Mitochondria and the chemiosmotic theory of oxidative phosphorylation

Electron transport chain (ETC) is in the inner membrane.
Oxidative phosphorylation is in the lollipops (separate from ETC).
The Krebs cycle enzymes are inside the mitochondria, in the matrix.
The enzymes of glycolysis are outside the mitochondria, in the cytoplasm.

Outside

Intermembrane compartment

Inside

Matrix

Intermembrane space

NADH + H+  →  NAD+  +  H+  →  Fumarate

Succinate

O2 + 4H+  →  H2O

Cyt c

Matrix side (inside)