



Studies on the Effect of Garlic on Albino Mice Infected With *Schistosoma mansoni*

A Thesis

Submitted to the Faculty of Science, Ain Shams University
For the Award of the Ph.D. Degree

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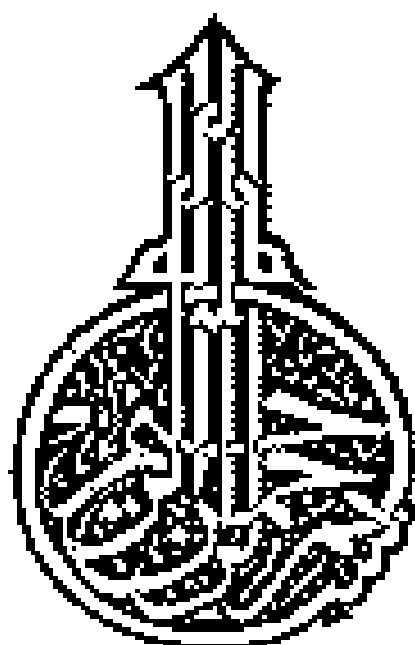
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2007**



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿وَقَالُوا الْحَمْدُ لِلَّهِ الَّذِي هَدَانَا لِهَذَا
وَمَا كُنَّا لِنَهْتَدِيَ لَوْلَا أَنْ هَدَانَا اللَّهُ﴾

صدق الله العظيم

(سورة الأعراف، آية 43)

Acknowledgments

Praise, as befits His Greatness and Supreme Power, be to Allah for His blessings. It is by His grace this work had been done and all my life is arranged in the best.

Grateful appreciation and deep respect is extended to Prof. Dr. Nahed H. Riad, Professor of Histology and Histochemistry, Zoology Department, Faculty of Science, Ain Shams University for her generous supervision. She supplied me with enthusiasm, support and creative insight. Her critical reading of the manuscript that helped me in refining the concepts of this thesis, her deep interest in the topic and unfailing encouragement are highly appreciated. It has really been an honor and privilege working with her.

I also owe a huge debt of gratitude to Dr. Hoda A. Taha, Lecturer of Parasitology, Zoology Department, Faculty of Science, Ain Shams University for getting me closer to the world of molecular biology, listening to my many concerns, dissipating them with ease and for straightening every crooked path that I traveled on. It is with gratitude that I acknowledge her for reading the early draft of my thesis and giving sage advice.

I am quite fortunate to have been surrounded by smart, funny and caring friends. To them all I owe a word of thanks, which I cannot hope to repay, for being there during tough times when I needed help or just a break from the work. None is mentioned by name, but my gratitude goes to them all.

Acknowledgments

It is difficult to explain how grateful I am to the two people who have been there for me literally since the first day of my birth. My father and mother are truly incredible people and I am extremely thankful for everything they have ever done for me. They have always believed in sacrificing everything so that I may pursue the best education possible, and they are truly superb role models. I owe every success to their guidance and support, and I can only say that I will be eternally grateful.

*To who installed in me the value of education
and the rewards and opportunities
it can generate*

*... To My
Parents...*

with love

Abbreviations //

LIST OF ABBREVIATIONS, ACRONYMS AND SYMBOLS

<i>ad libitum</i>	(i.e.: as much as desired).
AIDS	Acquired immunodeficiency syndrome.
<i>alt. dieb.</i>	<i>alternis diebus</i> (i.e.: alternating days or every other day).
aq.	Aqueous.
B.C.	Before Christ.
bc	Bile canalicule.
bd	Bile ductule.
bp	Base pair.
bw	Body weight.
°C	Celsius (degree).
cAMP	Cyclic adenosine monophosphate.
cb	Cell body of tegument.
cm	Centimeter/s (unit).
cmf	Circular muscle fibers.
CO ₂	Carbon dioxide.
CoA	Coenzyme A.
CTAB	Cetyltrimethylammonium bromide.
cv	Central vein.
DNA	Deoxyribonucleic acid.
DNase	Deoxyribonuclease.
dH ₂ O	Distilled water.
ddH ₂ O	Double distilled water.
dNTP	Deoxynucleotide triphosphate.
DPX	Mixture of distyrene, a plasticizer, and xylene.
EC	Euchromatin.
End	Endothelial cell.
Eo	Eosinophil.
EtBr	Ethidium bromide.
EDTA	Ethylene diamine tetrachloro-acetic acid.
<i>et al.</i>	<i>et alii</i> (i.e. : and others).
F	Fibroblast.
Fi	Fibers.
Fig./Figs	Figure/s.

