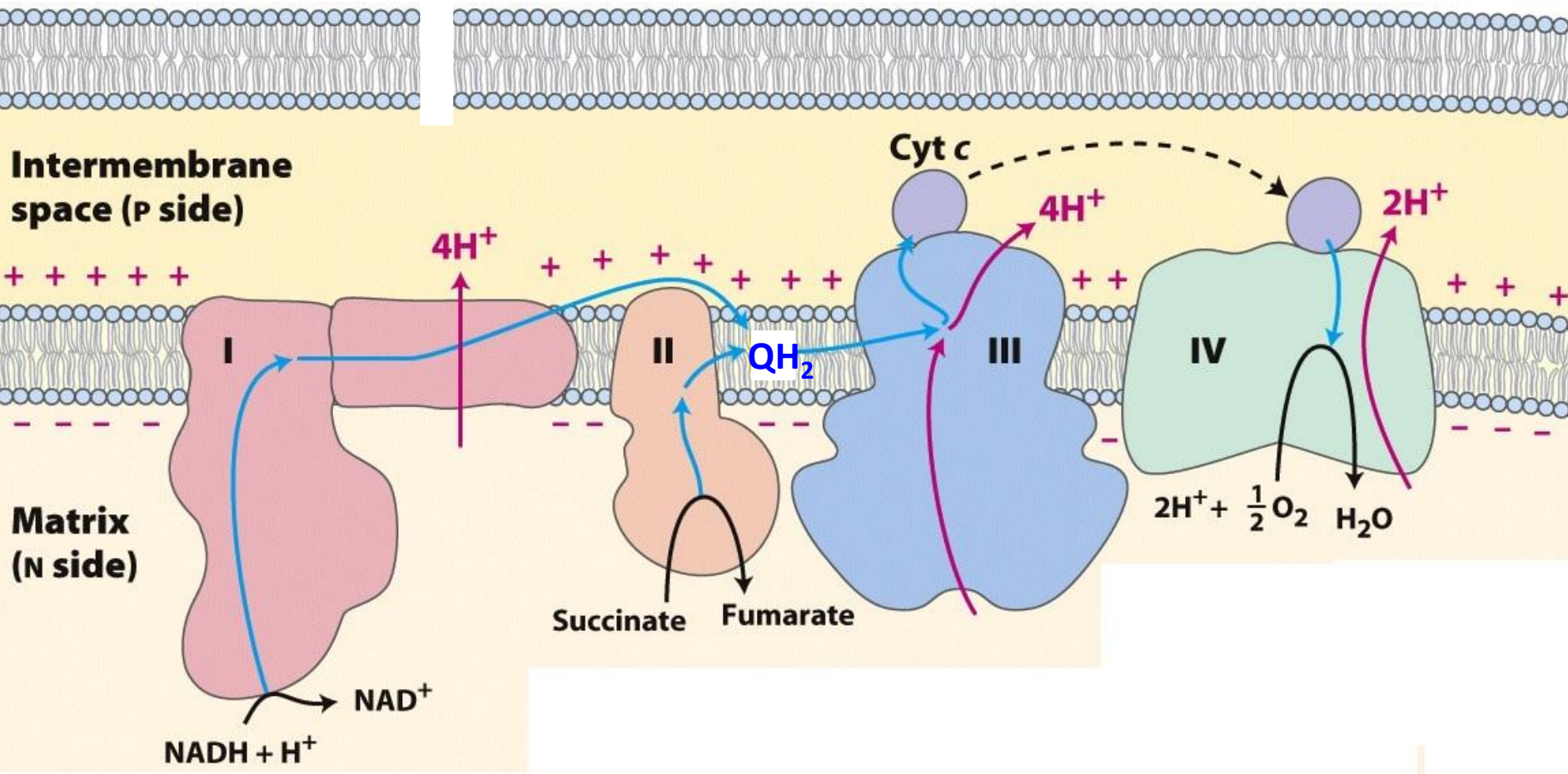
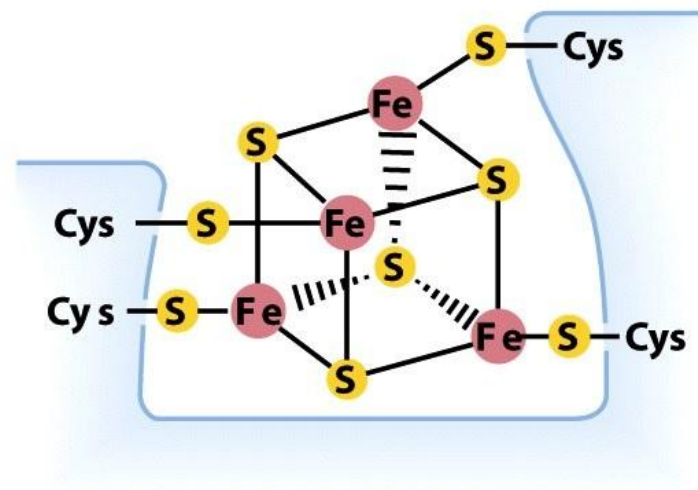
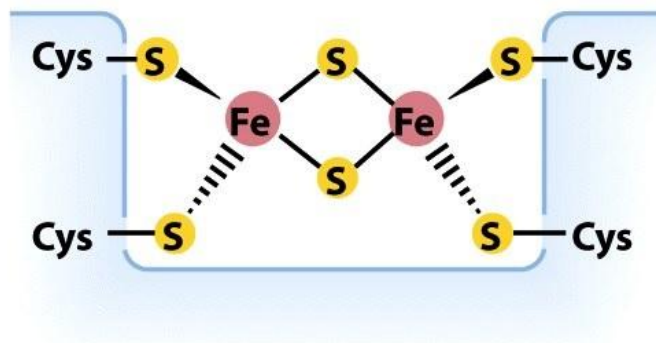
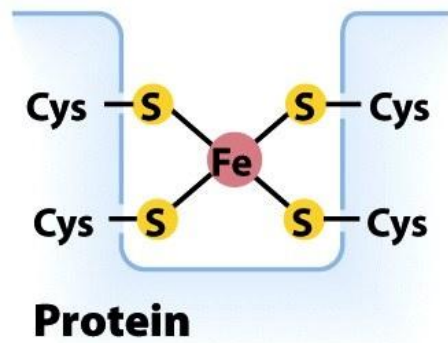


