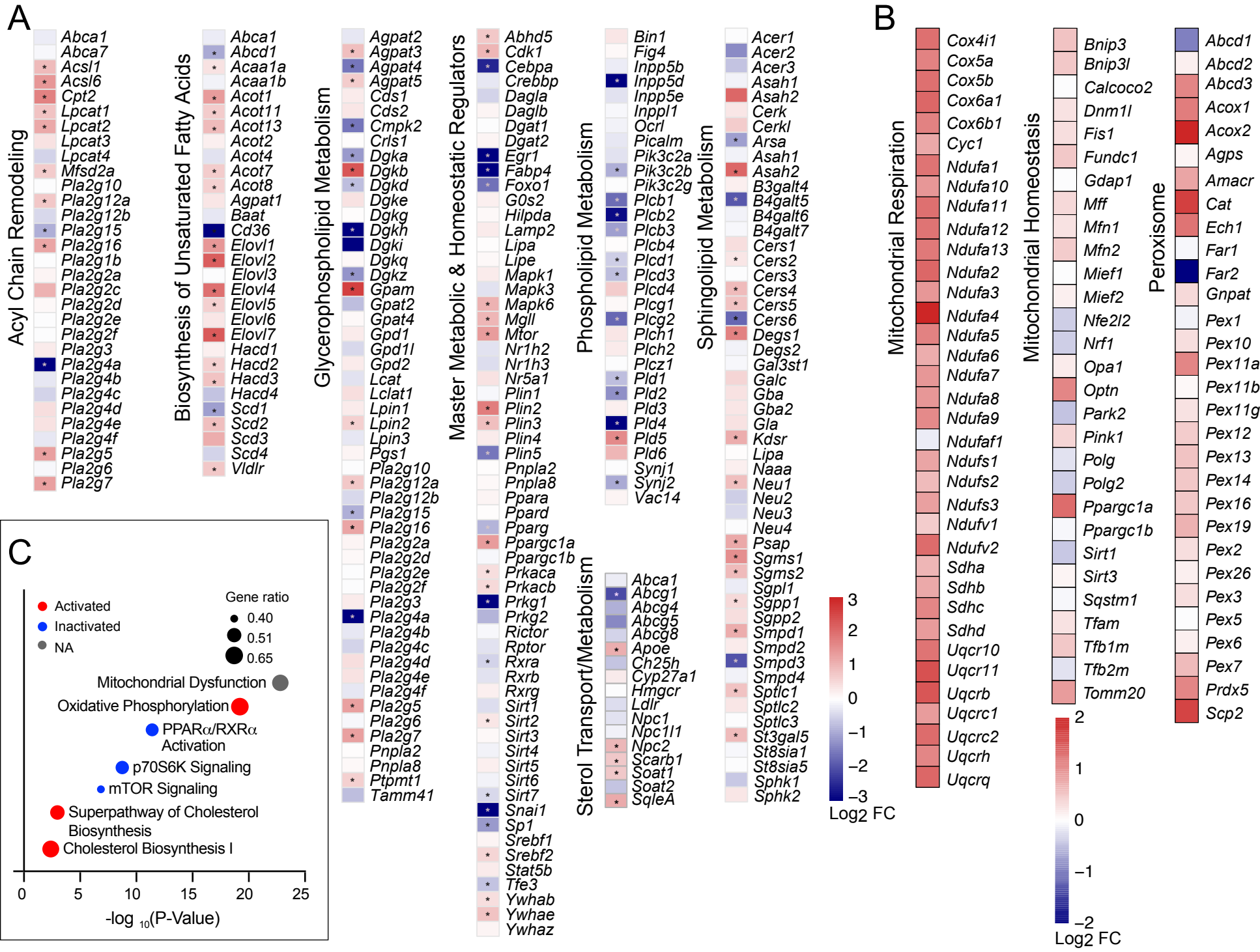
A
Acyl Chain Remodeling
Abca1
Abca7
Acsl1
Acsl6
Cpt2
Lpcat1
Lpcat2
Lpcat3
Lpcat4
Mfsd2a
Pla2g10
Pla2g12a
Pla2g12b
Pla2g15
Pla2g16
Pla2g1b
Pla2g2a
Pla2g2c
Pla2g2d
Pla2g2e
Pla2g2f
Pla2g3
Pla2g4a
Pla2g4b
Pla2g4c
Pla2g4d
Pla2g4e
Pla2g4f
Pla2g5
Pla2g6
Pla2g7
Biosynthesis of Unsaturated Fatty Acids
Abca1
Abcd1
Acaa1a
Acaa1b
Acot1
Acot11
Acot13
Acot2
Acot4
Acot7
Acot8
Agpat1
Baat
Cd36
Elovl1
Elovl2
Elovl3
Elovl4
Elovl5
Elovl6
Elovl7
Hacd1
Hacd2
Hacd3
Hacd4
Scd1
Scd2
Scd3
Scd4
Vldlr
Glycerophospholipid Metabolism
Agpat2
Agpat3
Agpat4
Agpat5
Cds1
Cds2
Cmpk2
Crls1
Dgka
Dgkb
Dgkd
Dgke
Dgkg
Dgkh
Dgki
Dgkq
Dgkz
Gpam
Gpat2
Gpat4
Gpd1
Gpd1l
Gpd2
Lcat
Lclat1
Lpin1
Lpin2
Lpin3
Pgs1
Pla2g10
Pla2g12a
Pla2g12b
Pla2g15
Pla2g16
Pla2g2a
Pla2g2d
Pla2g2e
Pla2g2f
Pla2g3
Pla2g4a
Pla2g4b
Pla2g4c
Pla2g4d
Pla2g4e
Pla2g4f
Pla2g5
Pla2g6
Pla2g7
Pnpla2
Pnpla8
Ptpmt1
Tamm41
Master Metabolic & Homeostatic Regulators
Abhd5
Cdk1
Cebpa
Crebbp
Dagla
Daglb
Dgat1
Dgat2
Egr1
Fabp4
Foxo1
G0s2
Hilpda
Lamp2
Lipa
Lipe
Mapk1
Mapk3
Mapk6
Mgll
Mtor
Nr1h2
Nr1h3
Nr5a1
Plin1
Plin2
Plin3
Plin4
Plin5
Pnpla2
Pnpla8
Ppara
Ppard
Pparg
Ppargc1a
Ppargc1b
Prkaca
Prkacb
Prkg1
Prkg2
Rictor
Rptor
Rxra
Rxrb
Rxrg
Sirt1
Sirt2
Sirt3
Sirt4
Sirt5
Sirt6
Sirt7
Snai1
Sp1
Srebf1
Srebf2
Stat5b
Tfe3
Ywhab
Ywhae
Ywhaz
Phospholipid Metabolism
Bin1
Fig4
Inpp5b
Inpp5d
Inpp5e
Inppl1
Ocrl
Picalm
Pik3c2a
Pik3c2b
Pik3c2g
Plcb1
Plcb2
Plcb3
Plcb4
Plcd1
Plcd3
Plcd4
Plcg1
Plcg2
Plch1
Plch2
Plcz1
