

Odoribacter

600

400

200

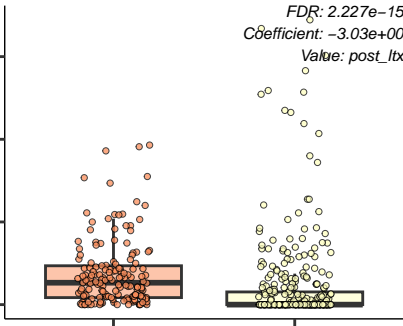
0

healthy (n=161)

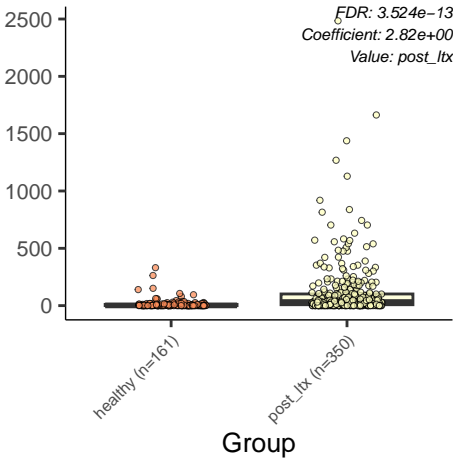
post\_ltx (n=350)

Group

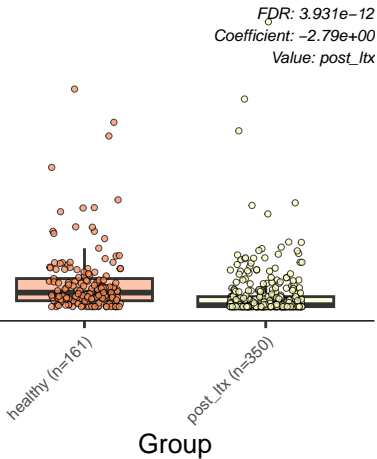
$FDR: 2.227e-15$   
 $Coefficient: -3.03e+00$   
 $Value: post\_ltx$



Haemophilus



Intestinimonas



Veillonella

*FDR: 3.931e-12*  
*Coefficient: 2.80e+00*  
*Value: post\_ltx*

2000

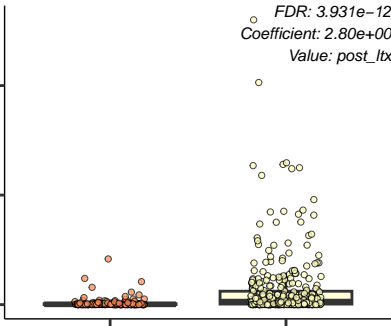
1000

0

healthy (n=161)

post\_ltx (n=350)

Group



Colidextribacter

*FDR: 2.526e-10*

*Coefficient: -2.76e+00*

*Value: post\_ltx*

1500

1000

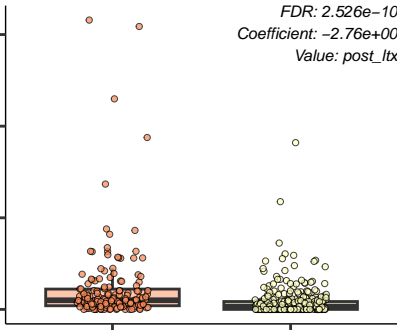
500

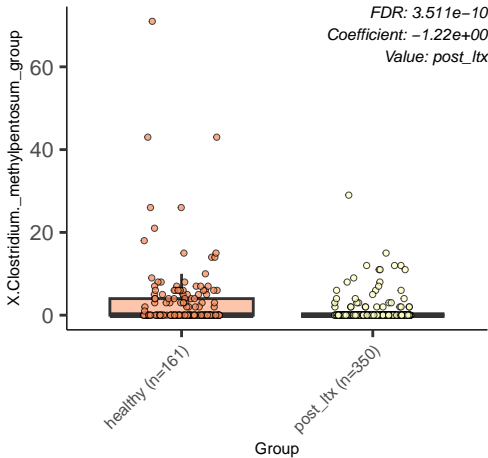
0

healthy (n=161)

post\_ltx (n=350)

