

ABBREVIATIONS

AFB - Auxin Signaling F-box Protein	miRNA - micro RNA
AGO1 – ARGONAUTE 1	MnSOD - manganese superoxide dismutase
ANOVA - One way analysis of variance	MYBs - myeloblastosis
AP2-like - apetala 2-like transcription factors	nat-siRNAs- natural antisense siRNAs
APS - ammonium persulfate	NBT - nitro-blue tetrazolium
APX - ascorbate peroxidase	NFDM - non-fat dry milk
ARF – auxin response factor	NF-Y - Nuclear Factor Y
CAT - catalase	NO _x - Nitrous oxide
CBB - Coomassie brilliant blue	PAGE - polyacrylamide gel electrophoresis
CBP20 - Cap-binding protein 20	PFCs - perfluorocarbons
CBP80 - Cap-binding protein 80	PNK - Polynucleotide Kinase
CCS1 – copper chaperone for superoxide dismutase	ppb - parts per billion
CFCs - chlorofluorocarbons	ppmv - parts per million by volume
CH ₄ - methane	pre-miRNA - precursor miRNA
chsA - chalcone synthase	pri-miRNA - primary miRNA transcript
CO ₂ - carbon dioxide	PTGS - post transcriptional gene silencing
COX5b-1 - cytochrome <i>c</i> oxidase subunit 5b-1	PVDF - polyvinylidene difluoride
CPL1/FRY2 - C-Terminal Domain Phosphatase-like 1/FIERY 2	RdRp - RNA-dependent RNA polymerase
CSD1 – copper/zinc superoxide dismutase 1	RISC - RNA-induced silencing complex
CuZnSOD - copper-zinc superoxide	ROS - Reactive oxygen species

dismutase

DCL1 - DICER-LIKE1

DDL - Dwdle-like

DREs - Dehydration-Responsive Element

DTT - Dithiothreitol

FeSOD - iron superoxide dismutase

GHGs - Greenhouse gases

GRFs - Growth regulating transcription factors

HFCs - hydro fluorocarbons

HST - HASTY

HYL1 - hyponastic leaves 1

IBA - indolebutyric acid

Ic - *I. campanulata*

IPCC - Intergovernmental Panel on Climate Change

Jp - *J. pentantha*

LDMC - leaf dry matter content

lsiRNAs - long siRNAs

MDA - Malondialdehyde

RPTM - reads per ten million

RWC - relative water content

SCLs - Scare-Crow like transcription factors

SDS PAGE - sodium dodecyl sulfate polyacrylamide gel electrophoresis

siRNA - small interfering RNAs

SLA - specific leaf area

SOD - superoxide dismutase

SPLs - Squamosa promoter binding protein-like transcription factors

STA1 - Stabilized-1

ta-siRNAs - trans-acting siRNAs

TBARS - thiobarbituric acid-reactive-substances

TBST - Tris Base Saline Tween

TCPs - Teosinte branched/Cycloidea/Proliferating cell factors (PCF)

TEMED - Tetramethylethylenediamine

TGS - Transcriptional gene silencing

TIR1 - Transport Inhibitor Response Protein 1