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LIST OF ABBREVIATIONS AND ACRONYMS

Cm	Centimeter
cm^{-1}	Per centimeter
%	Percentage
µg/mL	Microgram per millilitre
µL	Microlitre
Min	Minutes
S	Seconds
N	Newton
ng mL^{-1}	Nanogram per millilitre
mM	Millimole
V	Volt
Nm	Nanometre
N/m	Newton metre
µm	Micrometre
H	Hour
mL	Milliliter
G	Gram
g^{-1}	Per gram
Mg	Milligram
^{o}C	Degree Celsius
mA	Milliampere
kV	Kilovolt
NCCS	National Centre for Cell Sciences
TNAU	Tamil Nadu Agricultural University
NCEZID	National Center for Emerging and Zoonotic Infectious Diseases
DHQP	Division of Healthcare Quality Promotion
ISO	International Organization for Standardization
$HAuCl_4$	Chloro auric acid

3D	Three-dimensional
E. coli	*Escherichia coli*
S. aureus	*Staphylococcus aureus*
B. subtilis	*Bacillus subtilis*
S. paratyphi	*Salmonella paratyphi*
A. flavus	*Aspergillus flavus*
DOX	Doxorubicin
HEK-293	Human embryonic kidney cells
A431	Human skin cancer cells
A375	Human skin cancer cells
OD	Optical density
ZOI	Zone of Inhibition
IC_{50}	Half minimal inhibitory concentration
MTT	3-(4,5- dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
DMEM	Dulbecco's Modified Eagles Medium
DMSO	Di Methyl Sulphoxide
BSS	Balanced Salt Solution
HEPES	4-(2-hydroxyethyl)-1-piperazine ethane sulphonic acid
IVD	Intervertebral disc
VEC	Vascular endothelial cell
ROS	Reactive oxygen species
NIR	Near-infrared
LDPE	Low-density Polyethylene
TMPTA	Trimethylolpropane triacrylate
EB	Electron beam
OECs	Olfactory Ensheathing Cells
NSCs	Neural Stem Cells
DPPH	2,2-diphenyl-1-picrylhydrazyl
PI	Propidium iodide
AO/EtBr	Acridine Orange/Ethidium Bromide

SPR	Surface Plasmon Resonance
UV	Ultraviolet
FTIR	Fourier Transform Infrared Spectroscopy
XRD	X-ray Diffractometer
FWHM	Full width at half maximum
FESEM	Field Emission Scanning Electron Microscope
EDS	Energy Dispersive Spectroscopy
TGA	Thermogravimetric analysis
DTG	Difference Thermo Gravimetry
WD	Working Distance
FDT	Fabricated Depilation Tester
HBT	Hair Breaking Time
Std AA	Standard Ascorbic Acid
Std (V)	Commercially available depilatory VEET
Std (F)	Commercially available depilatory FEM
SD	Standard Deviation
AgNP	Silver nanoparticles
AuNPs	Gold nanoparticles
rGO	Reduced graphene oxide
GO	Graphene oxide
AuNPs-rGO	Gold nanoparticles-reduced graphene oxide composite
CR	*Cyperus rotundus*
HA	*Hemigraphis alternata*
PS	Pumice stone
CRa	Aqueous extract of *Cyperus rotundus*
HAa	Aqueous extract of *Hemigraphis alternata*
CRablank	CRa in water
HAablank	HAa in water
PSablank	Pumice stone in water
CRaNP	Synthesized gold nanoparticles using aqueous extract of *Cyperus rotundus*

HAaNP	Synthesized gold nanoparticles using aqueous extract of *Hemigraphis alternata*
PSaNP	Synthesized gold nanoparticles using aqueous dispersion of Pumice stone
CRarGO	Synthesized reduced graphene oxide using aqueous extract of *Cyperus rotundus*
HAarGO	Synthesized reduced graphene oxide using aqueous extract of *Hemigraphis alternata*
CRaNC	Synthesized nanocomposite using CRaNP and CRarGO
HAaNC	Synthesized nanocomposite using HAaNP and HAarGO
CA	Cetyl alcohol
MM	Multani mitti
CM	Constant Mixture- group of constituents used in depilatory cream preparation
CM_X	Percentages of Constant Mixture
LOD	Loss on Drying
$CAMM_2$	Prepared depilatory blank sample with base materials
CAMMCRa	Aqueous extract of *Cyperus rotundus* aided depilatory cream
$CAMMPS_b$	Pumice stone aided depilatory cream
CAMMCRPS	Pumice stone and aqueous extract of *Cyperus rotundus* aided depilatory cream
CAMMCRPSHA	Pumice stone, *Hemigraphis alternata* and *Cyperus rotundus* aided depilatory cream
CAMMCRaNP	CRaNP aided depilatory cream
CAMMCRaNP(A)	Prepared depilatory cream with 0.017% of CRaNP
CAMMPSaNP	PSaNP aided depilatory cream
$SLFgNP_0$	Prepared blank skin substitute with base materials
$SLFgCRaNP_1$	Prepared skin substitutes with 5 mg/mL of CRaNP
$SLFgCRaNP_2$	Prepared skin substitutes with 10 mg/mL of CRaNP
$SLFgCRaNP_3$	Prepared skin substitutes with 15 mg/mL of CRaNP
$SLFgHAaNP_1$	Prepared skin substitutes with 5 mg/mL of HAaNP
$SLFgHAaNP_2$	Prepared skin substitutes with 10 mg/mL of HAaNP
$SLFgHAaNP_3$	Prepared skin substitutes with 15 mg/mL of HAaNP