شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

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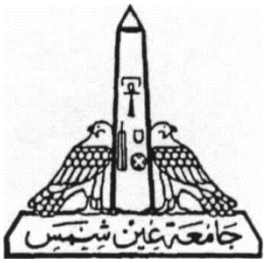

Phytochemical and Biological Studies on Certain Plants Belonging to Family Fabaceae

A Thesis Submitted

In Partial Fulfilment of the Requirements

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(Pharmacognosy)

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CONTENTS

LIST OF ABBREVIATIONS

ALP	Alkaline phosphatase
ALT	Alanine aminotransferase
AMPK	Human prostate cancer cell line
ANOVA	Analysis of variance
APT	Attached proton test
AST	Aspartate aminotransferase
ATCC	American type culture collection
BC	Lymphoma cell line
brd	Broad doublet
bw	Body weight
Caco2	Colorectal adenocarcinoma cells
CCRF-CEM	T lymphoblastoid cell line
CD_3OD	Deuterated methanol-d_4
COSY	Correlation spectroscopy
Cox B4	Coxsackie B4
COX-1/COX-2	Cyclooxygenase enzyme 1/2
DCM	Dichloromethane
DGAT	Diglyceride acyltransferase
DPPH•	2,2-diphenyl-1-picrylhydrazyl radical
EC_{50}	Effective concentration by 50%
ECLB	*Erythrina crista-galli* leaves butanol fraction
ECLD	*Erythrina crista-galli* leaves dichloromethane fraction
ECLE	*Erythrina crista-galli* leaves ethyl acetate fraction
ECLH	*Erythrina crista-galli* leaves hexane fraction
ELISA	Enzyme linked immunosorbent assay
ER α/β	Estrogen receptors α/β
ERE	Estrogen response element
ERK/MAPK	Extracellular signal regulated kinase/mitogen activated protein kinase
ESFBF	*Erythrina speciosa* flowers butanol fraction
ESFDF	*Erythrina speciosa* flowers dichloromethane fraction
ESFEF	*Erythrina speciosa* flowers ethyl acetate fraction
ESFHF	*Erythrina speciosa* flowers hexane fraction
ESI	Electrospray ionization
ESLBF	*Erythrina speciosa* leaves butanol fraction
ESLDF	*Erythrina speciosa* leaves dichloromethane fraction
ESLEF	*Erythrina speciosa* leaves ethyl acetate fraction
ESLHF	*Erythrina speciosa* leaves hexane fraction
FBS	Fetal bovine serum
GSH	Glutathione
HAV	Hepatitis A virus
HCT116	Human colorectal carcinoma cell lines
HDL	High density lipoprotein
HeLa	Human cervical carcinoma cell lines
HepG2	Human hepatocellular liver carcinoma cell line

hGLO I	Human glyoxalase I
HIV	Human immunodeficiency virus
HL-60	Human promyelocytic leukemia cells
HMBC	Heteronuclear multiple bond correlation
HMG-CoA	B-hydroxy β-methylbutyryl-coenzyme A
HPLC	High performance liquid chromatography
HSP	Heat shock protein
HSQC	Heteronuclear single-quantum correlation
HSV 1	Herpes simplex virus type 1
i.p	Intraperitoneal
IC_{50}	Inhibitory concentration by 50%
ID	Internal diameter
IL	Interleukin
INF	Interferon
iNOS	Inducible nitric oxide synthase
K-562	Human immortalized myelogenous leukemia cell line
KB	Human epidermoid carcinoma
LDH	Lactate dehydrogenase
LDL	Low density lipoprotein
LNCaP	Androgen-sensitive human prostate adenocarcinoma cells
LOX	15-lipoxygenase
LPS	Lipopolysaccharide
MCF7	Human breast adenocarcinoma cell line
MDA	Malondialdehyde
MDA-MB-231	Human breast carcinoma cell lines
MIC	Minimum inhibitory concentration
MNTC	Maximum non-toxic concentration
MNTC	Maximum nontoxic dose
MOLT-4	Acute lymphoblastic leukemia cell line
MRC 5	Medical research council cell strain 5
MRSA	Methicillin resistant *Staphylococcus aureus*
MTT	Microculture tetrazolium assay
MTX	Methotrexate
nAChRs	Nicotinic acetylcholine receptors
NCI-H187	Small cell lung carcinoma cell lines
NFF	Human neonatal foreskin fibroblast
NF-κB	Nuclear factor kappa B
NO	Nitric oxide
OVX	Ovariectomized rats
PC	Paper chromatography
PC3	Human prostate cancer cell line
PDA	Photodiode array
PGE_2	Prostaglandin E_2
PLA2	Phospholipase A2
PTFE	Polytetrafluoroethylene Teflon
PTP1B	Protein tyrosine phosphatase 1B
RBA	Receptor binder affinity
RPMI	Roswell Park Memorial Institute medium

TCID	Tissue culture infectious dose
TNF-α	Tumor necrosis factor alpha
TPA	12-*O*-tetradecanoylphorbol-13-acetate
TQD	Triple quadrupole mass spectrometry
TRAIL	Tumor necrosis factor (tnf)-related apoptosis-inducing ligand
U2OS	Human bone osteosarcoma epithelial cells
U87MG	Glioblastoma cell line
VLC	Vacuum liquid chromatography
VLDL	Very low-density lipoprotein
VRE	Vancomycin-resistant enterococcus
VRSA	Vancomycin-resistant *Staphylococcus aureus*