

List of Abbreviations

ANOVA	: Analysis of Variance
µg/L	: Microgram per litre
µmole	: Microgram mole
° C	: Degree Celsius
AchE	: Acetylcholinesterase
AO/EB	: Acridine orange/ Ethidium bromide
bp	: Base pair
CAT	: Catalase
cDNA	: Complementary DNA
COI	: Cytochrome oxidase subunit 1
DAPI	: 4',6-diamidino-2-phenylindole
DCF₂DH/	: 2',7' –dichlorofluorescein diacetate
H₂DCFDA	
DMSO	: Dimethyl sulfoxide
DNase	: Deoxyribonuclease
EDTA	: Ethylene diamine tetra acetic acid
ELISA	: Enzyme-linked immune sorbent assay
EPA	: Environmental Protection Agency
FACs	: Fluorescence-activated cell sorting
FAO	: Food and Agriculture Organization
FBS	: Fetal bovine serum
FITC	: Fluorescein isothiocyanate
GSH	: Reduced Glutathione
H₂O₂	: Hydrogen Peroxide
IC	: inhibitory concentration
IGMRI	: Indian Grain Storage Management and Research Institute
mg/L	: Milligram per liter
mm	: Mili meter

MTT	: 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
OD	: Optical Density
OH[·]	: Hydroxyl radical
Ops	: Organophosphate
PBS	: Phosphate buffer saline
PFA	: Paraformaldehyde
pmole	: picogram mole
ppm	: parts per million
RNA	: Ribonucleic acid
RNAi	: RNA interference
ROS	: Reactive Oxygen Species
rpm	: Revolutions per minute
RT-PCR	: Reverse transcription Polymerase Chain Reaction
SD	: Standard deviation
SEM	: Standard Error Mean
SOD	: Superoxide dismutase
SoMG	: <i>Sitophilus oryzae</i> mid gut cell
SPSS	: Statistical Package for the Social Sciences
WHO	: World Health Organization
β-actin	: Beta-actin