LIST OF ABBREVIATIONS

Act- Actin-like protein

AEC-Apical Epithelial Cap

Alk- Anaplastic Lymphoma Kinase

ANOVA- Analysis of variance

APS- Ammonium Persulfate

BCIP/NBT- 5-bromo-4-chloro-3-indolyl phosphate/ nitro blue tetrazolium

B- Blastema

BMP- Bone Morphogenetic Proteins

BMPR- Bone Morphogenetic Proteins Receptors

BrdU- Bromodeoxyuridine (5-Bromo-2'-deoxyuridine)

BSA- Bovine Serum Albumin

Caspases- Cysteine-dependent aspartate-directed proteases

CDMPs- Cartilage-Derived Morphogenetic Proteins

CNS- Central Nervous System

CPCSEA- Committee for the Purpose of Control and Supervision of Experiments on Animals

DAB- 3, 3’ Diaminobenzidine

DEPC- Diethyl Pyrocarbonate

DF- Differentiation

DMSO- Dimethyl Sulfoxide

dpa- Days post-amputation

DPBS- Dulbecco’s Phosphate Buffered Saline

dpi- Days post injection

DPX- Distrene 80 and dibutyl Phthalate in Xylene

ECM- Extra Cellular Matrix

EGF- Epidermal Growth Factor

EMT- Epithelial-Mesenchymal Transition

FGF-2- Fibroblast Growth Factor 2

FGFR- Fibroblast growth factor receptor

FITC- Fluorescein isothiocyanate

GDF- Growth derived factor

hpa- Hours post amputation

hr- hour/(s)

HRP- Horse Radish Peroxidase

HSPG- Heparan Sulfate Proteoglycan

IAEC- Institutional Animal Ethics Committee

IGF- Insulin-like Growth Factor

IHC- Immunohistochemistry

IP- Intraperitoneal

MAPK- Mitogen-Activated Protein Kinase

min- minute

MMP- Matrix Metalloproteinase

NCBI-National Center for Biotechnology Information

OCT Medium- Optimal cutting temperature Medium

Osc- Osteocalcin

OSC- Oral Squamous cell Carcinoma

Osn- Osteonectin

PBS- Phosphate Buffered Saline

PBST- Phosphate Buffered Saline-Tween-20

PCD- Programmed Cell Death

PFA- Paraformaldehyde

Prrx- Paired-related homeobox

RA- Retinoic Acid

ROS- Reactive Oxygen Species

RT- Room Temperature

RT-PCR- Reverse Transcription Polymerase Chain Reaction

SDS-PAGE- Sodium Dodecyl Sulphate-Polyacrylamide Gel Electrophoresis

Shh- Sonic hedgehog

SPSS- Statistical Package for the Social Sciences

TGF- Transforming Growth Factor

TIMP- Tissue Inhibitor of Matrix Metalloproteinase

VEGF- Vascular Endothelial Growth Factor

VEGFR- Vascular Endothelial Growth Factor Receptor

WE- Wound Epithelium

Wnt- Wingless type