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List of Abbreviation

%	: Percent
°C	: Degree of Celsius
CO₂	: Carbon dioxide
PA	: Polyamines
Spd	: Spermidine
Spm	: Spermine
Cad	: Cadaverine
Put	: Putrescine
CA	: Carbonic anhydrase
POD	: Peroxidase
CAT	: Catalase
SOD	: Super oxide dismutase
ROS	: Reactive oxygen species
SS	: Semi-solid
LM	: Liquid medium
RAPD	: Random Amplified Polymorphic DNA
TIS	: Temporary immersion system
RITA	: Recipient for Automated Temporary Immersion system
CIS	: Continuous Integrated System
BIT	: Bubble Induced Turbulence
MATIS	: Modular Automated Tissue Engineering System
SETIS	: Single-Use Environmental Tubular Immobilized System
TIBS	: Two-Interconnected Bioreactor System
CIB	: Cell Immobilization Bioreactor
IBA	: Indole-3-Butyric Acid
NAA	: Naphthalene Acetic Acid
BAP	: 6-Benzylaminopurine
Kin	: Kinetin
2iP	: N ⁶ -(2-Isopentenyl) Adenine
ABA	: Abscisic Acid

IAA	: Indole-3-Acetic Acid
IPA	: N6-Isopentenyladenine
iPR	: N6-(Δ^2 -Isopentenyl) Adenosine
tZR	: Trans-Zeatin Riboside
tZ	: Trans-Zeatin
GA3	: Gibberellic Acid
LSE	: Liquid seaweed extract
PGRs	: Plant growth regulators
mm	: millimetres
mM	: Millimolar
SCSM	: Sucrose containing semi-solid medium
SCLM	: Sucrose containing liquid medium
SFSM	: Sucrose free semi-solid medium
SFLM	: Sucrose free liquid medium
cm	: Centimetres
SEM	: Scanning electron microscope
gm	: Gram
TI	: Temporary immersion
CD	: Critical difference
CV	: Coefficient variance
SEM	: Standard error mean
mg	: Milligram
FW	: Fresh weight
fwt	: Fresh weight tissue
DNA	: Deoxyribonucleic Acid
ml	: Millilitre
M	: Molar
Tris-Cl	: Tris (Tris(hydroxymethyl)aminomethane) Hydrochloride
EDTA	: Ethylenediaminetetraacetic Acid
TE	: Tris-EDTA
SDS	: Sodium Dodecyl Sulphate
RNA	: Ribonucleic Acid
UV	: Ultraviolet

OD	:	Optical Density
PCR	:	Polymerase Chain Reaction
T_m	:	Melting Temperature
ng	:	Nanogram
μM	:	Micromolar
pmol	:	Picomole
