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DAFTAR SINGKATAN

AdMSC	: Adipose derived mesenchymal stem cell
Ang-1	: Angiopoietin 1
α -SMA	: α -smooth muscle actin
BDL	: <i>Bile duct ligation</i>
ECM	: Extracellular matrix
EMT	: Epithelial Mesenchymal Transition
FGF	: <i>Fibroblast Growth Factor</i>
FIH1	: Factor Inhibiting HIF 1
GAPDH	: <i>Glyceraldehyde 3-phosphate dehydrogenase</i>
GLUT-1	: <i>Glucose Transporter 1</i>
HAF	: Hypoxia associated factor
hAMSC	: Human Amnion derived Mesenchymal Stem Cell
HGF	: <i>Hepatocyte Growth Factor</i>
HIF-1 α	: <i>Hypoxia-inducible factor 1 α</i>
HIF-2 α	: <i>Hypoxia-inducible factor 2 α</i>
HIF-3 α	: <i>Hypoxia-inducible factor 3 α</i>
HIF-1 β	: <i>Hypoxia-inducible factor 1 β</i>
HRE	: <i>Hypoxia-response elements</i>
HSC	: <i>Hepatic Stellate Cells</i>
HSP 70	: Heat Shock Protein 70
Hyp-UCMSC	: Hypoxia-Umbilical Cord Mesenchymal Stem Cell
IGF 1	: Insulin-like Growth Factor 1
IL-1 α	: interleukin 1 α
IL-1 β	: interleukin 1 β
IL-6	: interleukin 6
IL-17A	: interleukin 17A
IL-18	: interleukin 18

JAK	: Janus Kinase
KPE	: Kasai portoenterostomy
lncRNAs	: long non coding ribonucleic acid
MAPK	: Mitogen-activated Protein Kinase
MCP-1	: Monocyte chemoattractant protein 1
MEM- α	: Minimum essential medium α
MFGE8	: <i>milk fat globule-EGF factor 8</i>
miRNAs	: micro ribonucleic acid
MMPs	: Matrix metalloproteinases
MMP9	: Matrix metalloproteinase 9
mRNA	: messenger ribonucleic acid
MSC	: Mesenchymal Stem Cells
NBF	: <i>Neutral Buffered Formalin</i>
NF κ B	: Nuclear Factor kappa B
PAI-1	: Plasminogen Activator Inhibitor 1
PCR	: Polymerase Chain Reaction
PDGF	: <i>Platelet-Derived Growth Factor</i>
PHD	: Prolyl Hidroxylase Domain
PPAR γ	: Peroxisome proliferator-activated receptor γ
qPCR	: quantitative Polymerase Chain Reaction
SART1	: Spliceosome associated factor 1
SGOT	: <i>Serum glutamic-oxaloacetic transaminase</i>
SGPT	: <i>Serum glutamate-pyruvate transaminase</i>
STAT3	: Signal Transducer and Activator of Transcription 3
TGF β	: <i>Transforming growth factor β</i>
TGF β R1	: <i>Transforming growth factor β Receptor 1</i>
Tie2	: Angiopoietin 1 receptor
TIMPs	: Tissue inhibitor of metalloproteinases

- TNF α : *Tumour Necrosis Factor α*
- TSP-1 : *Thrombospondin 1*
- UCMSC : *Umbilical Cord Mesenchymal Stem Cell*
- VEGF : *Vascular Endothelial Growth Factor*
- VEGFR-2 : *Vascular Endothelial Growth Factor Receptor 2*
- VEGFR-3 : *Vascular Endothelial Growth Factor Receptor 3*