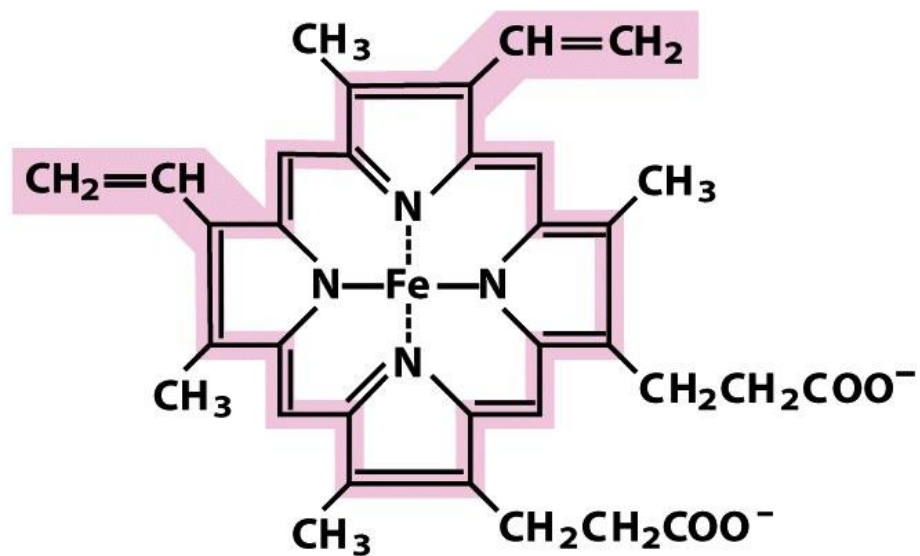
Overview of ETC

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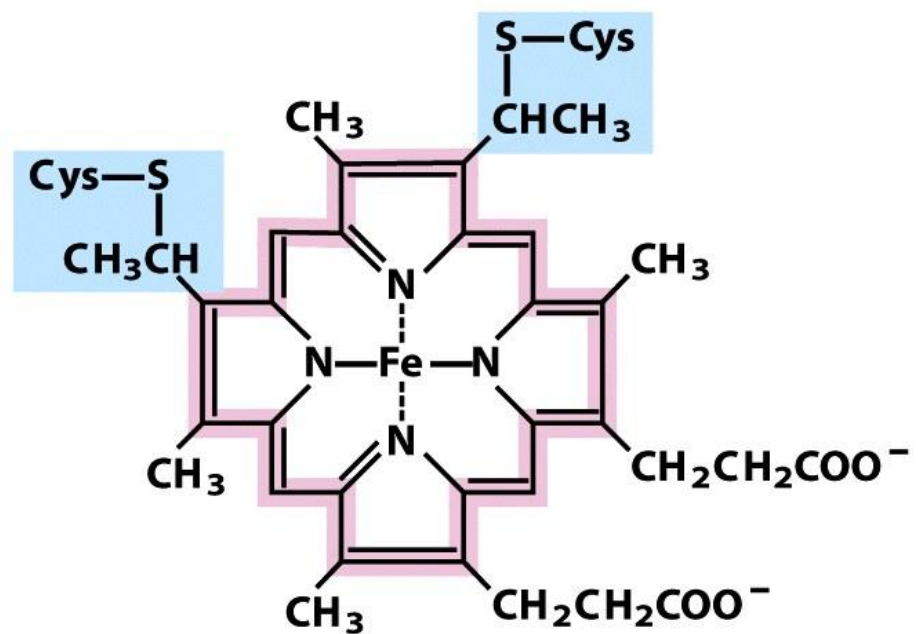
ETC in inner membrane



