FDR: 3.233e−09
Coefficient: 7.63e−04
Value: Control_Healthy
GO.0065008.regulation.of.biological.q
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.182e−08
Coefficient: −4.00e−03
Value: Control_Sick
GO.0044271.cellular.nitrogen.compound.biosyn
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.182e−08
Coefficient: 9.20e−04
Value: Control_Healthy
GO.0036211.protein.modification.pro
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.182e−08
Coefficient: 9.20e−04
Value: Control_Healthy
GO.0006464.cellular.protein.modification
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.218e−08
Coefficient: 2.88e−03
Value: Control_Healthy
0.006
0.004
0.002
0.000
GO.0016741.transferase.activity..transferring.one
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.133e−07
Coefficient: 6.35e−04
Value: Control_Healthy
GO.00000049.tRNA.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.147e−07
Coefficient: 4.22e−04
Value: Control_Healthy
GO.0023051.regulation.of.signalin
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.147e−07
Coefficient: 4.22e−04
Value: Control_Healthy
0.0012
0.0008
0.0004
0.0000
GO.0010646.regulation.of.cell.commun
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.165e−07
Coefficient: 2.49e−03
Value: Control_Healthy
GO.0032259.methylation
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.165e−07
Coefficient: 4.05e−04
Value: Control_Healthy
1e−03
5e−04
0e+00
GO.0042398.cellular.modified.amino.acid.biosy
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.165e−07
Coefficient: 3.76e−04
Value: Control_Healthy
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0018193.peptidyl.amino.acid.modif
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.165e−07
Coefficient: 1.73e−03
Value: Control_Healthy
GO.0009451.RNA.modification
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.165e−07
Coefficient: 8.12e−04
Value: Control_Healthy
GO.0006468.protein.phosphorylati
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.165e−07
Coefficient: 8.25e−04
Value: Control_Healthy
GO.0004672.protein.kinase.activit
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.165e−07
Coefficient: 6.60e−04
Value: Control_Healthy
GO.0050660.flavin.adenine.dinucleotide
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.582e−07
Coefficient: 3.04e−03
Value: Control_Healthy
GO.0007165.signal.transduction
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.582e−07
Coefficient: −3.58e−03
Value: Control_Sick
GO.00003677.DNA.binding
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.968e−07
Coefficient: 4.18e−04
Value: Control_Healthy
GO.0072330.monocarboxylic.acid.biosynthe
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.784e−07
Coefficient: 8.14e−04
Value: Control_Healthy
GO.0035556.intracellular.signal.transd
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.033e−07
Coefficient: 2.54e−03
Value: Control_Healthy
GO.0043412.macromolecule.modifica
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.033e−07
Coefficient: 6.62e−04
Value: Control_Healthy
GO.0005509.calcium.ion.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.502e−07
Coefficient: 8.23e−04
Value: Control_Healthy
GO.0016043.cellular.component.organ
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.727e−07
Coefficient: 6.45e−03
Value: Control_Sick
GO.00043169.cation.binding
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.033e−07
Coefficient: 3.75e−04
Value: Control_Sick
GO.0048518.positive.regulation.of.biologic
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.767e−07
Coefficient: 1.93e−03
Value: Control_Healthy
GO.0006399.tRNA.metabolic.proce
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.767e−07
Coefficient: 2.42e−03
Value: Control_Healthy
GO.0008168.methyltransferase.acti
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.339e−07
Coefficient: 6.33e−03
Value: Control_Sick
GO.0046872.metal.ion.binding
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.073e−06
Coefficient: 1.07e−02
Value: Community_acquired_pneumonia
GO.0016740.transferase.activity
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.073e−06
Coefficient: 1.06e−03
Value: Control_Healthy
GO.0004557.alpha.galactosidase.ac
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.087e−06
Coefficient: 7.68e−04
Value: Community_acquired_pneumonia
GO.0016043.cellular.component.organ
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.184e−06
Coefficient: 1.57e−03
Value: Control_Healthy
GO.0001510.RNA.methylation
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.196e−06
Coefficient: 5.79e−04
Value: Control_Healthy
GO.0008171.O.methyltransferase.ac
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.196e−06
Coefficient: 1.58e−03
Value: Control_Healthy
GO.0008173.RNA.methyltransferase.a
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.386e−06
Coefficient: 1.03e−03
Value: Control_Healthy
GO.0031167.rRNA.methylation
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.386e−06
Coefficient: 1.54e−03
Value: Control_Healthy
GO.0140102.catalytic.activity..acting.on.
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.386e−06
Coefficient: 1.54e−03
Value: Control_Healthy
GO.0008649.rRNA.methyltransferase.a
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.410e−06
Coefficient: 1.03e−03
Value: Control_Healthy
GO.0000154.rRNA.modification
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.606e−06
Coefficient: −3.09e−03
Value: Control_Sick
GO.0018130.heterocycle.biosynthetic.p
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.606e−06
Coefficient: 5.63e−04
Value: Control_Healthy
GO.0052689.carboxylic.ester.hydrolase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.126e−06
Coefficient: 1.59e−03
Value: Control_Healthy
GO.0043414.macromolecule.methyla
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.253e−06
Coefficient: 5.72e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0052692.raffinose.alpha.galactosidas
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.262e−06
Coefficient: 1.39e−03
Value: Control_Healthy
GO.0044267.cellular.protein.metabolic.p
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 1.21e−03
Value: Control_Healthy
GO.0071840.cellular.component.organization.
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 4.37e−03
Value: Control_Healthy
GO.0034660.ncRNA.metabolic.proc
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.64e−04
Value: Control_Healthy
GO.0000470.maturation.of.LSU.rRN
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.63e−04
Value: Control_Healthy
GO.0000460.maturation.of.5.8S.rR
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.63e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0000466.maturation.of.5.8S.rRNA.from.tricistronic.rRNA.transcrip

FDR: 2.296e−06
Coefficient: 5.63e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0000463.maturation.of.LSU.rRNA.from.tricistronic.rRNA.transcrip

FDR: 2.296e−06
Coefficient: 5.64e−04
Value: Control_Healthy
GO.0000451.rRNA.2.O.methylatio
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.64e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0000453.enzyme.directed.rRNA.2.O.m
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.65e−04
Value: Control_Healthy
GO.0062105.RNA.2.O.methyltransferase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.71e−04
Value: Control_Healthy
GO.0016435.rRNA..guanine..methyltransfer
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.63e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0016436.rRNA..uridine..methyltransfera
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−06
Coefficient: 5.64e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0008650.rRNA..uridine.2.O...methyltransf
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.777e−06
Coefficient: 3.23e−03
Value: Control_Healthy
GO.0140098.catalytic.activity..acting.o
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.948e−06
Coefficient: 3.78e−04
Value: Control_Healthy
1e−03
5e−04
0e+00
GO.0016742.hydroxymethyl...formyl..and.related.tr
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.215e−06
Coefficient: 1.52e−03
Value: Control_Healthy
GO.0008757.S.adenosylmethionine.dependent.meth
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.064e−06
Coefficient: 2.50e−03
Value: Control_Healthy
GO.0016072.rRNA.metabolic.proce
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.064e−06
Coefficient: 2.50e−03
Value: Control_Healthy
GO.0006364.rRNA.processing
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.064e−06
Coefficient: 1.80e−03
Value: Control_Healthy
GO.0140101.catalytic.activity..acting.on.
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.618e−06
Coefficient: 6.30e−03
Value: Control_Healthy
GO.0043170.macromolecule.metabolic.
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.252e−06
Coefficient: 1.70e−03
Value: Control_Healthy
GO.0019538.protein.metabolic.proc
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.252e−06
Coefficient: 5.79e−04
Value: Control_Healthy
GO.0005543.phospholipid.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.541e−06
Coefficient: 1.23e−03
Value: Control_Healthy
GO.0007166.cell.surface.receptor.signaling
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.541e−06
Coefficient: 4.62e−03
Value: Control_Healthy
GO.0016070.RNA.metabolic.proce
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.541e−06
Coefficient: 2.66e−03
Value: Control_Healthy
GO.00006396.RNA.process
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.541e−06
Coefficient: 5.58e−04
Value: Control_Healthy
GO.0005544.calcium.dependent.phospholip
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.971e−06
Coefficient: 3.43e−04
Value: Control_Healthy
GO.0016477.cell.migratio
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.037e−06
Coefficient: 5.98e−04
Value: Control_Healthy
GO.00008289.lipid.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.580e−06
Coefficient: 8.84e−04
Value: Control_Healthy
GO.0005515.protein.binding
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.580e−06
Coefficient: 1.19e−03
Value: Control_Healthy
GO.0016875.ligase.activity..forming.carbon.o
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.580e−06
Coefficient: 1.19e−03
Value: Control_Healthy
GO.00004812.aminoacyl.tRNA.ligase.a
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.388e−06
Coefficient: 2.63e−03
Value: Control_Healthy
GO.0034470.ncRNA.processing
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.465e−06
Coefficient: 1.08e−03
Value: Control_Healthy
GO.0004888.transmembrane.signaling.rece
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.664e−06
Coefficient: 7.16e−04
Value: Control_Healthy
GO.0004930.G.protein.coupled.receptor
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.928e−06
Coefficient: 1.07e−03
Value: Control_Healthy
GO.0007186.G.protein.coupled.receptor.signa
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.045e−05
Coefficient: 3.50e−04
Value: Control_Healthy
GO.0007015.actin.filament.organiza
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.045e−05
Coefficient: 7.12e−04
Value: Control_Healthy
GO.0007215.glutamate.receptor.signaling
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.045e−05
Coefficient: 7.11e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0007216.G.protein.coupled.glutamate.receptor
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.045e−05
Coefficient: 1.08e−03
Value: Control_Healthy
GO.0060089.molecular.transducer.ac
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.045e−05
Coefficient: 7.11e−04
Value: Control_Healthy
GO.0008066.glutamate.receptor.act
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.065e−05
Coefficient: 3.50e−04
Value: Control_Healthy
GO.0097435.supramolecular.fiber.organ
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.072e−05
Coefficient: 1.07e−03
Value: Control_Healthy
GO.0038023.signaling.receptor.activity
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.397e−05
Coefficient: 1.16e−03
Value: Control_Healthy
GO.0043038.amino.acid.activatio
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.397e−05
Coefficient: 1.16e−03
Value: Control_Healthy
GO.0043039.tRNA.aminoacylatio
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.496e−05
Coefficient: −1.27e−03
Value: Control_Sick
GO.0031323.regulation.of.cellular.metabol
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.969e−05
Coefficient: 3.67e−04
Value: Community_acquired_pneumonia
GO.0040011.locomotion
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.994e−05
Coefficient: 3.02e−04
Value: Control_Healthy
GO.0000287.magnesium.ion.bindi
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.043e−05
Coefficient: 1.14e−03
Value: Control_Healthy
GO.0006418.tRNA.aminoacylation.for.protei
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.152e−05
Coefficient: 3.45e−04
Value: Control_Healthy
GO.0005102.signaling.receptor.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.152e−05
Coefficient: 9.48e−04
Value: Control_Healthy
GO.0015925.galactosidase.activit
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.474e−05
Coefficient: 3.80e−04
Value: Community_acquired_pneumonia
GO.0005102.signaling.receptor.binc
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.568e−05
Coefficient: 3.67e−04
Value: Control_Healthy
1e−03
5e−04
0e+00
GO.0006575.cellular.modified.amino.acid.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.626e−05
Coefficient: 3.08e−04
Value: Control_Sick
GO.0048522.positive.regulation.of.cellular
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.802e−05
Coefficient: 4.08e−04
Value: Community_acquired_pneumonia
GO.0051020.GTPase.bind
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.826e−05
Coefficient: 4.06e−04
Value: Community_acquired_pneumonia
GO.0005085.guanyl.nucleotide.exchange.fa
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.091e−05
Coefficient: 3.62e−04
Value: Control_Healthy
GO.0040011.locomotion
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.777e−05
Coefficient: 1.02e−03
Value: Community_acquired_pneumonia
GO.0071840.cellular.component.organization.
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.809e−05
Coefficient: 9.56e−04
Value: Control_Healthy
GO.0043604.amide.biosynthetic.proc
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.158e−05
Coefficient: 6.14e−04
Value: Community_acquired_pneumonia
GO.0035556.intracellular.signal.transd
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.603e−05
Coefficient: 2.23e−03
Value: Control_Healthy
GO.00431168.anion.bindin
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.736e−05
Coefficient: 7.92e−04
Value: Community_acquired_pneumonia
GO.0005515.protein.binding
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.992e−05
Coefficient: 3.35e−04
Value: Control_Healthy
GO.0033627.cell.adhesion.mediated.by.
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.992e−05
Coefficient: 3.36e−04
Value: Control_Healthy
GO.0007160.cell.matrix.adhesion
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.992e−05
Coefficient: 3.35e−04
Value: Control_Healthy
GO.0005178.integrin.binding
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.618e−05
Coefficient: 3.35e−04
Value: Control_Healthy
GO.0031589.cell.substrate.adhesio
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.060e−05
Coefficient: 1.46e−03
Value: Control_Healthy
GO.0004553.hydrolase.activity..hydrolyzing.O.glyc
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.291e−05
Coefficient: 3.32e−04
Value: Control_Healthy
GO.0006996.organelle.organizatio
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.291e−05
Coefficient: 3.48e−04
Value: Control_Healthy
GO.0050839.cell.adhesion.molecule.b
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.407e−05
Coefficient: 1.01e−03
Value: Control_Healthy
GO.0007155.cell.adhesio
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.776e−05
Coefficient: 3.48e−04
Value: Community_acquired_pneumonia
GO.0006928.movement.of.cell.or.subcellular
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.776e−05
Coefficient: 5.92e−04
Value: Community_acquired_pneumonia
GO.0036211.protein.modification.pro
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.776e−05
Coefficient: 5.92e−04
Value: Community_acquired_pneumonia
GO.0006464.cellular.protein.modification
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.776e−05
Coefficient: 5.71e−04
Value: Control_Healthy
GO.0006428.isoleucyl.tRNA.aminoacy
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.890e−05
Coefficient: 9.46e−04
Value: Control_Healthy
GO.0043603.cellular.amide.metabolic.p
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.947e−05
Coefficient: 5.71e−04
Value: Control_Healthy
GO.0004822.isoleucine.tRNA.ligase.a
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.965e−05
Coefficient: 9.87e−04
Value: Control_Healthy
GO.0022610.biological.adhesion
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.398e−05
Coefficient: 5.79e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0006450.regulation.of.translational.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.127e−05
Coefficient: 3.81e−04
Value: Control_Healthy
GO.0051020.GTPase.bind
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.380e−05
Coefficient: 3.79e−04
Value: Control_Healthy
GO.0005085.guanyl.nucleotide.exchange.fa
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.897e−05
Coefficient: 1.95e−03
Value: Control_Healthy
GO.0016798.hydrolase.activity..acting.on.gly
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.020e−04
Coefficient: −3.36e−03
Value: Control_Healthy
GO.1901362.organic.cyclic.compound.biosynt
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.020e−04
Coefficient: 3.10e−04
Value: Community_acquired_pneumonia
GO.0016477.cell.migratio
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.112e−04
Coefficient: 3.21e−04
Value: Control_Healthy
GO.0048870.cell.motility
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.170e−04
Coefficient: 3.36e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0006928.movement.of.cell.or.subcellular
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.170e−04
Coefficient: 4.55e−04
Value: Community_acquired_pneumonia
GO.0050660.flavin.adenine.dinucleotide
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.244e−04
Coefficient: 5.68e−04
Value: Control_Healthy
GO.0002161.aminoacyl.tRNA.editing.a
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.291e−04
Coefficient: 5.40e−04
Value: Control_Healthy
GO.0022613.ribonucleoprotein.complex.b
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.305e−04
Coefficient: 5.67e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0106074.aminoacyl.tRNA.metabolism.involved.in
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.350e−04
Coefficient: 5.42e−04
Value: Control_Healthy
GO.0044085.cellular.component.biogen
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.350e−04
Coefficient: 6.87e−03
Value: Community_acquired_pneumonia
GO.0016772.transferase.activity..transferring.phospho
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.409e−04
Coefficient: 3.80e−04
Value: Community_acquired_pneumonia
GO.0007264.small.GTPase.mediated.signal.
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.416e−04
Coefficient: 3.27e−04
Value: Community_acquired_pneumonia
GO.0050839.cell.adhesion.molecule.b
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.527e−04
Coefficient: 5.44e−04
Value: Control_Healthy
GO.0007229.integrin.mediated.signaling.
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.603e−04
Coefficient: 2.95e−04
Value: Community_acquired_pneumonia
GO.0097435.supramolecular.fiber.organ
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.614e−04
Coefficient: 2.95e−04
Value: Community_acquired_pneumonia
GO.0007015.actin.filament.organiza
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.643e−04
Coefficient: 3.12e−04
Value: Community_acquired_pneumonia
GO.0048870.cell.motility
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−04
Coefficient: 5.45e−04
Value: Community_acquired_pneumonia
GO.0007229.integrin.mediated.signaling.
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−04
Coefficient: −4.18e−04
Value: Control_Sick
GO.0006310.DNA.recombination
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.791e−04
Coefficient: 5.21e−04
Value: Control_Healthy
GO.0042254.ribosome.biogenesis
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.176e−04
Coefficient: 4.42e−04
Value: Community_acquired_pneumonia
GO.0005509.calcium.ion.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.253e−04
Coefficient: 1.86e−04
Value: Control_Sick
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0015980.energy.derivation.by.oxidation.of.org
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.554e−04
Coefficient: 3.13e−03
Value: Control_Healthy
GO.0065007.biological.regulation
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.554e−04
Coefficient: −7.00e−04
Value: Control_Sick
GO.0140110.transcription.regulator.ac
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.687e−04
Coefficient: 2.98e−04
Value: Community_acquired_pneumonia
GO.0033627.cell.adhesion.mediated.by.
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.687e−04
Coefficient: 2.98e−04
Value: Community_acquired_pneumonia
GO.0007160.cell.matrix.adhesion
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.687e−04
Coefficient: 2.98e−04
Value: Community_acquired_pneumonia
GO.0005178.integrin.binding
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.843e−04
Coefficient: 4.01e−04
Value: Control_Healthy
GO.0019899.enzyme.bindi
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.843e−04
Coefficient: 2.98e−04
Value: Community_acquired_pneumonia
GO.0031589.cell.substrate.adhesio
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.028e−04
Coefficient: 1.16e−04
Value: Control_Sick
GO.0010604.positive.regulation.of.macromolecule.
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.329e−04
Coefficient: 3.35e−04
Value: Community_acquired_pneumonia
GO.0022607.cellular.component.asse
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.379e−04
Coefficient: −1.03e−03
Value: Control_Sick
GO.0060255.regulation.of.macromolecule.meta
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.882e−04
Coefficient: 3.84e−04
Value: Community_acquired_pneumonia
GO.0019899.enzyme.binding
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.902e−04
Coefficient: 1.74e−04
Value: Control_Healthy
GO.0045333.cellular.respiration
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.373e−04
Coefficient: 2.81e−04
Value: Control_Healthy
GO.0051276.chromosome.organiza
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.373e−04
Coefficient: 1.90e−03
Value: Community_acquired_pneumonia
GO.0016301.kinase.activity
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.531e−04
Coefficient: 8.62e−04
Value: Community_acquired_pneumonia
GO.0007155.cell.adhesio
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.941e−04
Coefficient: 3.05e−04
Value: Community_acquired_pneumonia
GO.0061024.membrane.organizati
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.027e−04
Coefficient: 4.27e−03
Value: Control_Healthy
GO.0090304.nucleic.acid.metabolic.pr
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.083e−04
Coefficient: −6.65e−04
Value: Control_Sick
GO.0003700.DNA.binding.transcription.fac
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.381e−04
Coefficient: 4.97e−03
Value: Community_acquired_pneumonia
GO.0016779.nucleotidyltransferase.ac
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.386e−04
Coefficient: 2.66e−04
Value: Control_Healthy
GO.0071103.DNA.conformation.cha
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.456e−04
Coefficient: 2.62e−03
Value: Control_Healthy
GO.0050794.regulation.of.cellular.pro
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.536e−04
Coefficient: 2.51e−03
Value: Community_acquired_pneumonia
GO.00005976.polysaccharide.metabolic.
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.797e−04
Coefficient: 2.52e−03
Value: Community_acquired_pneumonia
GO.0016051.carbohydrate.biosynthetic.
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.904e−04
Coefficient: 8.38e−04
Value: Community_acquired_pneumonia
GO.0022610.biological.adhesion
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.904e−04
Coefficient: −1.10e−03
Value: Control_Sick
GO.0019222.regulation.of.metabolic.pr
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.008e−04
Coefficient: 2.50e−03
Value: Community_acquired_pneumonia
GO.0044264.cellular.polysaccharide.metabo
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.054e−04
Coefficient: 2.50e−03
Value: Community_acquired_pneumonia
GO.0000271.polysaccharide.biosynthetic
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.054e−04
Coefficient: 2.50e−03
Value: Community_acquired_pneumonia
GO.0034637.cellular.carbohydrate.biosynthe
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.054e−04
Coefficient: −5.53e−03
Value: Control_Healthy
GO.0016829.lyase.activit
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.171e−04
Coefficient: 2.50e−03
Value: Community_acquired_pneumonia
GO.0033692.cellular.polysaccharide.biosynth
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.451e−04
Coefficient: −2.52e−03
Value: Control_Sick
GO.0019438.aromatic.compound.biosynthe
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.451e−04
Coefficient: −3.26e−03
Value: Control_Sick
GO.0016491.oxidoreductase.activi
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.451e−04
Coefficient: 2.50e−03
Value: Community_acquired_pneumonia
GO.0008879.glucose.1.phosphate.thymidylyltran
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.600e−04
Coefficient: 3.07e−03
Value: Control_Healthy
0.015
0.010
0.005
0.000
GO.0044260.cellular.macromolecule.metabo
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.600e−04
Coefficient: 2.49e−03
Value: Community_acquired_pneumonia
GO.0046379.extracellular.polysaccharide.meta
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.600e−04
Coefficient: 2.49e−03
Value: Community_acquired_pneumonia
GO.0045226.extracellular.polysaccharide.biosy
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.865e−04
Coefficient: 7.55e−03
Value: Control_Healthy
GO.0016740.transferase.activity
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.963e−04
Coefficient: 2.62e−03
Value: Control_Healthy
GO.0050789.regulation.of.biological.pr
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.355e−04
Coefficient: 3.07e−04
Value: Control_Healthy
GO.0007264.small.GTPase.mediated.signal.
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.355e−04
Coefficient: 2.83e−04
Value: Control_Healthy
GO.0008094.DNA.dependent.ATPase.a
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.379e−04
Coefficient: 1.87e−03
Value: Community_acquired_pneumonia
GO.0007165.signal.transduction
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.993e−04
Coefficient: 3.15e−03
Value: Community_acquired_pneumonia
GO.0044262.cellular.carbohydrate.metabol
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
GO.0099177.regulation.of.trans.synaptic.
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
GO.0050804.modulation.of.chemical.synaptic
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.07e−04
Value: Control_Healthy
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0007187.G.protein.coupled.receptor.signaling.pathway..coupled.to

