

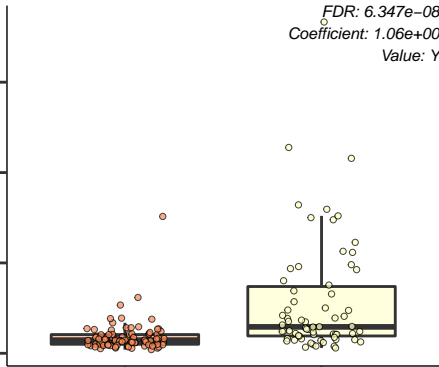
X3.hydroxybutyric.acid\_103

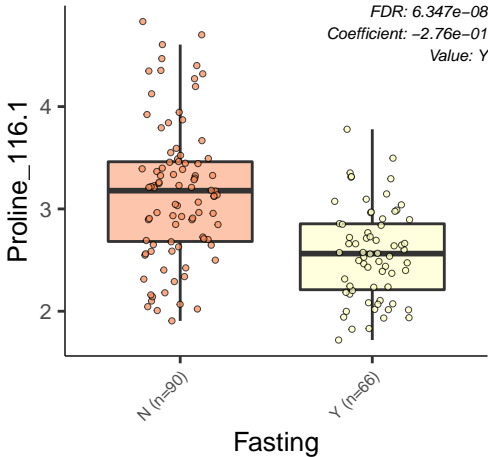
FDR: 6.347e-08  
Coefficient: 1.06e+00  
Value: Y

N (n=90)

Y (n=66)

Fasting





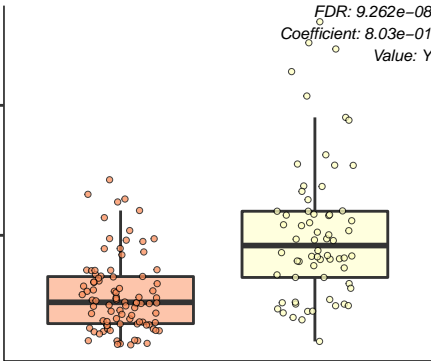
Linoleic.acid\_279.2

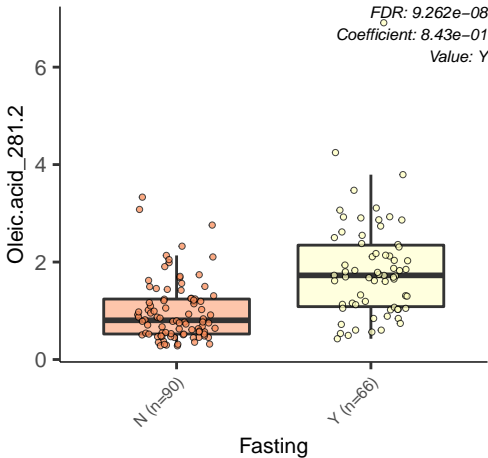
FDR:  $9.262e-08$   
Coefficient:  $8.03e-01$   
Value: Y

N (n=90)

Y (n=66)

Fasting





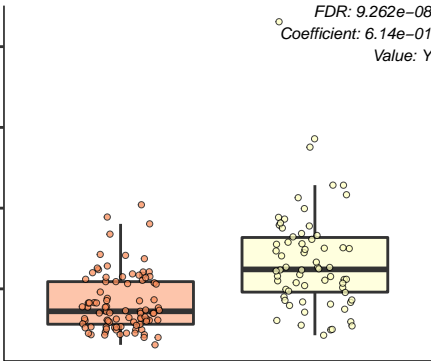
Palmitic.acid\_255.2

FDR:  $9.262e-08$   
Coefficient:  $6.14e-01$   
Value: Y

N (n=90)

Y (n=66)

Fasting



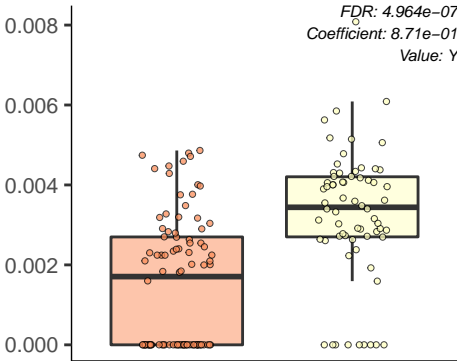
Glycerol.Myristate\_301.2

*FDR: 4.964e-07*  
*Coefficient: 8.71e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting



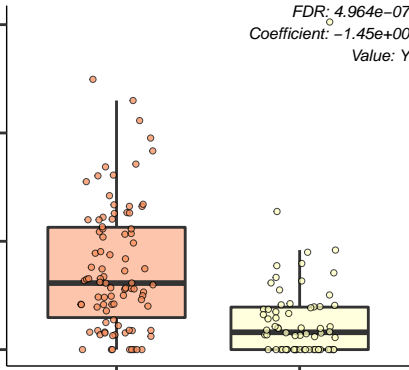
Glycochenodeoxycholate\_448.3

FDR: 4.964e-07  
Coefficient: -1.45e+00  
Value: Y

N (n=90)

Y (n=66)

Fasting



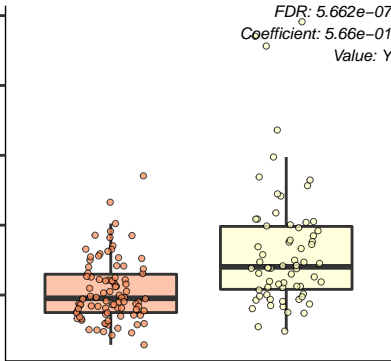
Hexanoyl.carnitine\_260.2

*FDR: 5.662e-07*  
*Coefficient: 5.66e-01*  
*Value: Y*

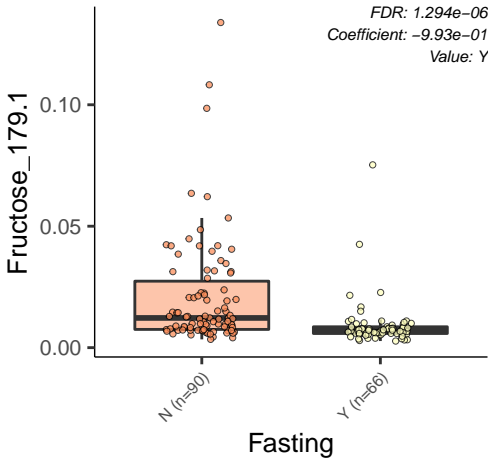
N (n=90)

Y (n=66)

Fasting







Docosahexaenoic.acid\_327.2

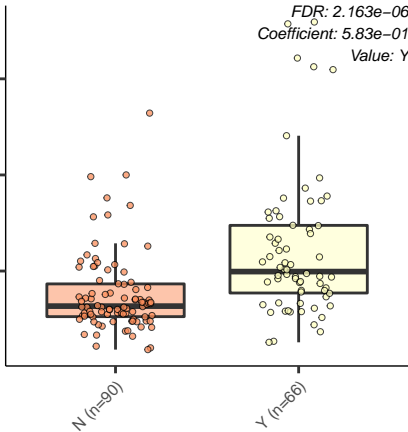
*FDR: 2.163e-06*  
*Coefficient: 5.83e-01*  
*Value: Y*

0.06  
0.04  
0.02

N (n=90)

Y (n=66)

Fasting



Palmitoleic.acid\_253.2

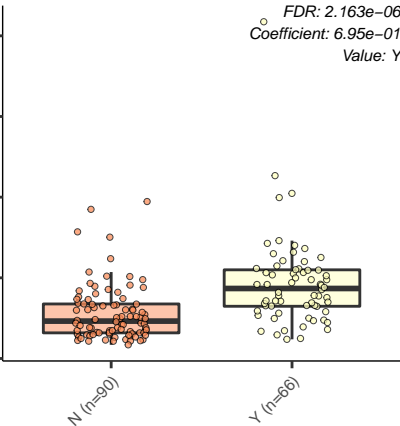
*FDR: 2.163e-06*  
*Coefficient: 6.95e-01*  
*Value: Y*

1.00  
0.75  
0.50  
0.25  
0.00

N (n=90)

Y (n=66)

Fasting



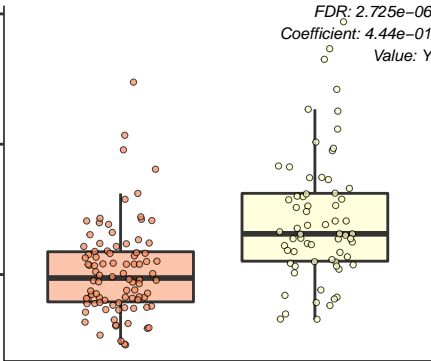
acetyl.carnitine\_204.1

FDR: 2.725e-06  
Coefficient: 4.44e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



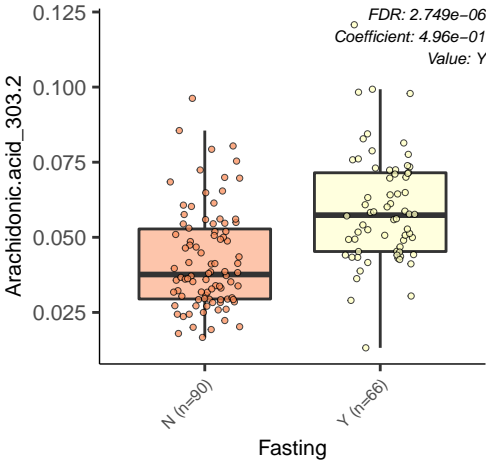
Arachidonic.acid\_303.2

FDR: 2.749e-06  
Coefficient: 4.96e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



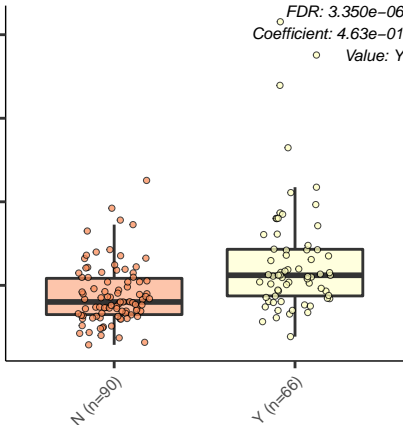
N.Acetylglycine\_116

FDR: 3.350e-06  
Coefficient: 4.63e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



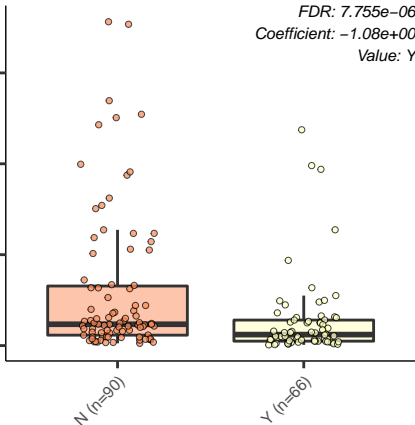
Trigonelline\_138.1

FDR:  $7.755e-06$   
Coefficient:  $-1.08e+00$   
Value: Y

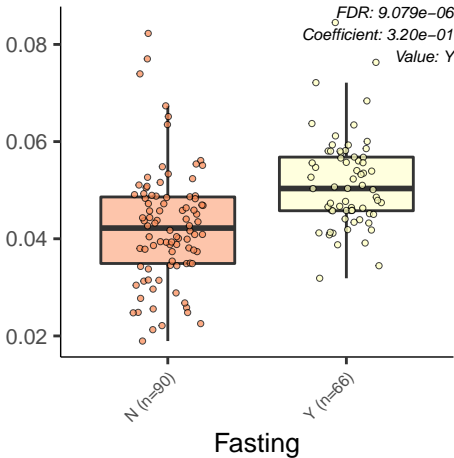
N (n=90)

