary Serum and Vaccine Research Institute, Abbasia, Cairo, for their help whenever needed.

Lastly, my thanks is sent to my husband for his kind hand that extended to help me to allow the fulfillment of this work.

CONTENTS

List of abbreviations

AEI	Acityl ethyleneimine
BCV	Bovine coronavirus.
BECV	Bovine enteric coronavirus.
BEI	Binary ethylene imine.
BEK-1	Bovine embryonic kidney cell line.
BEL	Bovine embryonic lung cell line.
BFS	Bovine fetal spleen cells.
BRCV	Bovine respiratory coronavirus.
BVDV	Bovine viral diarrhoea virus.
CDCV	Calf diarrhoea coronavirus
CPE	Cytopathic effect
CTL	Cytotoxic lymphocyte.
CV	Coronavirus.
DIF	Direct immunofluorescence.
DPI	Day post inoculation.
ELISA	Enzyme linked immunosorbent assay.
HA	Haemagglutination.
HCV-OC43	Human coronavirus OC 43.
HI	Haemagglutination inhibition.
HRT-18	Human rectal adenocarcinoma cell line.
IEL	Intraepithelial lymphocyte.
IEM	Immunoelectro microscope.
IF	Immunofluorescence.
Ig	: Immunoglobuline.
-I-IF	Indirct immunofluorescence.
IL-2	Interleukin-2.
I.m.	Intramuscular.
MAbs	Monoclonal antibodies.
MDBK	Madin Darby bovine kidney cell line.
MDCK	Madin Darby canine kidney.
MgCl2	Magnesium chloride.
min.	Minute.
ml	Milliter.

Nacl	Sodium chloride.
nm	Nanometer.
NT	Neutralization test.
PAG-IEM	Protein A-gold immunoelectron microscope.
PCF	Post colostrum feed.
PCK	Primary calf kidney.
pH	Hydrogen ion concentration.
PK-15	Porcine Kidney cell line.
RBCs	Red blood corpuscles.
RNA	Ribonucleic acid.
rpm	Revolution per minute.
RT.	Room temperature.
RV	Rotavirus.
Tc	T-cytotoxic cells.
T.C.	Tissue culture.
$T.C.I.D_{50}$	Tissue culture ineffective dose-50.
Ts	T-suppresor cells.
ug	Microgram.
ul	Microliter.
VERO	African green monkey cell line.

Introduction