

List of Abbreviations

ACS	Acute coronary syndrome
ACTH	Adrenocorticotrophic hormone
ADCC	Antibody dependent cell-mediated cytotoxicity
ADME	Absorption-Distribution-Metabolism-Elimination
ANOVA	Analysis of variance
APO A-I gene	Apolipoprotein A-I gene
APS	Ammonium Persulphate
ASGP-Rs	Asialoglycoprotein receptors
AS-ODNs	Antisense oligodeoxynucleotides
ATCC	American Type Culture Collection
AUC	Area under the curve
AUMC	First moment of plasma concentration-time curve
BCA	Bicinchoninic Acid
BMS	Bristol-Myers Squibb
Boc-His-DSPE	Boc-histidinylated DSPE
BOD incubator	Bio-Oxygen Demand incubator
BSA	Bovine Serum Albumin
CABG	Coronary artery bypass grafting
CAD	Coronary artery disease
CAM	Cell adhesion molecules
CAOV3	Human ovarian adenocarcinoma cells
CD	Cyclodextrin
CDs	Cyclodextrins
CD-spectroscopy	Circular Dichroism spectroscopy
CE	Cholesteryl ester
CETP	Cholesteryl ester transfer protein
CH	Constant heavy region
CL	Total body clearance
CPCSEA	Committee for the purpose of control and supervision of experiments on Animals
CPP	Cell penetrating peptide
CrEL	Cremophor EL
Cryo-TEM	CRYO-Transmission Electron Microscope
CT scan	Computerized tomography scan
CV	Coefficient of variation
CVD	Cardiovascular disease
DAPI	4',6-diamidino-2-phenylindole
DC-Chol	3 β [N-(N', N'-dimethylaminoethane)-carbonyl] cholesterol
DCP-TEPA	Dicetyl phosphate-tetraethylenepentamine

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DDS	Drug delivery systems
DFW	Dnase free water
DMEM	Dulbecco's Modified Eagle Medium (high glucose)
DMPC	Dimyristoylphosphatidylcholine
DNA	Deoxyribose nucleic acid
DOGS	Diocetylamidoglycylspermine
DOPE	Dioleoylphosphatidylethanolamine
DOSPA	(+)-N,N-dimethyl-N-[2-(sperminecarboxamido)ethyl]-2,3-bis(dioleyloxy)-1-propaniminium pentahydrochloride
DOTAP	N-[1-(2,3-dioleyloxy)propyl]-N,N,N-trimethylammonium chloride (DOTMA) , [1,2-bis(oleoyloxy)-3-(trimethylammonio)propane]
DOTMA	N-[1-(2,3-dioleyloxy)propyl]-N,N,N-trimethylammonium chloride
DPPC	Dipalmitoylphosphatidylcholine
DSC	Differential Scanning Calorimetry
DSPE	1,2-Distearoyl-sn-glycero-3-phosphoethanolamine
DSPE-mPEG2000	2-distearoyl-sn-glycero-3-phosphoethanolamine [methoxy (polyethyleneglycol)-2000]
ECM	Extracellular matrix
EDC	Ethyl dimethylaminocarbodiimide
EDTA	Ethylene diamine tetra acetic acid
EE	Entrapment efficiency
EtBr	Ethidium bromide
Fab	Antigen-binding fragments
FACS	Fluorescence-activated cell sorting
FBS	Fetal Bovine Serum
FcRn	Neonatal Fc receptor
FDP	Fixed Dose Procedure
FITC	Fluorescein Isothiocyanate
FT-IR	Fourier transform infrared spectroscopy
Gal	Galactose
GalNAc	N-acetylgalactosamine
GM	Monosialoganglioside
hCG	Human chorionic gonadotropin
HDaD	Helper-dependent adenovirus
HDL	High density lipoprotein
HE4	Human Epididymis protein 4
HEPA Filter	High efficiency air particulate air filter
His-DSPE	Histidinylated DSPE
HSPC	Hydrogenated Soya Phosphatidylcholine

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HSPG	Heparan sulfate proteoglycans
IAEC	Institutional Animal Ethical Committee
IC₅₀	Inhibitory concentration 50
ICH	International conference on harmonization
IP	Intra peritoneal
IR spectroscopy	Infrared spectroscopy
IV	Intra venous
LB	Luria veg Broth
LCAT	Lecithin-cholesterol acyltransferase
LD₅₀	Median Lethal Dose
LDL	Low-density lipoprotein
LOD	Limit of Detection
LOQ	Limit of Quantification
LSCM	Laser scanning confocal microscope
MEND	Multifunctional envelope type nanodevices
MLRA	Multiple linear regression analysis
MLV	Multilamellar vesicles
MRI	Magnetic Resonance Imaging
MRT	Mean residence time
MTD	Maximum Tolerated Dose
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide
NHS	N-hydroxysuccinimide
NMR	Nuclear Magnetic Resonance
NOEL	No Observable Effect Level
PBS	Phosphate Buffer Saline
PDGF	Platelet-derived growth factor
PDI	Polydispersity index
pDNA	Plasmid DNA
PEG	Polyethylene glycol
PEI	Polyethyleneimine
PFA	Paraformaldehyde
P-gp	P-glycoprotein
RES	Reticulo-endothelial system
RNA	Ribose nucleic acid
ROS	Reactive oxygen species
RP-HPLC	Reverse-phase high performance liquid chromatography
RSD	Relative Standard deviation
RT	Room temperature
RT-PCR	Real Time Polymerase Chain Reaction

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SA	Stearyl amine
SD	Standard deviation
SD Rats	Sprague Dawley rats
SDS	Sodium dodecyl sulfate
SDS-PAGE	SDS-Polyacrylamide Gel Electrophoresis
SEM	Scanning electron microscopy
SLN	Solid lipid nanoparticles
SNALPs	Stable nucleic acid-lipid particles
TAE buffer	Tris/Acetate/EDTA buffer
TEMED	N,N,N',N'tetramethylethylenediamine
TG	Triglyceride
TNB	2-nitro-5-thiobenzoic acid
TNBS assay	2,4,6-trinitrobenzene sulfonic acid assay
TNF-α	Tumor necrosis factor- α
UDP	Up-Down Procedure
USFDA	US Food and Drug Administration
VCAM-1	Vascular cell adhesion molecule-1
VEGF	Vascular endothelial growth factor
VH	Variable heavy region
VL	Variable light region
VLDL	Very low density lipoprotein
V_{ss}	Volume at steady state
XRD	X-ray diffraction