Y (n=66)

Fasting



Uridine\_243.1





Octanoyl.carnitine\_288.2

*FDR: 1.308e-05*  
*Coefficient: 7.00e-01*  
*Value: Y*

0.3

0.2

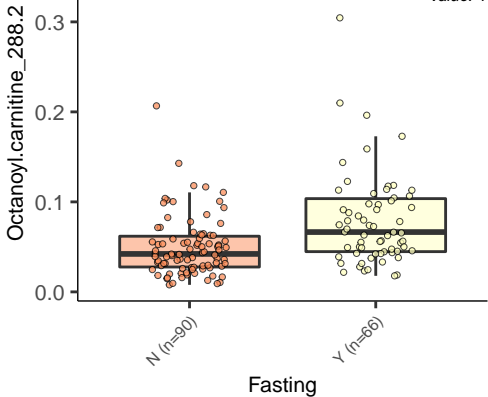
0.1

0.0

N (n=90)

Y (n=66)

Fasting



cis.10.Nonadecenoic.acid\_295.3

*FDR: 1.388e-05*  
*Coefficient: 8.31e-01*  
*Value: Y*

0.010

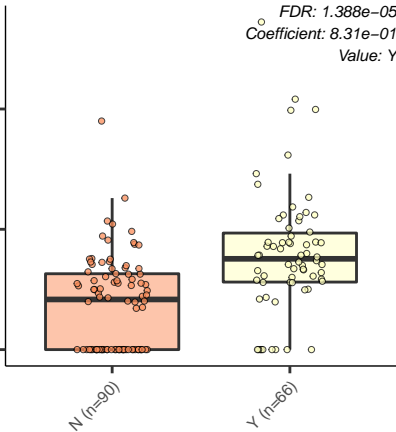
0.005

0.000

N (n=90)

Y (n=66)

Fasting



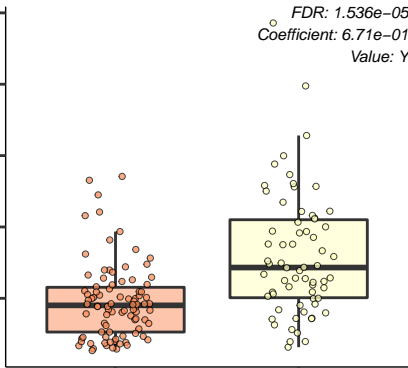
cis.11.Eicosenoic.acid\_309.3

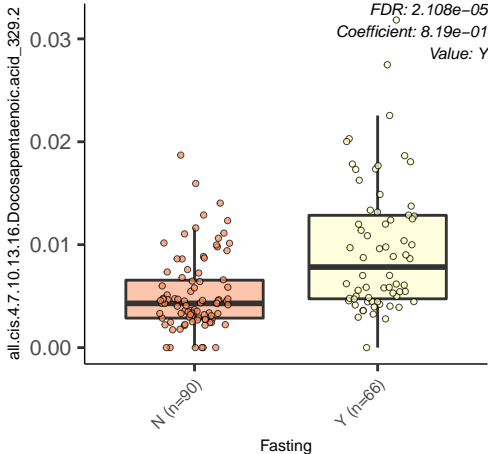
*FDR: 1.536e-05*  
*Coefficient: 6.71e-01*  
*Value: Y*

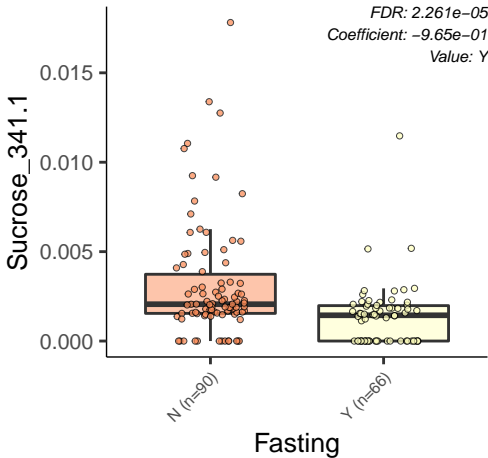
N (n=90)

Y (n=66)

Fasting







X5.Z..8.Z..11.Z..Eicosatrienoic.Acid\_305.2

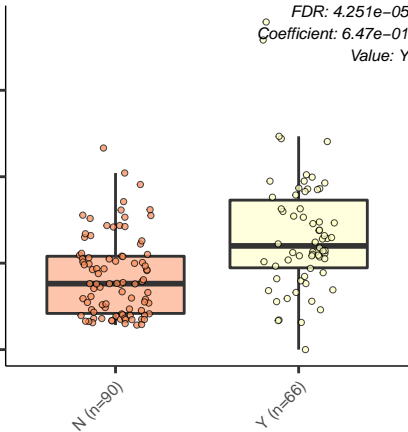
FDR: 4.251e-05  
Coefficient: 6.47e-01  
Value: Y

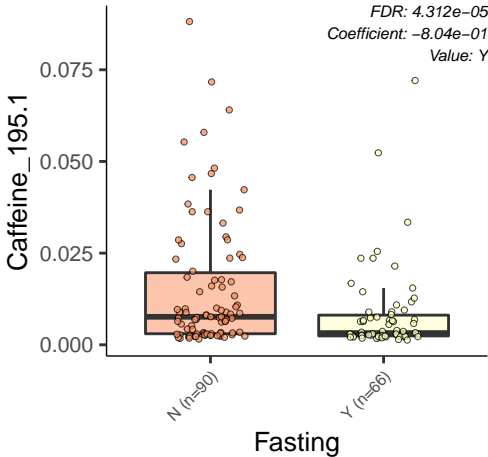
0.03  
0.02  
0.01  
0.00

N (n=90)

Y (n=66)

Fasting





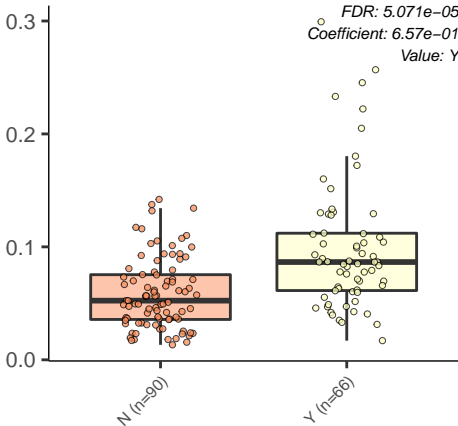
Ximeninic.Acid\_277.2

*FDR: 5.071e-05*  
*Coefficient: 6.57e-01*  
*Value: Y*

N (n=90)

Y (n=66)

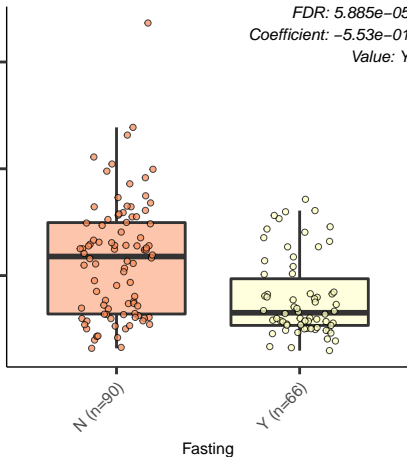
Fasting





X3..4.Hydroxyphenyl.Pyruvate\_179

*FDR: 5.885e-05*  
*Coefficient: -5.53e-01*  
*Value: Y*



Fasting

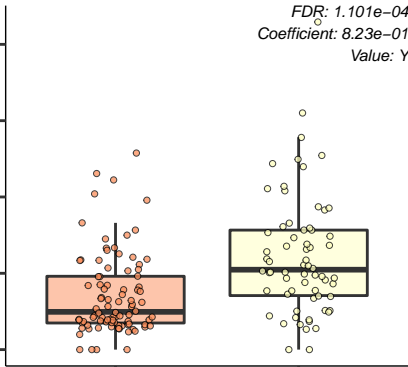
cis.5.Dodecenoic.acid\_197.2

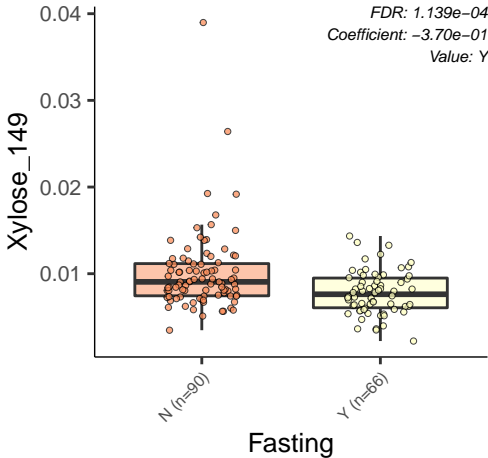
*FDR: 1.101e-04*  
*Coefficient: 8.23e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting





X14.Methylhexadecanoic.acid\_269.2

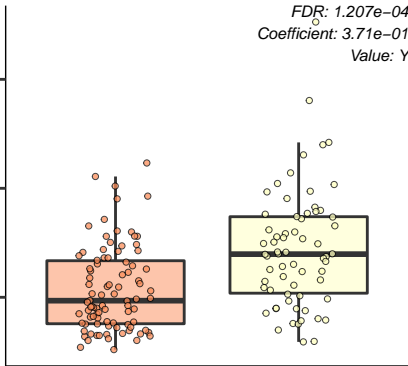
*FDR: 1.207e-04*  
*Coefficient: 3.71e-01*  
*Value: Y*

0.06  
0.04  
0.02

N (n=90)

Y (n=66)

Fasting



X4.Guanidinobutanoate\_146.1

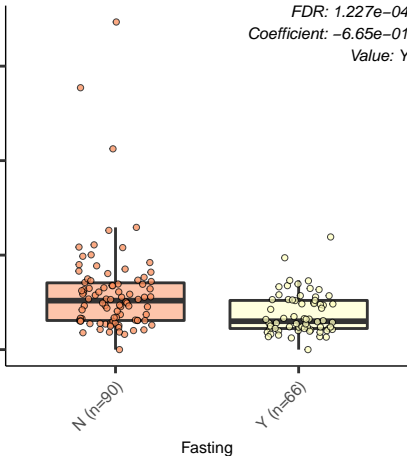
*FDR: 1.227e-04*  
*Coefficient: -6.65e-01*  
*Value: Y*

0.03  
0.02  
0.01  
0.00

N (n=90)

Y (n=66)

Fasting



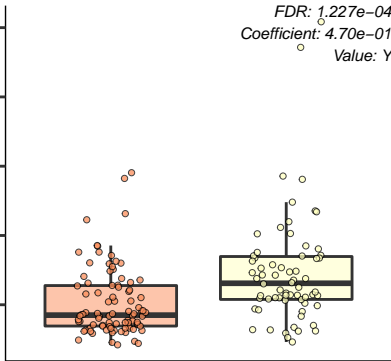
Myristoleic.acid\_225.2

FDR:  $1.227\text{e-}04$   
Coefficient:  $4.70\text{e-}01$   
Value: Y

N (n=90)

Y (n=66)

