

**MODULATION OF THE ANTIOXIDANT DEFENSES IN
DIFFERENT DEVELOPMENTAL STAGES OF *S. mansoni*
BY PRAZIQUANTEL AND ARTEMETHER**

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List of abbreviations

ART	: Artemether.
ATPase	: Adenosine triphosphatase.
C _{max}	: Peak plasma concentration.
$\cdot\text{CCl}_3$: Trichloromethyl radical.
CCl ₄	: Carbon tetrachloride.
CDNB	: 1-chloro-2,4-dinitrobenzene.
cGPx	: Cytosolic and mitochondrial glutathione peroxidase.
CNS	: Central nervous system.
CT-SOD	: Cytosolic superoxide dismutase.
DNA	: Deoxyribonucleic acid.
DTNB	: 5,5'-dithiobis-(2-nitrobenzoic acid).
DTPA	: Diethylenetriaminepentaacetic acid.
EC-SOD	: Extracellular superoxide dismutase.
EDTA	: Ethylenediaminetetraacetic acid.
GPx	: Glutathione peroxidase.
GSH	: Glutathione reduced form.
GSSG	: Glutathione oxidized form.
GR	: Glutathione reductase.
GST	: Glutathione-S- transferase.
GSTO 1-1	: Glutathione-S- transferase omega.
H ₂ O ₂	: Hydrogen peroxide.
h	: Hour.
HOCl	: Hypochlorous acid.
LOO \cdot	: Lipoperoxy radical.
LOOH	: Lipid hydroperoxide.

M	: Molar concentration.
MDA	: Malondialdehyde.
mRNA	: Messenger ribonucleic acid.
NAD(P) ⁺	: Nicotinamide adenine dinucleotide phosphate oxidized form.
NAD(P)H	: Nicotinamide adenine dinucleotide phosphate reduced form.
NO	: Nitric oxide.
nsGPx	: Non-selenium-dependent glutathione peroxidase.
¹ O ₂	: Singlet-state molecular oxygen.
³ O ₂	: Triplet-state molecular oxygen.
[•] O ₂	: Superoxide radical.
[•] OH	: Hydroxy radical.
[•] ONOO	: Peroxynitrite radical.
PBS	: Phosphate-buffered saline.
PHGPx	: Phospholipid hydroperoxide glutathione peroxidase.
PUFA	: Poly unsaturated fatty acid.
PZQ	: Praziquantel.
ROOH	: Peroxides.
ROS	: Reactive oxygen species.
<i>S. haematobium</i>	: <i>Schistosoma haematobium</i> .
<i>S. japonicum</i>	: <i>Schistosoma japonicum</i> .
<i>S. mansoni</i>	: <i>Schistosoma mansoni</i> .
sGPx	: Selenium-dependent glutathione peroxidase.
SP-SOD	: Signal peptide-containing Cu/Zn superoxide dismutase.
SDS	: Sodium dodecylsulfate.
SOD	: Superoxide dismutase.

$t_{1/2}$: Terminal half life.

t_{max} : The time required to reach the peak plasma concentration.

TBA : Thiobarbituric acid.

TBARS : Thiobarbituric acid reactive substances.

TMP : Tetramethoxypropane.

TNB : 5-thio-2-nitrobenzoic acid.

UV : Ultraviolet.

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