

LIST OF ABBREVIATIONS

°C:	Degree Centigrade
ABC:	ATP binding cassettes
abc10:	ATP-binding cassette (ABC) transporters 10
abc9:	ATP-binding cassette (ABC) transporters 9
ANOVA:	Analysis of variance
APEDA:	Agricultural and Processed Food Products Export Development Authority
ATP:	Adenosine triphosphate
bp:	Base pairs
BP:	Biological Process
BUSCO:	Benchmarking Universal Single-Copy Orthologs
CarEs:	Carboxylesterases
CAS RN:	CAS Registry Number
CC:	Cellular Component
CDS:	CoDing Sequence
cest4:	Carboxylesterase
CH₃Br:	Methyl bromide
CHS:	Chitin synthase
CncC:	Cap 'n' collar isoform C
CoA:	Coenzyme A
COG:	Cluster of orthologous groups
COI:	Cytochrome c oxidase I
COX:	Cyclooxygenase
CRD:	Completely Randomized Design
CRISPR:	Clustered regularly interspaced short palindromic repeats
cyp450s:	cytochrome P450 monooxygenases
DDT:	Dichloro-diphenyl-trichloroethane
DEGs:	Differentially expressed genes
DEPC:	Diethyl pyrocarbonate

DNA:	Deoxyribonucleic acid
DNS/ DNSA:	3,5-Dinitrosalicylic acid
EC:	Enzyme Commission
ECM:	Extracellular matrix
EPA:	Environmental Protection Agency
FDR:	False discovery rate
GABA:	Gamma-aminobutyric acid
GDP:	Gross Domestic Product
GO:	Gene ontology
gpx:	glutathione peroxidase
GSSG:	Glutathione disulfide
gstd2:	glutathione S-transferases delta 2
gstd3:	glutathione S-transferases delta 3
gst:	glutathione S transferases
H_{LC50}:	High lethal concentration
Hsp:	Heat shock proteins
IUPAC:	International Union of Pure and Applied Chemistry
JAK-STAT:	Janus kinase/signal transducers and activators of transcription
KAAS:	KEGG automatic annotation server
Kdr:	Kinase insert domain receptor
KEGG:	Kyoto encyclopedia of genes and genomes
KOG:	Eukaryotic Orthologous Groups of proteins
LAC:	Laccase
LC₅₀:	Lethal concentration
LLC₅₀:	Low lethal concentration
Log:	Logarithm
LPO:	Lipid peroxidation
Maf:	Musculoaponeurotic fibrosarcoma oncogene homolog
MAPK:	Mitogen-activated protein kinase
MF:	Molecular function
MFOs:	Mechanism of detoxification and multifunctional oxidases

MtDNA:	Mitochondrial DNA
NADH:	Nicotinamide adenine dinucleotide (NAD) + hydrogen (H)
NCBI:	National Centre for Biotechnology Information
NGS:	Next-generation sequencing
OECD:	Organization for Economic Co-operation and Development
OP:	Organophosphate
ORFs:	Open reading frames
PAPS:	Phosphoadenosine 5'-phosphosulfate
PCR:	Polymerase chain reaction
pdi:	protein disulfide isomerase
P-gp:	P-glycoprotein
PH₃:	phosphine
ppm:	parts per million
PR:	Percent repellency
RI:	Repellent index
RNA:	Ribonucleic acid
RNAi:	RNA interference
ROS:	Reactive oxygen species
RPM:	Revolutions per minute
RT-PCR:	Real time PCR
SD:	Standard deviations
SEM:	Standard error mean
SI:	Susceptibility index
SOD:	Superoxide dismutase
SULTs:	Sulfotransferases
UDP:	Uridine diphosphate
UGTs:	Uridine 5'-diphospho-glucuronosyltransferase
UN-FAO:	United Nation - Food and Agriculture Organisation
VGSC:	Voltage-gated sodium channels