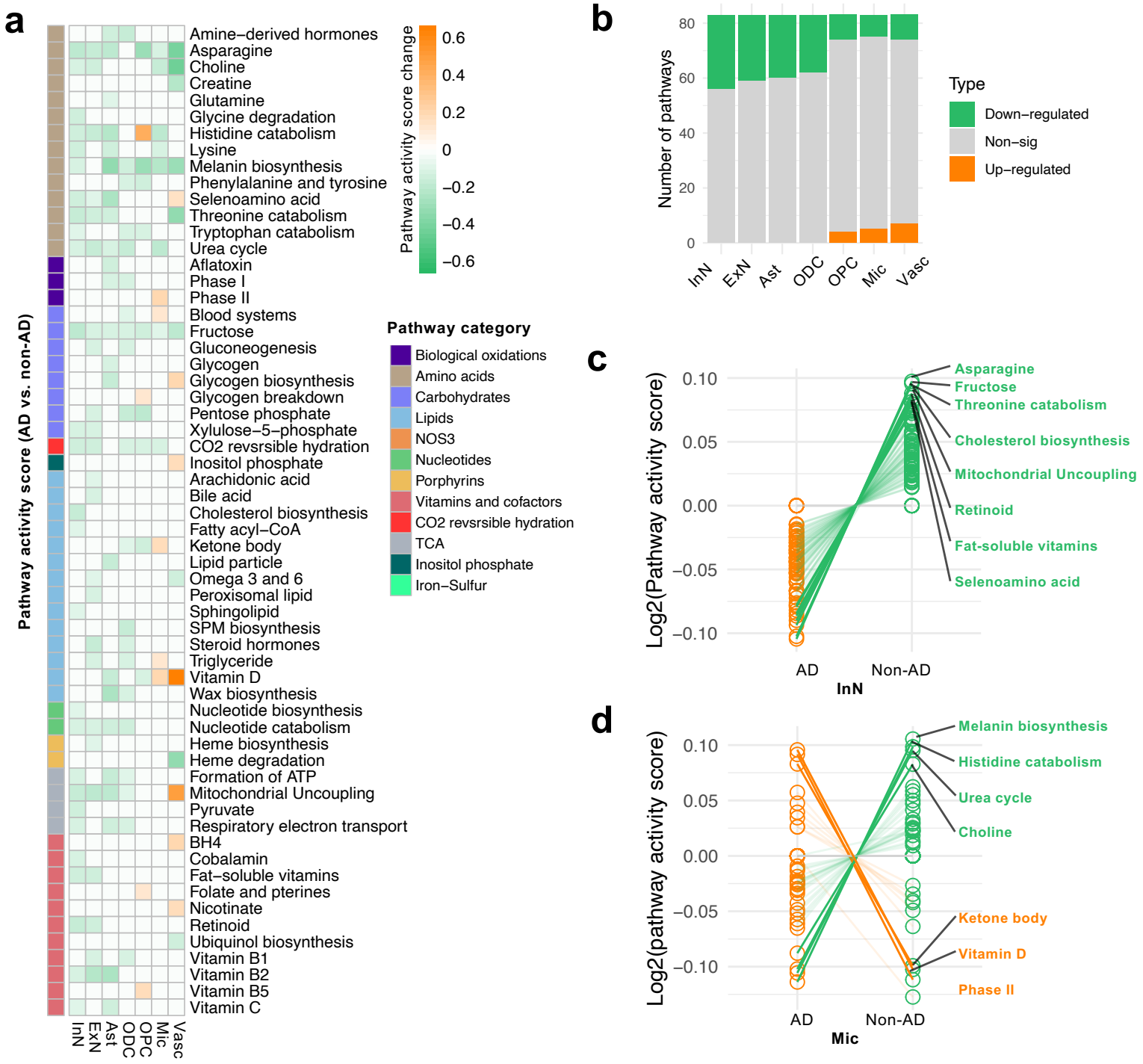
a
Pathway activity score (AD vs. non-AD)
Amine−derived hormones
Asparagine
Choline
Creatine
Glutamine
Glycine degradation
Histidine catabolism
Lysine
Melanin biosynthesis
Phenylalanine and tyrosine
Selenoamino acid
Threonine catabolism
Tryptophan catabolism
Urea cycle
Aflatoxin
Phase I
Phase II
Blood systems
Fructose
Gluconeogenesis
Glycogen
Glycogen biosynthesis
Glycogen breakdown
Pentose phosphate
Xylulose−5−phosphate
CO2 revsrsible hydration
Inositol phosphate
Arachidonic acid
Bile acid
Cholesterol biosynthesis
Fatty acyl−CoA
Ketone body
Lipid particle
Omega 3 and 6
Peroxisomal lipid
Sphingolipid
SPM biosynthesis
Steroid hormones
Triglyceride
Vitamin D
Wax biosynthesis
Nucleotide biosynthesis
Nucleotide catabolism
Heme biosynthesis
Heme degradation
Formation of ATP
Mitochondrial Uncoupling
Pyruvate
Respiratory electron transport
BH4
Cobalamin
Fat−soluble vitamins
Folate and pterines
Nicotinate
Retinoid
Ubiquinol biosynthesis
Vitamin B1
Vitamin B2
Vitamin B5
Vitamin C
InN
ExN
Ast
ODC
OPC
Mic
Vasc
Pathway activity score change
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
Pathway category
Biological oxidations
Amino acids
Carbohydrates
Lipids
NOS3
Nucleotides
Porphyrins
Vitamins and cofactors
CO2 revsrsible hydration
TCA
Inositol phosphate
Iron−Sulfur
b
Number of pathways
80
60
40
20
0
InN
ExN
Ast
ODC
OPC
Mic
Vasc
Type
Down−regulated
Non−sig
Up−regulated
c
Log2(Pathway activity score)
0.10
0.05
0.00
−0.05
−0.10
AD
Non-AD
InN
Asparagine
Fructose
Threonine catabolism
Cholesterol biosynthesis
Mitochondrial Uncoupling
Retinoid
Fat-soluble vitamins
Selenoamino acid
d
Log2(pathway activity score)
0.10
0.05
0.00
−0.05
−0.10
AD
Non-AD
Mic
Melanin biosynthesis
Histidine catabolism
Urea cycle
Choline
Ketone body
Vitamin D
Phase II