

List of Abbreviations

AGs	: Agrochemicals
ANOVA	: Analysis of Variance
AO/EB	: Acridine orange/ Ethidium bromide
AchE	: Acetylcholinesterase
bp	: Base pair
⁰ C	: Degree Celsius
CAT	: Catalase
cDNA	: Complementary DNA
CYP	: Cytochrome P₄₅₀
CZ	: Curzate
DAPI	: 4',6-diamidino-2-phenylindole
DCFDA	: 2',7' –dichlorofluorescein diacetate
DNase	: Deoxyribonuclease
DCF	: 2', 7'-dichlorofluorescence
DCFH-DA	: 2', 7'-dichlorodihydrofluorescein diacetate
DEPC	: Diethylpyrocarbonate
DMSO	: Dimethyl sulphoxide
dsDNA	: double stranded DNA
DTNB	: 5-5 dithiobis (2-nitrobenzoic) acid
ELISA	: Enzyme-linked immune sorbent assay
EDTA	: Ethylenediamine tetraacetic acid
FACS	: Fluorescence-activated single cell sorting
FBS	: Fetal bovine serum
FAO	: Food and Agriculture Organization
FBS	: Fetal bovine serum
gapdh	: Glyceraldehyde 3-phosphate dehydrogenase
FITC	: Fluorescein isothiocyanate
GSH	: Reduced Glutathione
GSSH	: Glutathione disulfide
H₂O₂	: Hydrogen Peroxide
HD	: High Dose
IC₅₀	: Inhibitory concentration

ICG cell line	: <i>Catla catla</i> gill cell line
IMI	: Imidachloropid
LD	: Low Dose
LPO	: Lipid Peroxidation
MD	: Medium dose
MN	: Micronutrient
mRNA	: messenger RNA
MTT	: 3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolium Bromide
OECD	: Organization for Economic Co-operation and Development
OH[·]	: Hydroxyl radical
PBS	: Phosphate buffer saline
ppm	: parts per million
PCNA	: Proliferating cell nuclear antigen
PCR	: Polymerase Chain Reaction
PE	: Pyrazosulfuron ethyl
PUFAs	: Poly unsaturated fatty acids
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
ROS	: Reactive Oxygen Species
RT-PCR	: Real time- Polymerase Chain Reaction
SEM	: Standard Error Mean
SOD	: Superoxide dismutase
RNA	: Ribonucleic acid
RNAi	: RNA interference
ROS	: Reactive Oxygen Species
rpm	: Revolutions per minute
RT-PCR	: Reverse Transcription Polymerase Chain Reaction
SEM	: Standard Error Mean
SOD	: Superoxide dismutase
TBA	: Thiobarbituric acid
TBARS	: Thiobarbituric reactive substance

WHO : **World Health Organization**
µg/ml : **Microgram per millilitre**
µmole : **Microgram mole**