

ADVANCED HEALTHCARE MATERIALS

Supporting Information

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Biomimetic Bilayered Scaffolds for Tissue Engineering: From Current Design Strategies to Medical Applications

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List of abbreviations

2D	two-dimensional
3D	three-dimensional
ACP	amorphous calcium phosphates
ADMSCs	human adipose-derived multipotent stem cells
AgSD	silver sulphadiazine
AJP	aerosol jet printing
BC	bacterial cellulose
BCP	biphasic calcium phosphates
BG	bioactive glass
BMP-2	bone morphogenetic protein 2
BMSCs	bone marrow stromal cells
CAD	computer-aided design
CaP	calcium phosphate
CaSO ₄	calcium sulfate
CGF	concentrated growth factor
CNF	cellulose nanofiber
Col	collagen
CS	chitosan
DIPS	diffusion induced phase separation
DLP	digital laser printing
DN	double network
ECM	extracellular matrix
ECs	endothelial cells
EDC	adipose tissue-derived
FDM	fused deposition modelling
GAGs	glycosaminoglycans
HA	hyaluronic acid
HACs	human articular chondrocytes
HAP	hydroxyapatite
HAX	cross-linked hyaluronic acid
hBMSCs	human bone marrow-derived stem cells
HDFCs	human dental follicle stem cells
HLC	human-like-collagen
HMECs	human microvascular endothelial cells
HOBs	human osteoblasts

HP	heparin
HRP	horseradish peroxidase
HUCMSC	human umbilical cord mesenchymal stem cells
HUVECs	human umbilical vein endothelial cells
IJP	ink jet printing
IMC	intrafibrillarly mineralized collagen
KGN	kartongenin
Mg	magnesium
MSCs	mesenchymal stem cells
OCD	osteocondral defect
OCTE	osteocondral tissue engineering
OCN	osteocalcin
OPN	osteopontin
P(LLA-CL)	poly(L-lactide-co- ϵ -caprolactone)
PA6	polyamide6
PCL	ϵ -poly(caprolactone)
PEO	polyethylene oxide
PET	polyethylene terephthalate
PGA	polyglycolide
PGCL	poly(glycolide-co- ϵ -caprolactone)
PGS	poly(glycerol sebacate)
PLA	poly(lactic acid)
PLCL	poly(L-lactide-co- ϵ -caprolactone)
PLGA	poly(lactic-co-glycolic acid)
PLL	poly-L-lysine
PLLA	poly(L-lactic acid)
PS	potato starch
PTFE	poly(lactic-co-glycolic) acid
PU	polytetrafluoroethylene
PVA	polyurethane
RGD	polyvinyl alcohol
rhVEGF	recombinant human vascular endothelial growth factor
RUNX2	runt-related transcription factor 2
SF	silk fibroin
SLA	stereolithography
SLS	selective laser sintering
SM	silymarin
SMCs	smooth mesenchymal cells
SOX9	SRY-box transcription factor 9
Sr	strontium
TCP	tricalcium phosphate
TE	tissue engineering
TEVGs	tissue-engineered vascular grafts
TGF- β 1	transforming growth factor- β 1
TIPS	thermally induced separation method
VSMCs	vascular smooth muscle cells
Zn	zinc
β -TCP	β -tricalcium phosphate