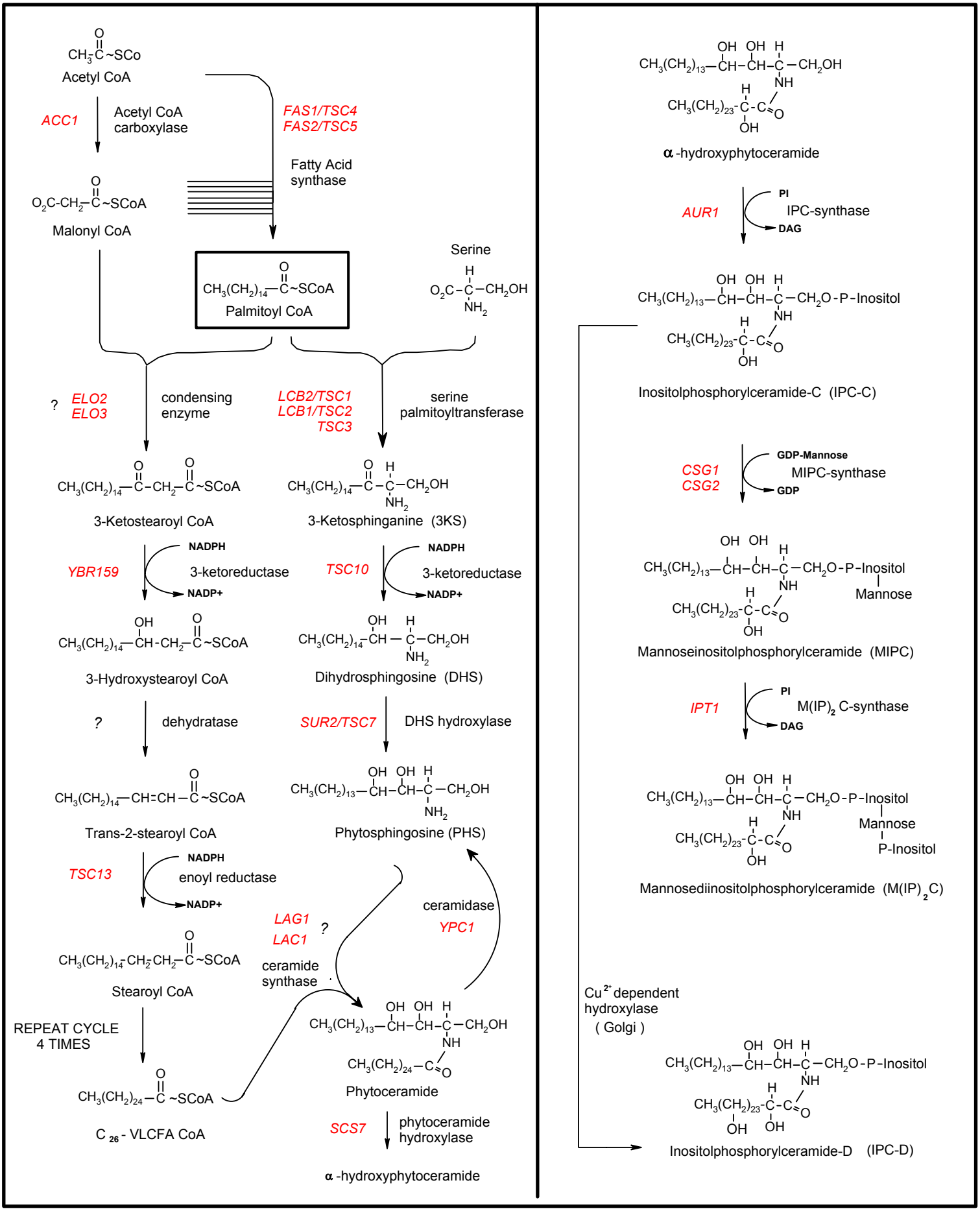
Acetyl CoA
ACC1
Acetyl CoA carboxylase
FAS1/TSC4
FAS2/TSC5
Fatty Acid synthase
Malonyl CoA
Palmitoyl CoA
Serine
? ELO2 ELO3
condensing enzyme
LCB2/TSC1
LCB1/TSC2
TSC3
serine palmitoyltransferase
3-Ketostearoyl CoA
3-Ketosphinganine (3KS)
YBR159
NADPH
3-ketoreductase
NADP+
TSC10
3-Hydroxystearoyl CoA
Dihydrosphingosine (DHS)
?
dehydratase
SUR2/TSC7
DHS hydroxylase
Trans-2-stearoyl CoA
Phytosphingosine (PHS)
TSC13
enoyl reductase
Stearoyl CoA
LAG1
LAC1
?
ceramidase
YPC1
ceramide synthase
REPEAT CYCLE 4 TIMES
C 26 - VLCFA CoA
Phytoceramide
SCS7
phytoceramide hydroxylase
α -hydroxyphytoceramide
AUR1
PI
IPC-synthase
DAG
Inositolphosphorylceramide-C (IPC-C)
CSG1
CSG2
GDP-Mannose
MIPC-synthase
GDP
Mannose
Mannoseinositolphosphorylceramide (MIPC)
IPT1
M(IP)2 C-synthase
P-Inositol
Mannosediinositolphosphorylceramide (M(IP)2C)
Cu2+ dependent hydroxylase
( Golgi )
Inositolphosphorylceramide-D (IPC-D)