

List of Abbreviations

ANOVA	: Analysis of Variance
bp	: base pairs
BSI	: Brain Somatic Index
°C	: Degree Centigrade
CAT	: Catalase
cDNA	: complimentary DNA
chat	: Choline acetyl transferase
COI	: Cytochrome oxidase
CYP₄₅₀	: Cytochrome P₄₅₀
<i>D. gazella</i>	: <i>Digitonthophagusgazella</i>
DA	: Dopamine
DCF	: 2',7'-dicholofluorescence
DCFHDA	: 2',7'-dichlorodihydrofluorescein diacetate
ddc	: Dopa decarboxylase
DEPC	: Diethylpyrocarbonate
DEPC	: Diethylpyrocarbonate
dll	: distalless
DMSO	: Dimethyl sulfoxide
DNA	: Deoxyribonucleic acid
dNTP	: Deoxynucleoside triphosphates
DOB	: Diameter of burrow opening
DTNB	: 5,5'-dithiobis-(2-nitrobenzoic acid)
EDTA	: Ethylene Diamine tetra acetic acid
ems	: empty spiracle
GoSI	: Gonadosomatic Index
GSH	: Reduced Glutathione

GSI	: Gut somatic index
GSTs	: Glutathione-S-transferases
H₂O₂	: Hydrogen peroxide
HD	: High dose
it	: Inotocin
itr	: Inotocin receptor
IUPAC	: International Union of Pure and Applied Chemistry
LC₅₀	: Lethal concentration
LD	: Low dose
LPO	: Lipid peroxidation
MD	: Medium dose
MEGA	: Molecular Evolutionary Genetics Analysis
mip	: Myosin inhibiting peptide
NBO	: Number of Burrow Openings
NCBI	: National Center for Biotechnology Information
NO	: Nitric oxide
NOB	: Number of Branches of burrows
nos	: Nitric oxide synthase
npf	: Neuropeptide f
npfr	: Neuropeptide f receptor
NPs	: Neuropeptides
NTs	: Neurotransmitters
OA	: Octopamine
OECD	: Organization for Economic Co-operation and Development
OPT	: O-pthaldehyde
PCR	: Polymerase chain reaction
ppm	: part per million

RNA	: RNA
ROS	: Reactive oxygen species
RPM	: Revolutions per minute
RT-PCR	: Real time PCR
SEM	: Standard error mean
SOD	: Superoxide dismutase
TBA	: Thiobarbituric acid
TBARS	: Thiobarbituric reactive substance
TD	: Total Depth