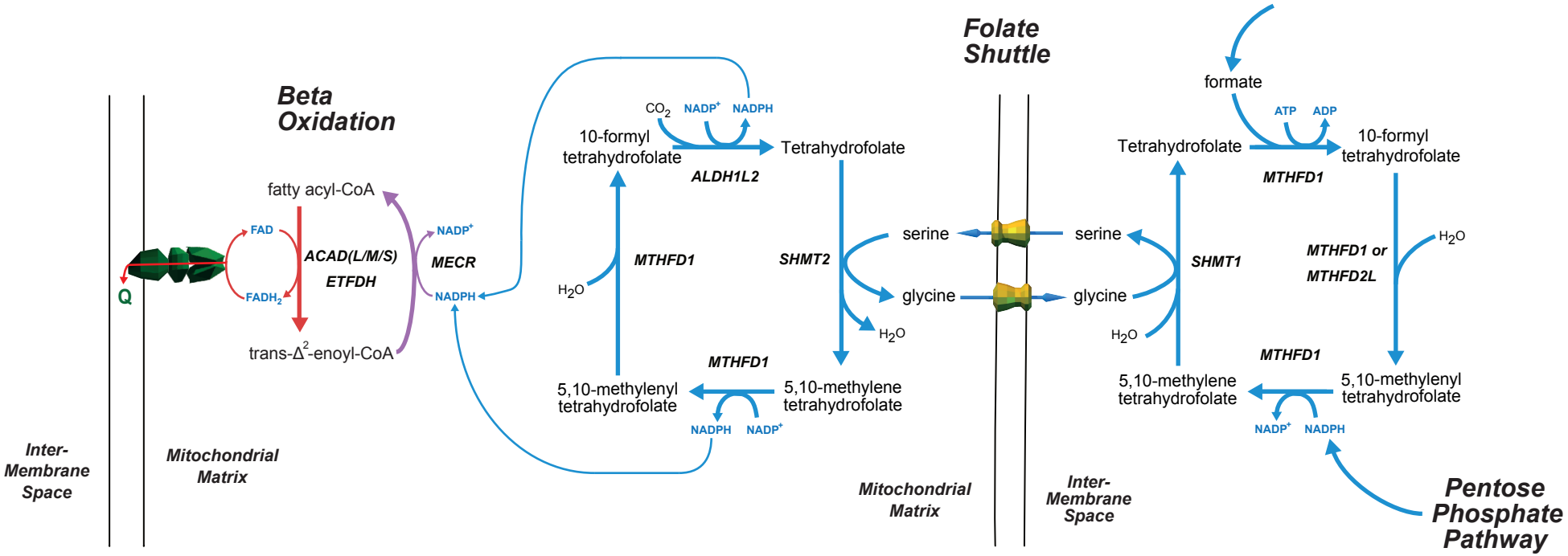
Beta Oxidation
fatty acyl-CoA
FAD
FADH2
ACAD(L/M/S)
ETFDH
Q
trans-Δ2-enoyl-CoA
NADP+
MECR
NADPH
Inter-Membrane Space
Mitochondrial Matrix
CO2
NADP+
NADPH
10-formyl tetrahydrofolate
ALDH1L2
Tetrahydrofolate
MTHFD1
H2O
SHMT2
serine
glycine
H2O
MTHFD1
5,10-methylenyl tetrahydrofolate
5,10-methylene tetrahydrofolate
NADPH
NADP+
Folate Shuttle
Mitochondrial Matrix
Inter-Membrane Space
formate
ATP
ADP
Tetrahydrofolate
10-formyl tetrahydrofolate
MTHFD1
serine
glycine
SHMT1
H2O
MTHFD1 or MTHFD2L
H2O
MTHFD1
5,10-methylene tetrahydrofolate
5,10-methylenyl tetrahydrofolate
NADP+
NADPH
Pentose Phosphate Pathway