Fasting



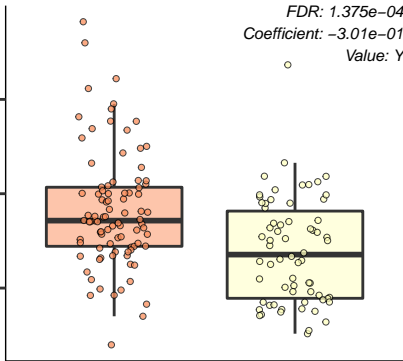
Propionyl.carnitine\_218.1

FDR: 1.375e-04  
Coefficient: -3.01e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



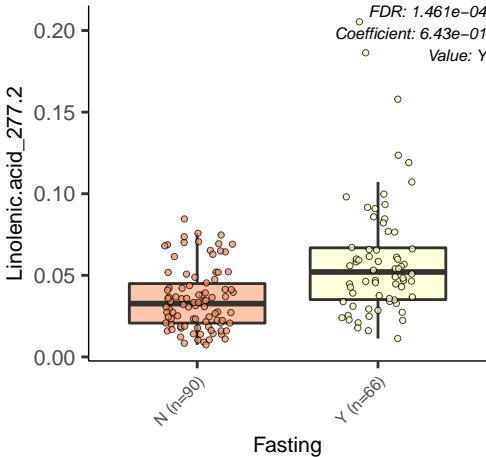
Linolenic.acid\_277.2

*FDR: 1.461e-04*  
*Coefficient: 6.43e-01*  
*Value: Y*

*N (n=90)*

*Y (n=66)*

Fasting





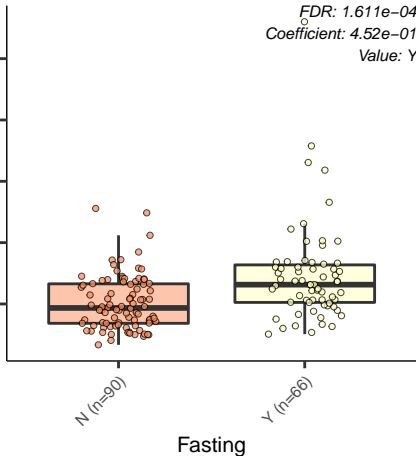
Myristic.acid\_227.2

FDR: 1.611e-04  
Coefficient: 4.52e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



Paraxanthine\_181.1

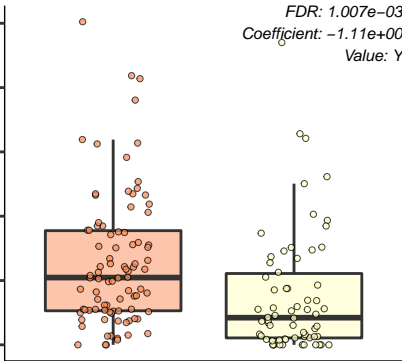
0.05  
0.04  
0.03  
0.02  
0.01  
0.00

N (n=90)

Y (n=66)

Fasting

FDR: 1.007e-03  
Coefficient: -1.11e+00  
Value: Y



Mannitol\_181.1

*FDR: 1.035e-03*

*Coefficient: -8.91e-01*

*Value: Y*

0.6

0.4

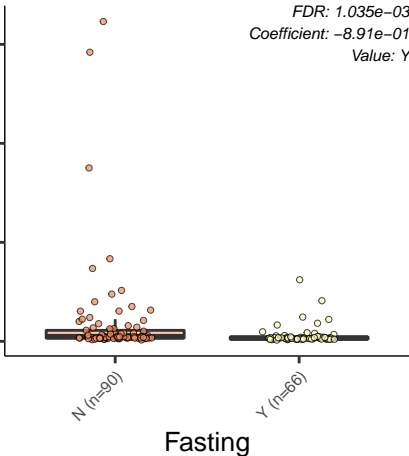
0.2

0.0

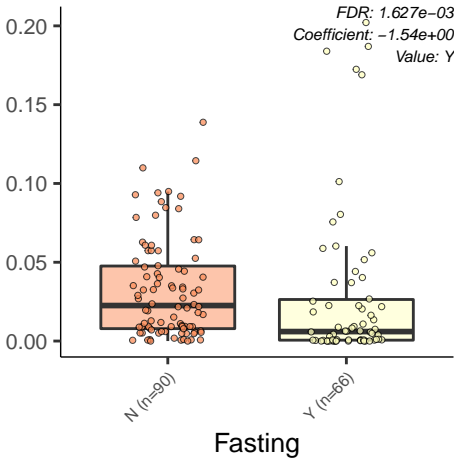
*N (n=90)*

*Y (n=66)*

Fasting



Hippurate\_178.1



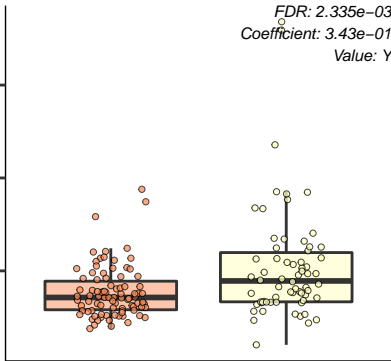
X9.Decenoic.acid\_169.1

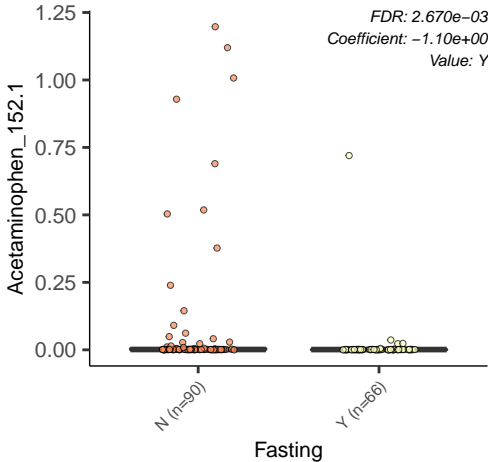
FDR: 2.335e-03  
Coefficient: 3.43e-01  
Value: Y

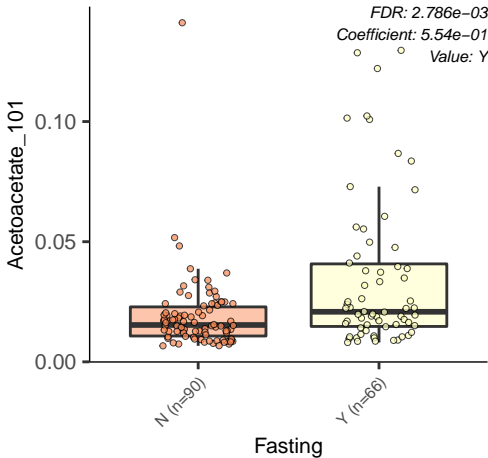
N (n=90)

Y (n=66)

Fasting







Indole.3.Acetate\_174.1

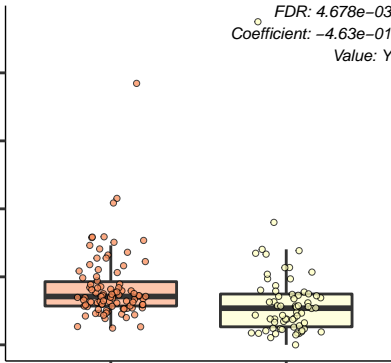
FDR: 4.678e-03  
Coefficient: -4.63e-01  
Value: Y

0.100  
0.075  
0.050  
0.025  
0.000

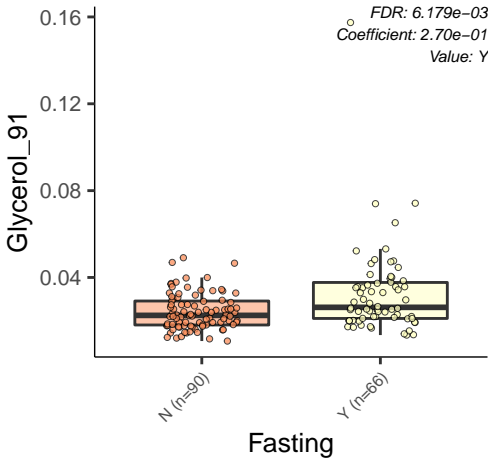
N (n=90)

Y (n=66)

Fasting







Glycocholate\_464.3

*FDR: 7.271e-03*  
*Coefficient: -7.97e-01*  
*Value: Y*

0.010

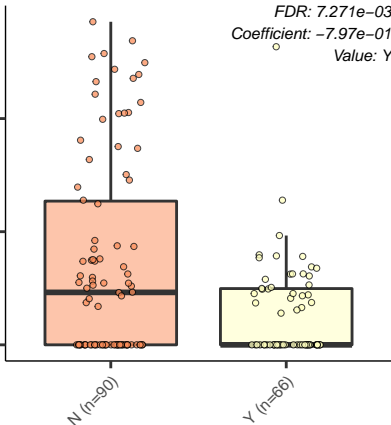
0.005

0.000

N (n=90)

Y (n=66)

Fasting



Salicylate\_137

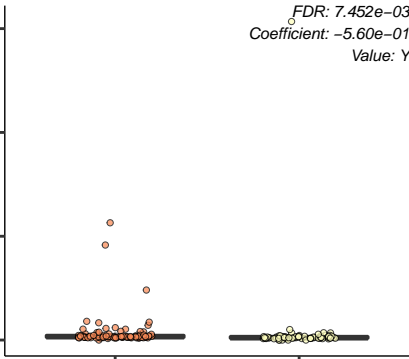
0.3  
0.2  
0.1  
0.0

*FDR: 7.452e-03*  
*Coefficient: -5.60e-01*  
*Value: Y*

*N (n=90)*

*Y (n=66)*

Fasting



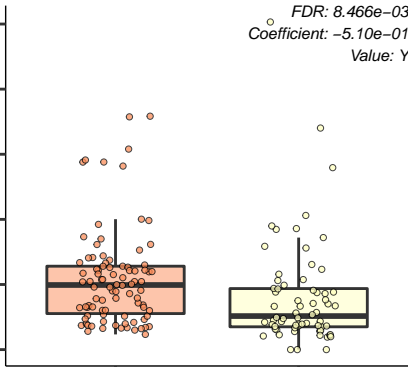
X2.3.Dihydroxybenzoate\_153

FDR:  $8.466e-03$   
Coefficient:  $-5.10e-01$   
Value: Y

N (n=90)

Y (n=66)

Fasting



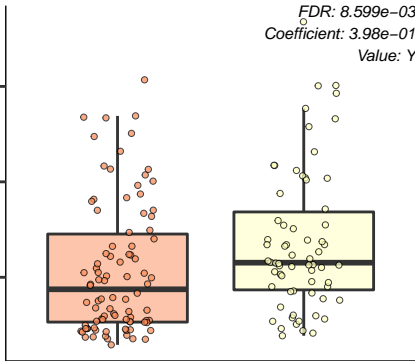
N.Acetylanine\_130.1

FDR:  $8.599\text{e-}03$   
Coefficient:  $3.98\text{e-}01$   
Value: Y

N (n=90)

Y (n=66)

Fasting



Dimethylarginine\_203.2

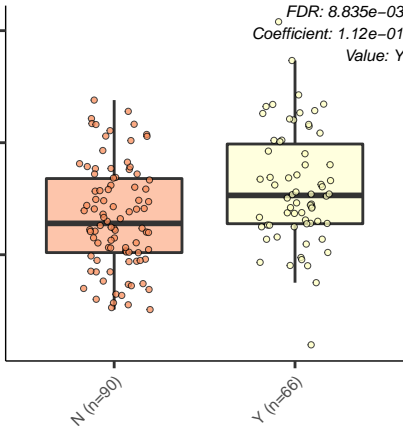
0.05  
0.04  
0.03

N (n=90)

