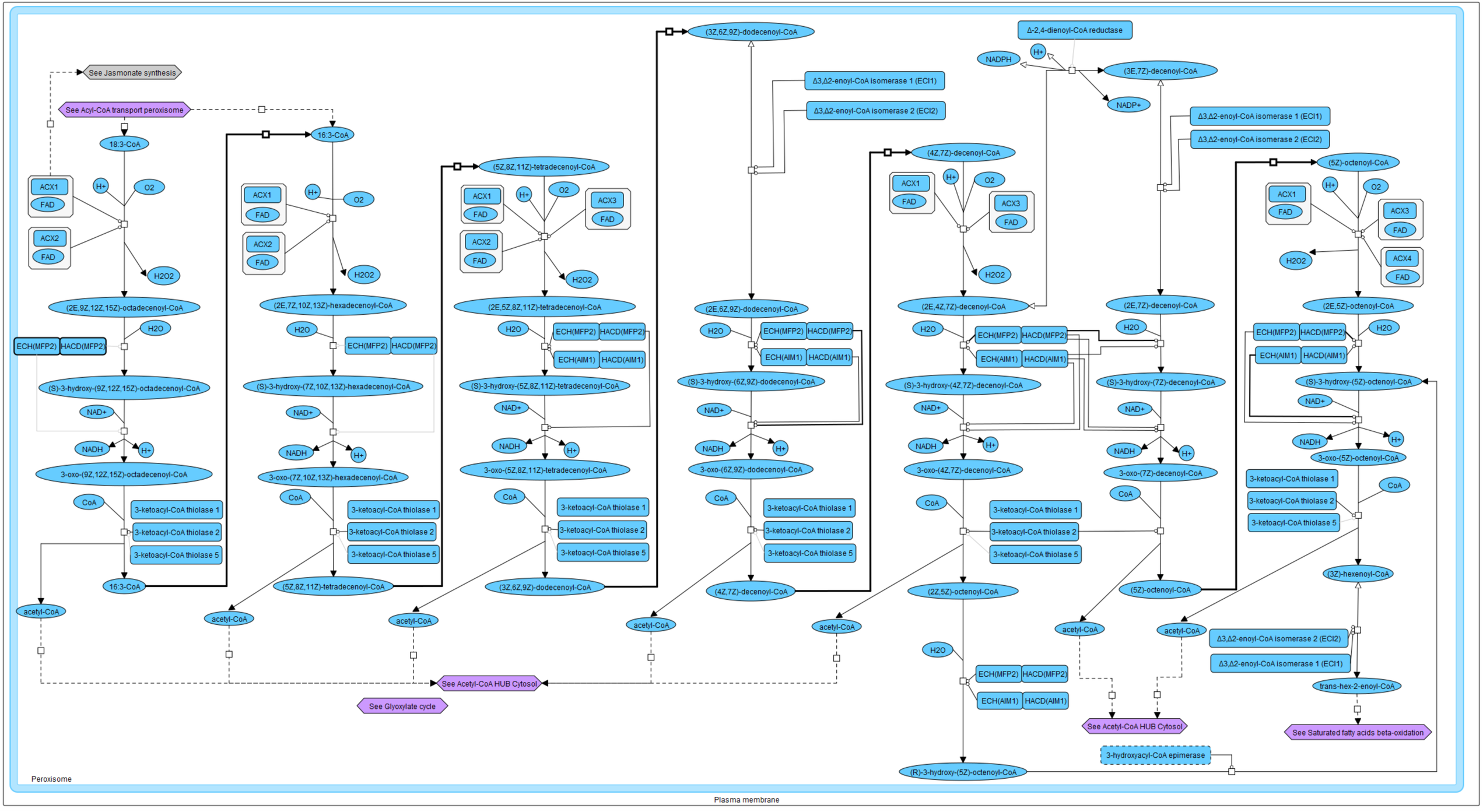
See Jasmonate synthesis
See Acyl-CoA transport peroxisome
18:3-CoA
ACX1
FAD
ACX2
FAD
H+
O2
H2O2
(2E,9Z,12Z,15Z)-octadecenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
(S)-3-hydroxy-(9Z,12Z,15Z)-octadecenoyl-CoA
NAD+
NADH
H+
3-oxo-(9Z,12Z,15Z)-octadecenoyl-CoA
CoA
3-ketoacyl-CoA thiolase 1
3-ketoacyl-CoA thiolase 2
3-ketoacyl-CoA thiolase 5
16:3-CoA
acetyl-CoA
16:3-CoA
ACX1
FAD
ACX2
FAD
H+
O2
H2O2
(2E,7Z,10Z,13Z)-hexadecenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
(S)-3-hydroxy-(7Z,10Z,13Z)-hexadecenoyl-CoA
NAD+
NADH
H+
3-oxo-(7Z,10Z,13Z)-hexadecenoyl-CoA
CoA
3-ketoacyl-CoA thiolase 1
3-ketoacyl-CoA thiolase 2
3-ketoacyl-CoA thiolase 5
(5Z,8Z,11Z)-tetradecenoyl-CoA
acetyl-CoA
(5Z,8Z,11Z)-tetradecenoyl-CoA
ACX1
FAD
ACX2
FAD
ACX3
FAD
H+
O2
H2O2
(2E,5Z,8Z,11Z)-tetradecenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
ECH(AIM1)
HACD(AIM1)
(S)-3-hydroxy-(5Z,8Z,11Z)-tetradecenoyl-CoA
NAD+
NADH
H+
3-oxo-(5Z,8Z,11Z)-tetradecenoyl-CoA
CoA
3-ketoacyl-CoA thiolase 1
3-ketoacyl-CoA thiolase 2
3-ketoacyl-CoA thiolase 5
(3Z,6Z,9Z)-dodecenoyl-CoA
acetyl-CoA
(3Z,6Z,9Z)-dodecenoyl-CoA
Δ3,Δ2-enoyl-CoA isomerase 1 (ECI1)
Δ3,Δ2-enoyl-CoA isomerase 2 (ECI2)
(2E,6Z,9Z)-dodecenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
ECH(AIM1)
HACD(AIM1)
(S)-3-hydroxy-(6Z,9Z)-dodecenoyl-CoA
NAD+
NADH
H+
3-oxo-(6Z,9Z)-dodecenoyl-CoA
CoA