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
GO.0051966.regulation.of.synaptic.transmission
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.07e−04
Value: Control_Healthy
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0007188.adenylate.cyclase.modulating.G.protein.couple
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
GO.0007193.adenylate.cyclase.inhibiting.G.protein.coupled
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0007196.adenylate.cyclase.inhibiting.G.protein.coupled.glutamate.receptor.signaling.pathway
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0098988.G.protein.coupled.glutamate.rec
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0001640.adenylate.cyclase.inhibiting.G.protein.coupled
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.082e−03
Coefficient: 4.04e−04
Value: Control_Healthy
GO.0001642.group.III.metabotropic.glutamate.r
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.177e−03
Coefficient: 3.92e−04
Value: Community_acquired_pneumonia
GO.0005544.calcium.dependent.phospholip
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.178e−03
Coefficient: 1.75e−04
Value: Control_Healthy
GO.00022904.respiratory.electron.transpo
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.362e−03
Coefficient: −4.56e−03
Value: Control_Sick
GO.0071704.organic.substance.metabolic
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.369e−03
Coefficient: 2.24e−03
Value: Community_acquired_pneumonia
GO.0034645.cellular.macromolecule.biosynth
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.637e−03
Coefficient: 6.44e−03
Value: Control_Healthy
GO.00009987.cellular.process
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.654e−03
Coefficient: 3.72e−04
Value: Control_Healthy
GO.0015940.pantothenate.biosynthetic.
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.654e−03
Coefficient: 1.02e−03
Value: Community_acquired_pneumonia
0.0075
0.0050
0.0025
0.0000
GO.0016773.phosphotransferase.activity..alcohol.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.667e−03
Coefficient: 1.66e−04
Value: Control_Healthy
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0015980.energy.derivation.by.oxidation.of.org
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.851e−03
Coefficient: 3.90e−04
Value: Community_acquired_pneumonia
GO.0005543.phospholipid.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.962e−03
Coefficient: 2.18e−03
Value: Community_acquired_pneumonia
GO.0009059.macromolecule.biosynthetic
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.101e−03
Coefficient: 2.13e−03
Value: Community_acquired_pneumonia
GO.0006793.phosphorus.metabolic.pr
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.101e−03
Coefficient: 2.70e−03
Value: Community_acquired_pneumonia
GO.0044260.cellular.macromolecule.metabo
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.101e−03
Coefficient: −2.96e−04
Value: Control_Sick
GO.00045527.exonuclease.activity
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.234e−03
Coefficient: 3.97e−04
Value: Community_acquired_pneumonia
GO.00008289.lipid.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.440e−03
Coefficient: −4.96e−03
Value: Control_Healthy
GO.0044281.small.molecule.metabolic.p
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.539e−03
Coefficient: 2.10e−03
Value: Community_acquired_pneumonia
GO.0006796.phosphate.containing.compound.m
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.630e−03
Coefficient: −3.47e−03
Value: Control_Healthy
GO.1901566.organonitrogen.compound.biosyn
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.682e−03
Coefficient: −5.25e−03
Value: Control_Healthy
GO.0044283.small.molecule.biosynthetic
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.736e−03
Coefficient: 2.30e−04
Value: Control_Healthy
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
.0016620.oxidoreductase.activity..acting.on.the.aldehyde.or.oxo.grou

FDR: 2.736e−03
Coefficient: 4.43e−04
Value: Community_acquired_pneumonia
GO.0004672.protein.kinase.activit
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.883e−03
Coefficient: 2.78e−04
Value: Control_Healthy
GO.0003916.DNA.topoisomerase.ac
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.927e−03
Coefficient: 4.55e−04
Value: Community_acquired_pneumonia
GO.0042254.ribosome.biogenesis
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.927e−03
Coefficient: 3.74e−04
Value: Control_Healthy
0.0012
0.0008
0.0004
0.0000
GO.0015939.pantothenate.metabolic.p
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.074e−03
Coefficient: −2.31e−03
Value: Control_Healthy
GO.0019438.aromatic.compound.biosynthe
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.104e−03
Coefficient: 4.59e−04
Value: Community_acquired_pneumonia
GO.0022613.ribonucleoprotein.complex.b
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.193e−03
Coefficient: −3.06e−03
Value: Community_acquired_pneumonia
GO.0003676.nucleic.acid.binding
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.376e−03
Coefficient: −1.31e−04
Value: Control_Sick
GO.0008170.N.methyltransferase.ac
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.629e−03
Coefficient: 4.56e−04
Value: Community_acquired_pneumonia
GO.0044085.cellular.component.biogen
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.715e−03
Coefficient: −3.89e−04
Value: Control_Sick
GO.00041175.endopeptidase.activi
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.831e−03
Coefficient: 2.22e−04
Value: Community_acquired_pneumonia
GO.0023051.regulation.of.signalin
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.831e−03
Coefficient: 2.22e−04
Value: Community_acquired_pneumonia
GO.0010646.regulation.of.cell.commun
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.868e−03
Coefficient: −5.50e−04
Value: Control_Sick
GO.0043565.sequence.specific.DNA.b
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.932e−03
Coefficient: 2.00e−04
Value: Community_acquired_pneumonia
GO.0018193.peptidyl.amino.acid.modif
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.150e−03
Coefficient: −2.93e−04
Value: Control_Sick
GO.0015711.organic.anion.transpo
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.171e−03
Coefficient: 5.66e−03
Value: Community_acquired_pneumonia
GO.00009987.cellular.process
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.579e−03
Coefficient: 4.21e−04
Value: Community_acquired_pneumonia
GO.0006468.protein.phosphorylati
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.770e−03
Coefficient: −1.80e−03
Value: Control_Sick
GO.0003723.RNA.bindin
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.037e−03
Coefficient: −5.20e−03
Value: Community_acquired_pneumonia
GO.0006082.organic.acid.metabolic.pr
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.088e−03
Coefficient: 3.35e−04
Value:Community_acquired_pneumonia
GO.0065008.regulation.of.biological.q
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.144e−03
Coefficient: 3.65e−03
Value: Control_Healthy
0.020
0.015
0.010
0.005
0.000
GO.0006139.nucleobase.containing.compound.m
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.144e−03
Coefficient: −5.20e−03
Value: Community_acquired_pneumonia
GO.0019752.carboxylic.acid.metabolic.p
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.331e−03
Coefficient: −5.18e−03
Value: Community_acquired_pneumonia
GO.0043436.oxoacid.metabolic.proc
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.709e−03
Coefficient: 1.62e−03
Value: Community_acquired_pneumonia
GO.00006396.RNA.process
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.184e−03
Coefficient: 2.80e−03
Value: Community_acquired_pneumonia
GO.0005975.carbohydrate.metabolic.p
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.267e−03
Coefficient: 7.80e−04
Value: Community_acquired_pneumonia
GO.0007166.cell.surface.receptor.signaling
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.458e−03
Coefficient: 1.61e−03
Value: Community_acquired_pneumonia
GO.0034470.ncRNA.processing
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.782e−03
Coefficient: −9.55e−04
Value: Control_Sick
GO.0071705.nitrogen.compound.tran
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.174e−03
Coefficient: −2.73e−04
Value: Control_Sick
GO.0015849.organic.acid.transpo
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.877e−03
Coefficient: −5.09e−03
Value: Control_Healthy
GO.0044249.cellular.biosynthetic.pro
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.916e−03
Coefficient: −3.34e−03
Value: Community_acquired_pneumonia
GO.0008652.cellular.amino.acid.biosynthet
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.971e−03
Coefficient: −2.10e−03
Value: Community_acquired_pneumonia
GO.00003677.DNA.bindin
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.114e−03
Coefficient: 3.18e−04
Value: Community_acquired_pneumonia
GO.0052692.raffinose.alpha.galactosidas
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.309e−03
Coefficient: 6.61e−04
Value: Control_Sick
GO.0065008.regulation.of.biological.q
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.724e−03
Coefficient: −5.02e−03
Value: Control_Healthy
GO.1901576.organic.substance.biosynthet
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.736e−03
Coefficient: −2.66e−04
Value: Control_Sick
GO.0046942.carboxylic.acid.transp
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.763e−03
Coefficient: −4.95e−03
Value: Community_acquired_pneumonia
GO.0016053.organic.acid.biosynthetic.p
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.867e−03
Coefficient: −4.95e−03
Value: Community_acquired_pneumonia
GO.0046394.carboxylic.acid.biosynthetic
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.152e−03
Coefficient: 2.39e−03
Value: Control_Healthy
GO.0036094.small.molecule.bindin
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.297e−03
Coefficient: 8.43e−04
Value: Community_acquired_pneumonia
GO.0009451.RNA.modification
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.297e−03
Coefficient: 2.22e−03
Value: Control_Healthy
GO.1901265.nucleoside.phosphate.bi
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.297e−03
Coefficient: 2.22e−03
Value: Control_Healthy
GO.0000166.nucleotide.binding
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.566e−03
Coefficient: 3.03e−04
Value: Community_acquired_pneumonia
GO.00000049.tRNA.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.002e−02
Coefficient: 1.78e−04
Value: Control_Healthy
GO.0008863.formate.dehydrogenase..NAD
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.015e−02
Coefficient: 1.47e−03
Value: Community_acquired_pneumonia
GO.0016072.rRNA.metabolic.proce
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.041e−02
Coefficient: 1.46e−03
Value: Community_acquired_pneumonia
GO.0006364.rRNA.processing
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.215e−02
Coefficient: −3.39e−04
Value: Control_Sick
GO.0006304.DNA.modification
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.231e−02
Coefficient: 1.97e−04
Value: Community_acquired_pneumonia
GO.0044255.cellular.lipid.metabolic.pr
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.231e−02
Coefficient: −1.40e−04
Value: Control_Sick
GO.0032392.DNA.geometric.chang
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.251e−02
Coefficient: 3.30e−04
Value: Community_acquired_pneumonia
GO.0071709.membrane.assembl
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.251e−02
Coefficient: 5.53e−04
Value: Community_acquired_pneumonia
GO.0004557.alpha.galactosidase.ac
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.314e−02
Coefficient: 3.61e−03
Value: Control_Healthy
0.020
0.015
0.010
0.005
0.000
GO.0034641.cellular.nitrogen.compound.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.377e−02
Coefficient: 1.67e−04
Value: Community_acquired_pneumonia
GO.0004673.protein.histidine.kinase.a
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.381e−02
Coefficient: 1.24e−03
Value: Community_acquired_pneumonia
GO.0043412.macromolecule.modifica
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.421e−02
Coefficient: 1.68e−04
Value: Community_acquired_pneumonia
GO.0016775.phosphotransferase.activity..nitrogenou
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.423e−02
Coefficient: 1.36e−03
Value: Community_acquired_pneumonia
GO.0043168.anion.bindin
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.541e−02
Coefficient: 2.40e−04
Value: Community_acquired_pneumonia
GO.0006629.lipid.metabolic.proces
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.572e−02
Coefficient: 3.48e−03
Value: Community_acquired_pneumonia
GO.0043170.macromolecule.metabolic.
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.588e−02
Coefficient: 2.29e−04
Value: Control_Healthy
GO.0016209.antioxidant.activity
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.786e−02
Coefficient: 1.33e−04
Value: Community_acquired_pneumonia
GO.0045333.cellular.respiration
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.786e−02
Coefficient: 1.38e−04
Value: Control_Healthy
9e−04
6e−04
3e−04
0e+00
GO.0016684.oxidoreductase.activity..acting.on.per
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.790e−02
Coefficient: 1.53e−03
Value: Community_acquired_pneumonia
GO.0016310.phosphorylation
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.790e−02
Coefficient: 1.06e−03
Value: Control_Sick
GO.0005515.protein.binding
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.833e−02
Coefficient: −4.64e−04
Value: Control_Sick
0.006
0.004
0.002
0.000
GO.0016655.oxidoreductase.activity..acting.on.NAD.P.H..quinone
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.833e−02
Coefficient: 2.87e−04
Value: Community_acquired_pneumonia
GO.0016435.rRNA..guanine..methyltransfer
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.851e−02
Coefficient: 2.26e−03
Value: Community_acquired_pneumonia
GO.0034660.ncRNA.metabolic.proc
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.882e−02
Coefficient: −2.98e−03
Value: Community_acquired_pneumonia
GO.0006520.cellular.amino.acid.metabolic
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.955e−02
Coefficient: −2.32e−04
Value: Control_Sick
GO.0006865.amino.acid.transpor
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.993e−02
Coefficient: 1.95e−04
Value: Control_Healthy
GO.0009055.electron.transfer.activ
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.029e−02
Coefficient: 2.83e−04
Value: Community_acquired_pneumonia
GO.0008171.O.methyltransferase.ac
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.067e−02
Coefficient: −5.35e−04
Value: Control_Sick
GO.0016651.oxidoreductase.activity..acting.
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.095e−02
Coefficient: 4.26e−04
Value: Control_Healthy
0.010
0.005
0.000
GO.0044877.protein.containing.complex
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.197e−02
Coefficient: 2.13e−04
Value: Community_acquired_pneumonia
GO.0051641.cellular.localization
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.197e−02
Coefficient: 2.83e−04
Value: Community_acquired_pneumonia
GO.0062105.RNA.2.O.methyltransferase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.224e−02
Coefficient: 2.82e−04
Value: Community_acquired_pneumonia
GO.0000451.rRNA.2.O.methylatio
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.249e−02
Coefficient: 1.68e−04
Value: Control_Healthy
GO.0016831.carboxy.lyase.activit
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.302e−02
Coefficient: −1.64e−03
Value: Control_Healthy
GO.0018130.heterocycle.biosynthetic.p
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.321e−02
Coefficient: −1.03e−04
Value: Control_Sick
GO.0009307.DNA.restriction.modification
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.322e−02
Coefficient: 2.81e−04
Value: Community_acquired_pneumonia
GO.0000453.enzyme.directed.rRNA.2.O.m
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.322e−02
Coefficient: 1.90e−03
Value: Community_acquired_pneumonia
GO.1901265.nucleoside.phosphate.bi
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.322e−02
Coefficient: 1.90e−03
Value: Community_acquired_pneumonia
GO.0000166.nucleotide.binding
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.325e−02
Coefficient: 2.81e−04
Value: Community_acquired_pneumonia
GO.0000470.maturation.of.LSU.rRN
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.325e−02
Coefficient: 2.81e−04
Value: Community_acquired_pneumonia
GO.0000460.maturation.of.5.8S.rRN
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.325e−02
Coefficient: 2.81e−04
Value: Community_acquired_pneumonia
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0000466.maturation.of.5.8S.rRNA.from.tricistronic.rRNA.transcrip

