

ADVANCED HEALTHCARE MATERIALS

Supporting Information

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Conductive hydrogels with dynamic reversible network for biomedical applications

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Table 1. Abbreviations list

Abbreviation	
2D	Two-Dimensional
3D	Three-Dimensional
AA	Acrylic Acid
Ad	Adamantane
ALD	Aldehyde Group
Alg	Alginate
AM	Acrylamide
AuNP	Gold Nanoparticle
CD	Cyclodextrins
CH	Conductive Hydrogel
CHO	Aldehyde Group
CNT	Carbon Nanotube
CSH	Chitosan
DA	Dopamine

DBSA	Dodecylbenzenesulfonic Acid
DC	Direct Current
DCH	Dynamic Conductive Hydrogels
DMSO	Dimethyl Sulfoxide
DRG	Dorsal Root Ganglion
eCA	PEDOT:PSS In Collagen/Alginate Gels
ECM	Extracellular Matrix
EDOT	3,4-Ethylenedioxythiophene
EMG	Electromyography
ER	Endoplasmic Reticulum
ES	Electrical Stimulation
EthD-1	Ethidium Homodimer-1
GAG	Glycosaminoglycan
GC	Glycol Chitosan
GelMA	Gelatin Methacryloyl
Geln	Gelatin
GO	Graphene Oxide
HA	Hyaluronic Acid
hADSC	Human Adipose-Derived Stromal Cells
Hep	Heparin
HGF	Self-Assembling Peptide
HPAE	Highly Branched Poly(Amino Ester)
IPS Cell	Induced Pluripotent Stem Cells
KA	Lysine-Alanine
MI	Myocardial Infarction
MSC	Mesenchymal Stromal Cells
NHS	N-Hydroxysuccinimide
NIPAM	Nisopropylacrylamide
NSC	Neural Stem Cells
OECTs	Organic Electrochemical Transistors
OSA	Oxidized Sodium Alginate
PAA	Poly(Acrylic Acid)
PAM	Polyacrylamide
PANI	Polyaniline
PBS	Phosphate-Buffered Saline
pCNTs	Pristine CNT
PDA	Polydopamine
PEDOT	Poly(3,4-Ethylenedioxythiophene)
PEG	Polyethylene Glycol
PEGDA	Poly(Ethylene Glycol) Diacrylate
PPGS	PEDOT:PSS/Guar Slime
PPy	Polypyrrole
PSS	Polystyrene Sulfonate
PVA	Polyvinyl Alcohol
QRS	Electrocardiogram Curves

rGO	Reduced GO
RT	Room Temperature-Formed
S-Alg	Sulfated Alginate
SC	Schwann Cell
SCI	Spinal Cord Injury
SD	Standard Deviation
SWCNT	Single-Walled CNT
TA	Tannic Acid
UPy	2-Ureido-4[1H]-Pyrimidinone
