



List of Abbreviations

AA	Arachidonic acid
AEC	Apical epithelial cap
ALP	Alkaline phosphatase
ANOVA	Analysis of variance
AP-1	Activator protein 1
APS	Ammonium persulphate
BCIP	5-bromo-4-chloro-3-indolyl phosphate
BLAST	Basic local alignment search tool
BMP	Bone morphogenetic proteins
bp	Base pairs
BPB	Bromophenol blue
BSA	Bovine serum albumin
cAMP	Cyclic AMP
CBB	Coomassie brilliant blue
CDs	Cluster of differentiation
cGMP	Cyclic GMP
CLP	Common lymphoid progenitor
COX	Cyclooxygenase
CPCSEA	Committee for the Purpose of Control and Supervision of Experiments on Animals
cPGES	Cytosolic prostaglandin E ₂ synthase
Cq	Quantification cycles
CXCL8	C-X-C motif chemokine ligand 8
DAMPs	Damage associated molecular patterns
DAPI	4',6-diamidino-2-phenylindole
DEPC	Diethyl pyrocarbonate
DI water	De-ionised water
DMSO	Dimethyl sulphoxide
DNA	Deoxyribolucleic acid
dpa	Days post-autotomy (tail)/ Days post-amputation (limb)
ECM	Extracellular matrix
EDTA	Ethylenediaminetetraacetic acid
EGF	Epidermal growth factor
EMT	Epithelial to mesenchymal transition

EP	Prostaglandin E receptor
ESCs	Embryonic stem cells
FACS	Fluorescence activated cell sorting
FGF	Fibroblast growth factor
FITC	Fluorescein isothiocyanate
FSC	Forward scatter
G-CSF	Granulocyte colony stimulating factor
GM-CSF	Granulocyte Macrophage colony stimulating factor
GPCRs	G protein coupled receptor
H&E	Haematoxylin and eosin
Ho33342	Hoechst stain-3342
hr	hour/(s)
HRP	Horse radish peroxidase
HSCs	Hematopoietic stem cells
IAEC	Institutional Animal Ethics Committee
IFN	Interferon
Ig	Immunoglobulin
IL	Interleukin
JNKs	Janus kinases
KO	Knock out
LPS	Lipopolysaccharide
mA	Milli amperes
MCP-1	Membrane cofactor protein-1
M-CSF	Macrophage colony stimulating factor
µg	Micro gram
µl	Micro litre
min	Minute
mM	Milli moles
MMP	Matrix metalloproteinase
mPGES	Microsomal PGE synthase
mRNA	Messenger Ribonucleic acid
Myd88	Myeloid differentiation primary response 88
NAbs	Natural antibodies
NBT	Nitro blue tetrazolium
NCBI	National center for biotechnology information
NET	Neutrophil extracellular traps

NF-κB	Nuclear factor- κB
NK	Natural killer cells
nm	Nano meter
NO	Nitric oxide
NSAIDS	Non-steroidal anti-inflammatory drugs
OD	Optical density
PAGE	Polyacrylamide gel electrophoresis
PAMPs	Pathogen associated molecular patterns
PBS	Phosphate buffered saline
PBS-T	Phosphate Buffered Saline-Tween-20
PCR	Polymerase chain reaction
PFA	Paraformaldehyde
PG	Prostaglandin
pg	Pico gram
PGE ₂	Prostaglandin E ₂
Phosphor-CREB	Phosphorylated-cAMP response element binding protein
PLs	Phospholipases
PRRs	Pattern recognition receptors
PVDF	Polyvinylidene fluoride
q-RT-PCR	Quantitative real-time PCR
RNA	Ribonucleic acid
ROS	Reactive oxygen species
RPM	Rotation per minute
RT	Room temperature
RT-PCR	Reverse transcription PCR
s	Seconds
SCF	Skp, Cullin, F-box complex
SDS-PAGE	Sodium dodecyl sulphate-polyacrylamide gel electrophoresis
SSC	Side scatter
STAT	Signal transducer and activator of transcription
TBE	Tris-borate-EDTA buffer
TBS	Tris buffered saline
TEMED	N, N, N', N'-Tetramethylethane-1,2-diamine
TGF	Transforming growth factor
TLR	Toll like receptor
TMPD	N,N,N',N'-tetramethyl-p-phenylenediamine

TNF	Tumor necrosis factor
Tris	Tris (hydroxymethyl) aminomethane
TXs	Thromboxanes
V	Volt
v	Volume
VEGF	Vascular endothelial growth factor
WBC	White blood cells
Wnt	Wingless and Int