FDR: 2.325e−02
Coefficient: 2.81e−04
Value: Community_acquired_pneumonia
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0000463.maturation.of.LSU.rRNA.from.tricistronic.rRNA.transcrip

FDR: 2.325e−02
Coefficient: 2.81e−04
Value: Community_acquired_pneumonia
GO.0008650.rRNA..uridine.2.O...methyltransf
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.367e−02
Coefficient: 2.03e−04
Value: Control_Healthy
GO.0022900.electron.transport.cha
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.382e−02
Coefficient: 2.79e−04
Value: Community_acquired_pneumonia
GO.0016436.rRNA..uridine..methyltransfera
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.387e−02
Coefficient: −1.03e−04
Value: Control_Sick
GO.0099046.clearance.of.foreign.intracellular.
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.387e−02
Coefficient: −1.03e−04
Value: Control_Sick
GO.0044355.clearance.of.foreign.intracell
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.387e−02
Coefficient: 2.78e−04
Value: Community_acquired_pneumonia
GO.0052689.carboxylic.ester.hydrolase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.387e−02
Coefficient: −1.18e−04
Value: Control_Sick
GO.0004180.carboxypeptidase.acti
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.444e−02
Coefficient: 6.86e−04
Value: Community_acquired_pneumonia
GO.0044267.cellular.protein.metabolic.p
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.444e−02
Coefficient: −2.78e−03
Value: Control_Healthy
GO.0008652.cellular.amino.acid.biosynthet
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.445e−02
Coefficient: 1.61e−04
Value: Control_Healthy
GO.0004673.protein.histidine.kinase.a
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.461e−02
Coefficient: 2.89e−03
Value: Control_Healthy
GO.0044238.primary.metabolic.proc
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.810e−02
Coefficient: 1.61e−04
Value: Control_Healthy
9e−04
6e−04
3e−04
0e+00
GO.0016775.phosphotransferase.activity..nitrogenou
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.956e−02
Coefficient: 2.27e−04
Value: Control_Sick
0.003
0.002
0.001
0.000
GO.0016758.transferase.activity..transferring.h
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.976e−02
Coefficient: 2.05e−03
Value: Control_Sick
0.010
0.005
0.000
GO.0019538.protein.metabolic.proc
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.030e−02
Coefficient: 2.00e−04
Value: Community_acquired_pneumonia
GO.0022900.electron.transport.cha
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.033e−02
Coefficient: 7.33e−04
Value: Community_acquired_pneumonia
GO.0001510.RNA.methylation
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.048e−02
Coefficient: 1.18e−04
Value: Community_acquired_pneumonia
GO.0004721.phosphoprotein.phosphatase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.112e−02
Coefficient: 5.05e−04
Value: Control_Healthy
GO.0006518.peptide.metabolic.proc
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.141e−02
Coefficient: −4.06e−03
Value: Control_Healthy
GO.0016053.organic.acid.biosynthetic.p
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.158e−02
Coefficient: −4.06e−03
Value: Control_Healthy
GO.0046394.carboxylic.acid.biosynthetic
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.158e−02
Coefficient: 1.92e−04
Value: Community_acquired_pneumonia
GO.0042578.phosphoric.ester.hydrolase
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.167e−02
Coefficient: −1.35e−03
Value: Community_acquired_pneumonia
GO.0046417.chorismate.metabolic.pr
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.167e−02
Coefficient: −8.10e−05
Value: Control_Sick
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
GO.0016624.oxidoreductase.activity..acting.on.the.aldehyde.or.oxo.g

FDR: 3.206e−02
Coefficient: 7.26e−04
Value: Community_acquired_pneumonia
GO.0008173.RNA.methyltransferase.a
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.220e−02
Coefficient: 8.19e−05
Value: Community_acquired_pneumonia
GO.0004725.protein.tyrosine.phosphatas
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.220e−02
Coefficient: 4.89e−04
Value: Control_Healthy
GO.0043043.peptide.biosynthetic.pro
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.220e−02
Coefficient: 2.62e−04
Value: Control_Sick
GO.1902600.proton.transmembrane.tra
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.256e−02
Coefficient: −1.34e−03
Value: Community_acquired_pneumonia
GO.0009423.chorismate.biosynthetic.p
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.275e−02
Coefficient: 4.81e−04
Value: Community_acquired_pneumonia
GO.0000154.rRNA.modification
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.275e−02
Coefficient: 4.82e−04
Value: Community_acquired_pneumonia
GO.0031167.rRNA.methylation
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.324e−02
Coefficient: −1.63e−03
Value: Control_Healthy
GO.0003677.DNA.binding
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.493e−02
Coefficient: −1.33e−03
Value: Community_acquired_pneumonia
GO.0003855.3.dehydroquinate.dehydratase
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.546e−02
Coefficient: 4.82e−04
Value: Control_Healthy
GO.0006412.translation
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.619e−02
Coefficient: 7.13e−04
Value: Community_acquired_pneumonia
GO.0140102.catalytic.activity..acting.on.
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.619e−02
Coefficient: 7.13e−04
Value: Community_acquired_pneumonia
GO.0008649.rRNA.methyltransferase.a
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.619e−02
Coefficient: −2.53e−04
Value: Control_Sick
GO.0046873.metal.ion.transmembrane.transp
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.675e−02
Coefficient: −1.31e−03
Value: Community_acquired_pneumonia
GO.0043650.dicarboxylic.acid.biosynthetic
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.690e−02
Coefficient: −1.22e−03
Value: Control_Healthy
GO.0016835.carbon.oxygen.lyase.ac
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.787e−02
Coefficient: −7.09e−04
Value: Control_Healthy
GO.0031323.regulation.of.cellular.metabol
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.787e−02
Coefficient: 2.03e−04
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0016903.oxidoreductase.activity..acting.on.the.aldehy
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.863e−02
Coefficient: 2.47e−04
Value: Control_Healthy
GO.00009991.response.to.extracellular.s
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.886e−02
Coefficient: −1.88e−03
Value: Community_acquired_pneumonia
GO.0019438.aromatic.compound.biosynthe
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.910e−02
Coefficient: −1.20e−04
Value: Control_Sick
GO.0003678.DNA.helicase.activit
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 3.915e−02
Coefficient: 1.89e−03
Value: Community_acquired_pneumonia
GO.0036094.small.molecule.bindin
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.089e−02
Coefficient: −1.20e−03
Value: Control_Healthy
GO.0016836.hydro.lyase.activity
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.123e−02
Coefficient: −1.33e−03
Value: Community_acquired_pneumonia
GO.0009073.aromatic.amino.acid.family.biosyn
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.123e−02
Coefficient: −1.27e−03
Value: Community_acquired_pneumonia
GO.0016835.carbon.oxygen.lyase.ac
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.262e−02
Coefficient: −4.06e−04
Value: Control_Sick
GO.0003960.NADPH.quinone.reductase
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.313e−02
Coefficient: 8.33e−04
Value: Community_acquired_pneumonia
GO.0006399.tRNA.metabolic.proce
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.313e−02
Coefficient: −1.23e−03
Value: Control_Healthy
GO.0009423.chorismate.biosynthetic.p
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.313e−02
Coefficient: 2.72e−03
Value: Control_Sick
GO.0043168.anion.bindin
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.314e−02
Coefficient: 6.43e−04
Value: Community_acquired_pneumonia
GO.0046835.carbohydrate.phosphory
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.473e−02
Coefficient: −4.97e−04
Value: Control_Sick
GO.0030001.metal.ion.transport
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.494e−02
Coefficient: −1.25e−03
Value: Community_acquired_pneumonia
GO.0016836.hydro.lyase.activity
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.639e−02
Coefficient: 3.59e−04
Value: Control_Sick
GO.0072330.monocarboxylic.acid.biosynthe
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.672e−02
Coefficient: 2.45e−04
Value: Control_Healthy
GO.0007154.cell.communication
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.685e−02
Coefficient: −1.20e−03
Value: Control_Healthy
GO.0043650.dicarboxylic.acid.biosynthetic
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: −1.25e−03
Value: Community_acquired_pneumonia
GO.0043648.dicarboxylic.acid.metabolic
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: 2.39e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0071496.cellular.response.to.external
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: 2.39e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0031668.cellular.response.to.extracellul
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: −1.29e−03
Value: Community_acquired_pneumonia
GO.0009072.aromatic.amino.acid.family.meta
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: 2.68e−04
Value: Community_acquired_pneumonia
GO.0006428.isoleucyl.tRNA.aminoacy
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: 1.74e−04
Value: Community_acquired_pneumonia
GO.0009055.electron.transfer.activ
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: 2.68e−04
Value: Community_acquired_pneumonia
GO.0004822.isoleucine.tRNA.ligase.a
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.706e−02
Coefficient: −1.21e−03
Value: Control_Healthy
GO.0003855.3.dehydroquinate.dehydratase
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.866e−02
Coefficient: 2.67e−04
Value: Community_acquired_pneumonia
GO.0006450.regulation.of.translational.
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 4.882e−02
Coefficient: −7.28e−04
Value: Control_Healthy
GO.0019222.regulation.of.metabolic.pr
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.015e−02
Coefficient: 6.27e−04
Value: Community_acquired_pneumonia
GO.00047747.ribokinase.activity
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.037e−02
Coefficient: −6.45e−05
Value: Control_Sick
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0016645.oxidoreductase.activity..acting.on.the.CH
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.102e−02
Coefficient: −6.53e−04
Value: Control_Healthy
GO.0060255.regulation.of.macromolecule.meta
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.102e−02
Coefficient: 2.68e−04
Value: Community_acquired_pneumonia
GO.0002161.aminoacyl.tRNA.editing.a
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.190e−02
Coefficient: −4.97e−04
Value: Control_Healthy
GO.0097659.nucleic.acid.templated.trans
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.291e−02
Coefficient: −1.77e−04
Value: Control_Sick
GO.0044728.DNA.methylation.or.demet
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.339e−02
Coefficient: −3.72e−03
Value: Control_Healthy
GO.0006082.organic.acid.metabolic.pr
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.339e−02
Coefficient: −1.77e−04
Value: Control_Sick
GO.0006305.DNA.alkylati
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.339e−02
Coefficient: −1.77e−04
Value: Control_Sick
GO.0006306.DNA.methylation
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.403e−02
Coefficient: 2.65e−04
Value: Community_acquired_pneumonia
0.0015
0.0010
0.0005
0.0000
GO.0106074.aminoacyl.tRNA.metabolism.involved.in
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.490e−02
Coefficient: 7.62e−04
Value: Control_Sick
GO.0036211.protein.modification.pro
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.490e−02
Coefficient: 7.62e−04
Value: Control_Sick
GO.0006464.cellular.protein.modification
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.490e−02
Coefficient: −1.35e−04
Value: Control_Sick
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
6796.exonuclease.activity..active.with.either.ribo..or.deoxyribonucleic