Y (n=66)

Fasting

*FDR: 8.835e-03*  
*Coefficient: 1.12e-01*  
*Value: Y*



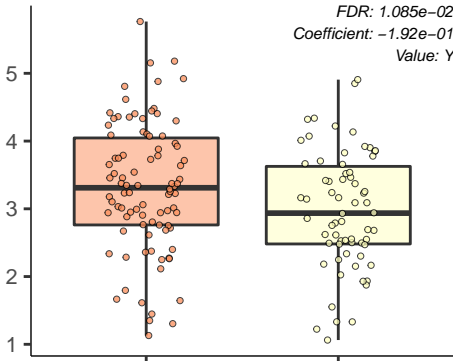
Betaine\_118.1

*FDR: 1.085e-02*  
*Coefficient: -1.92e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting



X2.Methylmaleate\_129

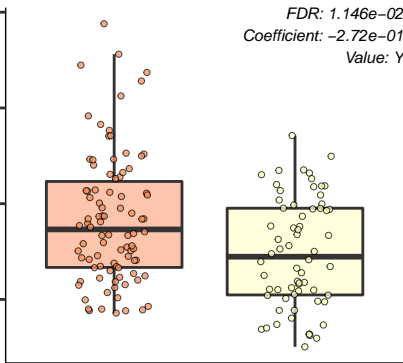
0.08  
0.06  
0.04  
0.02

*FDR: 1.146e-02*  
*Coefficient: -2.72e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting





Palmitoyl.carnitine\_400.3

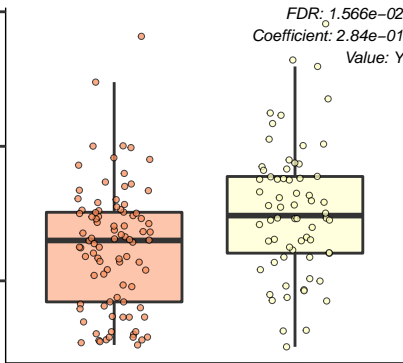
0.03  
0.02  
0.01

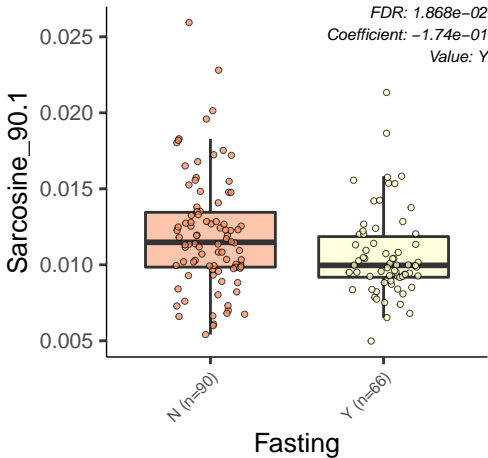
*FDR: 1.566e-02*  
*Coefficient: 2.84e-01*  
*Value: Y*

*N (n=90)*

*Y (n=66)*

Fasting





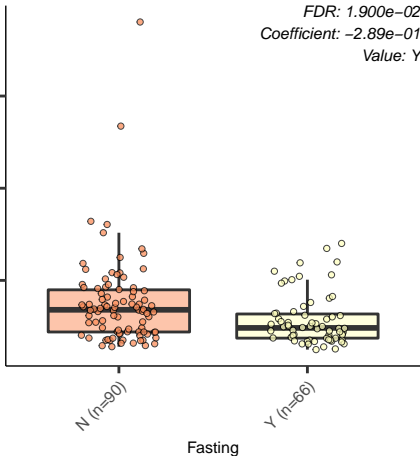
Trans.4.Hydroxy.L.Proline\_132.1

*FDR: 1.900e-02*  
*Coefficient: -2.89e-01*  
*Value: Y*

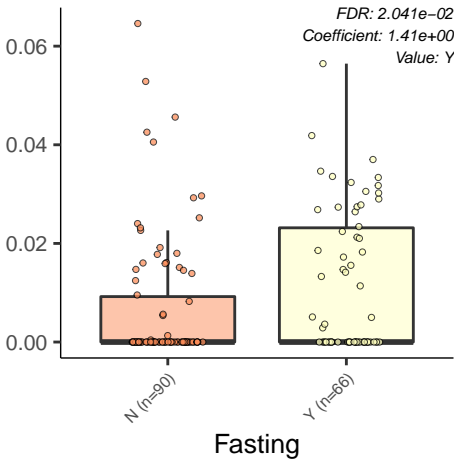
N (n=90)

Y (n=66)

Fasting



Bilirubin\_585.3



X5.Aminopentanoate\_118.1

FDR:  $2.115e-02$   
Coefficient:  $-1.20e-01$   
Value: Y

0.06

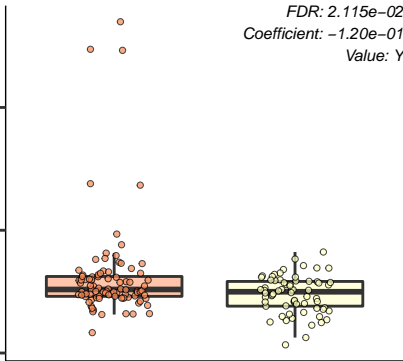
0.04

0.02

N (n=90)

Y (n=66)

Fasting



Indole.3.Methyl.Acetate\_190.1

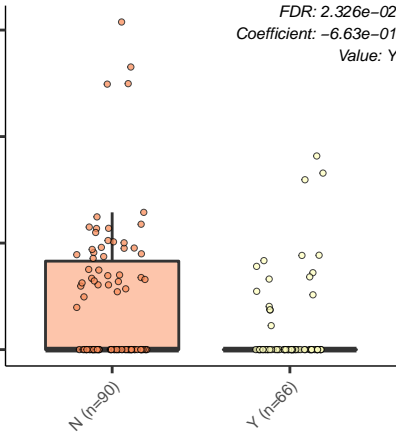
0.006  
0.004  
0.002  
0.000

*FDR: 2.326e-02*  
*Coefficient: -6.63e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting

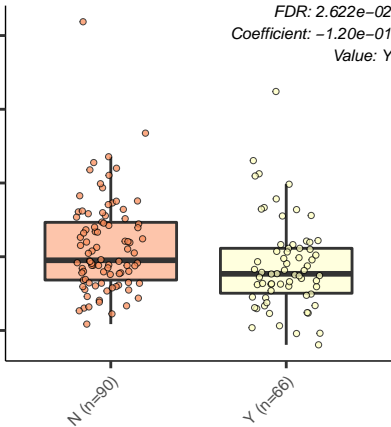


N.Acetylputrescine\_131.1

FDR: 2.622e-02

Coefficient: -1.20e-01

Value: Y



Fasting

Phenylpyruvate\_163

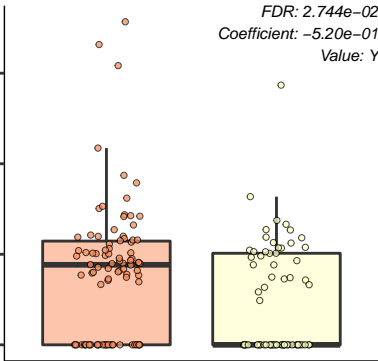
0.0075  
0.0050  
0.0025  
0.0000

N (n=90)

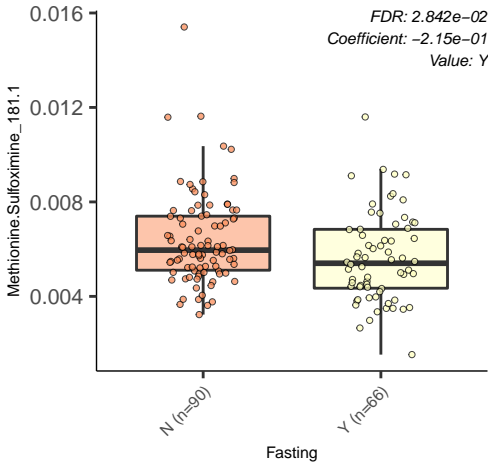
Y (n=66)

Fasting

FDR: 2.744e-02  
Coefficient: -5.20e-01  
Value: Y







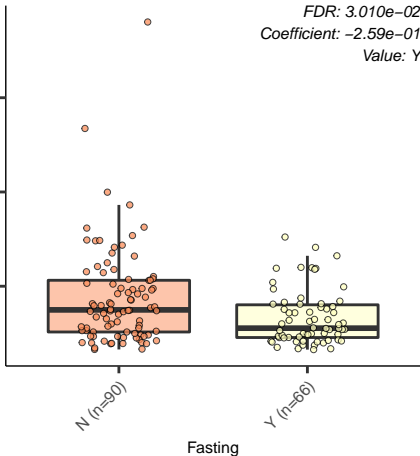
Cis.4.Hydroxy.D.Proline\_132.1

FDR: 3.010e-02  
Coefficient: -2.59e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



Pentadecanoic.acid\_241.2

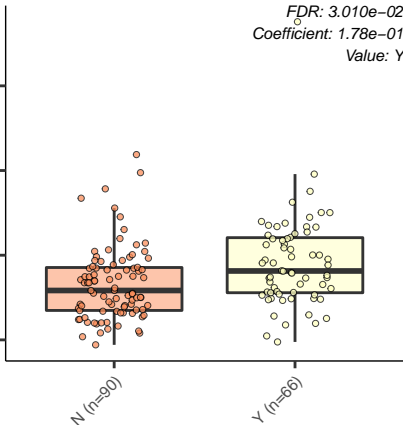
*FDR: 3.010e-02*  
*Coefficient: 1.78e-01*  
*Value: Y*

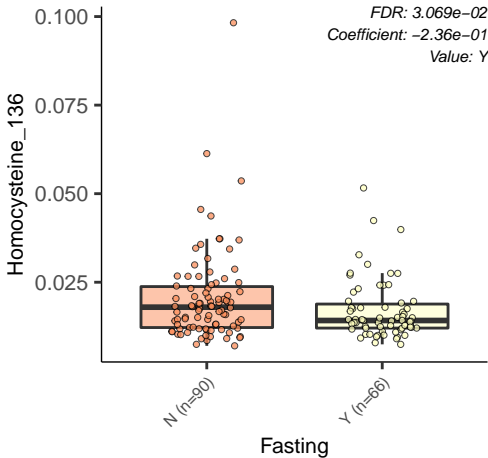
0.08  
0.06  
0.04  
0.02

N (n=90)

Y (n=66)

Fasting





Glucose\_179.1

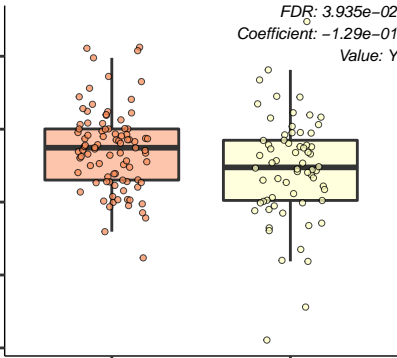
1.25  
1.00  
0.75  
0.50  
0.25

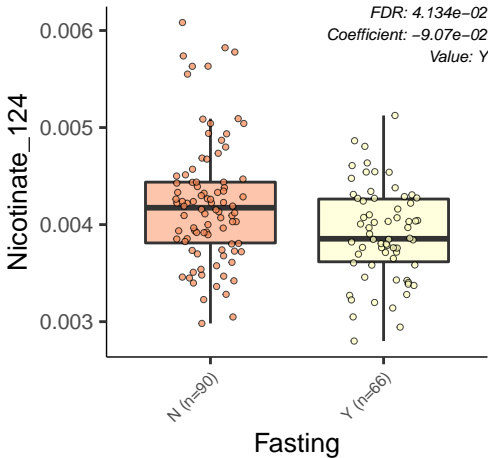
N (n=90)

