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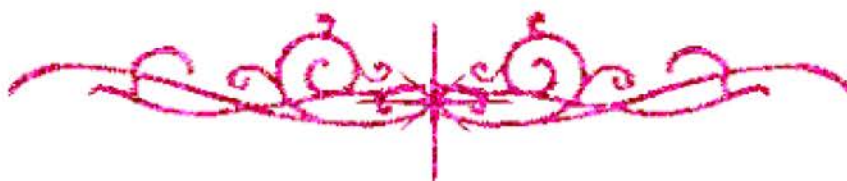
# بسم الله الرحمن الرحيم



hossam maghraby



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





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# جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

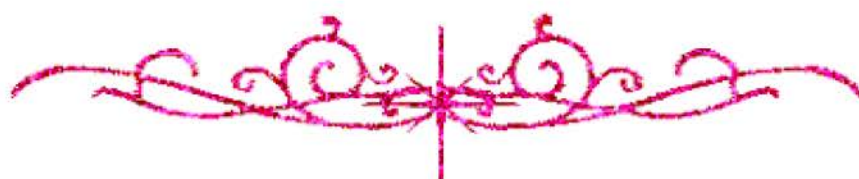
## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



## يجب أن

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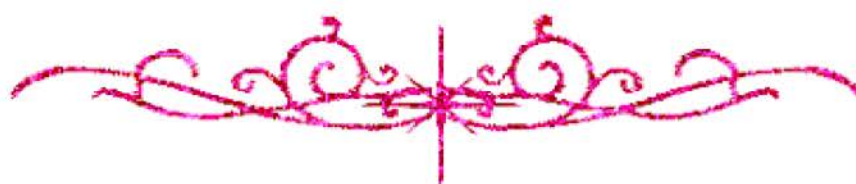
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شبكة المعلومات الجامعية



# بعض الوثائق الأصلية تالفة





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بالرسالة صفحات  
لم ترد بالأصل



**STUDY OF THE EFFECT OF SCHISTOSOME SOLUBLE  
EGG ANTIGEN ON THE DYNAMICS OF THE HOST  
IMMUNE RESPONSE**

BIFAVV

Thesis submitted  
*By*

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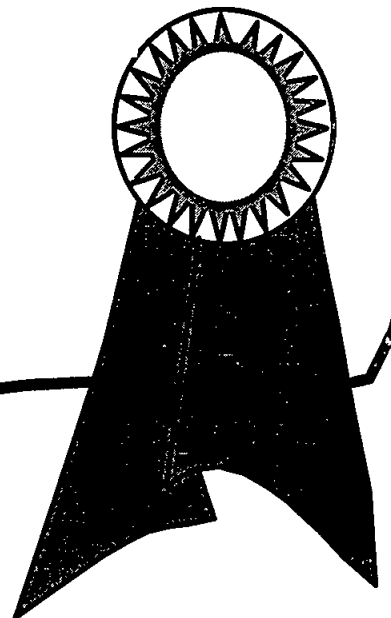
*To my dearest father*

*To the memory of my  
mother*

*To my husband*

*To my daughters*

*Eman El-Ahwany*





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# List of Abbreviations

Abbreviations	Definition
Ab(s)	Antibody(ies)
ACK	Ammonium chloride lysis buffer
ADCC	Antibody dependent cell-mediated cytotoxicity
Ag(s)	Antigen(s)
ALT	Alanine amino-transaminase
APC(s)	Antigen presenting cell(s)
BCR	B cell receptor
BSA	Bovine serum albumin
CD	Cluster designation
C.P.M.	Counts per minute
C <sub>3</sub>	Complement-3
CAMS	Cellular adhesion molecules
CR3	Complement receptor type 3
CTLA-4	Cytotoxic T lymphocyte associated antigen-4
DTH	Delayed-type hypersensitivity
EC	Endothelial cells
ELISA	Enzyme-linked immunosorbent assay
FcR	Crystallizable fragment (of immunoglobulin)
g	Gravity force
gm	Gram
G.M.	Granuloma macrophage
GM-CSF	Granulocyte macrophage colony stimulating factor
h	Hour
H&E	Hematoxylin and eosin
HCl	Hydrochloric acid
<sup>3</sup> H-TdR	<sup>3</sup> H-thymidine
i.p.	Intraperitoneal
i.v.	Intravenous
ICAM-1	Intercellular adhesion molecule-1
IFN-γ	Interferon gamma
iC <sub>3</sub> b	C <sub>3</sub> fragment

Abbreviations	Definition
Ig(s)	Immunoglobulin(s)
IgSF	Immunoglobulin superfamily
IL	Interleukin
KDa	Kilodalton
LFA-1	Leukocyte function associated antigen-1
M	Mole
mAb(s)	Monoclonal antibody (ies)
Mac-1	Macrophage adhesion molecule-1
MHC	Major histocompatibility complex
MIP	Macrophage inflammatory protein
ml	Milliliter
mM	Millimole
min	Minutes
NK	Natural killer
nm	Nanometer
OD	Optical density
OPD	Ortho-phenylene diamine dihydrochloride
P	Probability
PBS	Phosphate buffered saline
pH	Hydrogen ion concentration
PHA	Phytohemagglutinin
p.i	Post-infection
POPOP	1,4 dimethyl-2-bis-5-phenyloxazene
PPO	2,5 diphenyloxazole
r	Correlation coefficient
rpm	Rotation per minute
RPMI 1640	Rosewell Park Memorial Institute Medium-1640
<i>S. haematobium</i>	<i>Schistosoma haematobium</i>
<i>S. japonicum</i>	<i>Schistosoma japonicum</i>
<i>S. mansoni</i>	<i>Schistosoma mansoni</i>
s.c.	Subcutaneous
SBSP	Schistosome Biological Supply Program
SEA	Soluble egg antigen



Abbreviations	Definition
sICAM-1	Soluble intracellular adhesion molecule-1
sIRS	Soluble immune response suppressor
TBRI	Theodor Bilharz Research Institute
TC	Cytotoxic T cells
TCR	T cell receptor
TGF- $\beta$	Transforming growth factor-beta
Th	T helper cells
TNF- $\alpha$	Tumor necrosis factor-alpha
Tris	Tris (hydroxy methyl) amino methane
TSFs	T suppressor factors
U	Unit
VCAM-1	Vascular cell adhesion molecule-1
VLA	Very late activation antigen
Wks	Weeks
X $\pm$ SEM	Mean $\pm$ standard error of mean
$\mu$ ci	Microcurie
$\mu$ g	Microgram
$\mu$ l	Microliter
$\mu$ m	Micrometer
°C	Centigrade
%	Percentage