FDR: 5.491e−02
Coefficient: −3.42e−03
Value: Control_Sick
GO.0016874.ligase.activity
0.06
0.04
0.02
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.525e−02
Coefficient: −3.69e−03
Value: Control_Healthy
GO.0043436.oxoacid.metabolic.proc
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.525e−02
Coefficient: 9.30e−04
Value: Control_Healthy
GO.0097367.carbohydrate.derivative.b
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.526e−02
Coefficient: 2.96e−04
Value: Control_Sick
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0018193.peptidyl.amino.acid.modif
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.594e−02
Coefficient: 1.67e−04
Value: Community_acquired_pneumonia
GO.0070727.cellular.macromolecule.loca
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.594e−02
Coefficient: −3.69e−03
Value: Control_Healthy
GO.0019752.carboxylic.acid.metabolic.p
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.598e−02
Coefficient: 1.68e−04
Value: Community_acquired_pneumonia
GO.0034613.cellular.protein.localiza
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.639e−02
Coefficient: −4.73e−04
Value: Control_Sick
GO.0032774.RNA.biosynthetic.proc
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.704e−02
Coefficient: 1.76e−04
Value: Community_acquired_pneumonia
GO.0044248.cellular.catabolic.proc
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.715e−02
Coefficient: −4.00e−04
Value: Control_Sick
GO.0008237.metallopeptidase.activ
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.715e−02
Coefficient: −2.72e−04
Value: Control_Sick
GO.0015399.primary.active.transmembrane.tran
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.739e−02
Coefficient: 1.06e−04
Value: Control_Sick
GO.0098542.defense.response.to.other.c
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.752e−02
Coefficient: 7.39e−05
Value: Community_acquired_pneumonia
GO.0006470.protein.dephosphorylat
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.761e−02
Coefficient: 1.06e−04
Value: Control_Sick
GO.0006952.defense.response
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.761e−02
Coefficient: −1.17e−03
Value: Control_Healthy
GO.0046417.chorismate.metabolic.pr
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.779e−02
Coefficient: −5.71e−04
Value: Control_Healthy
0.006
0.004
0.002
0.000
GO.0019219.regulation.of.nucleobase.containing.compo
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.812e−02
Coefficient: −3.45e−03
Value: Community_acquired_pneumonia
GO.0006807.nitrogen.compound.metabolic
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.812e−02
Coefficient: −4.56e−03
Value: Control_Healthy
GO.0009058.biosynthetic.process
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.860e−02
Coefficient: −6.28e−04
Value: Control_Healthy
GO.0051171.regulation.of.nitrogen.compound.m
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 5.884e−02
Coefficient: 2.67e−03
Value: Control_Healthy
GO.0046483.heterocycle.metabolic.pr
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.011e−02
Coefficient: 7.01e−04
Value: Control_Healthy
0.0075
0.0050
0.0025
0.0000
GO.0016773.phosphotransferase.activity..alcohol.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.053e−02
Coefficient: 1.60e−03
Value: Community_acquired_pneumonia
GO.0044271.cellular.nitrogen.compound.biosyn
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.087e−02
Coefficient: −6.23e−04
Value: Control_Healthy
GO.0080090.regulation.of.primary.metabol
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.087e−02
Coefficient: 1.65e−04
Value: Community_acquired_pneumonia
0.0020
0.0015
0.0010
0.0005
0.0000
GO.0090150.establishment.of.protein.localizatio
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.115e−02
Coefficient: 7.55e−04
Value: Community_acquired_pneumonia
GO.0019538.protein.metabolic.proc
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.221e−02
Coefficient: 1.64e−04
Value: Community_acquired_pneumonia
GO.0072657.protein.localization.to.mem
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.221e−02
Coefficient: 6.53e−04
Value: Control_Sick
GO.0035556.intracellular.signal.transd
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.301e−02
Coefficient: −5.55e−05
Value: Control_Sick
GO.0046653.tetrahydrofolate.metabolic.
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.327e−02
Coefficient: 5.07e−04
Value: Community_acquired_pneumonia
GO.0060089.molecular.transducer.ac
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.408e−02
Coefficient: 1.49e−03
Value: Community_acquired_pneumonia
GO.0018130.heterocycle.biosynthetic.p
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.540e−02
Coefficient: −4.76e−04
Value: Control_Healthy
GO.0032774.RNA.biosynthetic.proc
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.540e−02
Coefficient: −2.27e−04
Value: Control_Healthy
GO.0022853.active.ion.transmembrane.transp
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.540e−02
Coefficient: −8.98e−05
Value: Control_Sick
GO.0009008.DNA.methyltransferase.a
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.561e−02
Coefficient: 4.93e−04
Value: Control_Sick
GO.0050660.flavin.adenine.dinucleotide
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.572e−02
Coefficient: −4.09e−03
Value: Control_Sick
GO.1901362.organic.cyclic.compound.biosynt
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.572e−02
Coefficient: 8.86e−04
Value: Control_Healthy
GO.0032553.ribonucleotide.bindin
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.658e−02
Coefficient: −1.10e−03
Value: Control_Healthy
GO.0043648.dicarboxylic.acid.metabolic
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.658e−02
Coefficient: −4.24e−04
Value: Control_Healthy
GO.0006351.transcription..DNA.temp
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.741e−02
Coefficient: −3.44e−03
Value: Community_acquired_pneumonia
GO.0044281.small.molecule.metabolic.p
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.791e−02
Coefficient: 1.71e−04
Value: Community_acquired_pneumonia
GO.0072330.monocarboxylic.acid.biosynthe
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.791e−02
Coefficient: 3.35e−04
Value: Community_acquired_pneumonia
0.010
0.005
0.000
GO.0044877.protein.containing.complex
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.791e−02
Coefficient: 9.82e−04
Value: Community_acquired_pneumonia
GO.0016741.transferase.activity..transferring.one
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 6.824e−02
Coefficient: 1.51e−04
Value: Control_Healthy
GO.0000160.phosphorelay.signal.transduct
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.008e−02
Coefficient: 4.97e−04
Value: Community_acquired_pneumonia
GO.0038023.signaling.receptor.activity
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.149e−02
Coefficient: 2.95e−04
Value: Community_acquired_pneumonia
GO.0033036.macromolecule.localiza
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.149e−02
Coefficient: 2.94e−04
Value: Community_acquired_pneumonia
GO.0008104.protein.localization
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.149e−02
Coefficient: −4.08e−04
Value: Control_Healthy
GO.0140110.transcription.regulator.ac
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.149e−02
Coefficient: 5.82e−04
Value: Community_acquired_pneumonia
GO.0019200.carbohydrate.kinase.ac
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.210e−02
Coefficient: −5.50e−04
Value: Control_Healthy
GO.0010468.regulation.of.gene.expre
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.210e−02
Coefficient: −4.04e−04
Value: Control_Healthy
GO.0003700.DNA.binding.transcription.fac
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.210e−02
Coefficient: 9.74e−05
Value: Community_acquired_pneumonia
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0015291.secondary.active.transmembrane.tra
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.344e−02
Coefficient: 2.04e−03
Value: Control_Sick
0.006
0.004
0.002
0.000
GO.0016741.transferase.activity..transferring.one
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.439e−02
Coefficient: −1.81e−04
Value: Control_Sick
0.003
0.002
0.001
0.000
GO.0008514.organic.anion.transmembrane.tran
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.493e−02
Coefficient: 8.59e−04
Value: Control_Healthy
GO.0017076.purine.nucleotide.bind
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.493e−02
Coefficient: −3.90e−04
Value: Control_Healthy
GO.0043565.sequence.specific.DNA.b
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.493e−02
Coefficient: 6.50e−04
Value: Community_acquired_pneumonia
GO.0008757.S.adenosylmethionine.dependent.meth
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.541e−02
Coefficient: 1.08e−04
Value: Community_acquired_pneumonia
GO.0022904.respiratory.electron.transpo
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.551e−02
Coefficient: 6.53e−04
Value: Community_acquired_pneumonia
GO.0043414.macromolecule.methyla
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.570e−02
Coefficient: −1.88e−03
Value: Control_Healthy
GO.00003676.nucleic.acid.binding
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.612e−02
Coefficient: 8.96e−04
Value: Community_acquired_pneumonia
GO.0032259.methylation
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.617e−02
Coefficient: 4.44e−04
Value: Control_Sick
GO.00000049.tRNA.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.622e−02
Coefficient: 2.90e−04
Value: Community_acquired_pneumonia
GO.0045184.establishment.of.protein.loc
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.646e−02
Coefficient: 2.58e−04
Value: Community_acquired_pneumonia
0.002
0.001
0.000
GO.0016746.transferase.activity..transferring
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.648e−02
Coefficient: 1.04e−04
Value: Community_acquired_pneumonia
GO.0046395.carboxylic.acid.catabolic.p
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.654e−02
Coefficient: 8.48e−04
Value: Control_Healthy
GO.0032555.purine.ribonucleotide.bin
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.715e−02
Coefficient: 8.23e−04
Value: Community_acquired_pneumonia
GO.0097367.carbohydrate.derivative.b
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.784e−02
Coefficient: 2.66e−04
Value: Control_Healthy
0.002
0.001
0.000
GO.0030420.establishment.of.competence.for.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.856e−02
Coefficient: −5.15e−04
Value: Control_Healthy
GO.0051252.regulation.of.RNA.metabolic
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 7.889e−02
Coefficient: 3.07e−04
Value: Control_Sick
1e−03
5e−04
0e+00
GO.0042398.cellular.modified.amino.acid.biosy
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.212e−02
Coefficient: 1.11e−03
Value: Control_Healthy
GO.0016301.kinase.activity
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.448e−02
Coefficient: 1.47e−03
Value: Community_acquired_pneumonia
GO.0006766.vitamin.metabolic.proc
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.448e−02
Coefficient: 2.00e−03
Value: Community_acquired_pneumonia
GO.0016070.RNA.metabolic.proce
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.448e−02
Coefficient: −7.73e−05
Value: Control_Sick
GO.0032775.DNA.methylation.on.ade
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.448e−02
Coefficient: −7.73e−05
Value: Control_Sick
1e−03
5e−04
0e+00
GO.0009007.site.specific.DNA.methyltransferase..ade
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.522e−02
Coefficient: 8.26e−04
Value: Control_Healthy
0.015
0.010
0.005
0.000
GO.0035639.purine.ribonucleoside.triphosph
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.600e−02
Coefficient: 1.46e−03
Value: Community_acquired_pneumonia
GO.0006767.water.soluble.vitamin.metabol
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.686e−02
Coefficient: −3.44e−03
Value: Community_acquired_pneumonia
GO.0044283.small.molecule.biosynthetic
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.686e−02
Coefficient: 7.95e−04
Value: Community_acquired_pneumonia
GO.0032553.ribonucleotide.binding
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.843e−02
Coefficient: 1.46e−03
Value: Community_acquired_pneumonia
GO.0042364.water.soluble.vitamin.biosynthe
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 8.852e−02
Coefficient: 1.46e−03
Value: Community_acquired_pneumonia
GO.0009110.vitamin.biosynthetic.pro
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.114e−02
Coefficient: −1.73e−04
Value: Control_Sick
GO.0005342.organic.acid.transmembrane.tran
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.121e−02
Coefficient: −5.06e−04
Value: Control_Healthy
GO.0010556.regulation.of.macromolecule.biosy
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.178e−02
Coefficient: −5.05e−04
Value: Control_Healthy
GO.0031326.regulation.of.cellular.biosynthe
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.333e−02
Coefficient: −5.05e−04
Value: Control_Healthy
GO.0009889.regulation.of.biosynthetic.p
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.497e−02
Coefficient: 6.47e−04
Value: Control_Sick
GO.0004672.protein.kinase.activit
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.577e−02
Coefficient: 4.66e−04
Value: Community_acquired_pneumonia
GO.0004888.transmembrane.signaling.rece
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.666e−02
Coefficient: −4.37e−03
Value: Control_Sick
GO.1901566.organonitrogen.compound.biosyn
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.701e−02
Coefficient: 1.75e−04
Value: Community_acquired_pneumonia
GO.0051205.protein.insertion.into.mem
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.701e−02
Coefficient: −1.69e−04
Value: Control_Sick
GO.0046943.carboxylic.acid.transmembrane.tra
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.714e−02
Coefficient: 2.74e−04
Value: Control_Sick
GO.0016831.carboxy.lyase.activit
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 9.860e−02
Coefficient: 1.83e−04
Value: Control_Healthy
GO.0006629.lipid.metabolic.proces
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.002e−01
Coefficient: −7.60e−03
Value: Control_Sick
GO.0044249.cellular.biosynthetic.pro
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.007e−01
Coefficient: 6.30e−04
Value: Control_Sick
GO.0006468.protein.phosphorylati
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.020e−01
Coefficient: −1.04e−04
Value: Control_Healthy
GO.0000096.sulfur.amino.acid.metabolic
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.029e−01
Coefficient: 1.40e−03
Value: Community_acquired_pneumonia
GO.0016830.carbon.carbon.lyase.ac
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.029e−01
Coefficient: 1.45e−04
Value: Community_acquired_pneumonia
GO.0016791.phosphatase.activity
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.033e−01
Coefficient: 7.22e−04
Value: Community_acquired_pneumonia
GO.0140101.catalytic.activity..acting.on.
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.034e−01
Coefficient: 2.81e−04
Value: Control_Healthy
GO.0015833.peptide.transport
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.036e−01
Coefficient: −1.92e−04
Value: Control_Healthy
GO.0042625.ATPase.coupled.ion.transmembrane.
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.037e−01
Coefficient: −7.61e−03
Value: Control_Sick
GO.19015576.organic.substance.biosynthet
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.097e−01
Coefficient: 4.18e−04
Value: Community_acquired_pneumonia
GO.0015925.galactosidase.activit
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.121e−01
Coefficient: 2.78e−04
Value: Control_Healthy
GO.0042886.amide.transport
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.135e−01
Coefficient: 7.45e−04
Value: Community_acquired_pneumonia
GO.0032555.purine.ribonucleotide.bin
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.137e−01
Coefficient: 9.91e−05
Value: Community_acquired_pneumonia
GO.0009064.glutamine.family.amino.acid.meta
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.138e−01
Coefficient: −1.76e−04
Value: Control_Healthy
GO.0006865.amino.acid.transpor
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.169e−01
Coefficient: 1.23e−03
Value: Community_acquired_pneumonia
GO.0140098.catalytic.activity..acting.on
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.177e−01
Coefficient: −5.01e−05
Value: Control_Sick
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0016646.oxidoreductase.activity..acting.on.the.CH.NH.group.of.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.178e−01
Coefficient: 2.89e−04
Value: Control_Sick
1e−03
5e−04
0e+00
GO.0016742.hydroxymethyl...formyl..and.related.tr
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.179e−01
Coefficient: −1.02e−03
Value: Control_Healthy
0.012
0.008
0.004
0.000
GO.0009072.aromatic.amino.acid.family.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.179e−01
Coefficient: 2.44e−04
Value: Control_Healthy
GO.0015031.protein.transport
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.202e−01
Coefficient: 7.40e−04
Value: Community_acquired_pneumonia
GO.0017076.purine.nucleotide.bind
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.212e−01
Coefficient: −1.45e−03
Value: Community_acquired_pneumonia
GO.0004518.nuclease.activity
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.220e−01
Coefficient: 1.39e−04
Value: Control_Healthy
GO.0044255.cellular.lipid.metabolic.pr
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.222e−01
Coefficient: 1.43e−04
Value: Community_acquired_pneumonia
1e−03
5e−04
0e+00
GO.0042398.cellular.modified.amino.acid.biosy
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.222e−01
Coefficient: −1.02e−03
Value: Control_Healthy
GO.0009073.aromatic.amino.acid.family.biosyn
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.222e−01
Coefficient: −4.52e−04
Value: Community_acquired_pneumonia
GO.0032774.RNA.biosynthetic.proc
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.236e−01
Coefficient: −1.87e−04
Value: Control_Healthy
GO.0015711.organic.anion.transpo
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.236e−01
Coefficient: −9.11e−04
Value: Community_acquired_pneumonia
GO.0006259.DNA.metabolic.proce
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.265e−01
Coefficient: 4.80e−05
Value: Control_Healthy
GO.0006553.lysine.metabolic.proce
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.296e−01
Coefficient: 4.70e−05
Value: Control_Healthy
1e−03
5e−04
0e+00
GO.0009085.lysine.biosynthetic.proc
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.296e−01
Coefficient: 7.18e−04
Value: Community_acquired_pneumonia
0.015
0.010
0.005
0.000
GO.0035639.purine.ribonucleoside.triphosph
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.304e−01
Coefficient: 1.78e−04
Value: Community_acquired_pneumonia
GO.0043165.Gram.negative.bacterium.type.cell.outer
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.315e−01
Coefficient: −4.46e−04
Value: Control_Healthy
GO.2001141.regulation.of.RNA.biosynthet
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.317e−01
Coefficient: −1.66e−04
Value: Control_Sick
GO.0004222.metalloendopeptidase.ac
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.325e−01
Coefficient: 1.00e−04
Value: Community_acquired_pneumonia
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0015980.energy.derivation.by.oxidation.of.org
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.328e−01
Coefficient: −1.80e−04
Value: Control_Healthy
GO.0015849.organic.acid.transpo
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.330e−01
Coefficient: 2.04e−04
Value: Community_acquired_pneumonia
GO.0007154.cell.communication
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.331e−01
Coefficient: −2.36e−04
Value: Control_Healthy
GO.0015399.primary.active.transmembrane.tran
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.341e−01
Coefficient: −7.87e−03
Value: Control_Sick
GO.0009058.biosynthetic.process
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.341e−01
Coefficient: 1.19e−04
Value: Community_acquired_pneumonia
GO.0016311.dephosphorylation
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.341e−01
Coefficient: 1.67e−04
Value: Community_acquired_pneumonia
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0007187.G.protein.coupled.receptor.signaling.pathway..coupled.to