Y (n=66)

Fasting

FDR:  $3.935e-02$   
Coefficient:  $-1.29e-01$   
Value: Y





Trehalose\_341.1

FDR: 4.134e-02

Coefficient: -7.37e-01

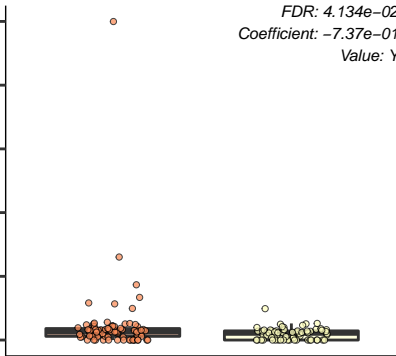
Value: Y

0.05  
0.04  
0.03  
0.02  
0.01  
0.00

N (n=90)

Y (n=66)

Fasting



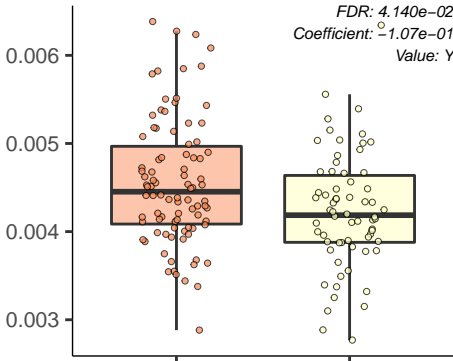
Dopamine\_154.1

FDR:  $4.140e-02$   
Coefficient:  $-1.07e-01$   
Value: Y

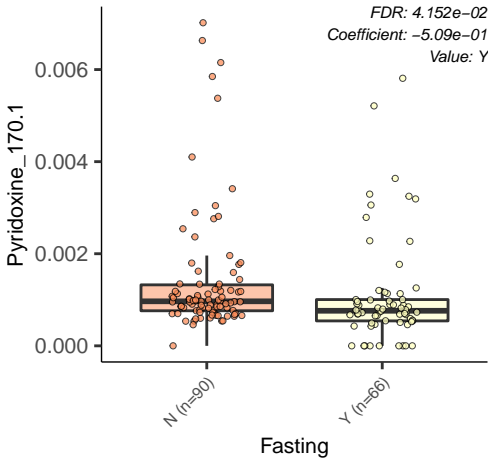
N (n=90)

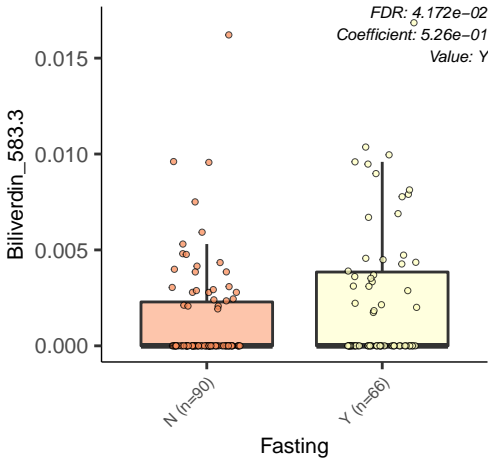
Y (n=66)

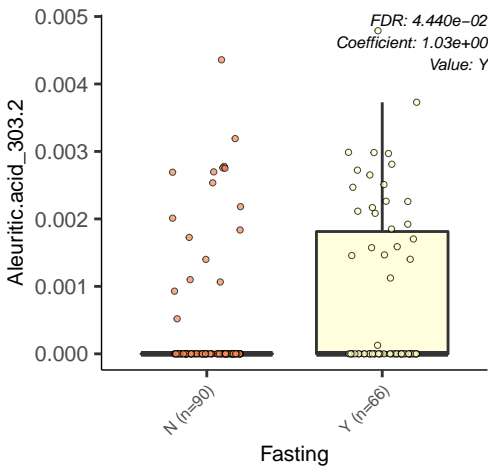
Fasting











Alpha.Tocopherol\_429.4

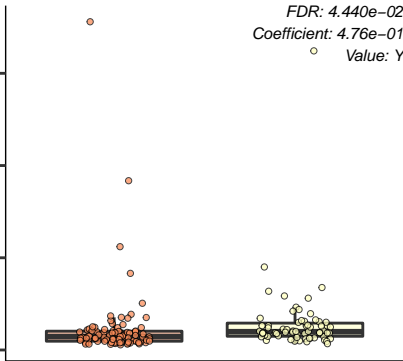
*FDR: 4.440e-02*  
*Coefficient: 4.76e-01*  
Value: Y

0.15  
0.10  
0.05  
0.00

N (n=90)

Y (n=66)

Fasting



Ribose\_149

0.03

0.02

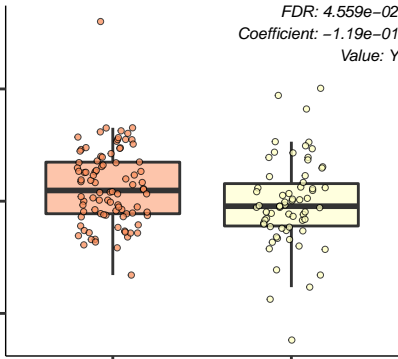
0.01

N (n=90)

Y (n=66)

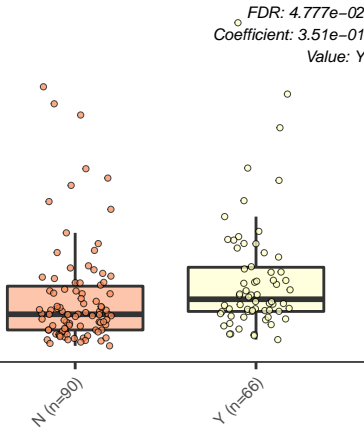
Fasting

FDR: 4.559e-02  
Coefficient: -1.19e-01  
Value: Y



Dodecanoic.acid\_199.2

*FDR: 4.777e-02*  
*Coefficient: 3.51e-01*  
*Value: Y*



Fasting

N.Acetyl.L.glutamine\_189.1

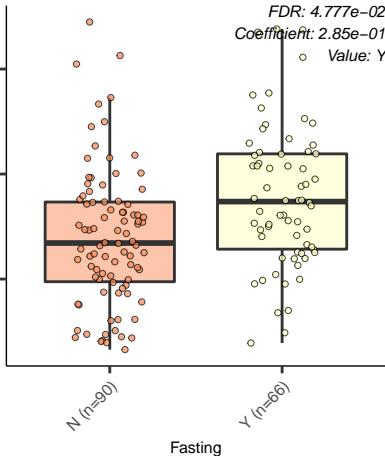
0.0075  
0.0050  
0.0025

N (n=90)

Y (n=66)

Fasting

FDR: 4.777e-02  
Coefficient: 2.85e-01  
Value: Y



Rhamnose\_163.1

FDR: 4.777e-02

Coefficient: -2.82e-01

Value: Y

0.015

0.010

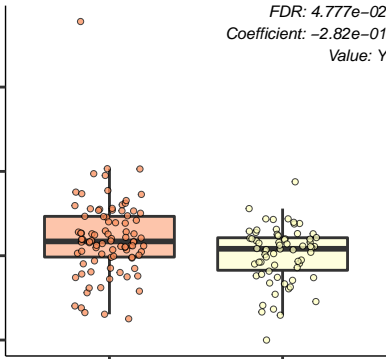
0.005

0.000

N (n=90)

Y (n=66)

Fasting





Omega.Hydroxydodecanoate\_215.2

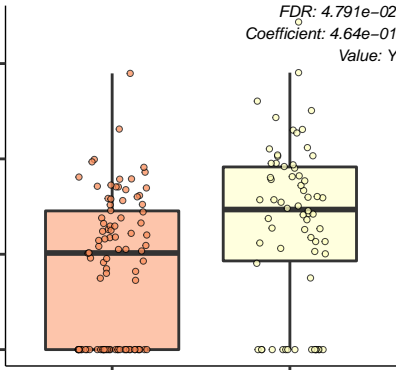
FDR: 4.791e-02  
Coefficient: 4.64e-01  
Value: Y

0.006  
0.004  
0.002  
0.000

N (n=90)

Y (n=66)

Fasting



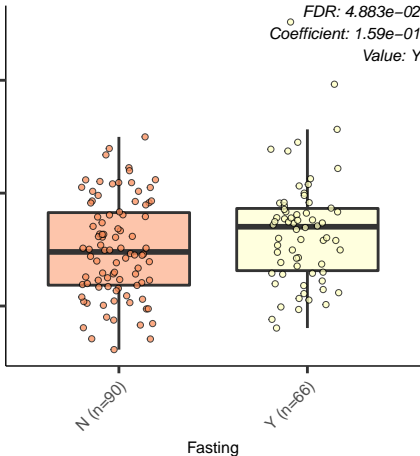
X3.Methyl.2.Oxovalerate\_129.1

*FDR: 4.883e-02*  
*Coefficient: 1.59e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting



Alanine\_90.1

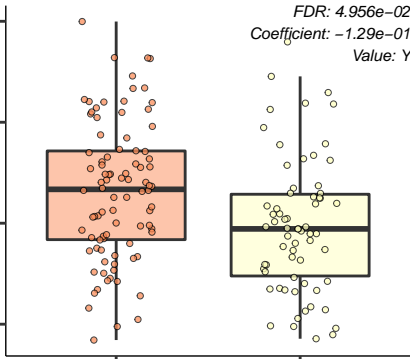
1.0  
0.8  
0.6  
0.4

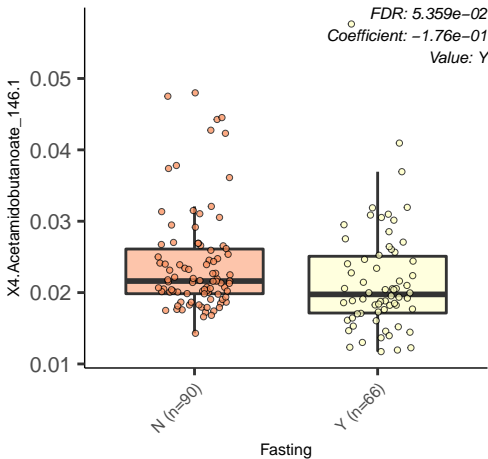
N (n=90)

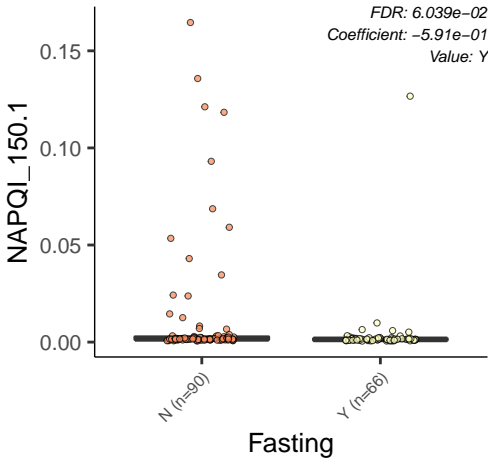
Y (n=66)