Abbreviations ///

ft	Fat droplets.
g	Gram/s (unit).
Gl	Glycogen.
Go	Golgi complex.
gp	Group.
H	Hepatocyte/s.
ha	Hepatic arteriole.
HC	Heterochromatin.
HCl	Hydrochloric acid.
hr	Hour/s (unit).
IL	Interleukin.
KCl	Potassium chloride.
kg	Kilogram/s (unit).
L	Lymphocyte.
LDL	Low density lipoproteins.
lmf	Longitudinal muscle fibers.
Lp	Lipid droplets.
Ly	Lysosome.
M	Mitochondria.
<i>M</i>	Molar solution.
Mc	Macrophage.
mf	Muscle fibers.
mg	Milligram/s (unit).
MgCl ₂	Magnesium chloride.
mL	Milliliter/s (unit).
mM	Millimolar/s (unit).
mm	Millimeter/s (unit).
μg	Microgram/s (unit).
μL	Microliter/s (unit).
μM	Micromolar/s (unit).
μm	Micrometer/s (unit).
Min	Minute/s (unit).
mv	Microvilli.
N	Nucleus.
<i>N</i>	Normal solution.
NaCl	Sodium chloride.
ng	Nanogram/s (unit).
Nm	Nanometer/s (unit).

Abbreviations *iv*

nu	Nucleolus.
OS	Oral sucker.
<i>P</i>	Probability value.
pc	Parenchymal cell.
PCR	Polymerase chain reaction.
<i>per os</i>	(i.e.: by mouth or orally).
pH	Negative log of hydrogen ion concentration.
p.i	Post-infection.
PK	Proteinase K.
Pl	Plasma cell.
pM	Pikomolar/s (unit).
pv	Portal venule.
PZQ	Praziquantel.
®	Registered trade mark.
RAPD-PCR	Random Amplification of Polymorphic DNA-PCR.
RER	Rough endoplasmic reticulum.
RNA	Ribonucleic acid.
RNAse	Ribonuclease.
ROS	Reactive oxygen species.
rpm	Rounds per minute.
S	Similarity coefficient.
s	Sinusoid/s.
<i>S.</i>	<i>Schistosoma</i> .
SBSP	Schistosome Biological Supply Program.
SD	Standard deviation of the mean.
SE	Standard error of the mean.
SEA	Soluble Egg Antigen.
SEM	Scanning electron microscopy.
SER	Smooth endoplasmic reticulum.
<i>sp.</i>	<i>Species</i> (singular).
<i>spp.</i>	<i>Species</i> (plural).
TAE	Tris-acetic acid-EDTA (buffer).
<i>Taq</i>	<i>Thermus aquaticus</i> .
TBRI	Theodore Bilharz Research Institute.
TE	Tris-EDTA (buffer).
TEM	Transmission electron microscopy.
TEMED	<i>N,N,N',N'</i> -tetramethylethylenediamine.
TNF- α	Tumour necrosis factor-alpha.
Tris	2-amino-2-hydroxymethyl-1,3-propanediol.

Abbreviations ✓

U	Unit.
USA	United States of America.
UV	Ultraviolet.
V	Volt/s (unit).
v	Volume.
VS	Ventral sucker.
vs.	<i>Versus</i> (i.e.: against).
w	Weight.
WHO	World Health Organization.
x	Times.
X	Concentration.
#	Number.

LIST OF TABLES

	Page
Table 1: The nucleotide sequence of the arbitrary primers	67
Table 2: Effect of garlic administration on worm burden in <i>Schistosoma mansoni</i> -infected mice	77
Table 3: Effect of garlic administration on tissue egg load in mice infected with <i>S. mansoni</i>	80
Table 4: Effect of garlic administration on body weights, and liver & spleen relative weights of non-infected mice and mice infected with <i>S. mansoni</i>	122
Table 5: Effect of garlic administration on the number and volume of hepatic granulomas in infected mice	127
Table 6: The molecular sizes of schistosomal DNA fragments (bp) produced by using primer AA-1	258
Table 7: The molecular sizes of schistosomal DNA fragments (bp) produced by using primer AC-3	259
Table 8: The molecular sizes of schistosomal DNA fragments (bp) produced by using primer AD-4	260
Table 9: The molecular sizes of schistosomal DNA fragments (bp) produced by using primer OPH-8	261

