

List of Abbreviations

AEC	Apical epithelial cap
ALP	Alkaline phosphatase
APES	3-Aminopropyltriethoxysilane
APS	Ammonium persulphate
BCIP	5-bromo-4-chloro-3'-indolylphosphate
BLAST	Basic local alignment search tool
bp	Base pairs
BPB	Bromophenol blue
BSA	Bovine serum albumin
cAMP	Cyclic AMP
CBB	Coommassie brilliant blue
cGMP	Cyclic GMP
Cq	Quantification cycles
CRISPR	Clustered regularly interspaced short palindromic repeats
DEPC	Diethyl pyrocarbonate
DI water	De-ionised water
DMSO	Dimethyl sulphoxide
dpa	Days post amputation
DPX	Mixture of distyrene, plasticizer (tricresyl phosphate) and xylene
ECM	Extracellular matrix
EDTA	Ethylenediaminetetraacetic acid
EP	Prostaglandin E receptor
ESCs	Embryonic stem cells
FGF	Fibroblast growth factor
GITC	Guanidinium thiocyanate
HNSC	Head and neck squamous carcinoma
HPSCs	Hematopoietic stem and progenitor cells
HSCs	Hematopoietic stem cells
IFN	Interferon

IL	Interleukin
LC-MS/MS	Liquid chromatography-tandem mass spectrometry
MMP	Matrix metalloproteinase
MRM	Multiple reaction monitoring
MSCs	Mesenchymal stem cells
NBT	Nitro blue tetrazolium
NCBI	National center for biotechnology information
NED	N-(1-Naphthyl) ethylenediamine
OCT	Optimal cutting temperature cryo-embedding medium
PAGE	Polyacrylamide gel electrophoresis
PBS	Phosphate buffered saline
PG	Prostaglandin
qRT-PCR	Quantitative real-time PCR
RIPA	Radioimmunoprecipitation assay buffer
ROS	Reactive oxygen species
RT-PCR	Reverse transcription PCR
SDS	Sodium dodecyl sulphate
TALENs	Transcription activator-like effector nucleases
TBE	Tris-borate-EDTA buffer
TBS	Tris buffered saline
TEMED	N, N, N', N'-Tetramethylethane-1,2-diamine
TGF β	Transforming growth factor β
TIMP	Tissue inhibitor of metalloproteinases
TMPD	N,N,N',N'-tetramethyl-p-phenylenediamine
TNF	Tumor necrosis factor
Tris	Tris (hydroxymethyl) aminomethane
WE	Wound epithelium