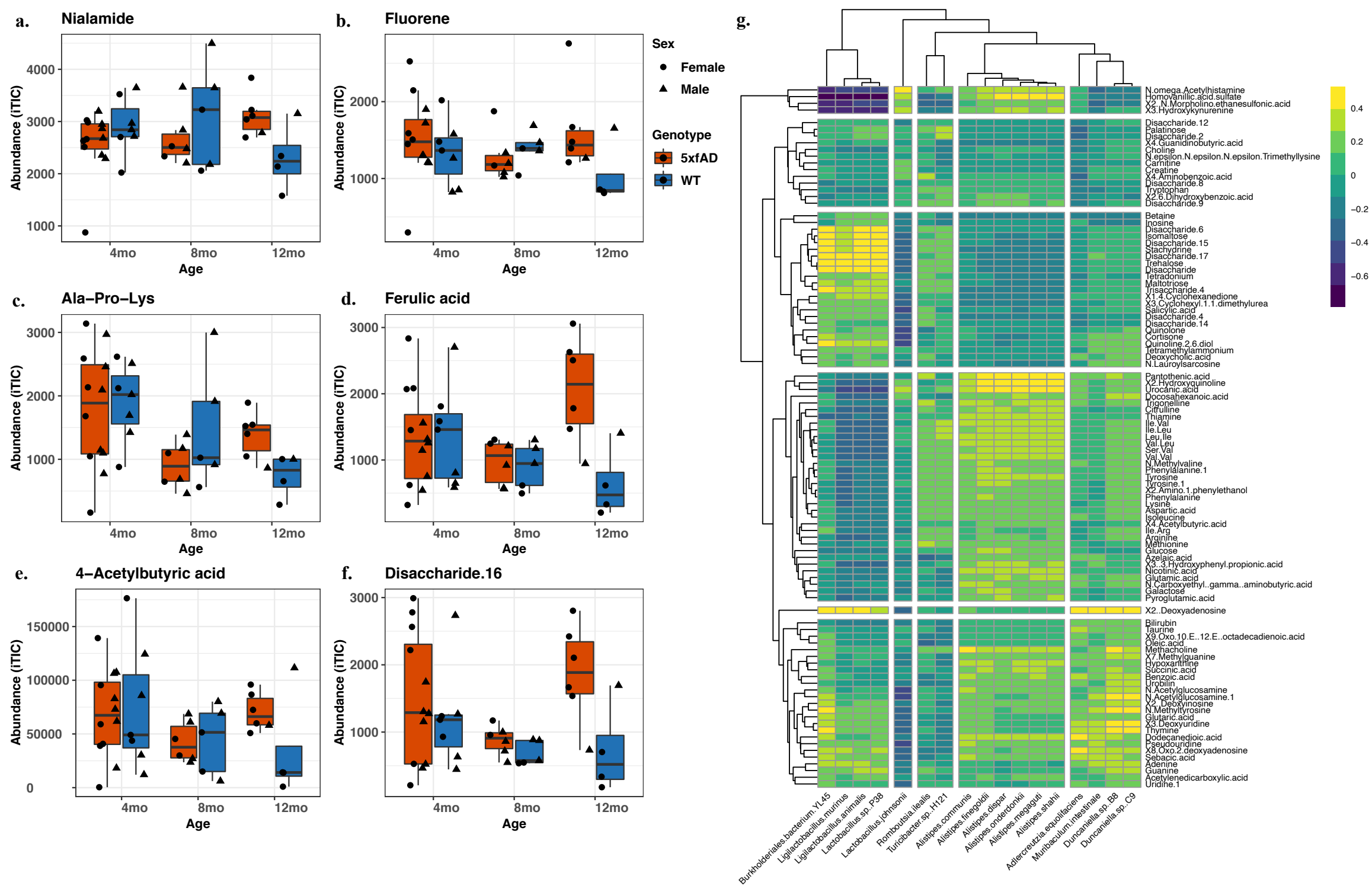
a.
Nialamide
b.
Fluorene
c.
Ala−Pro−Lys
d.
Ferulic acid
e.
4−Acetylbutyric acid
f.
Disaccharide.16
Abundance (iTIC)
Age
4mo
8mo
12mo
Sex
Female
Male
Genotype
5xfAD
WT
g.
N.omega.Acetylhistamine
Homovanillic.acid.sulfate
X2..N.Morpholino.ethanesulfonic.acid
X3.Hydroxykynurenine
Disaccharide.12
Palatinose
Disaccharide.2
X4.Guanidinobutyric.acid
Choline
N.epsilon.N.epsilon.N.epsilon.Trimethyllysine
Carnitine
Creatine
X4.Aminobenzoic.acid
Disaccharide.8
Tryptophan
X2.6.Dihydroxybenzoic.acid
Disaccharide.9
Betaine
Inosine
Disaccharide.6
Isomaltose
Disaccharide.15
Stachydrine
Disaccharide.17
Trehalose
Disaccharide
Tetradonium
Maltotriose
Trisaccharide.4
X1.4.Cyclohexanedione
X3.Cyclohexyl.1.1.dimethylurea
Salicylic.acid
Disaccharide.4
Disaccharide.14
Quinolone
Cortisone
Quinoline.2.6.diol
Tetramethylammonium
Deoxycholic.acid
N.Lauroylsarcosine
Pantothenic.acid
X2.Hydroxyquinoline
Urocanic.acid
Docosahexanoic.acid
Trigonelline
Citrulline
Thiamine
Ile.Val
Ile.Leu
Leu.Ile
Val.Leu
Ser.Val
Val.Val
N.Methylvaline
Phenylalanine.1
Tyrosine
Tyrosine.1
X2.Amino.1.phenylethanol
Phenylalanine
Lysine
Aspartic.acid
Isoleucine
X4.Acetylbutyric.acid
Ile.Arg
Arginine
Methionine
Glucose
Azelaic.acid
X3..3.Hydroxyphenyl.propionic.acid
Nicotinic.acid
Glutamic.acid
N.Carboxyethyl..gamma..aminobutyric.acid
Galactose
Pyroglutamic.acid
X2..Deoxyadenosine
Bilirubin
Taurine
X9.Oxo.10.E..12.E..octadecadienoic.acid
Oleic.acid
Methacholine
X7.Methylguanine
Hypoxanthine
Succinic.acid
Benzoic.acid
Urobilin
N.Acetylglucosamine
N.Acetylglucosamine.1
X2..Deoxyinosine
N.Methyltyrosine
Glutaric.acid
X3.Deoxyuridine
Thymine
Dodecanedioic.acid
Pseudouridine
X8.Oxo.2.deoxyadenosine
Sebacic.acid
Adenine
Guanine
Acetylenedicarboxylic.acid
Uridine.1
Burkholderiales.bacterium.YL45
Ligilactobacillus.murinus
Ligilactobacillus.animalis
Lactobacillus.sp..P38
Lactobacillus.johnsonii
Romboutsia.ilealis
Turicibacter.sp..H121
Alistipes.communis
Alistipes.finegoldii
Alistipes.dispar
Alistipes.onderdonkii
Alistipes.megaguti
Alistipes.shahii
Adlercreutzia.equolifaciens
Muribaculum.intestinale
Duncaniella.sp..B8
Duncaniella.sp..C9
0.4
0.2
0
−0.2
−0.4
−0.6