Group





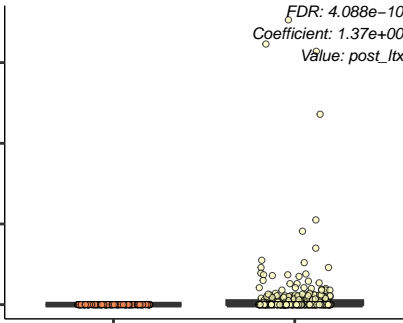
Spingobium

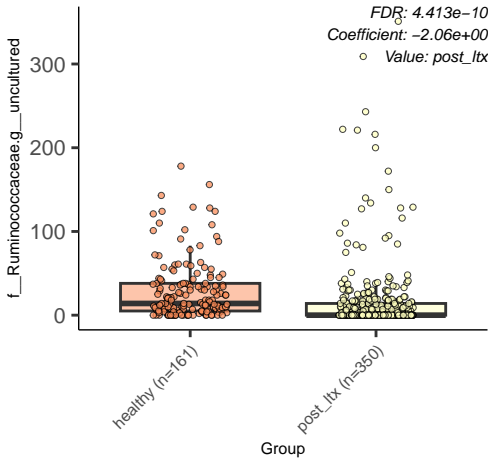
FDR:  $4.088e-10$   
Coefficient:  $1.37e+00$   
Value: *post\_ltx*

healthy (n=161)

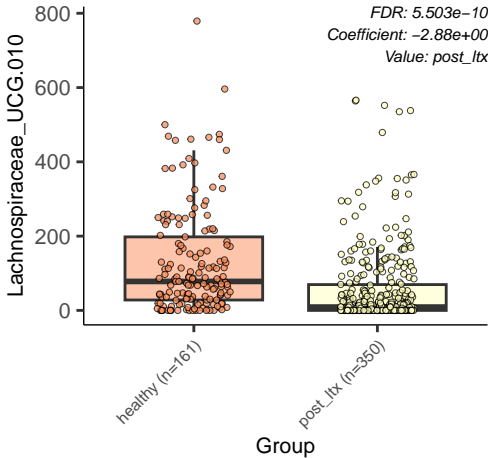
post\_ltx (n=350)

Group









Family\_XIII\_UCG.001

*FDR: 1.155e-09*

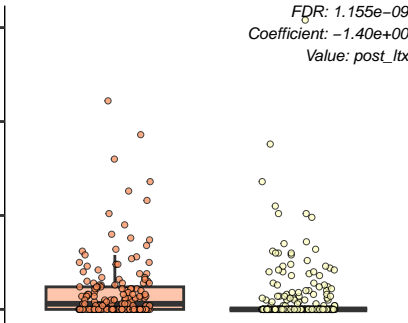
*Coefficient: -1.40e+00*

*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



Lachnoclostridium

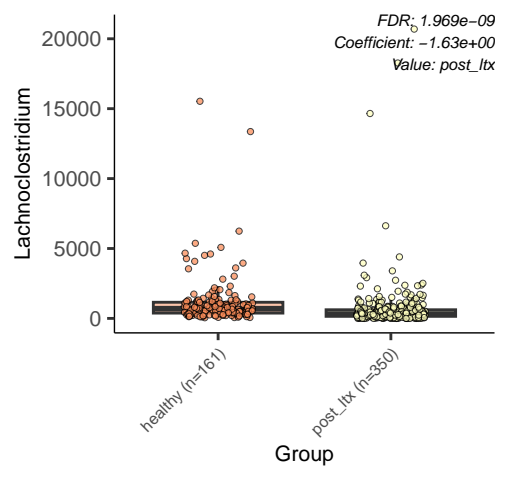
20000  
15000  
10000  
5000  
0

*FDR: 1.969e-09*  
*Coefficient: -1.63e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



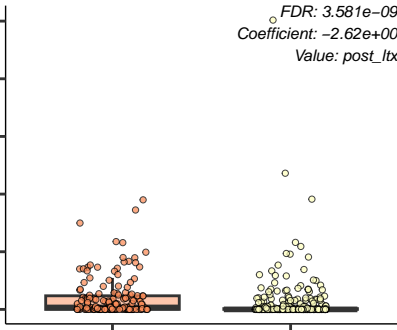
Clostridia\_UCG.014

FDR:  $3.581 \times 10^{-9}$   
Coefficient:  $-2.62 \times 10^0$   
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group



