Studies of cell physiological aspects following hormonal and ionizing radiation treatments of albino rat .

A THESIS

Submitted for

Ph. Degree.

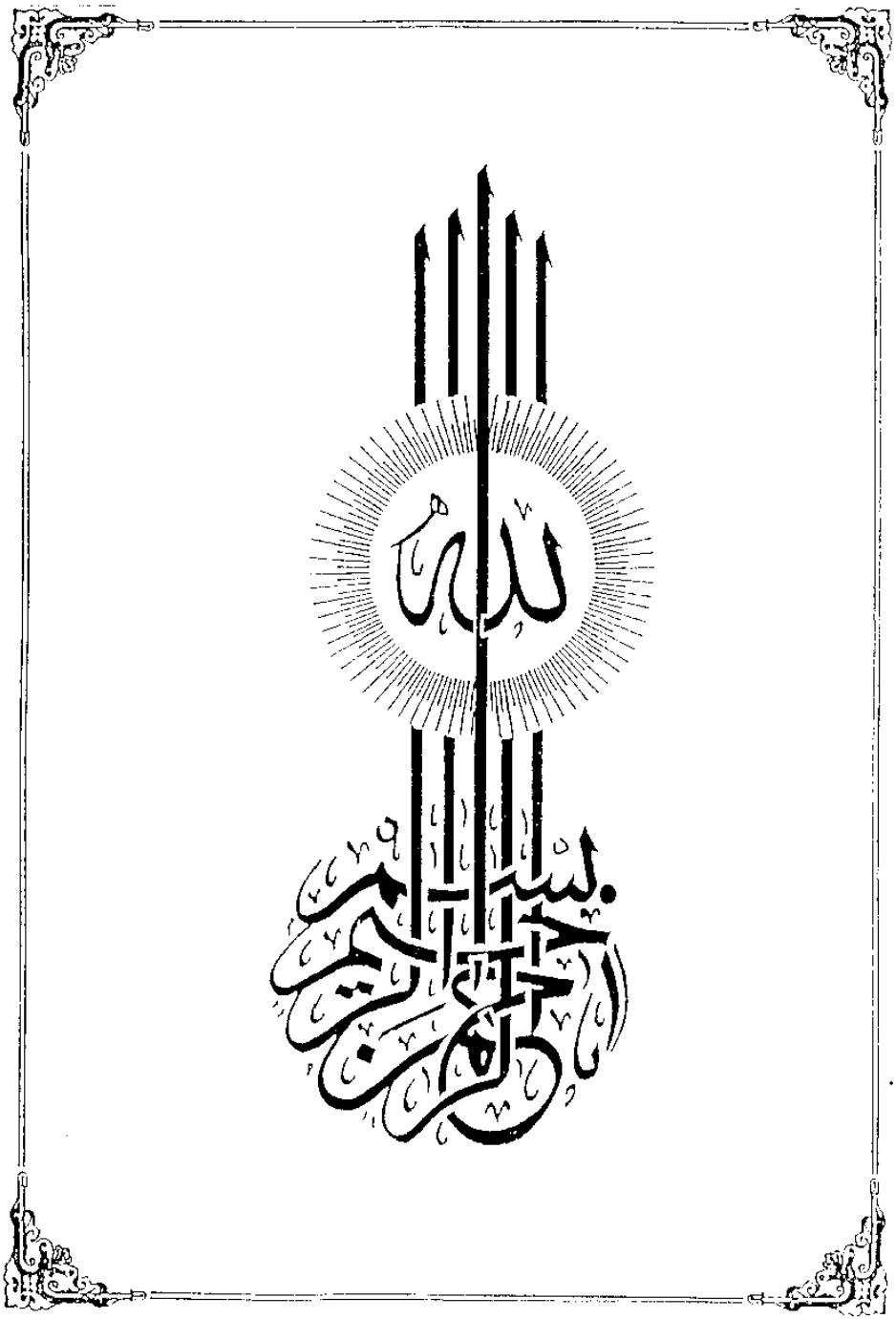
By

Samia El - Demeriaty Ali .

B.Sc. (Zoology - Chimestry) . 1978
M.Sc. (Zoology) 1989
Zoology Department.
Faculty of Science
Ain Shams University

1996

To The Spirit Of My Parents.



ACKNOWLEDGEMENT.

I am greatly indebted to prof. Dr. Gamal Abu Sinna professor of animal physiology , Zoology Department , Faculty of Science Ain Shams University for his kind supervision , guidance, encouragement and his careful review of the manuscript.

Appreciation is also extended to prof. Dr. Nadia El-Baih, Professor of animal physiology , Zoology Department, Faculty of Science Ain Shams University for her supervision , and critical reading through the manuscript .

I would like to express my sincere appreciation and deep gratitude to Dr. Ahmed Essam Fekry , professor assistant, Radiobiology Dapartment , Nuclear Research , Center , Atomic Energy Authority , for planning , his supervision , helpful suggestion and his careful review of the manuscript.

Special thank are given to Dr. H.A. Mostafa, Radiobiology Dapartment , Nuclaer Research center , Atomic Energy Authority , A.R.E.

CONTENTS

LIST OF ABBREVIATIONS

Alb.	: Albumin.
A/G	: Albumin - Globulin ratio.
ALT	: Alanine aminotransferase (GPT).
AST	: Aspartate aminotransferase (GOT).
Bq.	: Bquril.
Conc.	: Concentrates.
CNS	: Cell number - size ratio.
Cwt.	: Carcass weight.
DNA	: Deoxyribonucleic acid.
FFB	: Fat free body.
FFDB	: Fat free dry body.
Fwt.	: Femur weight.
Glob.	: Globulin.
Gluc.	: Glucose.
GIwt.	: Gastrointestinal tract weight.
Gy	: Gray.
Hb.	: Hemoglobin content.
Hc.	: Hematocrit value.
IU	: International unit.
K. & T. Wt.	: Kidney and testis weight.
Lbwt.	: Live body weight.
Lwt.	: Liver weight.
r.	: Rad.
RBC.	: Red blood cells.
Sbwt.	: Slaughter body weight.
T.G.	: Triglycerides.
T.P.	: Total proteins.
WBC	: White blood cells.

LIST OF FIGURES

LIST OF TABLES