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ABBREVIATIONS

°C	: degree Celsius
μ	: micro meter
μL	: Micro liter
ALP	: Alkaline Phosphatase
ANOVA	: Analysis of variance
AR	: Androgen Receptor
ATF4	: Activating transcription factor 4
BMD	: Bone Mineral Density
BMP	: Bone morphogenetic protein
BP	: Bisphosphonate
BSP	: Bone SialoProtein
CAGR	: Cumulative annual growth rate
Cbfb	: Core Binding Factor beta
cDNA	: Complementary DNA
CEE	: Conjugated Equine Estrogen
c-AMP	: Cyclic Adenosine Mono Phosphate
CREB	: c-AMP Response Element Binding Protein
DEPC	: Diethyle Pyrocarbonate
DMSO	: dimethyl sulfoxide
DNA	: Deoxyribo Nucleic Acid
dT	: Oligo DT primers
DXA	: X-ray absorptiometry
EDTA	: Ethylene Diamine Tetra Acetate
Egr-2	: Early Growth Response-2
ER	: Endoplasmic Reticulum
ERK	: extracellular signal-regulated kinase
ERT/HRT	: Estrogen / Hormone Replacement Therapy
ERβ	: Estrogen Receptor β
FBS	: Fetal Bovine Serum
FGF-2	: Fibroblast Growth Factor 2
FGFR	: Fibroblast Growth Factor Receptor

GC-MS	: Gas Chromatography mass spectrometry
gm	: gram
GPCR	: G Protein Coupled Receptor
GCR	: Glucocorticoid Receptor
HDAC3	: Histone Deacetylase 3
HIF-1	: Hypoxia-inducible factor
HPLC	: High Pressure Liquid Chromatography
HRP	: HorseRadish Paroxidase
hrs	: hours
IFN- γ	: Interferon Gamma
IGF-1	: Insulin Like Growth Factor-1
IL-xx	: InterLukin-xx (where xx is numbers)
IPA	: Isopropyl Alchohol
IR	: Infra Red
LG	: <i>Litsea Glutinosa</i>
M	: Molar
mA	: milli Ampere
MAPK	: Mitogen activated protein kinase
MC3T3	: murine calvarial cell line
M-CSF	: Macrophage Colony Stimulating Factor
mL	: milli Liter
M-MuLV	: Moloney Murine Leukemia Virus
MPA	: Medroxy Progesterone Acetate
mTOR	: mammalian target of rapamycin
NCBI	: National Center for Biotechnology Information
NCCS	: National Center for Cellular Sciences
NFATc1	: Nuclear Factor of Activated T Cells cytoplasmic
ng	: nano gram
nm	: nano meter
OCN	: OsteoCalcin
ONJ	: Osteonecrosis of Jaws
OPG	: OsteoProteGrin
OVX	: Ovariectomized

PAGE	: Polyacrylamide gel Electrophoresis
PBS	: Phosphate Buffer Saline
PBST	: PBS + Tween 20
PCNA	: Proliferating Cell Nuclear Antigen
PCR	: Polymerase Chain reaction
PI	: Propidium Iodide
PKA	: Protein Kinase A
PTH	: Parathyroid Hormone
PTHR1	: PTH receptor 1
QPCR	: Quantitative PCR
RANK	: Receptor Activator of Nuclear Factor-kB
RANKL	: Receptor Activator of Nuclear Factor-kB Ligand
RNA	: Ribonucleic Acid
rpm	: Rotation Per Minute
RT	: Room temperature
RUNX2	: Runt related transcription factor 2
Saos-2	: Sarcoma osteogenic (-2)
SD	: Standard Deviation
SDS	: Sodium Dodecyl Sulphate
SE	: Standard Error
SERM	: Selective Estrogen Receptor Modulators
SMILES	: simplified molecular-input line-entry system
TCF	: T-Cell Factor
TFE	: Total Flavones of Epimedium
TLC	: Thin layer chromatography
TMB	: Tetramethyl benzidine
TNF- α	: Tumor Necrosis Factor - alpha
TRAcP	: Tartrate Resistant Acid Phosphatase
TSECs	: Tissue Selective Estrogen Modulator
TSH	: Thyroid Stimulating Hormone
USFDA	: United States Food and Drug Administration
VEGF	: Vascular Endothelial Growth Factor
WHO	: World Health Organisation