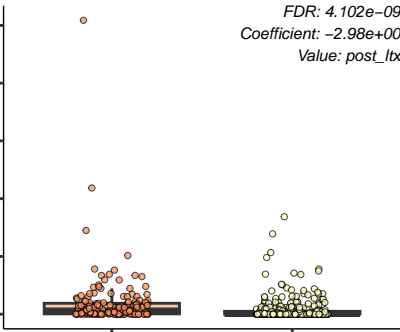
Christensenellaceae\_R.7\_group

*FDR: 4.102e-09*  
*Coefficient: -2.98e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



f\_Oscillospiraceae.g\_\_unassigned

200

100

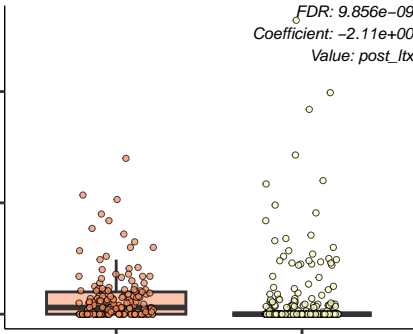
0

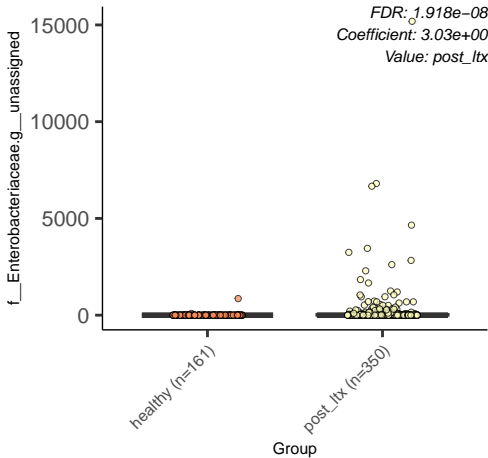
healthy (n=161)

post\_ltx (n=350)

Group

FDR:  $9.856e-09$   
Coefficient:  $-2.11e+00$   
Value: post\_ltx





Streptococcus

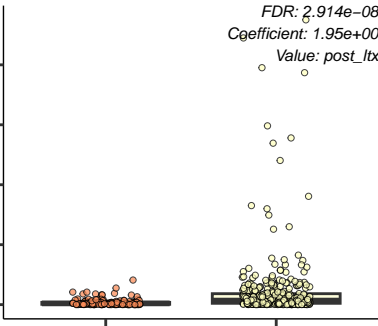
10000  
7500  
5000  
2500  
0

healthy (n=161)

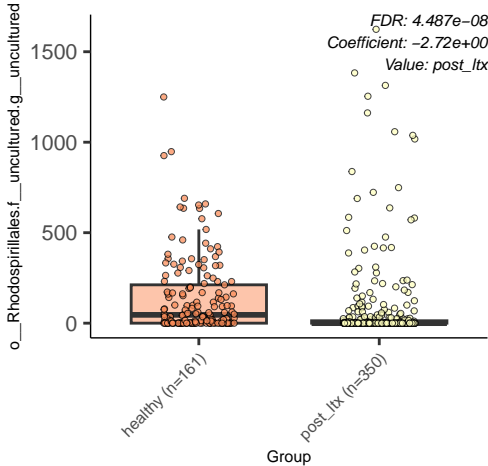
post\_ltx (n=350)

Group

*FDR: 2.914e-08*  
*Coefficient: 1.95e+00*  
*Value: post\_ltx*







Family\_XIII\_AD3011\_group

200

100

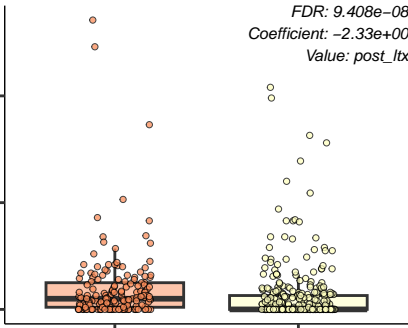
0

healthy (n=161)

post\_ltx (n=350)

Group

*FDR: 9.408e-08*  
*Coefficient: -2.33e+00*  
*Value: post\_ltx*



Enterococcus

FDR:  $9.408 \times 10^{-8}$   
Coefficient:  $2.40 \times 10^0$   
Value: post\_ltx