FDR: 1.341e−01
Coefficient: 1.67e−04
Value: Community_acquired_pneumonia
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0007188.adenylate.cyclase.modulating.G.protein.couple
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.341e−01
Coefficient: −4.41e−04
Value: Community_acquired_pneumonia
GO.0097659.nucleic.acid.templated.trans
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.347e−01
Coefficient: 2.00e−04
Value: Community_acquired_pneumonia
GO.00009991.response.to.extracellular.s
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.348e−01
Coefficient: 9.30e−05
Value: Community_acquired_pneumonia
GO.0016054.organic.acid.catabolic.pr
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.33e−03
Value: Community_acquired_pneumonia
GO.0050794.regulation.of.cellular.pro
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
GO.0099177.regulation.of.trans.synaptic.
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
GO.0050804.modulation.of.chemical.synaptic
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
GO.0051966.regulation.of.synaptic.transmission
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
GO.0007193.adenylate.cyclase.inhibiting.G.protein.coupled
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: −3.92e−04
Value: Control_Sick
GO.0097659.nucleic.acid.templated.trans
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0007196.adenylate.cyclase.inhibiting.G.protein.coupled.glutamate.receptor.signaling.pathway
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
GO.0098988.G.protein.coupled.glutamate.rec
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
GO.0001640.adenylate.cyclase.inhibiting.G.protein.coupled
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.66e−04
Value: Community_acquired_pneumonia
GO.0001642.group.III.metabotropic.glutamate.r
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.351e−01
Coefficient: 1.33e−03
Value: Community_acquired_pneumonia
GO.0016853.isomerase.activity
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.357e−01
Coefficient: −5.39e−03
Value: Control_Sick
GO.0044281.small.molecule.metabolic.p
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.380e−01
Coefficient: 1.31e−03
Value: Community_acquired_pneumonia
GO.0042726.flavin.containing.compound.meta
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.380e−01
Coefficient: 1.31e−03
Value: Community_acquired_pneumonia
GO.0006771.riboflavin.metabolic.pro
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.380e−01
Coefficient: 1.31e−03
Value: Community_acquired_pneumonia
GO.0042727.flavin.containing.compound.biosy
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.380e−01
Coefficient: 1.31e−03
Value: Community_acquired_pneumonia
GO.0009231.riboflavin.biosynthetic.pr
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.395e−01
Coefficient: −1.87e−04
Value: Control_Sick
GO.0022853.active.ion.transmembrane.transp
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.395e−01
Coefficient: 1.30e−03
Value: Community_acquired_pneumonia
GO.0008686.3.4.dihydroxy.2.butanone.4.phosphat
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.401e−01
Coefficient: 1.49e−03
Value: Community_acquired_pneumonia
GO.0065007.biological.regulation
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.401e−01
Coefficient: 1.98e−04
Value: Community_acquired_pneumonia
0.003
0.002
0.001
0.000
GO.0071496.cellular.response.to.external
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.401e−01
Coefficient: 1.98e−04
Value: Community_acquired_pneumonia
GO.0031668.cellular.response.to.extracellul
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.401e−01
Coefficient: 8.28e−04
Value: Community_acquired_pneumonia
GO.0008168.methyltransferase.acti
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.412e−01
Coefficient: −2.34e−04
Value: Control_Healthy
GO.0042626.ATPase.coupled.transmembrane.tra
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.412e−01
Coefficient: −1.75e−04
Value: Control_Healthy
GO.0046942.carboxylic.acid.transp
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.412e−01
Coefficient: −4.63e−04
Value: Control_Sick
GO.1901575.organic.substance.catabolic
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.412e−01
Coefficient: 2.52e−04
Value: Control_Sick
GO.0000287.magnesium.ion.bindi
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.420e−01
Coefficient: 9.54e−05
Value: Control_Sick
GO.0006553.lysine.metabolic.proce
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.430e−01
Coefficient: −6.95e−04
Value: Control_Sick
GO.1901135.carbohydrate.derivative.metabo
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.430e−01
Coefficient: −5.63e−03
Value: Control_Sick
GO.0016829.lyase.activit
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.439e−01
Coefficient: −1.49e−02
Value: Control_Healthy
GO.0003824.catalytic.activity
0.3
0.2
0.1
0.0
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.448e−01
Coefficient: 2.29e−03
Value: Community_acquired_pneumonia
GO.0034641.cellular.nitrogen.compound.meta
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.448e−01
Coefficient: 9.34e−05
Value: Control_Sick
1e−03
5e−04
0e+00
GO.0009085.lysine.biosynthetic.proc
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.455e−01
Coefficient: 1.23e−04
Value: Community_acquired_pneumonia
GO.0000160.phosphorelay.signal.transduct
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.463e−01
Coefficient: −3.62e−04
Value: Community_acquired_pneumonia
GO.0043565.sequence.specific.DNA.b
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.470e−01
Coefficient: 1.32e−03
Value: Community_acquired_pneumonia
GO.0050789.regulation.of.biological.pr
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.475e−01
Coefficient: −1.61e−04
Value: Control_Sick
GO.00004540.ribonuclease.activity
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.481e−01
Coefficient: 1.20e−04
Value: Community_acquired_pneumonia
GO.0000287.magnesium.ion.bindi
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.506e−01
Coefficient: −9.42e−05
Value: Control_Healthy
GO.0003678.DNA.helicase.activit
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.510e−01
Coefficient: −4.46e−05
Value: Control_Sick
GO.0035999.tetrahydrofolate.interconv
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.520e−01
Coefficient: −7.30e−04
Value: Control_Healthy
0.010
0.005
0.000
GO.0034654.nucleobase.containing.compound.bio
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.532e−01
Coefficient: 2.52e−04
Value: Control_Healthy
GO.1901607.alpha.amino.acid.biosynthetic
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.578e−01
Coefficient: −7.35e−05
Value: Control_Healthy
GO.0009307.DNA.restriction.modification
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.586e−01
Coefficient: −1.57e−04
Value: Control_Sick
GO.00440092.negative.regulation.of.molecul
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.586e−01
Coefficient: −1.90e−03
Value: Control_Healthy
GO.0006520.cellular.amino.acid.metabolic
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.622e−01
Coefficient: −9.34e−05
Value: Control_Sick
GO.0031177.phosphopantetheine.bin
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.622e−01
Coefficient: 9.79e−05
Value: Community_acquired_pneumonia
GO.0044282.small.molecule.catabolic.p
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.630e−01
Coefficient: 1.56e−03
Value: Control_Sick
GO.0032259.methylation
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.630e−01
Coefficient: −1.26e−04
Value: Control_Sick
GO.0000150.recombinase.activity
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.630e−01
Coefficient: 2.05e−03
Value: Community_acquired_pneumonia
GO.0046483.heterocycle.metabolic.pr
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.636e−01
Coefficient: −1.19e−03
Value: Control_Healthy
0.010
0.005
0.000
GO.0044271.cellular.nitrogen.compound.biosyn
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.636e−01
Coefficient: 3.99e−04
Value: Control_Sick
GO.0005509.calcium.ion.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.640e−01
Coefficient: 4.40e−04
Value: Community_acquired_pneumonia
GO.0016875.ligase.activity..forming.carbon.o
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.640e−01
Coefficient: 4.40e−04
Value: Community_acquired_pneumonia
GO.00004812.aminoacyl.tRNA.ligase.a
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.643e−01
Coefficient: −1.22e−03
Value: Control_Healthy
GO.0055085.transmembrane.transp
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.643e−01
Coefficient: −3.41e−04
Value: Community_acquired_pneumonia
GO.0016655.oxidoreductase.activity..acting.on.NAD.P.H..quinone
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.680e−01
Coefficient: 2.84e−04
Value: Control_Sick
GO.0015940.pantothenate.biosynthetic.
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.680e−01
Coefficient: 6.05e−04
Value: Community_acquired_pneumonia
GO.0004553.hydrolase.activity..hydrolyzing.O.glyc
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.699e−01
Coefficient: 1.07e−03
Value: Control_Sick
GO.0044267.cellular.protein.metabolic.p
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.699e−01
Coefficient: 1.69e−03
Value: Control_Sick
GO.0043412.macromolecule.modifica
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.699e−01
Coefficient: 1.83e−04
Value: Control_Sick
GO.0015985.energy.coupled.proton.transport..down.el
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.699e−01
Coefficient: 1.83e−04
Value: Control_Sick
GO.0015986.ATP.synthesis.coupled.proton
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.726e−01
Coefficient: −1.20e−03
Value: Control_Healthy
GO.0006811.ion.transpo
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.726e−01
Coefficient: −3.69e−04
Value: Community_acquired_pneumonia
GO.0006351.transcription..DNA.temp
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.726e−01
Coefficient: −7.03e−04
Value: Community_acquired_pneumonia
GO.0004519.endonuclease.activit
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.726e−01
Coefficient: −1.46e−04
Value: Control_Sick
GO.0015171.amino.acid.transmembrane.trans
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.733e−01
Coefficient: 2.49e−04
Value: Control_Sick
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
.0016620.oxidoreductase.activity..acting.on.the.aldehyde.or.oxo.grou

FDR: 1.733e−01
Coefficient: −1.21e−03
Value: Control_Healthy
GO.0008686.3.4.dihydroxy.2.butanone.4.phosphat
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.735e−01
Coefficient: −4.16e−03
Value: Control_Sick
GO.0051540.metal.cluster.binding
0.100
0.075
0.050
0.025
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.746e−01
Coefficient: −1.45e−04
Value: Control_Sick
GO.0006022.aminoglycan.metabolic.p
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.751e−01
Coefficient: −1.20e−03
Value: Control_Healthy
GO.0006771.riboflavin.metabolic.pro
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.751e−01
Coefficient: −1.20e−03
Value: Control_Healthy
GO.0009231.riboflavin.biosynthetic.pr
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.751e−01
Coefficient: −1.44e−04
Value: Control_Sick
GO.1903825.organic.acid.transmembrane
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.751e−01
Coefficient: −7.05e−04
Value: Community_acquired_pneumonia
GO.0090305.nucleic.acid.phosphodiester.bon
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.751e−01
Coefficient: 2.87e−04
Value: Control_Sick
GO.0015939.pantothenate.metabolic.p
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.751e−01
Coefficient: −1.20e−03
Value: Control_Healthy
GO.00042726.flavin.containing.compound.meta
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.751e−01
Coefficient: −1.20e−03
Value: Control_Healthy
GO.0042727.flavin.containing.compound.biosy
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.762e−01
Coefficient: 1.99e−03
Value: Control_Sick
GO.0007165.signal.transduction
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.762e−01
Coefficient: −6.72e−04
Value: Control_Healthy
GO.0006812.cation.transport
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.762e−01
Coefficient: −8.06e−05
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0016763.transferase.activity..transferring.p
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.770e−01
Coefficient: 2.39e−04
Value: Control_Healthy
GO.0033036.macromolecule.localiza
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.23e−05
Value: Community_acquired_pneumonia
GO.0019082.viral.protein.processi
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.24e−05
Value: Community_acquired_pneumonia
GO.1904092.regulation.of.autophagic.ce
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.23e−05
Value: Community_acquired_pneumonia
GO.0052040.modulation.by.symbiont.of.host.progr
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.24e−05
Value: Community_acquired_pneumonia
GO.00105506.regulation.of.autopha
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.24e−05
Value: Community_acquired_pneumonia
GO.0075071.modulation.by.symbiont.of.hos
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.24e−05
Value: Community_acquired_pneumonia
GO.0010508.positive.regulation.of.auto
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.24e−05
Value: Community_acquired_pneumonia
GO.0039519.modulation.by.virus.of.host.a
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.23e−05
Value: Community_acquired_pneumonia
GO.0075044.positive.regulation.by.symbiont.of.
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: −8.23e−05
Value: Community_acquired_pneumonia
GO.0039520.induction.by.virus.of.host.au
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.777e−01
Coefficient: 1.26e−04
Value: Community_acquired_pneumonia
0.0015
0.0010
0.0005
0.0000
GO.0016747.transferase.activity..transferring.acyl.groups.ot
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.781e−01
Coefficient: −1.90e−04
Value: Control_Healthy
GO.0006310.DNA.recombination
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.781e−01
Coefficient: −4.11e−03
Value: Control_Sick
GO.0051536.iron.sulfur.cluster.bind
0.100
0.075
0.050
0.025
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.782e−01
Coefficient: −1.84e−03
Value: Control_Sick
GO.0006259.DNA.metabolic.proce
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.783e−01
Coefficient: −8.20e−05
Value: Community_acquired_pneumonia
GO.0001172.transcription..RNA.temp
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.783e−01
Coefficient: −8.20e−05
Value: Community_acquired_pneumonia
GO.0003968.RNA.directed.5.3.RNA.polyme
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.797e−01
Coefficient: 6.02e−04
Value: Community_acquired_pneumonia
GO.0032559.adenyl.ribonucleotide.bi
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.801e−01
Coefficient: −8.17e−05
Value: Community_acquired_pneumonia
GO.0004197.cysteine.type.endopeptidas
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.813e−01
Coefficient: −1.42e−04
Value: Control_Sick
GO.1905039.carboxylic.acid.transmembran
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.843e−01
Coefficient: −5.02e−05
Value: Control_Healthy
GO.0009086.methionine.biosynthetic.p
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.843e−01
Coefficient: 5.99e−04
Value: Community_acquired_pneumonia
GO.0030554.adenyl.nucleotide.bind
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.868e−01
Coefficient: −6.60e−04
Value: Control_Healthy
GO.0034220.ion.transmembrane.tran
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.870e−01
Coefficient: −3.19e−04
Value: Control_Sick
GO.0006351.transcription..DNA.temp
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.871e−01
Coefficient: −1.51e−04
Value: Community_acquired_pneumonia
GO.0019079.viral.genome.replicati
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.872e−01
Coefficient: −7.59e−05
Value: Control_Healthy
GO.0004197.cysteine.type.endopeptidas
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.872e−01
Coefficient: −1.09e−04
Value: Control_Healthy
GO.0000041.transition.metal.ion.trans
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.876e−01
Coefficient: 5.88e−04
Value: Community_acquired_pneumonia
GO.0005524.ATP.binding
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.876e−01
Coefficient: 2.33e−04
Value: Control_Healthy
GO.0008104.protein.localization
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.895e−01
Coefficient: −7.56e−05
Value: Control_Healthy
GO.0019082.viral.protein.processi
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.896e−01
Coefficient: −1.40e−04
Value: Control_Sick
GO.0000270.peptidoglycan.metabolic.p
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.896e−01
Coefficient: 5.68e−04
Value: Control_Sick
0.010
0.005
0.000
GO.0044877.protein.containing.complex
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.896e−01
Coefficient: −4.56e−05
Value: Control_Sick
GO.0006730.one.carbon.metabolic.pr
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.900e−01
Coefficient: −3.69e−04
Value: Control_Healthy
GO.0030001.metal.ion.transport
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: −8.01e−04
Value: Control_Sick
0.006
0.004
0.002
0.000
GO.2000112.regulation.of.cellular.macromolecule.b
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: 4.17e−04
Value: Community_acquired_pneumonia
GO.0043038.amino.acid.activatio
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: −7.50e−05
Value: Control_Healthy
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0075044.positive.regulation.by.symbiont.of.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: −6.97e−05
Value: Community_acquired_pneumonia
GO.0090503.RNA.phosphodiester.bond.hydrolysis
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: −7.50e−05
Value: Control_Healthy
GO.0039520.induction.by.virus.of.host.au
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: −7.50e−05
Value: Control_Healthy
GO.0001172.transcription..RNA.temp
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: 3.07e−03
Value: Control_Sick
GO.0036094.small.molecule.bindin
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: −1.59e−04
Value: Community_acquired_pneumonia
GO.0008234.cysteine.type.peptidase.a
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.917e−01
Coefficient: −7.50e−05
Value: Control_Healthy
GO.0003968.RNA.directed.5.3.RNA.polyme
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.929e−01
Coefficient: −7.47e−05
Value: Control_Healthy
GO.1904092.regulation.of.autophagic.ce
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.929e−01
Coefficient: −1.98e−04
Value: Community_acquired_pneumonia
GO.0006310.DNA.recombination
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.929e−01
Coefficient: −7.47e−05
Value: Control_Healthy
GO.0075071.modulation.by.symbiont.of.hos
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.929e−01
Coefficient: −7.47e−05
Value: Control_Healthy
GO.0039519.modulation.by.virus.of.host.a
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.929e−01
Coefficient: 4.15e−04
Value: Community_acquired_pneumonia
GO.0043039.tRNA.aminoacylatio
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.929e−01
Coefficient: 7.88e−04
Value: Community_acquired_pneumonia
GO.0016798.hydrolase.activity..acting.on.gly
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.929e−01
Coefficient: 1.27e−04
Value: Community_acquired_pneumonia
1e−03
5e−04
0e+00
GO.0016742.hydroxymethyl...formyl..and.related.tr
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.931e−01
Coefficient: −7.47e−05
Value: Control_Healthy
GO.0052040.modulation.by.symbiont.of.host.progr
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.931e−01
Coefficient: −8.74e−05
Value: Control_Sick
GO.0072341.modified.amino.acid.bin
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.933e−01
Coefficient: −7.46e−05
Value: Control_Healthy
GO.0010508.positive.regulation.of.auto
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.935e−01
Coefficient: −3.16e−04
Value: Community_acquired_pneumonia
GO.0003960.NADPH.quinone.reductase
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.947e−01
Coefficient: −9.22e−04
Value: Community_acquired_pneumonia
GO.00444419.interspecies.interaction.betwee
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.947e−01
Coefficient: −1.38e−04
Value: Control_Sick
GO.0030203.glycosaminoglycan.metaboli
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.953e−01
Coefficient: −5.96e−04
Value: Community_acquired_pneumonia
GO.0006281.DNA.repai
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.960e−01
Coefficient: 5.37e−04
Value: Control_Sick
GO.0016043.cellular.component.organ
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.960e−01
Coefficient: −6.99e−05
Value: Community_acquired_pneumonia
GO.0039694.viral.RNA.genome.replic
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.962e−01
Coefficient: −2.00e−03
Value: Control_Sick
GO.0051539.4.iron..4.sulfur.cluster.bi
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.966e−01
Coefficient: −5.64e−04
Value: Community_acquired_pneumonia
GO.0019222.regulation.of.metabolic.pr
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.966e−01
Coefficient: −7.41e−05
Value: Control_Healthy
GO.00105506.regulation.of.autopha
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.977e−01
Coefficient: −9.20e−05
Value: Community_acquired_pneumonia
GO.0000096.sulfur.amino.acid.metabolic
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.978e−01
Coefficient: −8.49e−04
Value: Control_Healthy
GO.0044403.symbiotic.process
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.978e−01
Coefficient: −1.26e−04
Value: Community_acquired_pneumonia
GO.0009893.positive.regulation.of.metabol
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.978e−01
Coefficient: 2.82e−03
Value: Control_Sick
GO.1901265.nucleoside.phosphate.bi
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.978e−01
Coefficient: 2.82e−03
Value: Control_Sick
GO.0000166.nucleotide.binding
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.982e−01
Coefficient: 1.33e−04
Value: Control_Healthy
GO.0044248.cellular.catabolic.proc
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.982e−01
Coefficient: 2.27e−04
Value: Control_Healthy
GO.0045184.establishment.of.protein.loc
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 1.984e−01
Coefficient: −1.46e−04
Value: Control_Healthy
GO.0008234.cysteine.type.peptidase.a
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.005e−01
Coefficient: −4.25e−04
Value: Control_Healthy
GO.1901575.organic.substance.catabolic
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.005e−01
Coefficient: −1.36e−04
Value: Control_Healthy
GO.0019079.viral.genome.replicati
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.005e−01
Coefficient: −9.15e−04
Value: Control_Sick
GO.2001141.regulation.of.RNA.biosynthet
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.005e−01
Coefficient: −1.27e−04
Value: Community_acquired_pneumonia
GO.0008242.omega.peptidase.activ
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.007e−01
Coefficient: −8.52e−05
Value: Community_acquired_pneumonia
GO.0097747.RNA.polymerase.activ
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.007e−01
Coefficient: −8.52e−05
Value: Community_acquired_pneumonia
GO.0034062.5.3.RNA.polymerase.ac
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.027e−01
Coefficient: 4.07e−04
Value: Community_acquired_pneumonia
GO.0006418.tRNA.aminoacylation.for.protei
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.061e−01
Coefficient: −1.18e−04
Value: Control_Healthy
GO.0008242.omega.peptidase.activ
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.061e−01
Coefficient: 1.37e−04
Value: Control_Healthy
GO.0008270.zinc.ion.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.065e−01
Coefficient: −1.79e−04
Value: Control_Sick
GO.0065009.regulation.of.molecular.fu
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.071e−01
Coefficient: −6.41e−05
Value: Control_Healthy
GO.0039694.viral.RNA.genome.replic
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.079e−01
Coefficient: −5.16e−04
Value: Community_acquired_pneumonia
GO.0031323.regulation.of.cellular.metabol
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.091e−01
Coefficient: −4.00e−03
Value: Control_Healthy
GO.0051540.metal.cluster.binding
0.100
0.075
0.050
0.025
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.115e−01
Coefficient: −8.92e−04
Value: Community_acquired_pneumonia
GO.0044403.symbiotic.process
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.117e−01
Coefficient: −2.66e−04
Value: Control_Healthy
GO.0051707.response.to.other.organ
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.118e−01
Coefficient: −4.96e−04
Value: Community_acquired_pneumonia
GO.0060255.regulation.of.macromolecule.meta
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.129e−01
Coefficient: −8.14e−04
Value: Control_Healthy
GO.0016032.viral.process
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.129e−01
Coefficient: 1.94e−04
Value: Community_acquired_pneumonia
0.002
0.001
0.000
GO.0030420.establishment.of.competence.for.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.129e−01
Coefficient: −1.25e−04
Value: Community_acquired_pneumonia
GO.0031331.positive.regulation.of.cellular.cata
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.130e−01
Coefficient: −1.07e−04
Value: Community_acquired_pneumonia
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
6796.exonuclease.activity..active.with.either.ribo..or.deoxyribonucleic

