



Faculty of Science
Zoology Department

**Molecular, Physiological and Pathological Studies on
the Effect of Some Natural Products on Male Albino
Rats Experimentally Infected with
Cryptosporidium spp.**

A Thesis

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BY

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List of Abbreviations

AA%	Antioxidant activity percentage
A/G	Albumin/Globulin
AIDS	Acquired immunodeficiency syndrome
ALAT	Alanine aminotransferase
AMV	Avian Myeloblastosis Virus
ASAT	Aspartate aminotransferase
BHK	Baby hamster kidney
BoHV-5	Bovine Herpes Virus type-5
bp	Base pair
BSA	Bovine serum albumin
BW	Body weight
CAT	Catalase
cDNA	Complementary deoxyribonucleic acid
<i>C. parvum</i>	<i>Cryptosporidium parvum</i>
C_t	Cycle threshold
DEPC	Diethylpyrocarbonate
DEX	Dexamethasone
DNA	Deoxyribonucleic acid
dpi	Day post infection
DPPH	1, 1-Diphenyl-2-picrylhydra
EDTA	Ethylene diamine tetra acetic acid
EEP	Ethanolic extract of propolis
ELISA	Enzyme linked immunosorbent assay
EPI	Epimedium polysaccharide-propolis flavone
	Immunopotentiator
FDA	Food and drug administration
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GM	Gentamicin
GO	Garlic oil
GPx	Glutathione peroxidase

List of abbreviations

GR	Glutathione reductase
GSH	Reduced glutathione
GSSG	Oxidized glutathione
GST	Glutathione -S-transferase
Hb	Hemoglobin
HBSS	Hank's buffered salt solution
HDL-C	High density lipoprotein-cholesterol
H&E	Hematoxylin and eosin
HIV	Human Immunodeficiency Virus
HPF	High power field
IgG	Immunoglobulins G
IC₅₀	Inhibitory concentration
IL	Interleukin
LDL-C	Low density lipoprotein-cholesterol
L-NAME	N ω -Nitro-L-arginine methyl ester
MCH	Mean corpuscular hemoglobin
MCHC	Mean corpuscular hemoglobin concentration
MCV	Mean corpuscular volume
MDA	Malondaldehyde
MLLV	Moloney Murine Leukemia Virus
mRNA	Messenger ribonucleic acid
NADPH	Nicotinamide adenine dinucleotide hydrogen phosphate
NTZ	Nitazoxanide
O.D.	Optical density
OPD	<i>o</i> -phenylenediamine
PBS	Phosphate buffer saline
PCR	Polymerase chain reaction
PCV	Packed cell volume
PRM	Paromomycin
qRT-PCR	Quantitative real-time polymerase chain reaction
RBCs	Red blood cell counts
rpm	Revolutions per minute
RNA	Ribonucleic acid
RT	Reverse transcriptase
RT-PCR	Reverse transcriptase – polymerase chain Reaction

List of abbreviations

SOD	Superoxide dismutase
SuHV-1	Swine Herpes Virus type-1
TC	Total cholesterol
TGs	Triglycerides
t-SOD	Total superoxide dismutase
TLC	Total leukocytic count
UV	Ultraviolet
VLDL-C	Very low density lipoprotein-cholesterol
WEP	Water extract of propolis
wpi	Week post infection
WSD	Water soluble derivatives

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