

## Abbreviations

ABCA1	ATP-binding cassette subfamily A member 1
ABCG1	ATP-binding cassette subfamily G member 1
ACAT1	Acetyl-coenzyme A:cholesterol acetyltransferase 1
ACTREC	Advanced Center for Treatment Research and Education in Cancer
AmpR	Ampicillin resistance
ANOVA	Analysis of variance
ApoA1	Apolipoprotein A1
ApoB	Apolipoprotein B
ApoE <sup>-/-</sup>	Apolipoprotein E knockout
ARFY	Atherosclerosis risk factors in female youngsters
Arg-1	Arginase-1
ARMY	Atherosclerosis risk factors in male youngsters
ATP	Adenosine triphosphate
Bcl-xl	B cell lymphoma extra large
CCL2	Chemokine ligand 2
CCL5	CC-chemokine ligand 5
CD14	Cluster of differentiation 14
CD36	Cluster of differentiation 36
CD68	Cluster of differentiation 68
CD71	Cluster of differentiation 71
cDNA	Complementary deoxyribonucleic acid
CMV	Cytomegalovirus

Col I	Collagen I
Col III	Collagen III
CPCSEA	Committee for the Purpose of Control and Supervision of Experiments on Animals
CREBH	cAMP-responsive element-binding protein H
CTCF	Corrected total cell fluorescence
CVDs	Cardiovascular diseases
CX <sub>3</sub> CL1	CX <sub>3</sub> C-chemokine ligand 1
CXCL1	CXC-chemokine ligand 1
DAB	3, 3' diaminobenzidine tetrahydrochloride
DAMP	Danger associated molecular pattern
DAPI	4',6-diamidino-2-phenylindole
DCs	Dendritic cells
DEPC	Diethyl pyrocarbonate
DMEM	Dulbecco's modified Eagle's medium
DMSO	Dimethyl sulfoxide
EC	Endothelial cell
ECL	Enhanced chemiluminescence
ED	Endothelial dysfunction
EEL	External elastin lamella
ELISA	Enzyme linked immunosorbent assay
eNOS	Endothelial nitric oxide synthase
ER	Endoplasmic reticulum

FBS	Fetal bovine serum
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
HDL	High density lipoprotein
HDL-Chol	HDL cholesterol
HFHF	High fat high fructose
His	Histidin
HRP	Horseradish peroxide
HSF-1	Heat shock factor 1
HSP10	Heat shock protein 10
HSP27	Heat shock protein 27
HSP60 KD	HSP60 knockdown
HSP60	Heat shock protein 60
HSP65	Heat shock protein 65 (bacterial)
HSP70	Heat shock protein 70
HSP90	Heat shock protein 90
HUVEC	Human umbilical vein endothelial cells
HXE	Hematoxylin eosin
HygroR	Hygromycin resistance
IAEC	Institutional Animal Ethical Committee
ICAM-1	Intercellular adhesion molecule 1
IEL	Internal elastin lamella
IFN- $\gamma$	Interferon $\gamma$
IHD	Ischemic heart disease

IKK	Inhibitor of $\kappa$ B kinase
IL-10	Interleukin 10
IL-1 $\beta$	Interleukin 1 $\beta$
IL-6	Interleukin 6
IMT	Intima media thickness
iNOS	Inducible nitric oxide synthase
KanR	Kanamycin resistance
LDL	Low density lipoprotein
LDL-Chol	LDL cholesterol
LDLR <sup>-/-</sup>	LDL receptor knockout
LFA1	Lymphocyte function-associated antigen 1
LOX1	Lectin-like oxidized LDL receptor 1
LPS	Lipopolysaccharide
MAPK	Mitogen activated protein kinase
MARCO	Macrophage receptor with collagenous structure
MCP-1	Macrophage chemoattractant protein 1
MDM	Monocyte derived macrophages
MeOH	Methanol
mmOxLDL	Minimally modified LDL
MMPs	Matrix metalloproteinases
mRNA	messenger RNA
NCCS	National Center for Cell Science
NCDs	Non-communicable diseases

NF- $\kappa$ B	Nuclear factor $\kappa$ B
NLRP3	NLR Family Pyrin Domain Containing 3
NO	Nitric oxide
NPC1L1	Niemann–Pick C1-like protein 1
Ori	Origin of replicaiton
ORO	Oil Red O
OxLDL	Oxidized LDL
PBS	Phosphate buffered saline
PCSK9	Proprotein convertase subtilisin/kexin type 9
PFA	Paraformaldehyde
PI3K/PKB	Phosphoinositide 3-kinase/Protein kinase B
PIC	Protease inhibitor cocktail
PMA	Phorbol-12-myristate-13-acetate
PMCD	Photoperiodic manipulation induced chronodisruption
PVDF	Polyvinylidene fluoride
RIPA	Radioimmunoprecipitation assay
RNA	Ribonucleic acid
ROS	Reactive oxygen species
RPMI-1640	Roswell Park Memorial Institute medium
RT	Room temperature
RT-PCR	Reverse transcriptase polymerase chain reaction
SDS-PAGE	Sodium dodecyl sulphate- polyacrylamide gel electrophoresis
SEM	Standard error of mean

shRNA	short hairpin RNA
SMC	Smooth muscle cell
SR-A1	Scavenger receptor class A member 1
SR-B1	Scavenger receptor class B member 1
SREC1	Scavenger receptor expressed by endothelial cells 1
SR-PSOX	Scavenger receptor for phosphatidylserine and oxidized LDL
SRs	Scavenger receptors
SV40	Simian virus 40
TC	Total cholesterol
TG	Triglycerides
TLRs	Toll like receptors
TNF- $\alpha$	Tumor necrosis factor $\alpha$
VADC	Vascular associated dendritic cells
VCAM-1	Vascular cell adhesion molecule 1
VLA4	Very late antigen 4
VLDL	Very low density lipoprotein
VSMC	Vascular smooth muscle cell
WHO	World Health Organization
wk	Weeks
ZT	Zeitgeber time