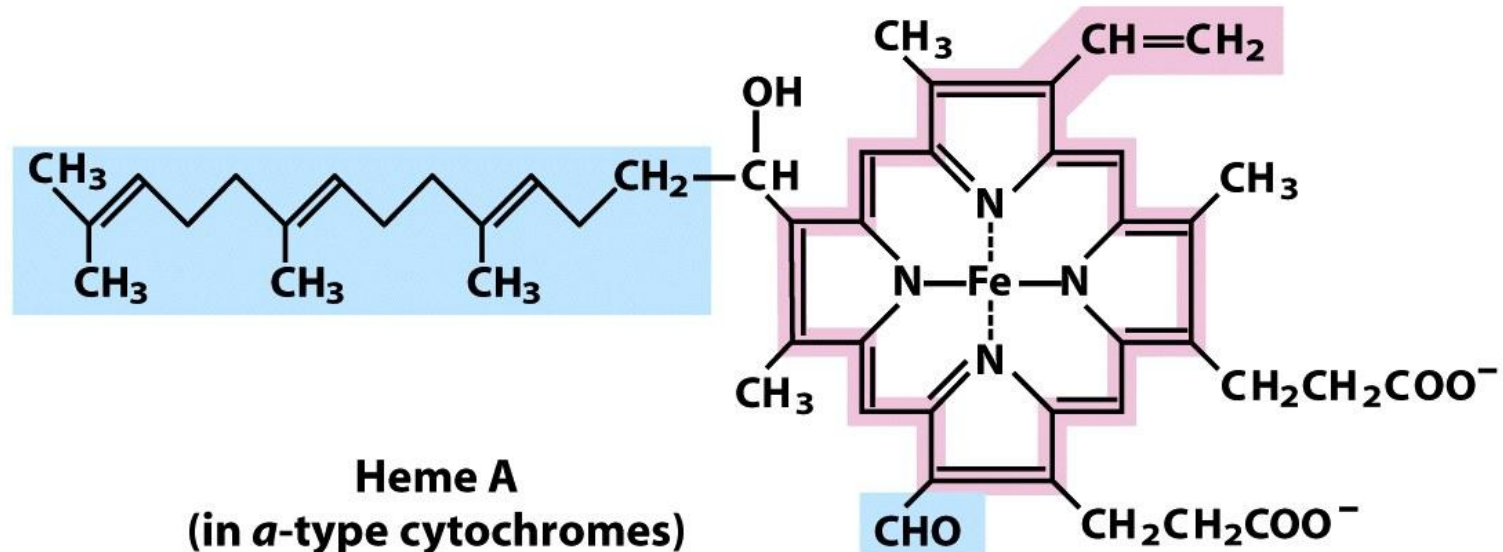




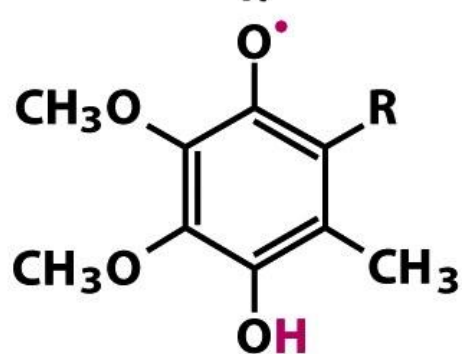
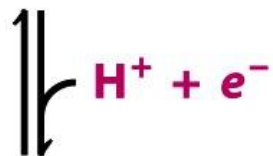
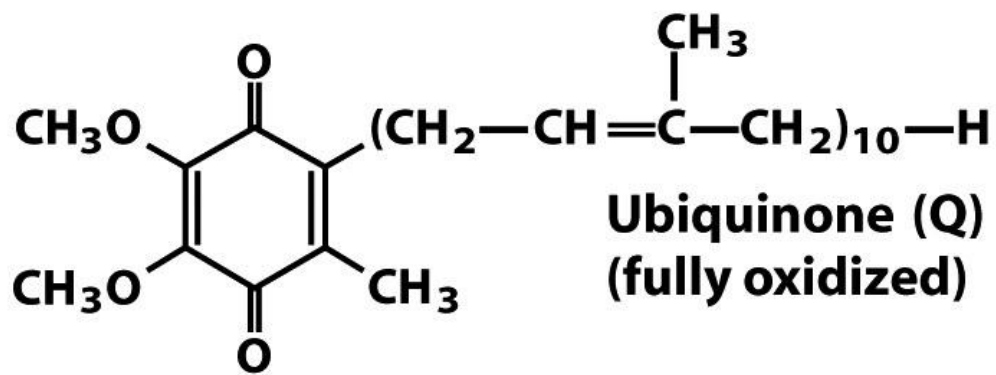
Iron protoporphyrin IX
(in *b*-type cytochromes)



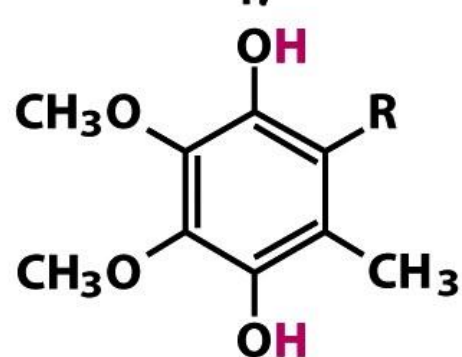
Heme C
(in *c*-type cytochromes)



Heme A
(in *a*-type cytochromes)



Semiquinone radical
 ($\cdot\text{QH}$)



Ubiquinol (QH_2)
 (fully reduced)

Reduction Half Reaction	E ^{o'} volts
$\text{NAD}^+ + \text{H}^+ + 2\text{e}^- \rightarrow \text{NADH}$	-0.320
$\text{NADH dehydrogenase (FMN)} + 2\text{H}^+ + 2\text{e}^- \rightarrow$ $\text{NADH dehydrogenase (FMNH}_2\text{)}$	-0.30
$\text{cyt}_b (\text{Fe}^{+3}) + \text{e}^- \rightarrow \text{cyt}_b (\text{Fe}^{+2})$	0.077
$\text{cyt}_{c1} (\text{Fe}^{+3}) + \text{e}^- \rightarrow \text{cyt}_{c1} (\text{Fe}^{+2})$	0.22
$\text{cyt}_a (\text{Fe}^{+3}) + \text{e}^- \rightarrow \text{cyt}_a (\text{Fe}^{+2})$	0.29
$\text{cyt}_{a3} (\text{Fe}^{+3}) + \text{e}^- \rightarrow \text{cyt}_{a3} (\text{Fe}^{+2})$	0.35
$\frac{1}{2} \text{O}_2 + 2\text{H}^+ + 2\text{e}^- \rightarrow \text{H}_2\text{O}$	0.817