30000

20000

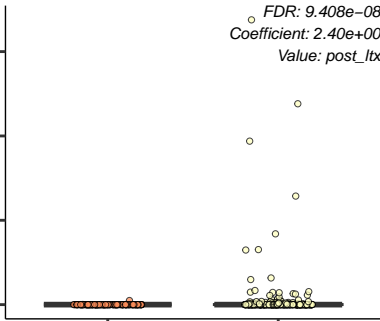
10000

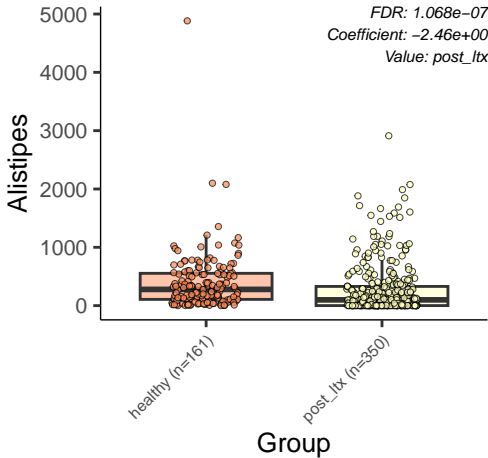
0

healthy (n=161)

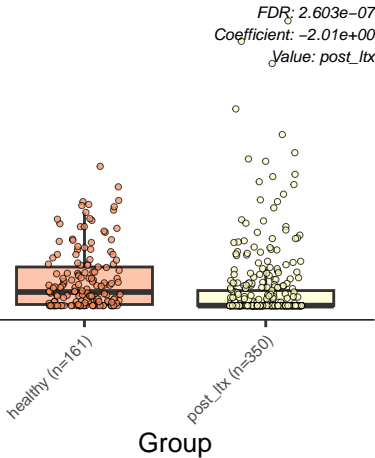
post\_ltx (n=350)

Group





Butyricimonas



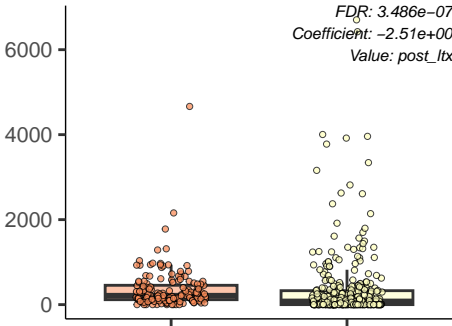
Parabacteroides

*FDR: 3.486e-07*  
*Coefficient: -2.51e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



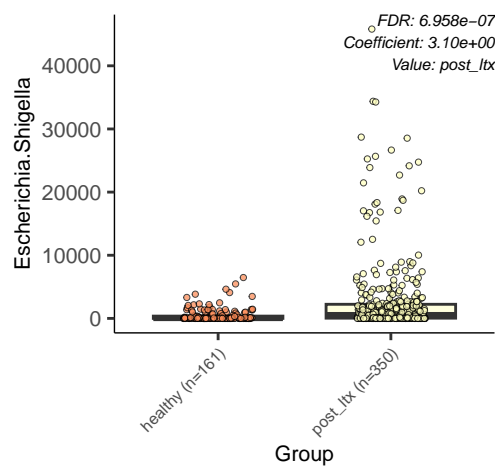
Escherichia.Shigella

FDR:  $6.958e-07$   
Coefficient:  $3.10e+00$   
Value: post\_ltx

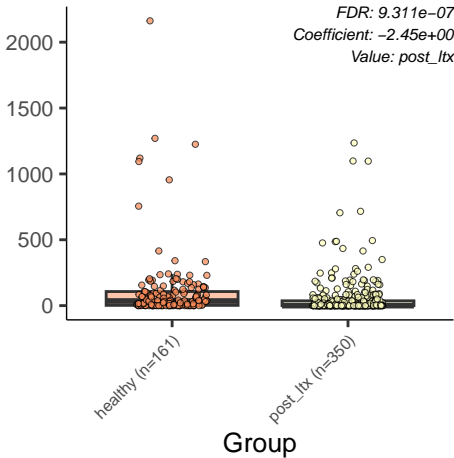
healthy (n=161)

post\_ltx (n=350)