Fasting

FDR: 4.956e-02  
Coefficient: -1.29e-01  
Value: Y

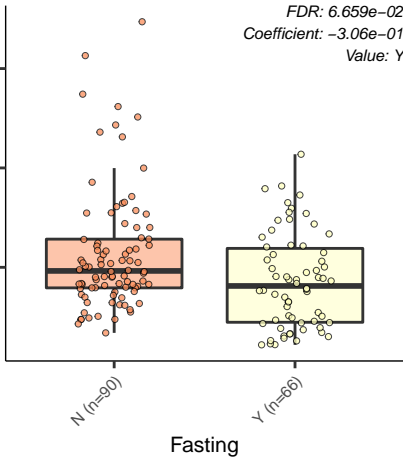






Deoxycholate\_391.3

*FDR: 6.659e-02*  
*Coefficient: -3.06e-01*  
*Value: Y*



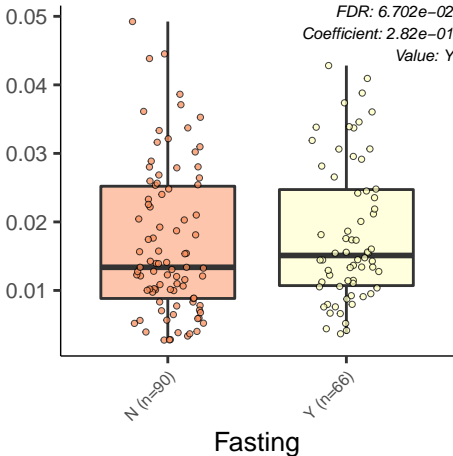
Aspartate\_134

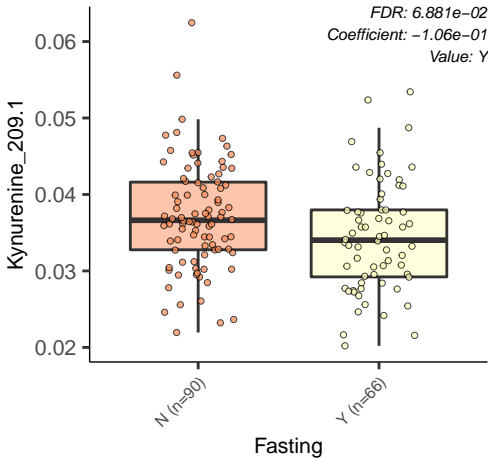
FDR: 6.702e-02  
Coefficient: 2.82e-01  
Value: Y

N (n=90)

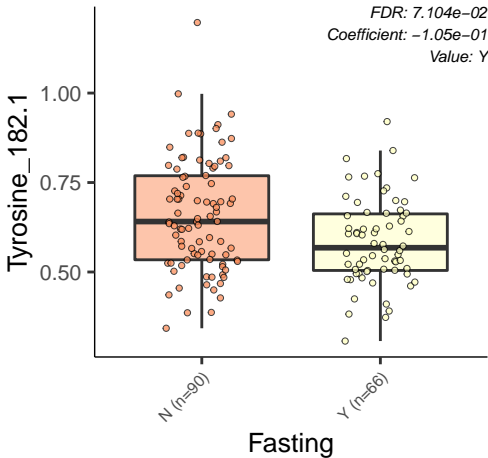
Y (n=66)

Fasting









N.Acetylserine\_146

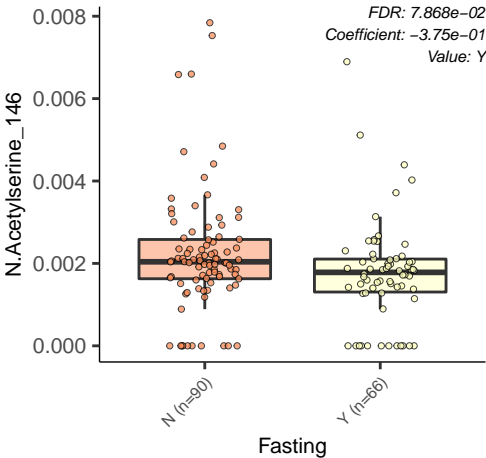
FDR:  $7.868e-02$   
Coefficient:  $-3.75e-01$   
Value: Y

0.008  
0.006  
0.004  
0.002  
0.000

N (n=90)

Y (n=66)

Fasting



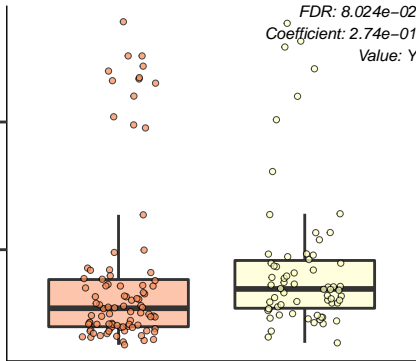
Stearic.acid\_283.3

*FDR: 8.024e-02*  
*Coefficient: 2.74e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting



Trimethyllysine\_189.2

FDR:  $8.291e-02$

Coefficient:  $-1.54e-01$

Value: Y

0.04

0.03

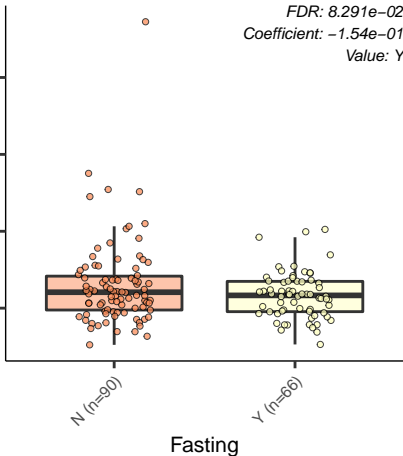
0.02

0.01

N (n=90)

Y (n=66)

Fasting



X3.Hydroxymethylglutarate\_161

0.016

0.012

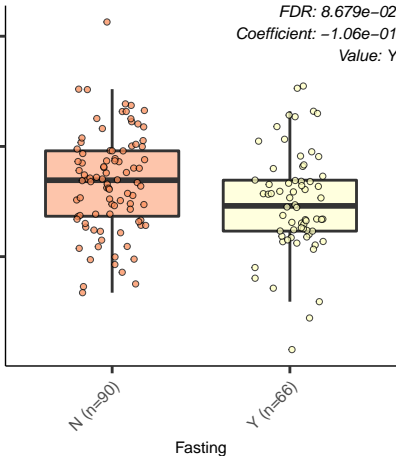
0.008

N (n=90)

Y (n=66)

Fasting

FDR:  $8.679e-02$   
Coefficient:  $-1.06e-01$   
Value: Y



X2.Hydroxytetradecanoic.acid\_243.2

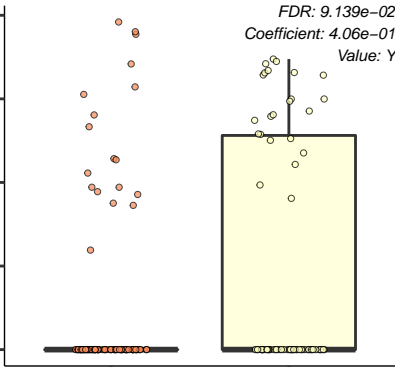
0.004  
0.003  
0.002  
0.001  
0.000

*FDR: 9.139e-02*  
*Coefficient: 4.06e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting



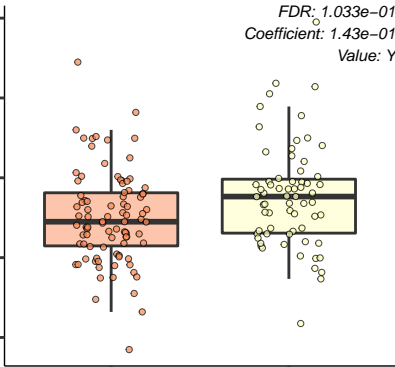
X2.Hydroxyhexadecanoic.acid\_271.2

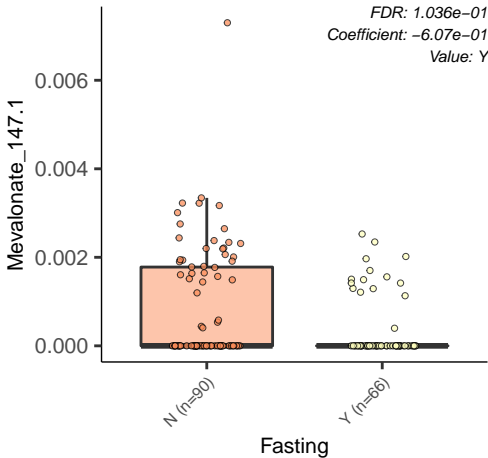
FDR: 1.033e-01  
Coefficient: 1.43e-01  
Value: Y

N (n=90)

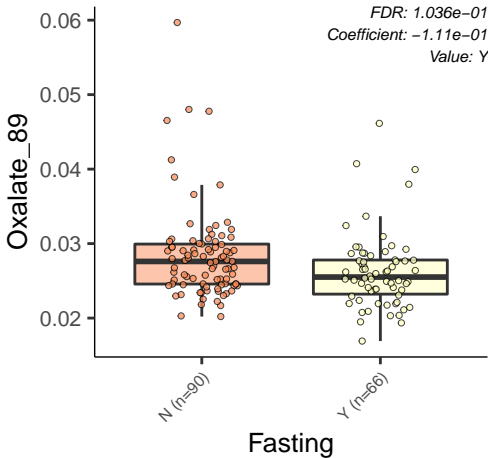
Y (n=66)

Fasting









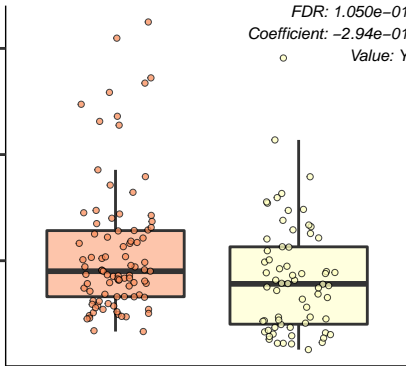
Bis.2.Ethylhexyl.Phthalate\_391.3

FDR: 1.050e-01  
Coefficient: -2.94e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



Xanthine\_151

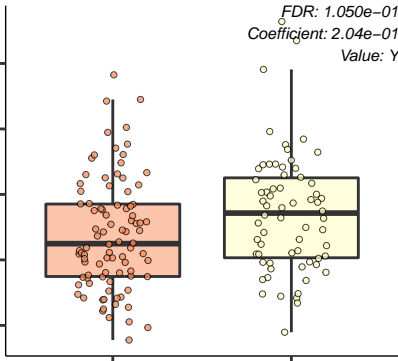
FDR: 1.050e-01  
Coefficient: 2.04e-01  
Value: Y

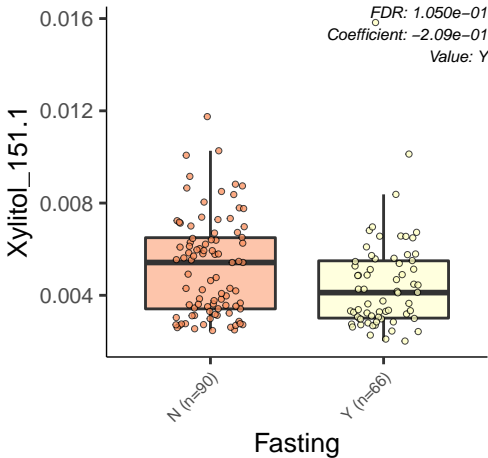
0.05  
0.04  
0.03  
0.02  
0.01

N (n=90)

Y (n=66)