3-ketoacyl-CoA thiolase 1
3-ketoacyl-CoA thiolase 2
3-ketoacyl-CoA thiolase 5
(4Z,7Z)-decenoyl-CoA
acetyl-CoA
Δ-2,4-dienoyl-CoA reductase
NADPH
H+
NADP+
(3E,7Z)-decenoyl-CoA
Δ3,Δ2-enoyl-CoA isomerase 1 (ECI1)
Δ3,Δ2-enoyl-CoA isomerase 2 (ECI2)
(4Z,7Z)-decenoyl-CoA
ACX1
FAD
ACX3
FAD
H+
O2
H2O2
(2E,4Z,7Z)-decenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
ECH(AIM1)
HACD(AIM1)
(S)-3-hydroxy-(4Z,7Z)-decenoyl-CoA
NAD+
NADH
H+
3-oxo-(4Z,7Z)-decenoyl-CoA
CoA
3-ketoacyl-CoA thiolase 1
3-ketoacyl-CoA thiolase 2
3-ketoacyl-CoA thiolase 5
(2Z,5Z)-octenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
ECH(AIM1)
HACD(AIM1)
(R)-3-hydroxy-(5Z)-octenoyl-CoA
(2E,7Z)-decenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
ECH(AIM1)
HACD(AIM1)
(S)-3-hydroxy-(7Z)-decenoyl-CoA
NAD+
NADH
H+
3-oxo-(7Z)-decenoyl-CoA
CoA
(5Z)-octenoyl-CoA
acetyl-CoA
(5Z)-octenoyl-CoA
ACX1
FAD
ACX3
FAD
ACX4
FAD
H+
O2
H2O2
(2E,5Z)-octenoyl-CoA
H2O
ECH(MFP2)
HACD(MFP2)
ECH(AIM1)
HACD(AIM1)
(S)-3-hydroxy-(5Z)-octenoyl-CoA
NAD+
NADH
H+
3-oxo-(5Z)-octenoyl-CoA
3-ketoacyl-CoA thiolase 1
3-ketoacyl-CoA thiolase 2
3-ketoacyl-CoA thiolase 5
CoA
(3Z)-hexenoyl-CoA
Δ3,Δ2-enoyl-CoA isomerase 2 (ECI2)
Δ3,Δ2-enoyl-CoA isomerase 1 (ECI1)
trans-hex-2-enoyl-CoA
See Saturated fatty acids beta-oxidation
acetyl-CoA
See Acetyl-CoA HUB Cytosol
3-hydroxyacyl-CoA epimerase
See Acetyl-CoA HUB Cytosol
See Glyoxylate cycle
Peroxisome
Plasma membrane