Group



UCG.005





Holdemania

100

50

0

healthy (n=161)

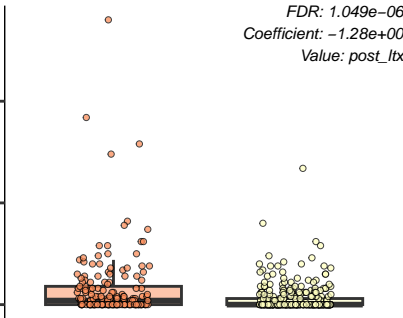
post\_ltx (n=350)

Group

FDR: 1.049e-06

Coefficient: -1.28e+00

Value: post\_ltx



Oscillibacter

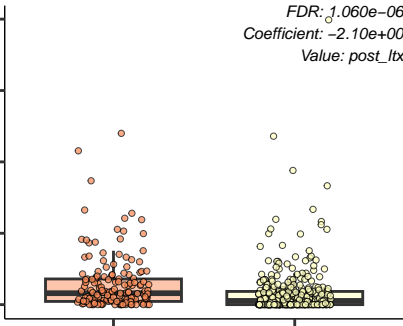
800  
600  
400  
200  
0

healthy (n=161)

post\_ltx (n=350)

Group

*FDR: 1.060e-06*  
*Coefficient: -2.10e+00*  
*Value: post\_ltx*



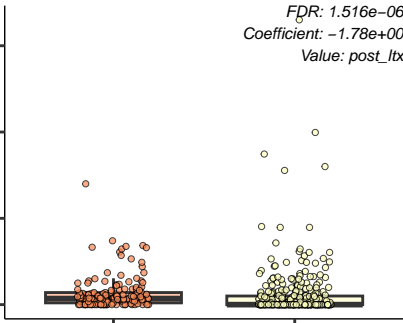
GCA.900066575

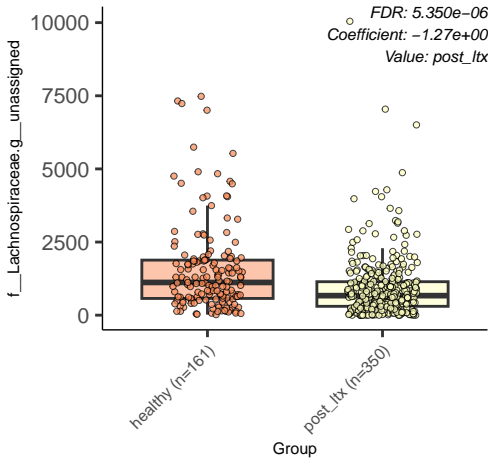
*FDR: 1.516e-06*  
*Coefficient: -1.78e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group





Coprococcus

FDR: 6.276e-06

Coefficient: -2.24e+00

Value: post\_ltx

3000

2000

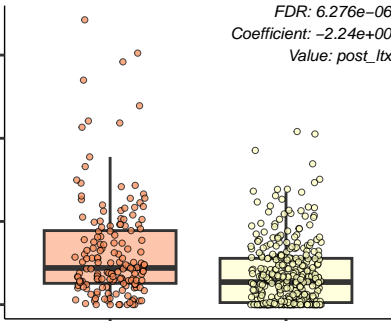
1000

0

healthy (n=161)

post\_ltx (n=350)

Group



Marvinbryantia

400

200

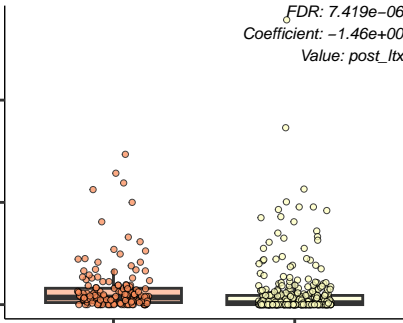
0

healthy (n=161)

post\_ltx (n=350)

Group

FDR:  $7.419 \times 10^{-6}$   
Coefficient:  $-1.46 \times 10^0$   
Value: post\_ltx



