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LIST OF ABBREVIATIONS

APS	Ammonium persulfate
AR	Androgen receptor
AREs	Androgen response elements
BPH	Benign prostatic hyperplasia
CE	Catechin equivalent
cDNA	Complementary deoxyribonucleic acid
DNA	Deoxyribonucleic acid
Na ₂ HPO ₄	Disodium phosphate
C-3-G	Cyanidin 3-glucoside
DHT	5 α -dihydrotestosterone
DMSO	Dimethyl sulfoxide
DPPH	1, 1- diphenyl 2-picrylhydrazyl
DRE	Digital rectal exam
EA	Ellagic acid
EtOH	Ethanol
FBS	Fetal bovine serum
g	Gram
GAE	Gallic acid equivalent
GnRH	Hypothalamus releases gonadotropin-releasing hormone
HSPs	Heat-shock proteins
L	Liter
LH	Luteinizing hormone
LHRH	Luteinizing hormone-releasing hormone
MeOH	Methanol
μ g	Microgram
μ l	Microliter
μ M	Micromolar

mg	Milligram
ml	Milliliter
mRNA	Messenger ribonucleic acid
M	Molar
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
OD	Optical density
PBS	Phosphate buffer saline
P-3-G	Peonidin-3-glucoside
KCl	Potassium chloride
KH ₂ PO ₄	Potassium Dihydrogenphosphate
PSA	Prostate-specific antigen
PRE	Purple rice extract
RPMI	Roswell Park Memorial Institute medium
SC ₅₀	50% of DPPH scavenging activity
SHBG	Serum sex hormone-binding globulin
Na ₂ CO ₃	Sodium carbonate
NaCl	Sodium chloride
SDS	Sodium dodecyl sulfate
TBS	Tris-buffered saline
TEMED	Tetramethylethylenediamine
TFA	Trifluoroacetic acid
TMPRSS2	Transmembrane protease serine 2
TRAMP	Transgenic adenocarcinoma mouse prostate
TRAP	Transgenic rat for adenocarcinoma of prostate