
Abbreviations

(N)	Normality
°C	Degree centigrade
µg	Microgram
µl	Microliter
µm	Micrometer
µM	Micromole
17β-HSD	17β-Hydroxysteroid dehydrogenase
1O ₂	Singlet oxygen
3D	three dimensional
3β-HSD	3β-Hydroxysteroid dehydrogenase
4HNE	4-hydroxynonenal (4-hydroxy-2-nonenal)
AC	Adenylyl cyclase
ACh	Acetylcholine
AChE	Acetylcholinesterase
ANOVA	Analysis of variance
ANS	Autonomic nervous system
Asc ⁻	Ascorbate radical
AsCH ⁻	Ascorbate
BHC	Benzene Hexachloride
BSA	Bovine serum albumin
BW	Body weight
Ca ⁺⁺	Calcium ion
CaCl ₂	Calcium chloride
CaM	calcium calmodulin complex
cAMP	Cyclic adenosine mono phosphate
CAT	Catalase
CDNB	1-Chloro-2,4-dinitrobenzene
CE	Cornified epithelium cells
cGMP	Cyclic guanosin monophosphate
ChAT	Choline acetyltransferase
CL	Corpus luteum
cm	Centimeter
CNS	Central nervous system
COPD	Chronic obstructive pulmonary disease
COX	Cyclooxygenase
Cu	Copper
CuSO ₄	Copper sulphate
DAG	Diacylglycerol
DDT	Dichlorodiphenyltrichloroethane
DHEA	Dehydroepiandrosterone
DNA	Deoxyribonucleic acid
Dopamine	3,4-Dihydroxyphenyl ethylamine

DTH	Delayed-type hypersensitivity
DTNB	5,5'-dithiobis-2-nitrobenzene
E	Non nucleated epithelial cell
e ⁻	Electron
E ₁	Estrone
E ₂	Estradiol
EDRF	Endothelium derive relaxing factor
EDTA	Ethylene diamine tetra acetic acid
e-NOS	Endothelial NOS
FAO	Food and Agriculture Organization of the United Nations
Fe ²⁺	Iron (II) ion
Fe ³⁺	Iron (III) ion
Fig.	Figure
FSH	Follicle stimulating hormone
GC	Guanylyl cyclase
GDP	Guanosine diphosphate
GF	Graafian follicle
gm	Gram
GnRH	Gonadotropin-releasing hormone
GPx	Glutathione peroxidase
GR	Glutathione reductase
GSH	Reduced glutathione
GSI	Gonadosomatic index
GSSH	Oxidized glutathione
GST	Glutathione-s-transferase
GTP	Guanosine triphosphate
H ⁺	Proton
H ₂ O	Water
H ₂ O ₂	Hydrogen peroxide
H ₂ SO ₄	Sulfuric acid
HCl	Hydrochloric acid
HO ₂ [·]	Hydroperoxyl radical
HOCl	Hypoclorous acid
IMG	Inferior mesenteric ganglion
i-NOS	Inducable NOS
IP ₃	Inositol triphosphate
K ₂ Cr ₂ O ₇	Potassium dichromate
K ₂ HPO ₄	Potassium Hydrogen Phosphate
KCl	Potassium chloride
kDa	kilo-dalton
Kg	Kilogram
KH ₂ PO ₄	Potassium dihydrogen phosphate
L	Leucocyte
L [·]	Lipid radical
L ₁	Lumber region 1
LD ₅₀	Lethal dose 50 (median lethal dose)

LDL	Low density lipoprotein
L-DOPA	L-3,4-dihydroxyphenylalanine
LH	Luteinizing hormone
L-NAME	N- ω -nitro-L-arginine methyl ester
LOO \cdot	Lipid peroxy radical
LOOH	Lipid hydroperoxide
LOX	Lipoxygenase
LPO	Lipid peroxidation
M	Molarity
MB	Methylene blue
MDA	Malondialdehyde
mg	Milligram
MgCl ₂	Magnesium chloride
ml	Milliliter
MLC	Myosin light chain
MLCK	Myosin light chain kinase
MLC-PO ₄	Myosin light-chain phosphatase
M-LDL	Medium low density lipoprotein
MY	Metanil Yellow
N ₂ O ₃	Dinitrogen trioxide
N ₂ O ₄	Dinitrogen tetroxide
Na ⁺	Sodium ion
NaCl	Sodium chloride
NADP	Nicotinamide adenine dinucleotide phosphate
NADPH	Nicotinamide adenine dinucleotide phosphate (reduced)
NaH ₂ PO ₄	Sodium di-hydrogen phosphate
NaHCO ₃	Sodium bicarbonate
NaHCO ₃	Sodium bi-carbonate
NANC	Non adrenergic non cholinergic
NaNO ₂	Sodium nitrogen dioxide
NaOH	Sodium hydroxide
NE	Nucleated epithelium cell
NF-kB	Nuclear factor kappa-light-chain-enhancer of activated B cells
nm	Nanometer
n-NOS	Nuronal NOS
NO	Nitrogen oxide
NO ₂	Nitrogen dioxide
NOS	Nitric oxide synthase
NT	Neurotransmitter
NTS	Nucleus tractus solitarii
O ₂	Oxygen
O ₂ ⁻	Superoxide anion
O ₃	Ozone
OD	Optical density
OH \cdot	Hydroxyl radical
OH ₂ \cdot	hydroperoxyl

ÖL	Alkoxy radical
ONOO ⁻	Peroxy nitrite
ONOOCO ₂ ⁻	Nitrosoperoxy carbonate
ONP	Ovarian nerve plexus
OS	Oxidative stress
O _x -LDL	Oxidized low density lipoprotein
P450c17	17-Alpha Hydroxydase
P450scc	Cholesterol side chain cleavage enzyme
PFA Act	Preservation and Food Adulteration Act
PIP ₂	Phosphatidylinositol 4,5-bisphosphate
PKC	Protein kinase C
PKG	Protein kinase G
PLC	Phospholipase C
PUFA	Poly unsaturated fatty acid
R	Receptor
RNA	Ribonucleic acid
RNS	Reactive nitrogen species
ROO [·]	Peroxyl radical
ROS	Reactive oxygen species
rpm	Revolutions per minute
RS [·]	Thiol radical
RSS	Reactive sulfur species
S ₃ , S ₄	Sacral region 3, 4
SEM	Standard error of mean
SNP	Sodium nitroprusside
SOD	Superoxide dismutase
SON	Superior ovarian nerve
SR	Sarcoplasmic reticulum
SRBC-IgM	Sheep red blood cells immunoglobulin G
StAR	Steroidogenic acute regulatory protein
T ₉ , T ₁₀	Thoracic region 9, 10
TBA	Thiobarbituric acid
TCA	Trichloro acetic acid
TI	Theca-interstitial cells
ŤOC	Tocopherol
vit C	Vitamin C
WBC	White blood cells
WHO	World Health Organization
Zn	Zinc
βP450arom	Aromatase