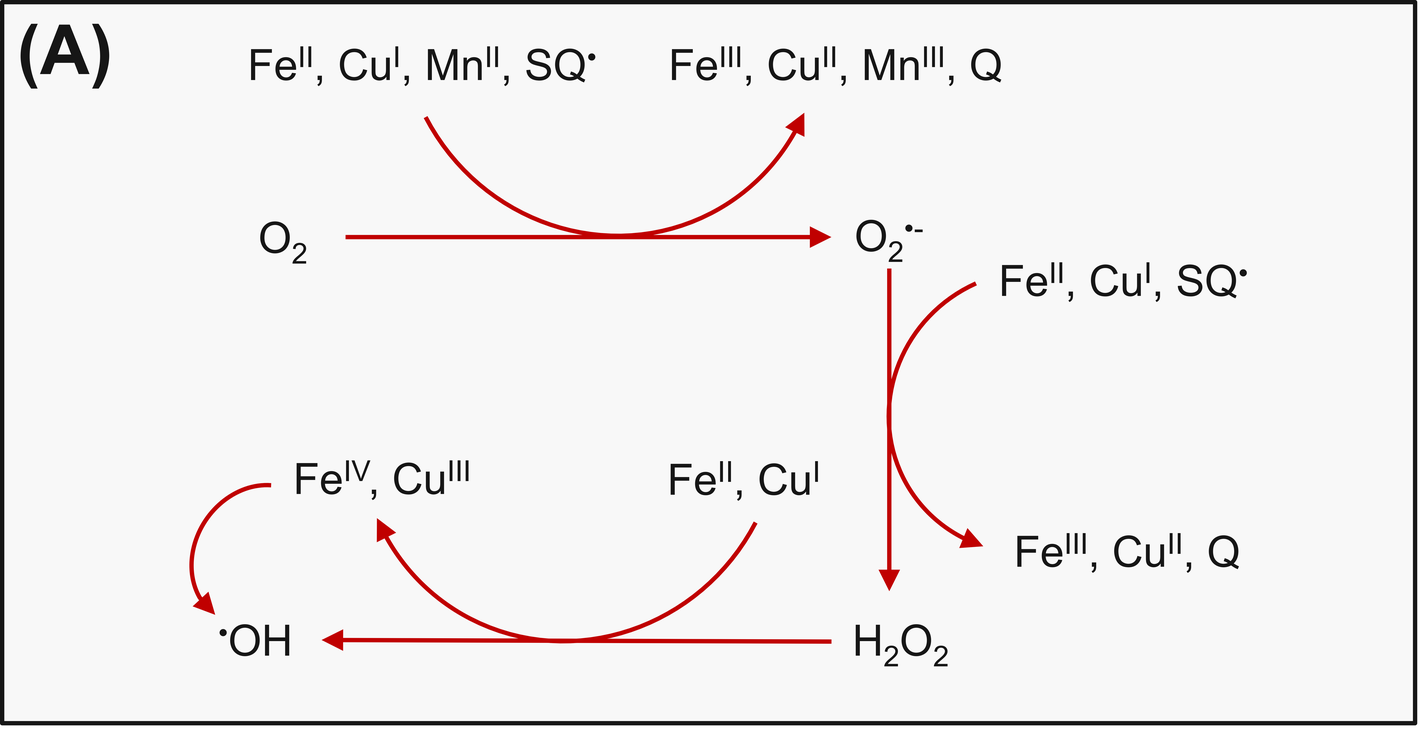
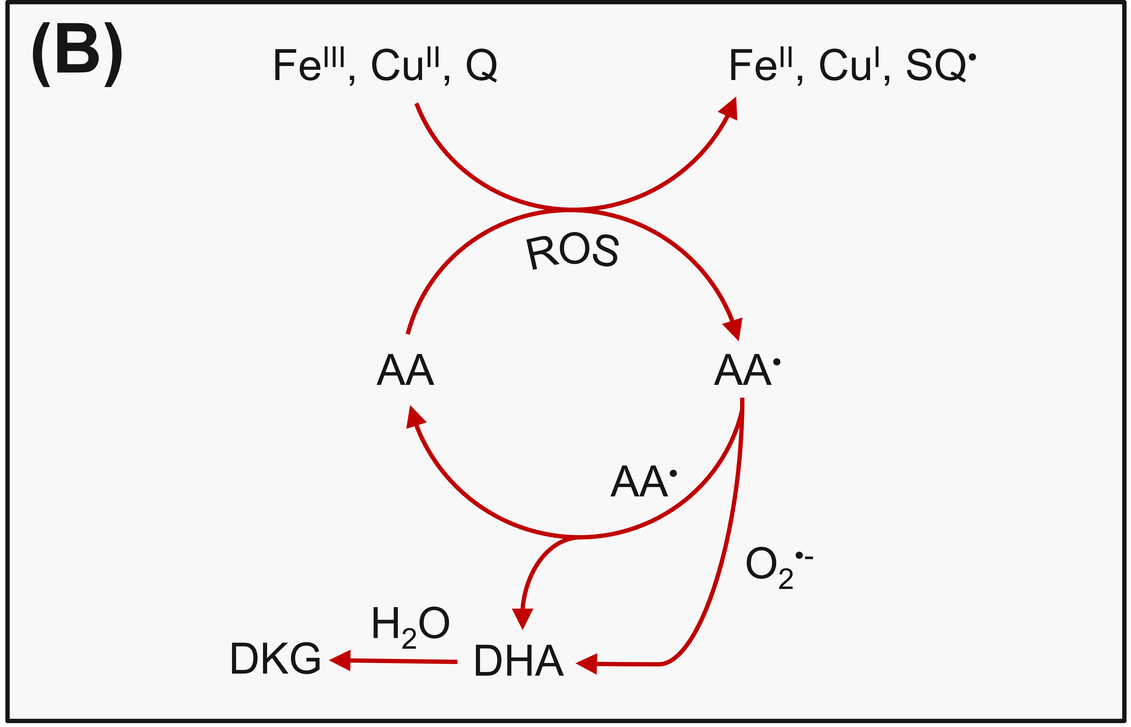
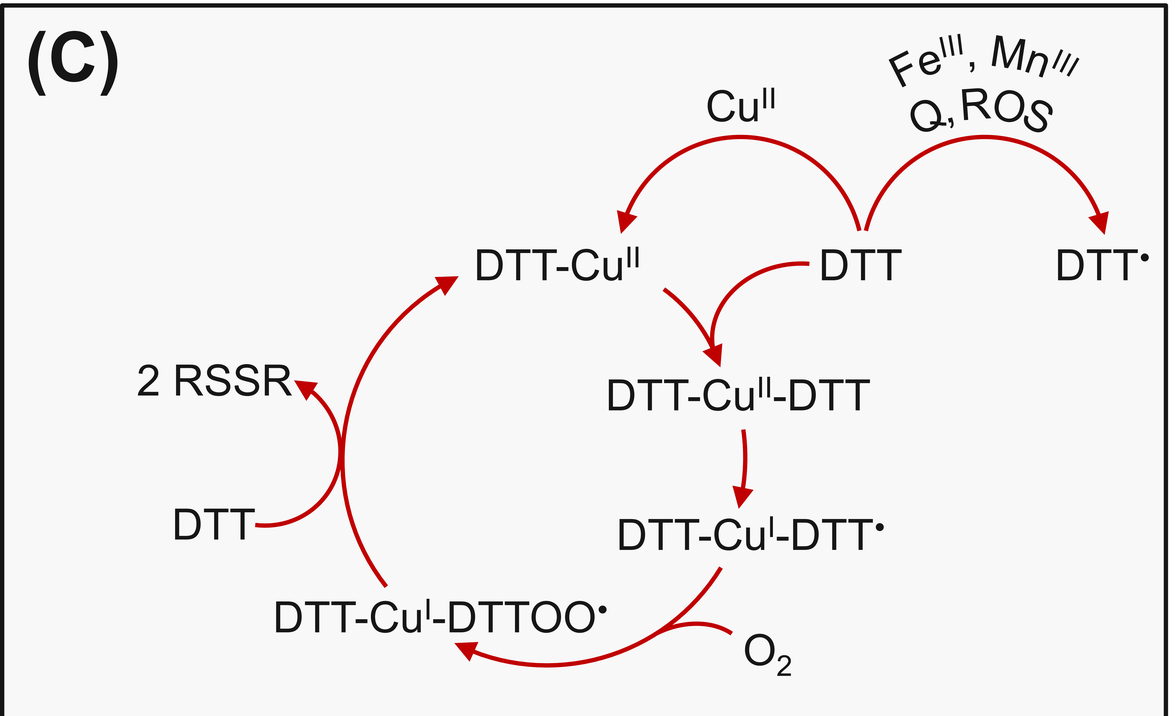
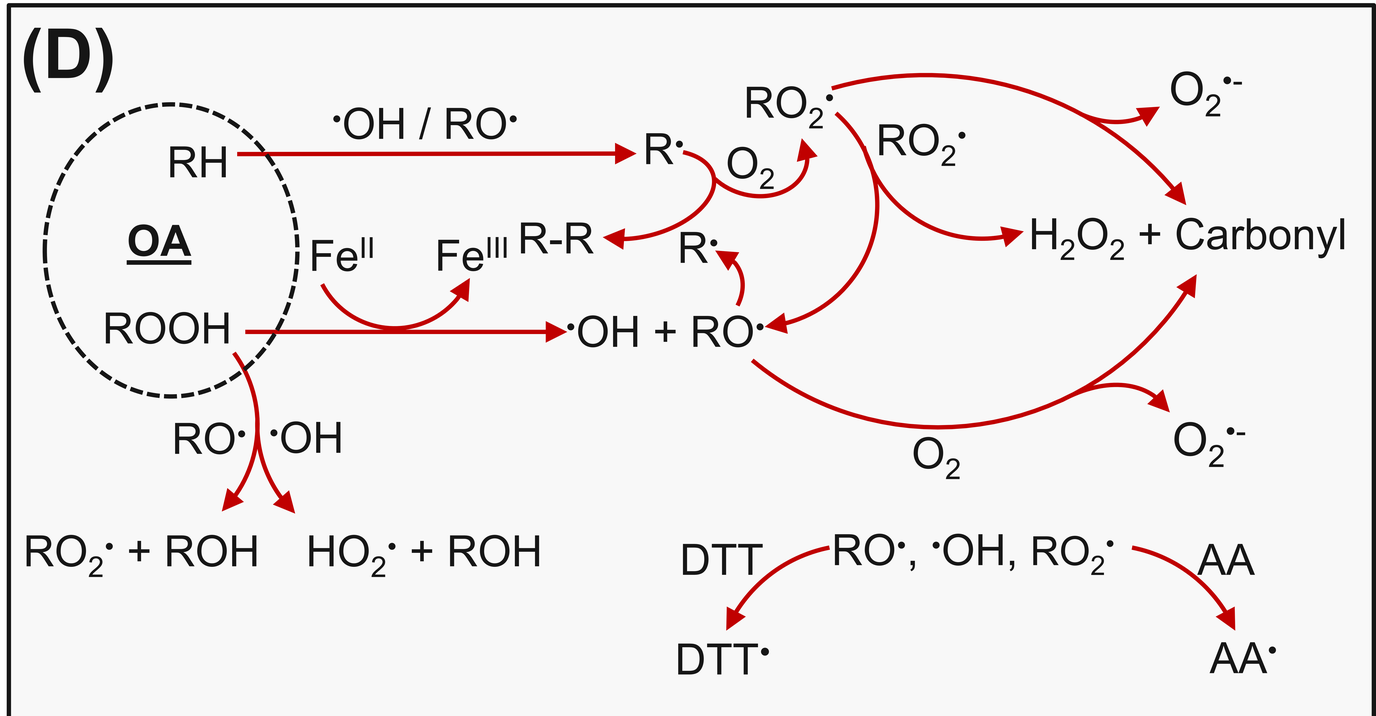

(A)
Fe^II, Cu^I, Mn^II, SQ•
Fe^III, Cu^II, Mn^III, Q
O2
O2•-
Fe^II, Cu^I, SQ•
Fe^III, Cu^II, Q
Fe^IV, Cu^III
Fe^II, Cu^I
•OH
H2O2


(B)
Fe^III, Cu^II, Q
Fe^II, Cu^I, SQ•
ROS
AA
AA•
AA•
O2•-
H2O
DKG
DHA


(C)
Cu^II
Fe^III, Mn^III
Q, ROS
DTT-Cu^II
DTT
DTT•
2 RSSR
DTT-Cu^II-DTT
DTT
DTT-Cu^I-DTT•
DTT-Cu^I-DTTOO•
O2


(D)
RH
OA
ROOH
•OH / RO•
R•
O2
RO2•
RO2•
O2•-
Fe^II
Fe^III
R-R
R•
H2O2 + Carbonyl
•OH + RO•
RO•
•OH
O2
O2•-
RO2• + ROH
HO2• + ROH
DTT
RO•, •OH, RO2•
AA
DTT•
AA•