Fasting





Lignoceric.acid\_367.4

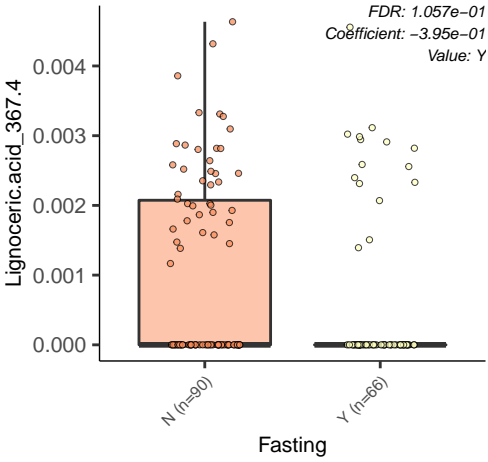
FDR: 1.057e-01  
Coefficient: -3.95e-01  
Value: Y

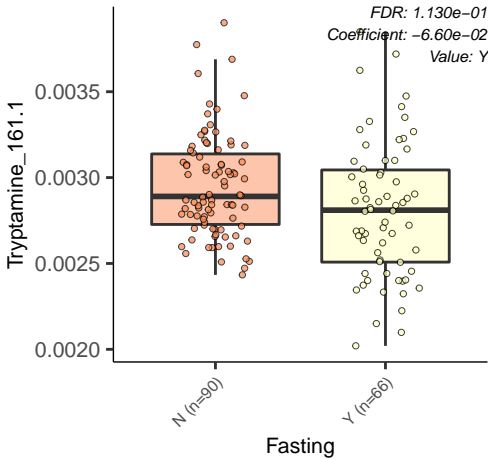
0.004  
0.003  
0.002  
0.001  
0.000

N (n=90)

Y (n=66)

Fasting





Tetradecanoylcarnitine\_372.3

*FDR: 1.139e-01*  
*Coefficient: 6.85e-01*  
*Value: Y*

0.010

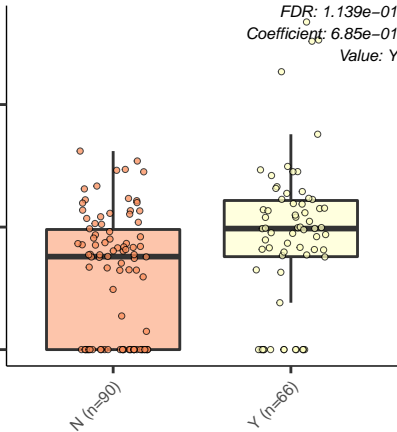
0.005

0.000

N (n=90)

Y (n=66)

Fasting



Threonine\_120.1

FDR: 1.197e-01

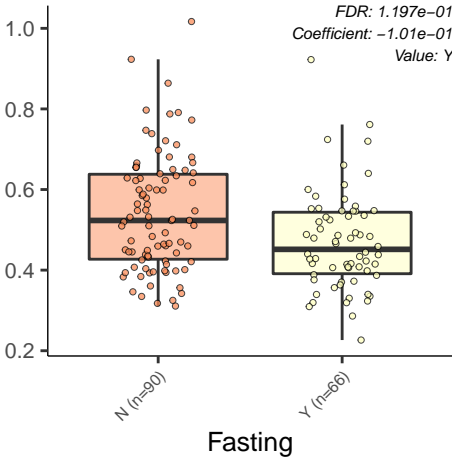
Coefficient: -1.01e-01

Value: Y

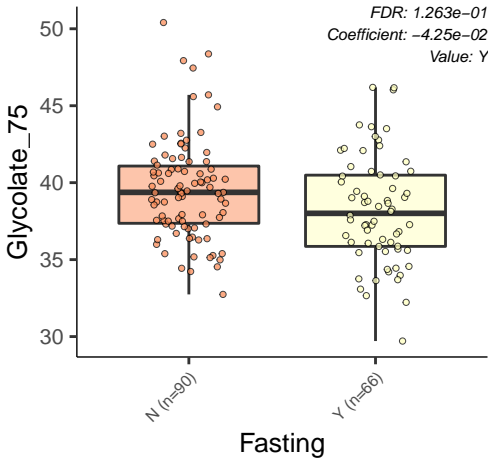
N (n=90)

Y (n=66)

Fasting







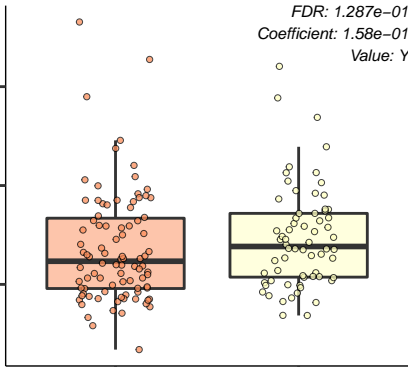
Beta.hydroxyvaleric.Acid\_117.1

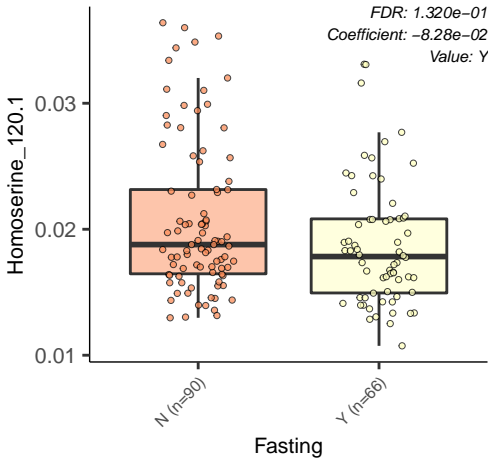
FDR: 1.287e-01  
Coefficient: 1.58e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting





GABA\_104.1

FDR: 1.337e-01

Coefficient:  $-5.51e-02$

Value: Y

0.10

0.09

0.08

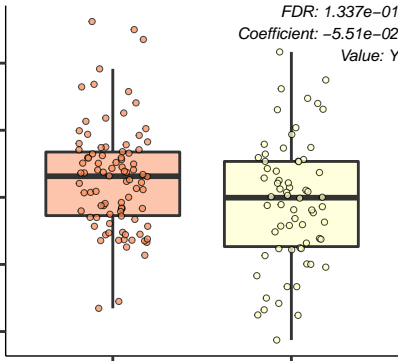
0.07

0.06

N (n=90)

Y (n=66)

Fasting



Octanoic.acid\_143.1

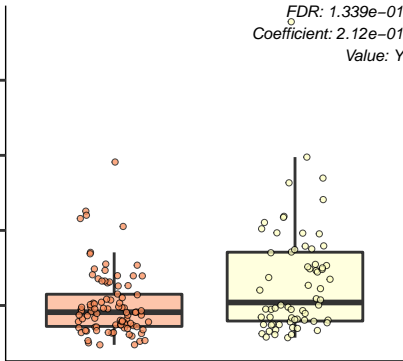
FDR: 1.339e-01  
Coefficient: 2.12e-01  
Value: Y

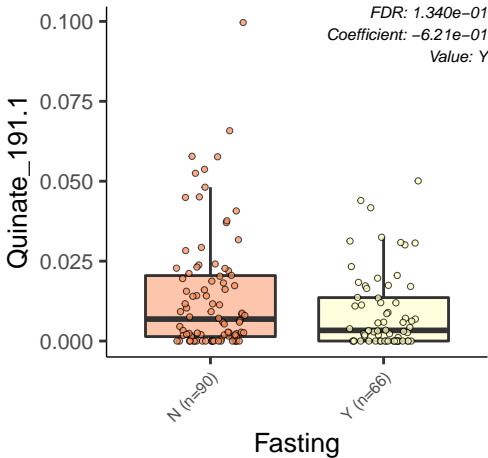
1.00  
0.75  
0.50  
0.25

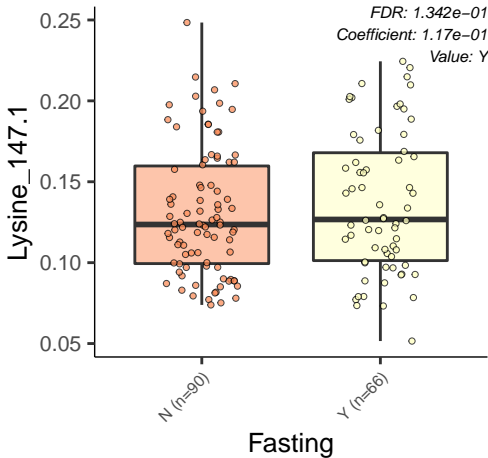
N (n=90)

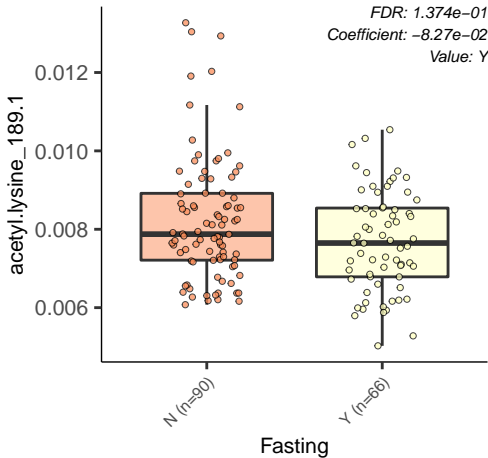
Y (n=66)

Fasting











X2.Deoxy.D.Glucose\_163.1

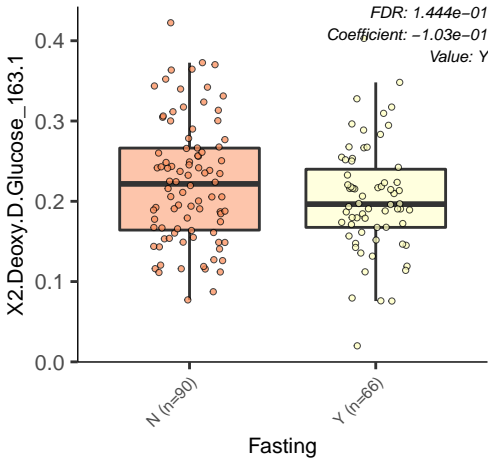
0.4  
0.3  
0.2  
0.1  
0.0

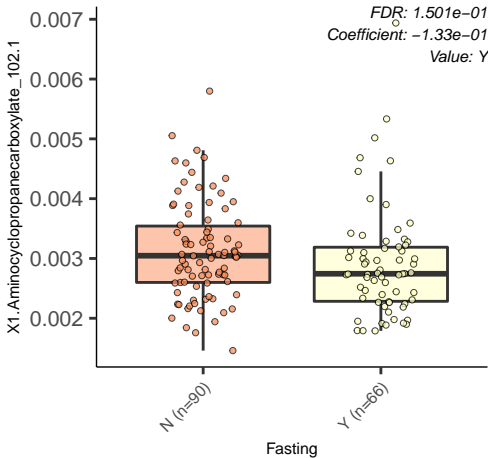
N (n=90)

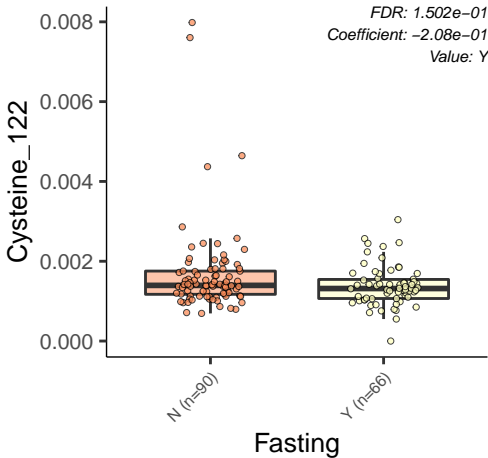
Y (n=66)

