

## Abbreviations

Abbreviations	Full form
μl	Microliter
μg	Microgram
ANOVA	Analysis of variance
BAPNA	Benzoyl DL-argine paranitroanilide hydrochloride
br.	Branches
BSA	Bovine serum albumin
Chl a	Chlorophyll a
Chl b	Chlorophyll b
Chl.	Chlorophyll
Cm	Centimeter
Conc.	Concentration
Cu	Copper
cv.	Cultivar
DMSO	Dimethyl sulphoxide
DNSA	Dinitrosalysilic acid
DW	Distilled water
Dwt.	Dry weight
EC	Electrical conductivity
EMS	Ethyl methane sulphonate
EtOH	Ethyl alcohol
Fam.	Family
Fe	Iron
Fre.	Frequency
F-value	is used to determine P-value
Fwt.	Fresh weight
FYM	Farm yard manure
g	Gram
g <sup>-1</sup>	Per gram
GR	Gamma radiation
Gy	Grays (unit of gamma radiation)
ha	Hectare
hrs	Hours
K	Potassium
Kcal	Kilo calary
Kg	Kilogram
kR	Kilo rad
L	Liter
LPA	Low phytic acid
LSD	Least significant difference

M	Molar
M <sub>1</sub>	Immediate generation following the mutagenic treatments
M <sub>2</sub>	Progenies from seeds of M <sub>1</sub> generation
M <sub>3</sub>	Progenies from seeds of M <sub>2</sub> generation
Max.	Maximum
Mg	Milligram
Mg	Magnesium
Min	Minute
Min.	Minimum
ml	Milliliter
mM	Millimolar
Mn	Manganese
Mol.	Mole
MS	Maharashtra state
N	Nitrogen
NR	Nitrate reductase
OD	Optical density
P	Phosphorus
PAL	Phenylalanine ammonia-lyase
PCA	Perchloric acid
plant <sup>-1</sup>	Per plant
ppm	Parts per million
pri.	Primary
PS I	Photosystem one
PS II	Photosystem two
Qtls	Quintals
Rm	Relative mobility
ROS	Reactive oxygen species
rpm	Revolution per minute
S	is a constant characteristic of the substrate
S	Second
S	Sulphur
SD	Standard deviation
SEM	Standard Error Means
UV	Ultra-violet
v/v	Volume by volume
v/w	Volume by weight
var.	Variety
wt.	Weight
yr	Year