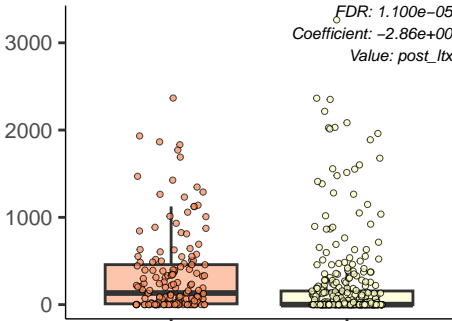
Barnesiella

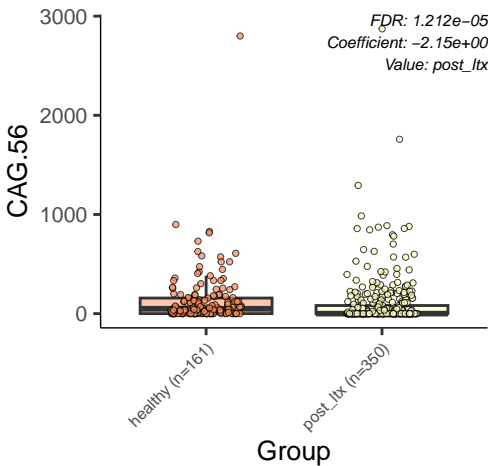
FDR:  $1.100e-05$   
Coefficient:  $-2.86e+00$   
Value: *post\_ltx*

healthy (n=161)

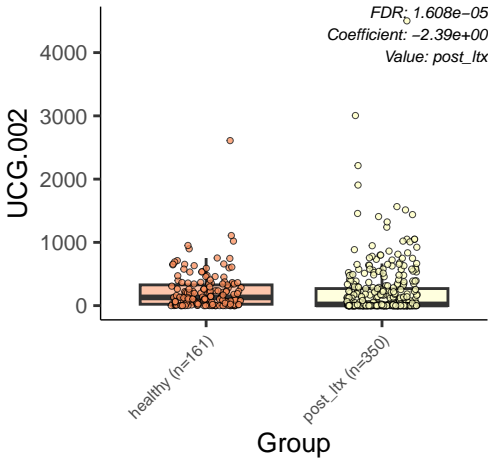
post\_ltx (n=350)

Group









Phascolarctobacterium

*FDR: 1.608e-05*  
*Coefficient: -2.44e+00*  
*Value: post\_ltx*

3000

2000

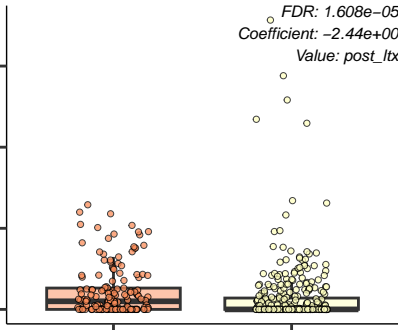
1000

0

healthy (n=161)

post\_ltx (n=350)

Group



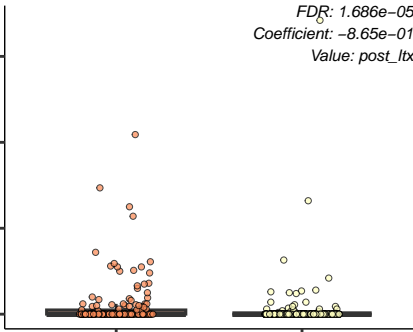
f\_\_Peptococcaceae.g\_\_uncultured

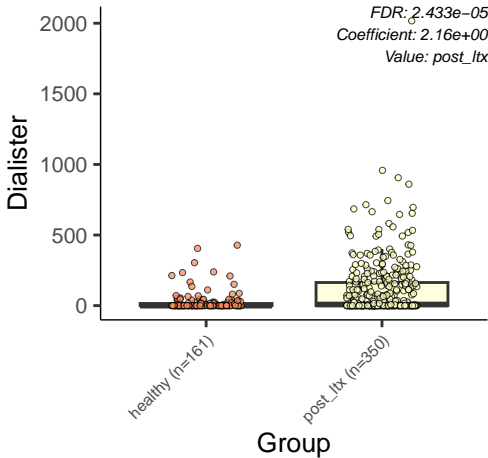
FDR:  $1.686e-05$   
Coefficient:  $-8.65e-01$   
Value: post\_ltx