Fasting

FDR: 1.444e-01  
Coefficient: -1.03e-01  
Value: Y







X10.HAD\_185.1

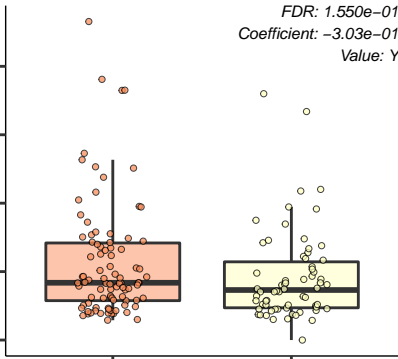
FDR: 1.550e-01  
Coefficient: -3.03e-01  
Value: Y

0.04  
0.03  
0.02  
0.01  
0.00

N (n=90)

Y (n=66)

Fasting



Thiopurine.S.Methylether\_167

0.006

0.004

0.002

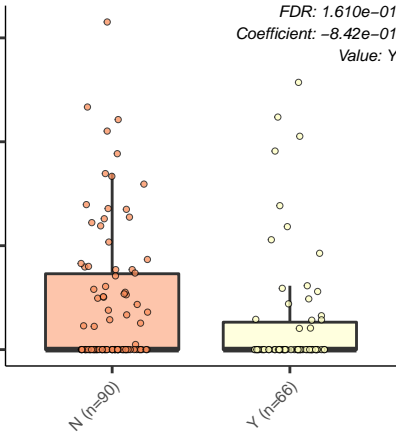
0.000

N (n=90)

Y (n=66)

Fasting

FDR: 1.610e-01  
Coefficient: -8.42e-01  
Value: Y



Azelate\_187.1

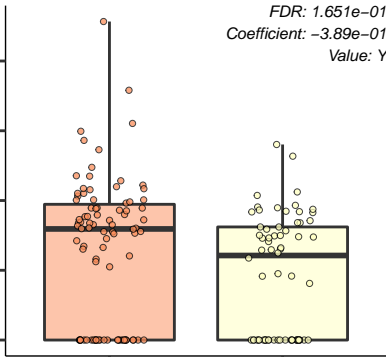
*FDR: 1.651e-01*  
*Coefficient: -3.89e-01*  
*Value: Y*

N (n=90)

Y (n=66)

Fasting

0.004  
0.003  
0.002  
0.001  
0.000



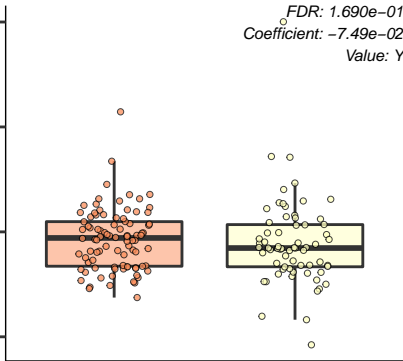
Glucosamine\_180.1

FDR: 1.690e-01  
Coefficient: -7.49e-02  
Value: Y

N (n=90)

Y (n=66)

Fasting



X5.Hydroxylysine\_163.1

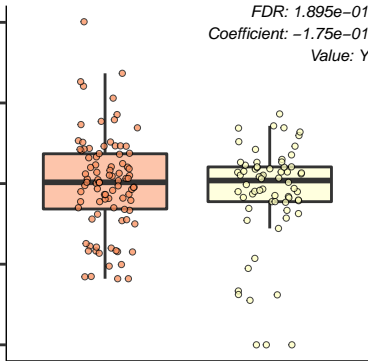
0.00100  
0.00075  
0.00050  
0.00025  
0.00000

*FDR: 1.895e-01*  
*Coefficient: -1.75e-01*  
*Value: Y*

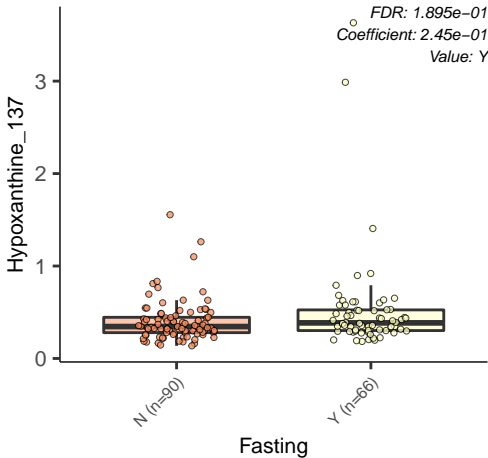
N (n=90)

Y (n=66)

Fasting







N.Acetylasparagine\_175.1

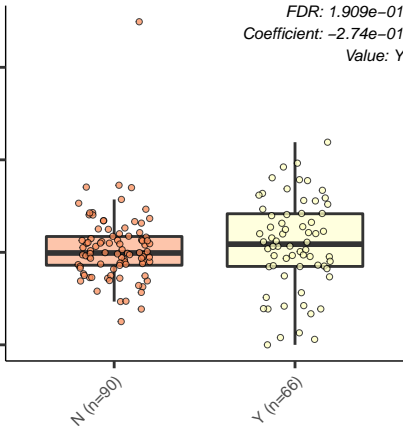
FDR: 1.909e-01  
Coefficient: -2.74e-01  
Value: Y

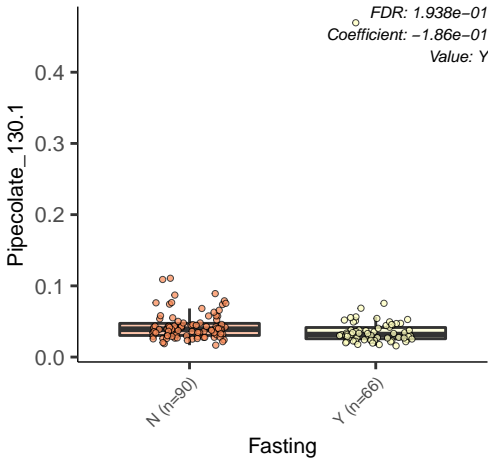
0.06  
0.04  
0.02  
0.00

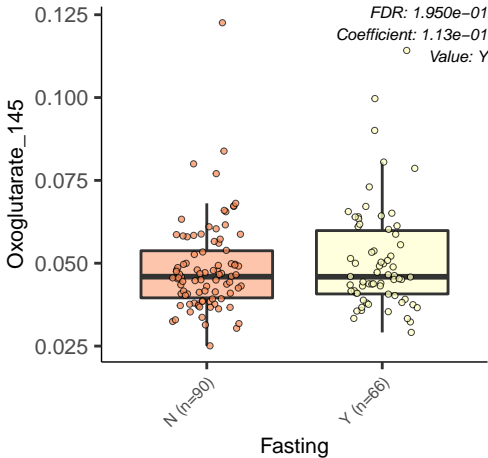
N (n=90)

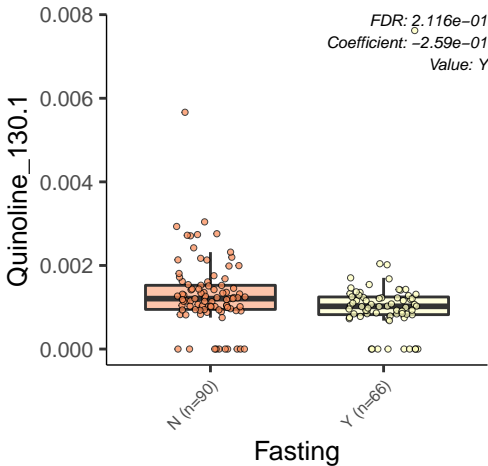
Y (n=66)

Fasting









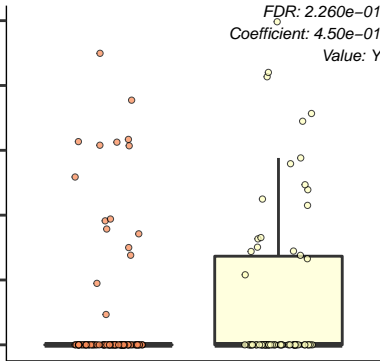
X4.Aminobenzoate\_136

FDR: 2.260e-01  
Coefficient: 4.50e-01  
Value: Y

N (n=90)

Y (n=66)

Fasting



Indole.3.Acetamide\_175.1

*FDR: 2.260e-01*  
*Coefficient: -2.50e-01*  
*Value: Y*

0.06

0.04

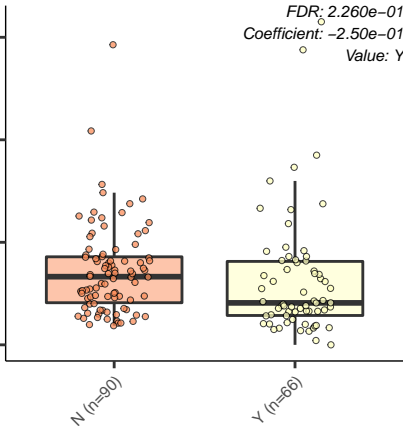
0.02

0.00

N (n=90)

Y (n=66)

Fasting



Xanthine\_153

*FDR: 2.357e-01*  
*Coefficient: 2.62e-01*  
*Value: Y*

0.003

0.002

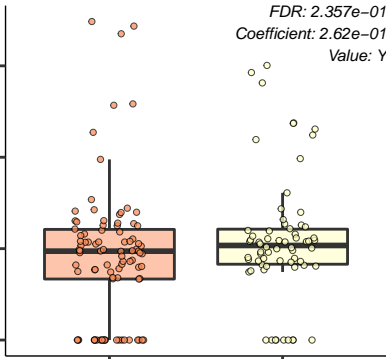
0.001

0.000

N (n=90)

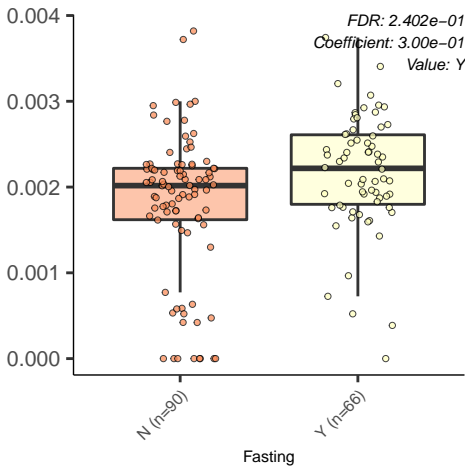
Y (n=66)

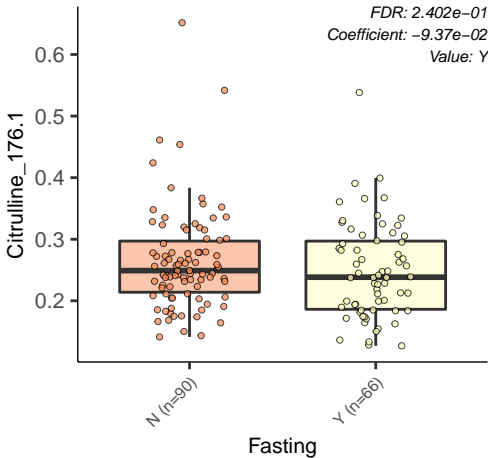
Fasting





X3.4.Dihydroxymandelate\_183





Butyric.acid\_87

FDR: 2.439e-01  
Coefficient: 1.36e-01  
Value: Y

0.15  
0.10  
0.05

N (n=90)

Y (n=66)

Fasting