Pld1
Pld2
Pld3
Pld4
Pld5
Pld6
Synj1
Synj2
Vac14
Sterol Transport/Metabolism
Abca1
Abcg1
Abcg4
Abcg5
Abcg8
Apoe
Ch25h
Cyp27a1
Hmgcr
Ldlr
Npc1
Npc1l1
Npc2
Scarb1
Soat1
Soat2
SqleA
Sphingolipid Metabolism
Acer1
Acer2
Acer3
Asah1
Asah2
Cerk
Cerkl
Arsa
Asah1
Asah2
B3galt4
B4galt5
B4galt6
B4galt7
Cers1
Cers2
Cers3
Cers4
Cers5
Cers6
Degs1
Degs2
Gal3st1
Galc
Gba
Gba2
Gla
Kdsr
Lipa
Naaa
Neu1
Neu2
Neu3
Neu4
Psap
Sgms1
Sgms2
Sgpl1
Sgpp1
Sgpp2
Smpd1
Smpd2
Smpd3
Smpd4
Sptlc1
Sptlc2
Sptlc3
St3gal5
St8sia1
St8sia5
Sphk1
Sphk2
3
2
1
0
−1
−2
−3
Log2 FC
B
Mitochondrial Respiration
Cox4i1
Cox5a
Cox5b
Cox6a1
Cox6b1
Cyc1
Ndufa1
Ndufa10
Ndufa11
Ndufa12
Ndufa13
Ndufa2
Ndufa3
Ndufa4
Ndufa5
Ndufa6
Ndufa7
Ndufa8
Ndufa9
Ndufaf1
Ndufs1
Ndufs2
Ndufs3
Ndufv1
Ndufv2
Sdha
Sdhb
Sdhc
Sdhd
Uqcr10
Uqcr11
Uqcrb
Uqcrc1
Uqcrc2
Uqcrh
Uqcrq
Mitochondrial Homeostasis
Bnip3
Bnip3l
Calcoco2
Dnm1l
Fis1
Fundc1
Gdap1
Mff
Mfn1
Mfn2
Mief1
Mief2
Nfe2l2
Nrf1
Opa1
Optn
Park2
Pink1
Polg
Polg2
Ppargc1a
Ppargc1b
Sirt1
Sirt3
Sqstm1
Tfam
Tfb1m
Tfb2m
Tomm20
Peroxisome
Abcd1
Abcd2
Abcd3
Acox1
Acox2
Agps
Amacr
Cat
Ech1
Far1
Far2
Gnpat
Pex1
Pex10
Pex11a
Pex11b
Pex11g
Pex12
Pex13
Pex14
Pex16
Pex19
Pex2
Pex26
Pex3
Pex5
Pex6
Pex7
Prdx5
Scp2
2
1
0
−1
−2
Log2 FC
C
Activated
Inactivated
NA
Gene ratio
0.40
0.51
0.65
Mitochondrial Dysfunction
Oxidative Phosphorylation
PPARα/RXRα Activation
p70S6K Signaling
mTOR Signaling
Superpathway of Cholesterol Biosynthesis
Cholesterol Biosynthesis I
0
5
10
15
20
25
-log 10(P-Value)