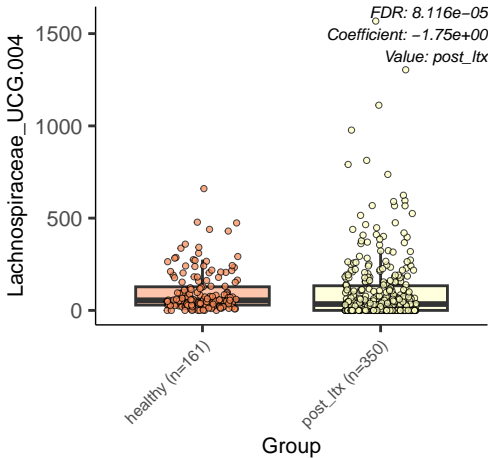
healthy (n=161)

post\_ltx (n=350)

Group







Lachnospiraceae\_NK4A136\_group

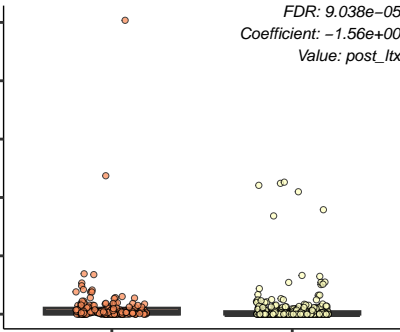
2500  
2000  
1500  
1000  
500  
0

*FDR: 9.038e-05*  
*Coefficient: -1.56e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



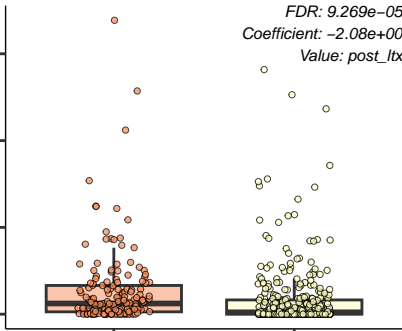
Erysipelotrichaceae\_UCG.003

*FDR: 9.269e-05*  
*Coefficient: -2.08e+00*  
*Value: post\_ltx*

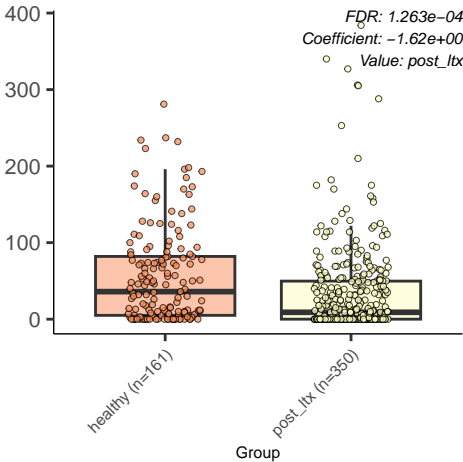
healthy (n=161)

post\_ltx (n=350)

