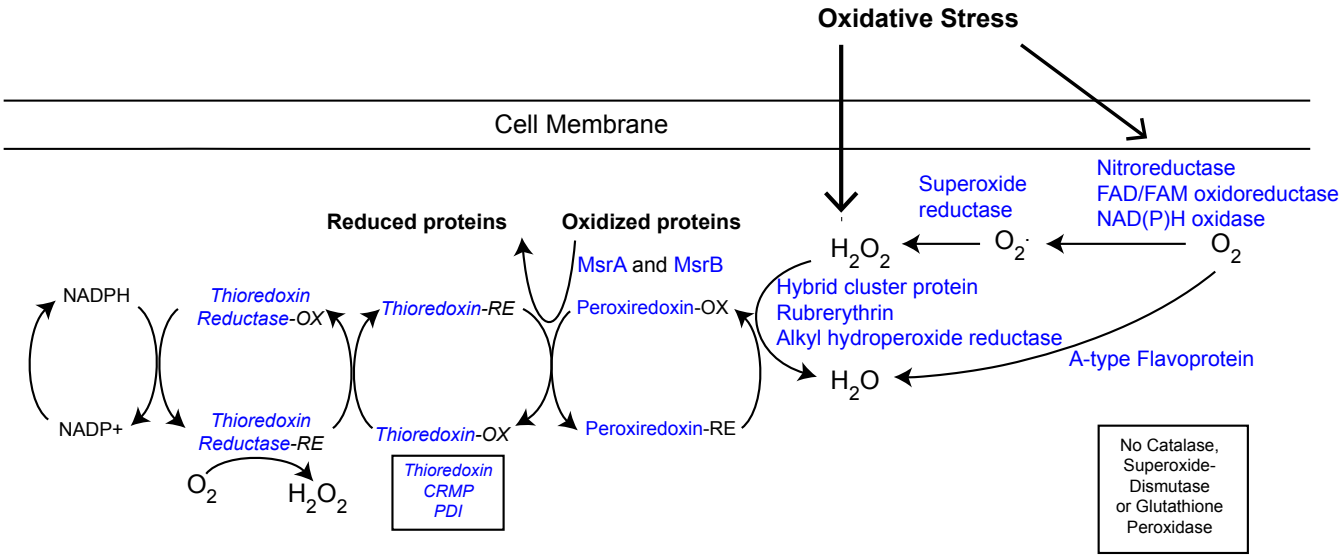
Oxidative Stress
Cell Membrane
Superoxide reductase
Nitroreductase
FAD/FAM oxidoreductase
NAD(P)H oxidase
Reduced proteins
Oxidized proteins
MsrA and MsrB
$H_2O_2$
$O_2^-$
$O_2$
NADPH
Thioredoxin Reductase-OX
Thioredoxin-RE
Peroxiredoxin-OX
Hybrid cluster protein
Rubrerythrin
Alkyl hydroperoxide reductase
$H_2O$
A-type Flavoprotein
NADP+
Thioredoxin Reductase-RE
Thioredoxin-OX
Peroxiredoxin-RE
$O_2$
$H_2O_2$
Thioredoxin
CRMP
PDI
No Catalase, Superoxide-Dismutase or Glutathione Peroxidase