Table 10: The molecular sizes of schistosomal DNA fragments (bp) produced by using primer OPH-12	262
Table 11: The molecular sizes of schistosomal DNA fragments (bp) produced by using primer OPH-13	262
Table 12: The outcome of monomorphic, polymorphic, and characteristic bands of schistosomal DNA fragments generated by the primers AA-1, AC-3, AD-4, OPH-8, OPH-12 & OPH-13	263
Table 13: Pair-wise amplified bands numbers among schistosome groups	264
Table 14: The molecular sizes of liver genomic DNA fragments (bp) produced by using primer OPH-2	266
Table 15: The molecular sizes of liver genomic DNA fragments (bp) produced by using primer OPH-4	267
Table 16: The molecular sizes of liver genomic DNA fragments (bp) produced by using primer AB-2	269
Table 17: The molecular sizes of liver genomic DNA fragments (bp) produced by using primer OPH-12	270
Table 18: The molecular sizes of liver genomic DNA fragments (bp) produced by using primer OPH-18	272
Table 19: The outcome of monomorphic and polymorphic bands of liver DNA fragments generated by primers OPH-2, OPH-4, AB-2, OPH-12 & OPH-18 ..	273
Table 20: Pair-wise amplified bands numbers among mice groups	274

LIST OF FIGURES

	Page
 Parasitological Results	
Fig. 1: Effect of garlic administration on worm burden in <i>S. mansoni</i> -infected mice.....	78
Fig. 2: Effect of garlic administration on egg count/g of liver in mice infected with <i>S. mansoni</i>	81
Fig. 3: Effect of garlic administration on egg count/g of ileum in mice infected with <i>S. mansoni</i>	82
 Schistosome Ultrastructural Preparations	
Figs 4-9: Scanning electron micrographs of control schistosomes	89-94
Figs 10-14: Transmission electron micrographs of control schistosomes	95-100
Figs 15-26: Scanning electron micrographs of garlic-treated schistosomes	101-112
Figs 27-33: Transmission electron micrographs of garlic-treated schistosomes	113-120
 Morphometric Results	
Fig. 34: Effect of garlic administration on body weights of non-infected mice and mice infected with <i>S. mansoni</i> ..	123
Fig. 35: Effect of garlic administration on relative liver weights of non-infected mice and mice infected with <i>S. mansoni</i>	124

Fig. 36: Effect of garlic administration on relative spleen weights of non-infected mice and mice infected with <i>S. mansoni</i>	125
--	-----

Fig. 37: Effect of garlic administration on the number of hepatic granulomas in <i>S. mansoni</i> -infected mice	128
---	-----

Fig. 38: Effect of garlic administration on the volume of hepatic granulomas in <i>S. mansoni</i> -infected mice	129
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Liver Histological Preparations

Figs 39-42: Photomicrographs of liver sections of normal mice.....	137-140
---	---------

Figs 43-46: Photomicrographs of liver sections of garlic-treated mice.....	141-144
---	---------

Figs 47-55: Photomicrographs of liver sections of infected control mice.....	145-154
---	---------

Figs 56-60: Photomicrographs of liver sections of mice treated with garlic before infection (prophylactic gp).....	153-158
---	---------

Figs 61-64: Photomicrographs of liver sections of mice treated with garlic after infection (therapeutic gp)	159-162
--	---------

Figs 65-68: Photomicrographs of liver sections of mice treated with garlic before & after infection (continuous gp)	163-166
--	---------

Liver Histochemical Preparations

Figs 69-74: Photomicrographs of liver sections of all mice groups stained with PAS technique	170-175
---	---------

Figs 75-80: Photomicrographs of liver sections of all mice groups stained with Sudan black B technique	178-183
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Figs 81-94: Photomicrographs of liver sections of all mice groups stained with Gomori's Trichrome + impregnated with silver nitrate	187-200
--	---------

Liver Ultrastructural Preparations

Figs 95-104: Electron micrographs of the liver of normal mice.....	211-220
Figs 105-108: Electron micrographs of the liver of garlic-treated mice.....	221-224
Figs 109-119: Electron micrographs of the liver of infected control mice.....	225-236
Figs 120-125: Electron micrographs of the liver of mice treated with garlic before infection (prophylactic gp).....	237-242
Figs 126-130: Photomicrographs of the liver of mice treated with garlic after infection (therapeutic gp)	243-248
Figs 131-137: Photomicrographs of the liver of mice treated with garlic before & after infection (continuous gp)	247-254

Molecular Results

Fig. 138: Photomicrograph showing RAPD-PCR fragments of schistosomal DNA obtained with the random primers AA-1, AC-3 & AD-4.....	258
Fig. 139: Photomicrograph showing RAPD-PCR fragments of schistosomal DNA obtained with the random primers OPH-8, OPH-12 & OPH-13	261
