

LIST OF ABBREVIATIONS

ALCAM	: Activated leukocyte cell adhesion molecule
AT	: Adipose tissue
AT-MSCs	: Adipose tissue-derived mesenchymal stem cells
BM	: Bone marrow
BM-MSCs	: Bone marrow-derived mesenchymal stem cells
BMP 1B	: Bone morphogenetic protein receptor 1B
BMP 4	: Bone morphogenetic protein 4
BMT	: Bone marrow transplantation
CCL	: Chemokine ligand
CFU-F	: Colony forming unit-fibroblasts
DC	: Dendritic cell
ECD	: Effective cell dose
EDTA	: Ethylenediaminetetraacetic acid
EPCs	: Endothelial progenitor cells
FBS	: Foetal bovine serum
GVHD	: Graft-versus-host disease
HLA-DR	: Human leukocytic antigen-DR
hMSCs	: Human mesenchymal stem cells
HSCs	: Hematopoietic stem cells
HSCT	: Hematopoietic stem-cell transplantation
IA	: Intra-arterial
ICAM-1	: Intercellular adhesion molecule-1
IDO	: Indoleamine 2,3 dioxygenase
ALS	: Amyotrophic lateral sclerosis

IFNγ	: Interferon-gamma
IL-1	: Interleukin 1
IL-10	: Interleukin 10
IL-12	: Interleukin 12
IL-2	: Interleukin 2
IL-4	: Interleukin 4
IL-6	: Interleukin 6
IL-8	: Interleukin 8
IP	: Intra-peritoneal
ISCT	: International society for cellular therapy
IV	: Intra-venous
LFA3	: Lymphocyte functional antigen-3
LG-DMEM	: Low glucose Dulbecco's modified Eagle's medium
MHC CLASS II	: Major histocompatibility complex Class II
MLD	: Metachromatic leukodystrophy
MPS-1H	: Mucopolysaccharidosis type 1H
MRI	: Magnetic resonance imaging
MSCGS	: Mesenchymal stem cells growth supplements
MSCs	: Mesenchymal stem cells
NK cells	: Natural killer cells
OI	: Osteogenesis imperfecta
PBS	: Phosphate buffer saline
PCR	: Polymerase chain reaction
PD-1	: Programmed death 1
PD-L1	: Programmed death-ligand 1

PD-L2	: Programmed death-ligand 2
PET	: Positron emission tomography
PGE2	: Prostaglandins E2
PPARγ	: Peroxisome proliferator-activated receptor gamma
PPARγ-2	: Peroxisome proliferator-activated receptor gamma-2
BMPs	: Bone morphogenetic proteins
PRP	: Platelet-rich-plasma
SPECT	: Single photon emission computed tomography
SVF	: Stromal vascular fraction
TAZ	: PDZ-binding motif tafazzin gene
TCR	: T-cell receptor
TGF-β	: Transforming growth factor beta
TGF-β 1	: Transforming growth factor beta 1
TH1	: Type 1 T-helper cells
TH17	: Type 17 T-helper cells
TH2	: Type 2 T-helper cells
TNFα	: Tumour necrosis factor-alpha
T-reg s	: Immune-regulatory T-cells
UC	: Umbilical cord
UCB	: Umbilical cord blood
UC-MSCs	: Umbilical cord-derived mesenchymal stem cells
VCAM	: Vascular cell adhesion molecule
VEGF	: Vascular endothelial growth factor

CST	: Corticosteroids
CBC	: Complete blood picture
CO₂	: Carbon dioxide
BD	: Becton Dickinson
TESCA buffer	: TES buffer + calcium chloride
TES buffer	: N-[tris (hydroxymethyl)methyl]-2-aminoethanesulfonic acid, 2-[(2-hydroxy-1, 1-bis(hydroxymethyl)ethyl)amino]ethanesulfonic acid
M	: Molar
mM	: milliMolar
P/S	: Penicillin/Streptomycin
DMEM	: Dulbecco's modified Eagle's medium
CD	: Cluster of differentiation
PE	: Polyethylene
FITC	: Fluorescein isothiocyanate
RBCs	: Red blood cells
rpm	: Revolutions per minute
tPRP	: Thawed platelet-rich plasma
ASCs	: Adipose-derived stem/stromal cells
IFATS	: International Fat Applied Technology Society
PECAM-1	: Platelet endothelial cell adhesion molecule-1
PDGF	: Platelet derived growth factor
FGF-2	: Fibroblast growth factor-2
EGF	: Epidermal growth factor
IGF	: Insulin-like growth factor
IGF-1	: Insulin-like growth factor-1

bFGF : Basic fibroblast growth factor

PLA : Processed lipoaspirate

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