

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

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بعض الوثائق الأصلية تالفة

بالرسالة صفحات
لم ترد بالأصل

ROLE OF IgE IN IMMUNITY TO SCHISTOSOMIASIS

**A THESIS
SUBMITTED TO THE FACULTY OF SCIENCE
CAIRO UNIVERSITY
IN**

**FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE
OF
Ph.D IN IMMUNOLOGY**

BY

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APPROVAL SHEET

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To whom I love
To the soul of my father,
I wish he could see this piece of work.

To my mother together with my husband
and my children,
who encouraged me and stood by me till it was complete.

Finally to my brothers

بسم الله الرحمن الرحيم

نرفع درجات من نشاء
و فوق كل ذي علم عليم

صدق الله العظيم

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List of Abbreviation

Ab.....	Antibody
Ag.....	Antigen
ALK.....	Alkaline phosphatase substrate
<i>B. galabrata</i> ...	<i>Biomphalaria galabrata</i>
BSA.....	Bovine Serum Albumine
CN-Br.....	Cyanogin Bromide
ELISA.....	Enzyme Linked Immunosorbent Assay
FCS.....	Fetal Calf Serum
FcεRI.....	IgE receptor I
FcεRII.....	IgE receptor II
<i>g</i>	gravity
hr.....	Hours
HRP.....	Horse Radish Peroxidase Substrate
IFNγ.....	Interferon gamma
Ig.....	Immunoglobulin
IgA.....	Immunoglobulin A
IgD.....	Immunoglobulin D
IgE.....	Immunoglobulin E
IgG.....	Immunoglobulin G
IgM.....	Immunoglobulin M
IL-10.....	Interleukin 10
IL-12.....	Interleukin 12

IL-2.....Interleukin 2
IL-4.....Interleukin 4
IL-5.....Interleukin.5
IL-6.....Interleukin 6
i.p.....Intraperitoneally
kDa.....kilo Dalton
KOH.....Potassium hydroxide
M.....Molar
NaCl.....Sodium Chloride
NMS.....Normal Mouse Serum
O.D.....Optical Denesity
O.hOncomelania hupensis
OPD.....O-Phenylenediamine
PBS.....Phosphate buffer saline
rIL-4.....Recombinant Interleukin 4
RT.....Room temperature
SAWA.....Soluble adult worm antige
SD.....Standard deviation
SDS-PAGE.....Sodium dodecyl Sulphate poly acrylamide gel
electrophoresis
SEA.....Soluble egg antigen
SSA.....Schistosomula soluble antigen
Th1.....T helper 1
Th2.....T helper 2
U.....Unit
UVUltra violet

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Review