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The Effect of Phytoestrogen consumption on Breast Cancer in Postmenopausal Female Rats

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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I always inspired to complete this work

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List of abbreviations

AOM	: Azoxymethane
APC	: Antigen presenting cell
b.wt.	: Body weight
BC	: Breast cancer
BMI	: Body mass index
CAT	: Catalase
CD8+T	: Cytotoxic T cell that contain CD8 glycoprotein
CDNB	: 1-chloro-2,4-dinitrobenzene
CEA	: Carcinoembryonic antigen
CIS	: Carcinomas insitu
COX-2	: Cyclooxygenase 2
CRP	: C-reactive protein
CTLs	: Cytotoxic T lymphocytes
CYP	: Cytochrome
DAMO	: Diacetylmonoxime
DCIS	: Ductal carcinoma insitu
DEN	: Diethylnitrosoamine
DEN	: Dimethyl nitrosamine
DHBS	: 3,5-Dichloro-2-hydroxybenzene sulfonic acid
DHEA	: Dehydroepiandrosterone
DMBA	: 7,12-dimethyl benzanthracene
DNA	: Deoxyribonucleic acid
E₁S	: Esterone sulfate
E₂	: Estradiol
EDTA	: Ethylenediaminetetraacetic acid
eNOS	: Endothelial NOS
EpRE	: Electrophile responsive element
ER	: Estrogen receptor
ERα	: Estrogen receptor α
ERβ	: Estrogen receptor β
ETS	: Estrogen sulfotransferase
FSH	: Follicle-stimulating hormone
GP_x	: Glutathione peroxidase
GR	: Glutathione reductase

GSH	: Reduced Glutathione
GST	: Glutathione-S- transferase
H&E	: Hematoxylin and eosin
H₂O₂	: Hydrogen peroxide
Hb	: Hemoglobin
HER2	: Human epidermal growth factor receptor 2
HRP	: Horseadish peroxidase
HRT	: Hormone replacement therapy
HSDs	: 17-β-hydroxysteroid dehydrogenase
i.P.	: Intraperitoneal
IGF-1	: Insulin like growth factor-1
IL	: Interleukin
INF_γ	: Interferon γ
iNOS	: Inducible NOS
LCIS	: Lobular carcinoma insitu
LH	: Luteinizing hormone
LN	: Lobular neoplasia
MCA	: Methyl chloranthracene
MCH	: Mean corpuscular hemoglobin
MCHC	: Mean corpuscular hemoglobin concentration
MCV	: Mean corpuscular volume
MDA	: Malondialdehyde
MMP	: Matrix metalloproteinase
NEDA	: N-(1-naphthyl)-ethylenediamine
NF-κB	: Nuclear factor kappa B
NK cells	: Natural killer cells
NMU	: N –methyl N-nitrosourea
nNOS	: Neuronal NOS
NO	: Nitric oxide
NOS	: Nitric oxide synthase
NOX	: NADP oxidase
NQO-1	: NADPH quinine oxidoreductase
OD	: Optical density
P53	: Tumor suppressor protein
p.o.	: Per orally
PCV	: Packed cell volume

PGE₂	: Prostaglandin E ₂
PI-9	: Protease inhibitor-9
PLT	: Platelets
PR	: Progesteron receptor
RBCs	: Red blood cells
ROS	: Reactive oxygen species
SPSS	: Statistical package for social science
STS	: Steroid sulfatase
TAC	: Total antioxidant capacity
TBA	: Thiobarbituric acid
TMB	: 3,3',5,5'tetramethylbenzidine
TNBC	: Triple-negative breast cancer
TNFα	: Tumor necrosis factor α
TRAIL	: TNF-related apoptosis-inducing ligand
TPA	: 12-O-tetradecanoylphorbol-13-acetate
Treg cells	: T regulatory cells
VEGF	: Vascular endothelial growth factor
WBC	: White blood cell
WHO	: World health organization
WR	: Working reagents

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