FDR: 2.145e−01
Coefficient: −8.28e−04
Value: Control_Healthy
GO.0044419.interspecies.interaction.between
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.148e−01
Coefficient: −1.22e−04
Value: Community_acquired_pneumonia
GO.0031325.positive.regulation.of.cellular.meta
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.151e−01
Coefficient: −1.06e−03
Value: Control_Sick
GO.0006811.ion.transpo
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.151e−01
Coefficient: −1.24e−04
Value: Community_acquired_pneumonia
GO.0009896.positive.regulation.of.catabol
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.151e−01
Coefficient: 2.47e−04
Value: Community_acquired_pneumonia
GO.0007215.glutamate.receptor.signaling
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.151e−01
Coefficient: −3.70e−04
Value: Control_Healthy
0.006
0.004
0.002
0.000
GO.2000112.regulation.of.cellular.macromolecule.b
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.151e−01
Coefficient: 5.80e−04
Value: Control_Healthy
GO.0030554.adenyl.nucleotide.bind
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.155e−01
Coefficient: 2.47e−04
Value: Community_acquired_pneumonia
GO.0008066.glutamate.receptor.act
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.168e−01
Coefficient: −3.95e−03
Value: Control_Healthy
GO.0051536.iron.sulfur.cluster.bind
0.100
0.075
0.050
0.025
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.188e−01
Coefficient: −1.55e−04
Value: Community_acquired_pneumonia
0.003
0.002
0.001
0.000
GO.0010605.negative.regulation.of.macromolecule
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.188e−01
Coefficient: −5.31e−05
Value: Control_Healthy
GO.0000097.sulfur.amino.acid.biosynthetic
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −6.24e−04
Value: Community_acquired_pneumonia
GO.0006950.response.to.stress
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −1.55e−04
Value: Community_acquired_pneumonia
GO.0044092.negative.regulation.of.molecul
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: 2.20e−04
Value: Control_Sick
GO.0023051.regulation.of.signalin
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −1.67e−03
Value: Control_Healthy
GO.0006810.transport
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −8.60e−04
Value: Community_acquired_pneumonia
GO.0016032.viral.process
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: 2.21e−04
Value: Control_Sick
0.0012
0.0008
0.0004
0.0000
GO.0010646.regulation.of.cell.commun
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −1.54e−04
Value: Community_acquired_pneumonia
GO.0009892.negative.regulation.of.metabo
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −2.81e−04
Value: Community_acquired_pneumonia
GO.0051707.response.to.other.organ
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: 2.53e−04
Value: Control_Sick
1e−03
5e−04
0e+00
GO.0006575.cellular.modified.amino.acid.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −7.89e−05
Value: Community_acquired_pneumonia
GO.0010941.regulation.of.cell.dea
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: 7.60e−05
Value: Control_Healthy
GO.0140352.export.from.cell
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −7.69e−05
Value: Community_acquired_pneumonia
GO.00043067.regulation.of.programmed.c
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −1.23e−04
Value: Community_acquired_pneumonia
GO.0031329.regulation.of.cellular.catabolic
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −7.09e−04
Value: Control_Sick
GO.1903506.regulation.of.nucleic.acid.template
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −7.12e−04
Value: Control_Sick
GO.0006355.regulation.of.transcription..DNA
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: 2.45e−04
Value: Community_acquired_pneumonia
GO.0004930.G.protein.coupled.receptor
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: 1.44e−03
Value: Control_Sick
GO.0008168.methyltransferase.acti
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: 3.25e−04
Value: Control_Sick
GO.0052689.carboxylic.ester.hydrolase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −1.96e−03
Value: Control_Healthy
GO.0051539.4.iron..4.sulfur.cluster.bi
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −7.49e−05
Value: Control_Healthy
GO.0004180.carboxypeptidase.acti
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.194e−01
Coefficient: −8.92e−05
Value: Community_acquired_pneumonia
GO.0003678.DNA.helicase.activit
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.197e−01
Coefficient: 5.70e−04
Value: Control_Healthy
GO.0032559.adenyl.ribonucleotide.bi
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.203e−01
Coefficient: 3.66e−04
Value: Community_acquired_pneumonia
GO.0007186.G.protein.coupled.receptor.signa
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.206e−01
Coefficient: −1.02e−03
Value: Control_Sick
GO.0009889.regulation.of.biosynthetic.p
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.206e−01
Coefficient: −1.39e−04
Value: Control_Healthy
GO.0008514.organic.anion.transmembrane.tran
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.207e−01
Coefficient: −2.59e−04
Value: Control_Healthy
GO.0009607.response.to.biotic.stimu
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.226e−01
Coefficient: −6.77e−04
Value: Control_Healthy
0.010
0.005
0.000
GO.0055086.nucleobase.containing.small.molecule
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.227e−01
Coefficient: −1.03e−03
Value: Control_Sick
GO.0031326.regulation.of.cellular.biosynthe
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.231e−01
Coefficient: −2.78e−04
Value: Community_acquired_pneumonia
GO.00432O7.response.to.external.biotic.
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.232e−01
Coefficient: −2.58e−04
Value: Control_Healthy
GO.00043207.response.to.external.biotic.
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.232e−01
Coefficient: −1.37e−02
Value: Community_acquired_pneumonia
GO.0016787.hydrolase.activity
0.3
0.2
0.1
0.0
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.232e−01
Coefficient: 5.61e−04
Value: Control_Healthy
GO.0005524.ATP.binding
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.251e−01
Coefficient: −1.03e−03
Value: Control_Sick
GO.0010556.regulation.of.macromolecule.biosy
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.251e−01
Coefficient: 2.42e−04
Value: Community_acquired_pneumonia
GO.0007216.G.protein.coupled.glutamate.receptor
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.251e−01
Coefficient: −6.01e−05
Value: Control_Healthy
GO.0090503.RNA.phosphodiester.bond.hydrolysis
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.270e−01
Coefficient: −1.21e−04
Value: Community_acquired_pneumonia
GO.0009894.regulation.of.catabolic.pr
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.296e−01
Coefficient: −6.52e−04
Value: Community_acquired_pneumonia
GO.0034220.ion.transmembrane.tran
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.298e−01
Coefficient: −1.97e−04
Value: Control_Sick
GO.0006260.DNA.replication
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.304e−01
Coefficient: −4.69e−03
Value: Control_Sick
GO.0044283.small.molecule.biosynthetic
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.318e−01
Coefficient: −4.88e−04
Value: Control_Healthy
GO.0051701.interaction.with.hos
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.318e−01
Coefficient: −1.95e−03
Value: Control_Healthy
GO.0071941.nitrogen.cycle.metabolic.p
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.318e−01
Coefficient: −4.27e−04
Value: Community_acquired_pneumonia
GO.0044068.modulation.by.symbiont.of.host.c
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.318e−01
Coefficient: −4.27e−04
Value: Community_acquired_pneumonia
GO.0019054.modulation.by.virus.of.host.cell
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.338e−01
Coefficient: −1.94e−03
Value: Control_Healthy
GO.00009399.nitrogen.fixation
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.338e−01
Coefficient: −6.38e−05
Value: Control_Healthy
GO.0099046.clearance.of.foreign.intracellular.
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.338e−01
Coefficient: −6.38e−05
Value: Control_Healthy
GO.0044355.clearance.of.foreign.intracell
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.343e−01
Coefficient: −5.22e−04
Value: Community_acquired_pneumonia
GO.0051701.interaction.with.hos
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.343e−01
Coefficient: −5.69e−04
Value: Community_acquired_pneumonia
GO.0006974.cellular.response.to.DNA.dama
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.343e−01
Coefficient: −1.12e−04
Value: Control_Healthy
GO.0031331.positive.regulation.of.cellular.cata
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.343e−01
Coefficient: −1.03e−04
Value: Community_acquired_pneumonia
GO.0016896.exoribonuclease.activity..producing.5.p
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.347e−01
Coefficient: −1.11e−04
Value: Control_Healthy
GO.0009896.positive.regulation.of.catabol
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.355e−01
Coefficient: −3.15e−03
Value: Control_Sick
GO.0051234.establishment.of.localiz
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −3.15e−03
Value: Control_Sick
GO.0051179.localization
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −2.70e−04
Value: Community_acquired_pneumonia
GO.0009607.response.to.biotic.stimu
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −5.19e−04
Value: Community_acquired_pneumonia
GO.0035821.modulation.of.process.of.othe
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −5.00e−04
Value: Community_acquired_pneumonia
GO.0046034.ATP.metabolic.proces
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −4.07e−04
Value: Control_Healthy
GO.0009056.catabolic.process
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −5.19e−04
Value: Community_acquired_pneumonia
0.0100
0.0075
0.0050
0.0025
0.0000
GO.0051817.modulation.of.process.of.other.organism.involv
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −6.67e−04
Value: Control_Healthy
GO.0019637.organophosphate.metabolic
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.10e−04
Value: Control_Healthy
GO.0009894.regulation.of.catabolic.pr
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −5.19e−04
Value: Community_acquired_pneumonia
GO.0044003.modulation.by.symbiont.of.ho
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −2.07e−04
Value: Community_acquired_pneumonia
GO.0031347.regulation.of.defense.res
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −3.92e−04
Value: Control_Healthy
0.0100
0.0075
0.0050
0.0025
0.0000
GO.0044068.modulation.by.symbiont.of.host.c
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.11e−04
Value: Control_Healthy
GO.0031329.regulation.of.cellular.catabolic
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −5.17e−04
Value: Community_acquired_pneumonia
GO.0019048.modulation.by.virus.of.host.
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −3.92e−04
Value: Control_Healthy
GO.0019054.modulation.by.virus.of.host.cell
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −2.07e−04
Value: Community_acquired_pneumonia
GO.0052031.modulation.by.symbiont.of.host.de
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.26e−04
Value: Control_Sick
GO.0003333.amino.acid.transmembrane.
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.31e−04
Value: Control_Sick
GO.0033218.amide.binding
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.34e−04
Value: Control_Healthy
GO.0005342.organic.acid.transmembrane.tran
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.70e−04
Value: Community_acquired_pneumonia
GO.0022853.active.ion.transmembrane.transp
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.05e−04
Value: Control_Sick
GO.0004565.beta.galactosidase.act
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.362e−01
Coefficient: −1.03e−04
Value: Community_acquired_pneumonia
GO.0004532.exoribonuclease.activ
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −2.05e−04
Value: Community_acquired_pneumonia
GO.0080134.regulation.of.response.to.
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: 7.22e−04
Value: Control_Sick
GO.0043604.amide.biosynthetic.proc
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −5.04e−05
Value: Community_acquired_pneumonia
GO.0045935.positive.regulation.of.nucleobase.containing.co
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −5.02e−05
Value: Community_acquired_pneumonia
GO.0051254.positive.regulation.of.RNA.meta
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −6.66e−05
Value: Community_acquired_pneumonia
GO.0009307.DNA.restriction.modification
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −2.06e−04
Value: Community_acquired_pneumonia
GO.0044414.suppression.of.host.defenses.b
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −9.47e−05
Value: Control_Sick
GO.0000097.sulfur.amino.acid.biosynthetic
9e−04
6e−04
3e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −2.06e−04
Value: Community_acquired_pneumonia
GO.0052167.modulation.by.symbiont.of.host.innate
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −2.06e−04
Value: Community_acquired_pneumonia
GO.0052562.suppression.by.symbiont.of.host.im
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −2.06e−04
Value: Community_acquired_pneumonia
GO.0075528.modulation.by.virus.of.host.immu
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −2.06e−04
Value: Community_acquired_pneumonia
GO.0052170.suppression.by.symbiont.of.host.innate
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −2.06e−04
Value: Community_acquired_pneumonia
GO.0039503.suppression.by.virus.of.host.innate.i
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: 3.04e−04
Value: Control_Sick
GO.0008171.O.methyltransferase.ac
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.365e−01
Coefficient: −1.32e−04
Value: Control_Healthy
GO.0046943.carboxylic.acid.transmembrane.tra
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.60e−03
Value: Control_Healthy
GO.0051179.localization
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.61e−03
Value: Control_Healthy
GO.0051234.establishment.of.localiz
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −4.77e−04
Value: Control_Healthy
GO.0035821.modulation.of.process.of.othe
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −3.14e−03
Value: Control_Sick
GO.0006810.transport
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −5.61e−04
Value: Community_acquired_pneumonia
GO.0033554.cellular.response.to.str
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −4.77e−04
Value: Control_Healthy
0.0100
0.0075
0.0050
0.0025
0.0000
GO.0051817.modulation.of.process.of.other.organism.involv
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.52e−04
Value: Community_acquired_pneumonia
0.006
0.004
0.002
0.000
GO.0050690.regulation.of.defense.response.to
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: 7.36e−04
Value: Control_Sick
GO.0043603.cellular.amide.metabolic.p
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.03e−04
Value: Community_acquired_pneumonia
GO.0048585.negative.regulation.of.response
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −3.63e−04
Value: Control_Sick
GO.0016052.carbohydrate.catabolic.pr
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −4.78e−04
Value: Control_Healthy
0.0100
0.0075
0.0050
0.0025
0.0000
GO.0044003.modulation.by.symbiont.of.ho
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.52e−04
Value: Community_acquired_pneumonia
GO.0052173.response.to.defenses.of.other
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.52e−04
Value: Community_acquired_pneumonia
GO.0075136.response.to.host
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −4.79e−04
Value: Control_Healthy
GO.0019048.modulation.by.virus.of.host.
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.52e−04
Value: Community_acquired_pneumonia
GO.0052200.response.to.host.defen
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.04e−04
Value: Community_acquired_pneumonia
GO.0031348.negative.regulation.of.defense
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.51e−04
Value: Community_acquired_pneumonia
GO.0030682.mitigation.of.host.defenses.by
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.05e−04
Value: Community_acquired_pneumonia
GO.0052572.response.to.host.immune.re
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.00444414.suppression.of.host.defenses.b
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.05e−04
Value: Community_acquired_pneumonia
GO.0052553.modulation.by.symbiont.of.host.im
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0052553.modulation.by.symbiont.of.host.im
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0052167.modulation.by.symbiont.of.host.innate
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −7.50e−05
Value: Control_Healthy
GO.0006555.methionine.metabolic.pro
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.52e−04
Value: Community_acquired_pneumonia
GO.0030683.mitigation.of.host.immune.respo
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0052562.suppression.by.symbiont.of.host.im
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0075528.modulation.by.virus.of.host.immu
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0052170.suppression.by.symbiont.of.host.innate
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0039503.suppression.by.virus.of.host.innate.i
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −2.47e−02
Value: Control_Sick
GO.0003824.catalytic.activity
0.3
0.2
0.1
0.0
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −4.00e−03
Value: Community_acquired_pneumonia
GO.0051540.metal.cluster.binding
0.100
0.075
0.050
0.025
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −9.37e−05
Value: Control_Healthy
GO.0004532.exoribonuclease.activ
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.30e−04
Value: Control_Healthy
GO.0015171.amino.acid.transmembrane.trans
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −9.38e−05
Value: Control_Healthy
GO.0016896.exoribonuclease.activity..producing.5.p
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.366e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0052572.response.to.host.immune.re
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.380e−01
Coefficient: −7.32e−04
Value: Control_Sick
0.020
0.015
0.010
0.005
0.000
GO.0016614.oxidoreductase.activity..acting.on.CH.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.382e−01
Coefficient: −2.50e−04
Value: Community_acquired_pneumonia
GO.0019049.mitigation.of.host.defenses.
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.386e−01
Coefficient: −2.93e−04
Value: Community_acquired_pneumonia
GO.0048519.negative.regulation.of.biologic
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.386e−01
Coefficient: −1.89e−04
Value: Control_Healthy
GO.0052031.modulation.by.symbiont.of.host.de
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.386e−01
Coefficient: −3.87e−05
Value: Control_Healthy
GO.0046653.tetrahydrofolate.metabolic.
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.392e−01
Coefficient: 7.10e−05
Value: Control_Healthy
GO.0032940.secretion.by.cell
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.392e−01
Coefficient: 4.00e−04
Value: Control_Sick
GO.1901607.alpha.amino.acid.biosynthetic
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.405e−01
Coefficient: 6.49e−05
Value: Control_Healthy
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0016667.oxidoreductase.activity..acting.on.a.su
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: 2.23e−04
Value: Control_Sick
GO.0040011.locomotion
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: 1.71e−03
Value: Control_Healthy
0.020
0.015
0.010
0.005
0.000
GO.0006725.cellular.aromatic.compound.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: −2.32e−04
Value: Control_Healthy
0.006
0.004
0.002
0.000
GO.0050690.regulation.of.defense.response.to
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: −2.32e−04
Value: Control_Healthy
GO.0019049.mitigation.of.host.defenses.
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: −5.90e−05
Value: Control_Healthy
GO.0009082.branched.chain.amino.acid.biosyn
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: −2.32e−04
Value: Control_Healthy
GO.0030683.mitigation.of.host.immune.respo
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: −2.01e−03
Value: Community_acquired_pneumonia
GO.0009399.nitrogen.fixation
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: −6.57e−05
Value: Community_acquired_pneumonia
GO.0099046.clearance.of.foreign.intracellular.
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.414e−01
Coefficient: −6.57e−05
Value: Community_acquired_pneumonia
GO.0044355.clearance.of.foreign.intracell
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.425e−01
Coefficient: −2.31e−04
Value: Control_Healthy
GO.0030682.mitigation.of.host.defenses.by
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.425e−01
Coefficient: −3.95e−03
Value: Community_acquired_pneumonia
GO.0051536.iron.sulfur.cluster.bind
0.100
0.075
0.050
0.025
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.450e−01
Coefficient: −2.30e−04
Value: Control_Healthy
GO.0052173.response.to.defenses.of.other
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.450e−01
Coefficient: −2.30e−04
Value: Control_Healthy
GO.0075136.response.to.host
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.450e−01
Coefficient: −2.30e−04
Value: Control_Healthy
GO.0052200.response.to.host.defen
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.450e−01
Coefficient: −1.86e−04
Value: Control_Healthy
GO.0031348.negative.regulation.of.defense
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.450e−01
Coefficient: −5.72e−03
Value: Control_Sick
GO.0003676.nucleic.acid.binding
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.451e−01
Coefficient: 3.15e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0006450.regulation.of.translational.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.451e−01
Coefficient: −5.74e−04
Value: Control_Healthy
GO.1901135.carbohydrate.derivative.metabo
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.451e−01
Coefficient: −1.86e−04
Value: Control_Healthy
GO.0031347.regulation.of.defense.res
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.451e−01
Coefficient: −2.18e−04
Value: Control_Sick
GO.0008238.exopeptidase.activit
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.462e−01
Coefficient: −1.96e−03
Value: Community_acquired_pneumonia
GO.0051539.4.iron..4.sulfur.cluster.bi
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.462e−01
Coefficient: −5.50e−04
Value: Control_Sick
GO.0006812.cation.transport
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.462e−01
Coefficient: −3.72e−05
Value: Control_Healthy
GO.0035999.tetrahydrofolate.interconv
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.464e−01
Coefficient: −1.99e−03
Value: Community_acquired_pneumonia
GO.0071941.nitrogen.cycle.metabolic.p
0.05
0.04
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.466e−01
Coefficient: −6.14e−04
Value: Community_acquired_pneumonia
GO.0006812.cation.transport
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.473e−01
Coefficient: −1.03e−04
Value: Control_Healthy
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
GO.0031325.positive.regulation.of.cellular.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.473e−01
Coefficient: −1.48e−04
Value: Community_acquired_pneumonia
GO.00045527.exonuclease.activity
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.497e−01
Coefficient: −4.07e−04
Value: Community_acquired_pneumonia
GO.1901575.organic.substance.catabolic
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.497e−01
Coefficient: −1.84e−04
Value: Control_Healthy
GO.0080134.regulation.of.response.to.
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.497e−01
Coefficient: 6.82e−05
Value: Control_Healthy
1e−03
5e−04
0e+00
GO.0009067.aspartate.family.amino.acid.biosyn
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.497e−01
Coefficient: 1.01e−04
Value: Community_acquired_pneumonia
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
.0016620.oxidoreductase.activity..acting.on.the.aldehyde.or.oxo.grou

