

LIST OF ABBREVIATIONS

ASC-2-P	=	Ascorbic acid 2-phosphate
BSA	=	Bovine serum albumin
cDNA	=	Complementary DNA
CFDA-SE	=	Carboxyfluorescein diacetate succinimidyl ester
CFU	=	Colony forming unit assay
CRD	=	Completely Randomized Design
DAPI	=	6-diamino-2-phenylindole
DMSO	=	Dimethyl sulfoxide
DTT	=	Dithiothreitol
ECM	=	Extracellular matrix
FBS	=	Fetal bovine serum
H&E	=	Hematoxylin and eosin
HA	=	Hyaluronic acid
HRP	=	Horseradish peroxidase
hWJ-MSCs	=	Human Wharton's jelly-derived mesenchymal stem cells
IBMX	=	Isobutyl methylxanthine
ICC	=	Immunofluorescence staining
ITS-X	=	Insulin-Transferrin-Selenium-Ethanolamine
MSCs	=	Mesenchymal stem cells
OA	=	Spontaneous osteoarthritis
OCT	=	Optimal cutting temperature compound
PDT	=	Population doubling time
PFA	=	Paraformaldehyde
PVDF	=	polyvinylidene difluoride
qPCR	=	Quantitative polymerase chain reaction
SDS-PAGE	=	Sodium dodecyl-sulfate polyacrylamide gel electrophoresis

LIST OF ABBREVIATIONS (Continued)

TBS	=	Tris-buffered saline
TBST	=	Tris-buffered saline with 0.1% Tween 20
TGF- β 3	=	Transforming growth factor beta 3
α -MEM	=	Alpha modification of Eagle's medium