FDR: 2.497e−01
Coefficient: 9.16e−05
Value: Control_Healthy
GO.0004252.serine.type.endopeptidase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.516e−01
Coefficient: −1.27e−04
Value: Control_Sick
GO.0098656.anion.transmembrane.tra
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.522e−01
Coefficient: −1.18e−04
Value: Control_Sick
GO.0044036.cell.wall.macromolecule.metab
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.532e−01
Coefficient: −1.31e−04
Value: Control_Healthy
GO.0098656.anion.transmembrane.tra
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.546e−01
Coefficient: 6.91e−05
Value: Control_Healthy
GO.0046903.secretion
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.547e−01
Coefficient: −4.26e−04
Value: Community_acquired_pneumonia
GO.0051171.regulation.of.nitrogen.compound.m
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.547e−01
Coefficient: −2.85e−04
Value: Control_Sick
0.002
0.001
0.000
GO.0016810.hydrolase.activity..acting.on.carbon.nitrogen
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.547e−01
Coefficient: −9.26e−05
Value: Control_Healthy
GO.0008483.transaminase.activit
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.574e−01
Coefficient: −1.82e−04
Value: Control_Healthy
GO.0048585.negative.regulation.of.response
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.574e−01
Coefficient: −8.59e−05
Value: Control_Healthy
GO.0052312.modulation.of.transcription.in.other.organism.inv
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.574e−01
Coefficient: −8.59e−05
Value: Control_Healthy
GO.0052026.modulation.by.symbiont.of.host.
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.574e−01
Coefficient: −8.59e−05
Value: Control_Healthy
GO.0019056.modulation.by.virus.of.host.tra
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.574e−01
Coefficient: −8.59e−05
Value: Control_Healthy
GO.0039653.suppression.by.virus.of.host.tr
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.575e−01
Coefficient: 1.71e−04
Value: Control_Sick
GO.00164777.cell.migratio
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.585e−01
Coefficient: −1.60e−03
Value: Community_acquired_pneumonia
GO.0006725.cellular.aromatic.compound.meta
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.585e−01
Coefficient: −1.26e−04
Value: Control_Sick
9e−04
6e−04
3e−04
0e+00
GO.0072528.pyrimidine.containing.compound.bio
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.585e−01
Coefficient: −1.71e−04
Value: Control_Healthy
GO.0039656.modulation.by.virus.of.host.gen
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.585e−01
Coefficient: −1.28e−04
Value: Control_Healthy
GO.0039657.suppression.by.virus.of.host.gen
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.585e−01
Coefficient: −5.29e−05
Value: Community_acquired_pneumonia
GO.0042802.identical.protein.bindi
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.585e−01
Coefficient: −9.28e−05
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0016769.transferase.activity..transferring.nitr
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.585e−01
Coefficient: −3.19e−04
Value: Control_Healthy
GO.0006355.regulation.of.transcription..DNA
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.588e−01
Coefficient: −9.72e−04
Value: Control_Healthy
GO.0016830.carbon.carbon.lyase.ac
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.591e−01
Coefficient: 1.39e−04
Value: Control_Sick
1e−03
5e−04
0e+00
GO.0009067.aspartate.family.amino.acid.biosyn
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.591e−01
Coefficient: −2.12e−04
Value: Community_acquired_pneumonia
GO.0003735.structural.constituent.of.rib
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 6.83e−05
Value: Control_Healthy
1e−03
5e−04
0e+00
GO.0071692.protein.localization.to.extracel
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 1.34e−04
Value: Control_Sick
GO.0048523.negative.regulation.of.cellula
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: −4.20e−04
Value: Community_acquired_pneumonia
GO.0080090.regulation.of.primary.metabol
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: −1.01e−04
Value: Control_Healthy
GO.0009893.positive.regulation.of.metabol
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: −1.27e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0044362.negative.regulation.of.molecular.functio
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 8.36e−04
Value: Control_Healthy
GO.0016310.phosphorylation
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 6.83e−05
Value: Control_Healthy
1e−03
5e−04
0e+00
GO.0035592.establishment.of.protein.localization.to
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: −1.27e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0052204.negative.regulation.of.molecular.function.in.other.organ
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 5.31e−05
Value: Community_acquired_pneumonia
GO.0009966.regulation.of.signal.transc
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: −1.27e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0052056.negative.regulation.by.symbiont.of.hos
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 6.83e−05
Value: Control_Healthy
GO.00002790.peptide.secretion
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: −1.27e−04
Value: Control_Healthy
GO.0039507.suppression.by.virus.of.host.mole
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 6.83e−05
Value: Control_Healthy
GO.0009306.protein.secretion
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: −3.18e−04
Value: Control_Healthy
GO.1903506.regulation.of.nucleic.acid.template
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 1.58e−04
Value: Control_Sick
GO.0097747.RNA.polymerase.activ
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.592e−01
Coefficient: 1.58e−04
Value: Control_Sick
GO.0034062.5.3.RNA.polymerase.ac
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.598e−01
Coefficient: −1.27e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0044359.modulation.of.molecular.function.in
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.598e−01
Coefficient: −1.27e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0052205.modulation.of.molecular.function.in.other.organism.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.598e−01
Coefficient: −1.27e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0052055.modulation.by.symbiont.of.host.mo
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.598e−01
Coefficient: −1.27e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0039506.modulation.by.virus.of.host.mole
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.617e−01
Coefficient: −4.86e−05
Value: Community_acquired_pneumonia
GO.0010604.positive.regulation.of.macromolecule.
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.617e−01
Coefficient: 1.05e−03
Value: Control_Sick
GO.0006399.tRNA.metabolic.proce
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.617e−01
Coefficient: 1.89e−04
Value: Control_Sick
GO.0005102.signaling.receptor.binc
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.617e−01
Coefficient: 7.40e−05
Value: Community_acquired_pneumonia
GO.0008863.formate.dehydrogenase..NAD
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.625e−01
Coefficient: 8.26e−05
Value: Community_acquired_pneumonia
GO.1901565.organonitrogen.compound.catab
0.0012
0.0009
0.0006
0.0003
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.625e−01
Coefficient: 1.15e−04
Value: Community_acquired_pneumonia
GO.0015939.pantothenate.metabolic.p
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.625e−01
Coefficient: 5.33e−05
Value: Community_acquired_pneumonia
1e−03
5e−04
0e+00
GO.0016898.oxidoreductase.activity..acting.on.the.CH.OH.group.o
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
GO.0044359.modulation.of.molecular.function.in
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
0.003
0.002
0.001
0.000
GO.0052205.modulation.of.molecular.function.in.other.organism.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
GO.0044362.negative.regulation.of.molecular.functio
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
0.003
0.002
0.001
0.000
GO.0052055.modulation.by.symbiont.of.host.mo
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
GO.0052204.negative.regulation.of.molecular.function.in.other.organ

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
GO.0052056.negative.regulation.by.symbiont.of.hos
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
GO.0039506.modulation.by.virus.of.host.mole
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.81e−04
Value: Community_acquired_pneumonia
GO.0039656.modulation.by.virus.of.host.gen
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.35e−04
Value: Community_acquired_pneumonia
GO.0039657.suppression.by.virus.of.host.gen
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: 8.61e−04
Value: Control_Sick
GO.0009451.RNA.modification
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −1.36e−04
Value: Community_acquired_pneumonia
GO.0039507.suppression.by.virus.of.host.mole
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: 1.13e−04
Value: Community_acquired_pneumonia
GO.0015940.pantothenate.biosynthetic.
0.0012
0.0008
0.0004
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −9.01e−05
Value: Community_acquired_pneumonia
GO.0052312.modulation.of.transcription.in.other.organism.inv
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −4.95e−04
Value: Control_Healthy
GO.0009259.ribonucleotide.metabolic.p
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −9.01e−05
Value: Community_acquired_pneumonia
GO.0052026.modulation.by.symbiont.of.host.
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −9.01e−05
Value: Community_acquired_pneumonia
GO.0019056.modulation.by.virus.of.host.tra
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: −9.01e−05
Value: Community_acquired_pneumonia
GO.0039653.suppression.by.virus.of.host.tr
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.631e−01
Coefficient: 2.79e−04
Value: Control_Sick
GO.0052692.raffinose.alpha.galactosidas
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.646e−01
Coefficient: −1.35e−04
Value: Community_acquired_pneumonia
GO.0010629.negative.regulation.of.gene.e
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.648e−01
Coefficient: 2.99e−04
Value: Community_acquired_pneumonia
GO.0043604.amide.biosynthetic.proc
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.648e−01
Coefficient: −4.94e−04
Value: Control_Healthy
GO.0019693.ribose.phosphate.metabolic
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.654e−01
Coefficient: −1.44e−04
Value: Community_acquired_pneumonia
GO.0042625.ATPase.coupled.ion.transmembrane.
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.667e−01
Coefficient: −7.04e−05
Value: Control_Sick
GO.0000096.sulfur.amino.acid.metabolic
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.687e−01
Coefficient: −1.00e−04
Value: Control_Healthy
GO.0008238.exopeptidase.activit
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.687e−01
Coefficient: 1.29e−04
Value: Control_Healthy
0.003
0.002
0.001
0.000
GO.0016758.transferase.activity..transferring.h
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.716e−01
Coefficient: 1.24e−03
Value: Control_Sick
GO.0097367.carbohydrate.derivative.b
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.718e−01
Coefficient: −5.59e−05
Value: Control_Healthy
0.00100
0.00075
0.00050
0.00025
0.00000
GO.0009081.branched.chain.amino.acid.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.720e−01
Coefficient: 9.43e−05
Value: Control_Healthy
GO.0016866.intramolecular.transferase
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.720e−01
Coefficient: 2.44e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0016903.oxidoreductase.activity..acting.on.the.aldehy
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.721e−01
Coefficient: −1.01e−03
Value: Community_acquired_pneumonia
GO.0016788.hydrolase.activity..acting.on.e
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.721e−01
Coefficient: −1.49e−04
Value: Control_Healthy
0.004
0.003
0.002
0.001
0.000
GO.0046873.metal.ion.transmembrane.transp
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.744e−01
Coefficient: −1.77e−03
Value: Control_Sick
GO.0042726.flavin.containing.compound.meta
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.744e−01
Coefficient: −1.77e−03
Value: Control_Sick
GO.0042727.flavin.containing.compound.biosy
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.744e−01
Coefficient: 2.94e−04
Value: Control_Sick
GO.0002161.aminoacyl.tRNA.editing.a
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.750e−01
Coefficient: −1.77e−03
Value: Control_Sick
GO.0006771.riboflavin.metabolic.pro
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.750e−01
Coefficient: −1.77e−03
Value: Control_Sick
GO.0009231.riboflavin.biosynthetic.pr
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.750e−01
Coefficient: 4.63e−04
Value: Community_acquired_pneumonia
0.010
0.005
0.000
GO.0016817.hydrolase.activity..acting.on.acid
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.750e−01
Coefficient: −1.57e−04
Value: Control_Sick
GO.0008483.transaminase.activit
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.754e−01
Coefficient: −1.42e−03
Value: Control_Sick
GO.0022857.transmembrane.transporte
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.755e−01
Coefficient: 2.92e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0106074.aminoacyl.tRNA.metabolism.involved.in
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.765e−01
Coefficient: −1.52e−03
Value: Community_acquired_pneumonia
GO.1901566.organonitrogen.compound.biosyn
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.765e−01
Coefficient: −1.76e−03
Value: Control_Sick
GO.0008686.3.4.dihydroxy.2.butanone.4.phosphat
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.766e−01
Coefficient: −7.03e−05
Value: Control_Sick
GO.0015675.nickel.cation.transpo
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.768e−01
Coefficient: −1.59e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0016769.transferase.activity..transferring.nitr
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.778e−01
Coefficient: −9.78e−05
Value: Control_Sick
GO.0009082.branched.chain.amino.acid.biosyn
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.784e−01
Coefficient: 1.12e−04
Value: Community_acquired_pneumonia
GO.0006575.cellular.modified.amino.acid.meta
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.784e−01
Coefficient: −5.89e−04
Value: Control_Healthy
GO.0006753.nucleoside.phosphate.metabo
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.784e−01
Coefficient: −2.45e−04
Value: Control_Healthy
0.006
0.004
0.002
0.000
GO.0016655.oxidoreductase.activity..acting.on.NAD.P.H..quinone
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.796e−01
Coefficient: 2.67e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0016436.rRNA..uridine..methyltransfera
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.802e−01
Coefficient: 2.68e−04
Value: Control_Sick
GO.0062105.RNA.2.O.methyltransferase
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −6.21e−04
Value: Community_acquired_pneumonia
GO.0050896.response.to.stimulus
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −9.34e−05
Value: Control_Sick
9e−04
6e−04
3e−04
0e+00
GO.0006760.folic.acid.containing.compound.me
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −5.83e−04
Value: Control_Healthy
GO.0009117.nucleotide.metabolic.pro
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −3.34e−04
Value: Control_Sick
GO.0009132.nucleoside.diphosphate.metab
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −4.80e−04
Value: Control_Healthy
GO.0009150.purine.ribonucleotide.metabo
0.012
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −1.15e−04
Value: Control_Healthy
GO.0003333.amino.acid.transmembrane.
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 2.65e−04
Value: Control_Sick
GO.0000470.maturation.of.LSU.rRN
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 2.64e−04
Value: Control_Sick
GO.0000460.maturation.of.5.8S.rR
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 2.64e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0000466.maturation.of.5.8S.rRNA.from.tricistronic.rRNA.transcrip

FDR: 2.818e−01
Coefficient: 2.81e−04
Value: Control_Sick
GO.0006428.isoleucyl.tRNA.aminoacy
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 2.64e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
O.0000463.maturation.of.LSU.rRNA.from.tricistronic.rRNA.transcrip

FDR: 2.818e−01
Coefficient: 2.65e−04
Value: Control_Sick
GO.0000451.rRNA.2.O.methylatio
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 2.66e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0000453.enzyme.directed.rRNA.2.O.m
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −2.06e−04
Value: Community_acquired_pneumonia
GO.0005198.structural.molecule.act
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −1.15e−02
Value: Community_acquired_pneumonia
GO.0003824.catalytic.activity
0.3
0.2
0.1
0.0
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −1.21e−04
Value: Community_acquired_pneumonia
GO.00030246.carbohydrate.binding
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −2.42e−03
Value: Control_Sick
GO.0016853.isomerase.activity
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: −1.05e−04
Value: Community_acquired_pneumonia
GO.0000150.recombinase.activity
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 4.48e−04
Value: Community_acquired_pneumonia
0.010
0.005
0.000
GO.0016818.hydrolase.activity..acting.on.acid.anhydrides..in.ph
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 2.80e−04
Value: Control_Sick
GO.0004822.isoleucine.tRNA.ligase.a
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.818e−01
Coefficient: 2.66e−04
Value: Control_Sick
0.0015
0.0010
0.0005
0.0000
GO.0008650.rRNA..uridine.2.O...methyltransf
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.833e−01
Coefficient: −3.85e−04
Value: Community_acquired_pneumonia
GO.0009056.catabolic.process
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.841e−01
Coefficient: −6.54e−04
Value: Control_Sick
0.020
0.015
0.010
0.005
0.000
GO.0016616.oxidoreductase.activity..acting.on.the.CH.OH.group.of
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.841e−01
Coefficient: 1.19e−03
Value: Control_Sick
GO.0032553.ribonucleotide.binding
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.851e−01
Coefficient: −1.37e−03
Value: Control_Sick
GO.0005215.transporter.activity
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.854e−01
Coefficient: −9.52e−04
Value: Control_Sick
GO.0006974.cellular.response.to.DNA.dama
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.857e−01
Coefficient: −3.25e−04
Value: Control_Sick
GO.0046939.nucleotide.phosphorylation
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.857e−01
Coefficient: −3.25e−04
Value: Control_Sick
GO.0006165.nucleoside.diphosphate.phosp
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.858e−01
Coefficient: −8.42e−03
Value: Community_acquired_pneumonia
GO.0008233.peptidase.activity
0.20
0.15
0.10
0.05
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.870e−01
Coefficient: −1.16e−04
Value: Control_Sick
0.003
0.002
0.001
0.000
GO.0033283.ATPase.coupled.organic.acid.transmembr
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.872e−01
Coefficient: −3.72e−05
Value: Control_Healthy
GO.0006730.one.carbon.metabolic.pr
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.872e−01
Coefficient: −3.31e−04
Value: Control_Sick
0.009
0.006
0.003
0.000
GO.0009135.purine.nucleoside.diphosphate.me
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.872e−01
Coefficient: −3.31e−04
Value: Control_Sick
0.009
0.006
0.003
0.000
GO.0009185.ribonucleoside.diphosphate.meta
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.872e−01
Coefficient: −3.31e−04
Value: Control_Sick
0.009
0.006
0.003
0.000
GO.0009179.purine.ribonucleoside.diphosphate.n
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.873e−01
Coefficient: 3.50e−03
Value: Control_Sick
GO.0043170.macromolecule.metabolic.
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.873e−01
Coefficient: −3.23e−04
Value: Control_Sick
GO.0046031.ADP.metabolic.proce
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.873e−01
Coefficient: −3.23e−04
Value: Control_Sick
GO.0006757.ATP.generation.from.A
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.873e−01
Coefficient: −3.23e−04
Value: Control_Sick
GO.0006096.glycolytic.process
0.009
0.006
0.003
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.876e−01
Coefficient: −1.70e−03
Value: Control_Sick
GO.0009110.vitamin.biosynthetic.pro
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.876e−01
Coefficient: −1.70e−03
Value: Control_Sick
GO.0042364.water.soluble.vitamin.biosynthe
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.876e−01
Coefficient: −1.13e−04
Value: Control_Healthy
GO.1903825.organic.acid.transmembrane
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.876e−01
Coefficient: 2.63e−04
Value: Community_acquired_pneumonia
GO.0009163.nucleoside.biosynthetic.p
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.876e−01
Coefficient: 2.64e−04
Value: Community_acquired_pneumonia
GO.0042455.ribonucleoside.biosynthetic
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.876e−01
Coefficient: −4.15e−04
Value: Control_Sick
GO.00022804.active.transmembrane.transpo
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.876e−01
Coefficient: 7.83e−05
Value: Control_Healthy
0.0015
0.0010
0.0005
0.0000
GO.0016765.transferase.activity..transferring.alkyl.or.aryl...
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.879e−01
Coefficient: −3.55e−05
Value: Control_Sick
GO.0000175.3.5.exoribonuclease.ac
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.885e−01
Coefficient: −9.46e−04
Value: Control_Sick
GO.0033554.cellular.response.to.str
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.892e−01
Coefficient: −1.38e−03
Value: Control_Healthy
GO.1901564.organonitrogen.compound.meta
0.025
0.020
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.892e−01
Coefficient: 2.62e−04
Value: Community_acquired_pneumonia
GO.1901659.glycosyl.compound.biosynthe
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.896e−01
Coefficient: −2.74e−04
Value: Control_Sick
GO.0006813.potassium.ion.transpo
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.896e−01
Coefficient: −1.13e−03
Value: Control_Sick
GO.0016835.carbon.oxygen.lyase.ac
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.896e−01
Coefficient: −1.69e−03
Value: Control_Sick
GO.0006767.water.soluble.vitamin.metabo
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.899e−01
Coefficient: −2.02e−03
Value: Control_Sick
GO.0055085.transmembrane.transp
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.905e−01
Coefficient: −3.55e−04
Value: Community_acquired_pneumonia
GO.0019219.regulation.of.nucleobase.containing.compo
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.905e−01
Coefficient: 1.53e−04
Value: Control_Healthy
0.004
0.003
0.002
0.001
0.000
GO.0016627.oxidoreductase.activity..acting.on.the.CH
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.909e−01
Coefficient: 2.15e−04
Value: Control_Sick
GO.0006754.ATP.biosynthetic.proc
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.915e−01
Coefficient: −6.05e−05
Value: Community_acquired_pneumonia
GO.0008170.N.methyltransferase.ac
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.915e−01
Coefficient: 1.16e−03
Value: Control_Sick
GO.0017076.purine.nucleotide.bind
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.918e−01
Coefficient: −1.50e−04
Value: Control_Healthy
GO.0065009.regulation.of.molecular.fu
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.918e−01
Coefficient: −8.18e−04
Value: Control_Sick
GO.0071702.organic.substance.trans
0.008
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.918e−01
Coefficient: −4.46e−05
Value: Control_Healthy
1e−03
5e−04
0e+00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
GO.0016624.oxidoreductase.activity..acting.on.the.aldehyde.or.oxo.g

FDR: 2.919e−01
Coefficient: 2.31e−04
Value: Control_Sick
GO.0048519.negative.regulation.of.biologic
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.926e−01
Coefficient: 2.59e−04
Value: Community_acquired_pneumonia
0.006
0.004
0.002
0.000
GO.0034404.nucleobase.containing.small.molecule.
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.926e−01
Coefficient: −1.83e−04
Value: Community_acquired_pneumonia
GO.00041175.endopeptidase.activi
0.005
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.926e−01
Coefficient: 4.33e−04
Value: Community_acquired_pneumonia
GO.0016462.pyrophosphatase.activ
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.926e−01
Coefficient: −1.01e−04
Value: Community_acquired_pneumonia
GO.0004565.beta.galactosidase.act
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.926e−01
Coefficient: −8.07e−05
Value: Control_Healthy
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case
6796.exonuclease.activity..active.with.either.ribo..or.deoxyribonucleic

FDR: 2.929e−01
Coefficient: 1.01e−04
Value: Control_Healthy
GO.0051641.cellular.localization
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.929e−01
Coefficient: 3.31e−04
Value: Community_acquired_pneumonia
0.0075
0.0050
0.0025
0.0000
GO.0015103.inorganic.anion.transmembrane.tra
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.933e−01
Coefficient: 2.86e−04
Value: Community_acquired_pneumonia
GO.0043603.cellular.amide.metabolic.p
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.933e−01
Coefficient: −8.92e−04
Value: Control_Sick
GO.0006281.DNA.repai
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.933e−01
Coefficient: 2.90e−04
Value: Control_Sick
GO.00008289.lipid.binding
0.0015
0.0010
0.0005
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.933e−01
Coefficient: 1.15e−03
Value: Control_Sick
GO.0032555.purine.ribonucleotide.bin
0.015
0.010
0.005
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.933e−01
Coefficient: −1.13e−04
Value: Control_Sick
0.003
0.002
0.001
0.000
GO.0033284.ATPase.coupled.carboxylic.acid.transmemb
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.933e−01
Coefficient: −1.13e−04
Value: Control_Sick
0.003
0.002
0.001
0.000
GO.0015424.ATPase.coupled.amino.acid.transmembra
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.946e−01
Coefficient: −1.66e−03
Value: Control_Sick
GO.0006766.vitamin.metabolic.proc
0.0100
0.0075
0.0050
0.0025
0.0000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.952e−01
Coefficient: −1.11e−04
Value: Control_Healthy
GO.1905039.carboxylic.acid.transmembran
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.952e−01
Coefficient: 2.28e−03
Value: Control_Healthy
GO.0016772.transferase.activity..transferring.phospho
0.03
0.02
0.01
0.00
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.952e−01
Coefficient: 1.14e−03
Value: Control_Sick
0.015
0.010
0.005
0.000
GO.0035639.purine.ribonucleoside.triphosph
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.990e−01
Coefficient: 2.58e−04
Value: Community_acquired_pneumonia
GO.1901068.guanosine.containing.compound.m
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.993e−01
Coefficient: −1.17e−04
Value: Control_Healthy
GO.00440092.negative.regulation.of.molecul
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.993e−01
Coefficient: −1.01e−03
Value: Control_Sick
GO.0051252.regulation.of.RNA.metabolic
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.993e−01
Coefficient: 2.14e−04
Value: Control_Sick
GO.0009145.purine.nucleoside.triphosphate.biosy
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.993e−01
Coefficient: 2.14e−04
Value: Control_Sick
GO.0009205.purine.ribonucleoside.triphosphate.n
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.993e−01
Coefficient: 2.14e−04
Value: Control_Sick
GO.0009206.purine.ribonucleoside.triphosphate.bio
0.006
0.004
0.002
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.993e−01
Coefficient: −1.10e−03
Value: Control_Sick
GO.0016836.hydro.lyase.activity
0.012
0.008
0.004
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case

FDR: 2.993e−01
Coefficient: −1.34e−04
Value: Control_Sick
GO.0015079.potassium.ion.transmembrane.tran
0.004
0.003
0.002
0.001
0.000
COVID19 (n=48)
Community_acquired_pneumonia (n=25)
Control_Sick (n=36)
Control_Healthy (n=32)
case