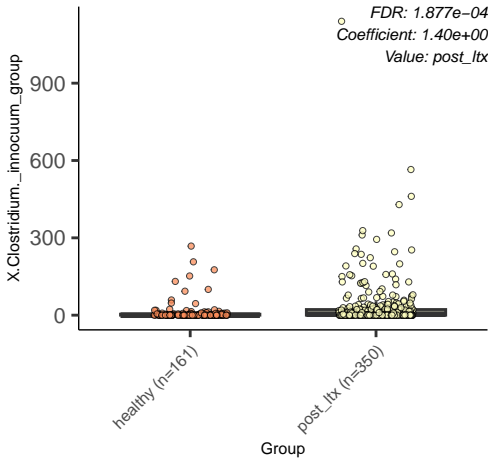
Group



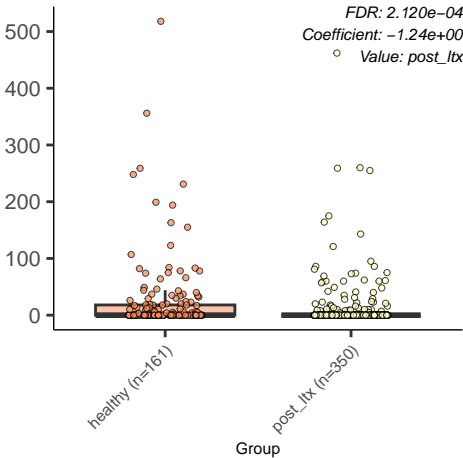
f\_Oscillospiraceae.g\_\_uncultured

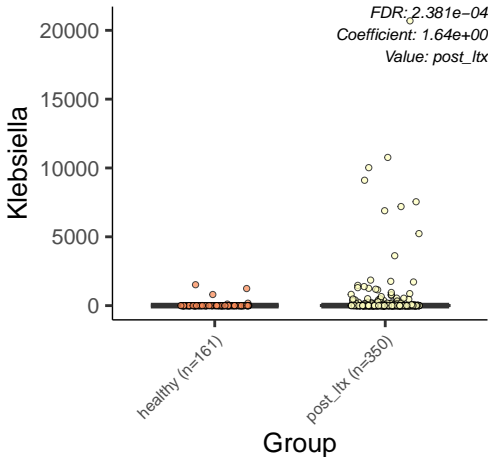




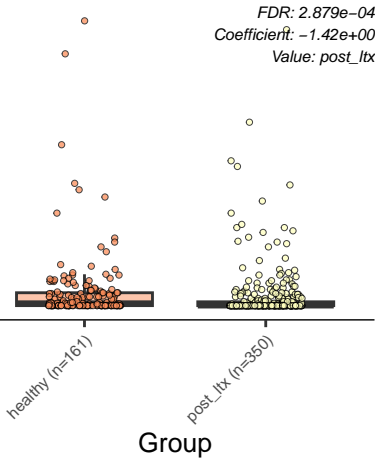


f\_Eggerthellaceae.g\_\_uncultured





Adlercreutzia



f\_\_Christensenellaceae.g\_\_unassigned

1000

500

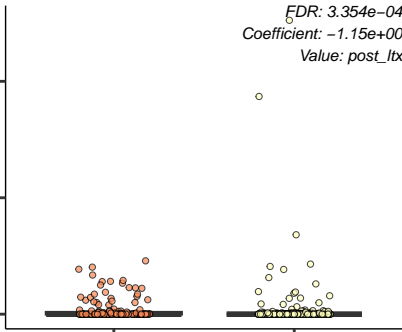
0

healthy (n=161)

post\_ltx (n=350)

Group

FDR:  $3.354e-04$   
Coefficient:  $-1.15e+00$   
Value: post\_ltx



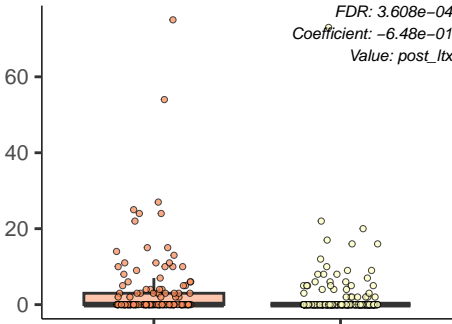
UCG.009

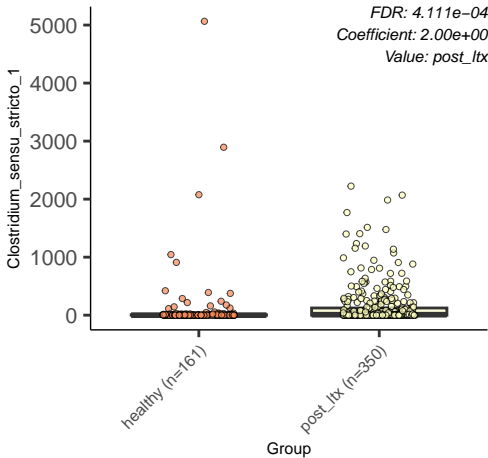
*FDR: 3.608e-04*  
*Coefficient: -6.48e-01*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group





Negativibacillus

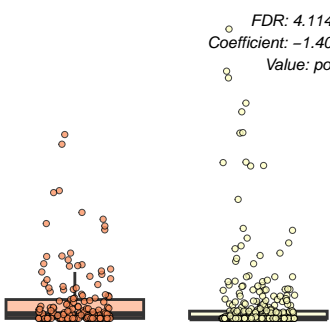
600  
400  
200  
0

healthy (n=161)

post\_ltx (n=350)

Group

*FDR: 4.114e-04*  
*Coefficient: -1.40e+00*  
*Value: post\_ltx*





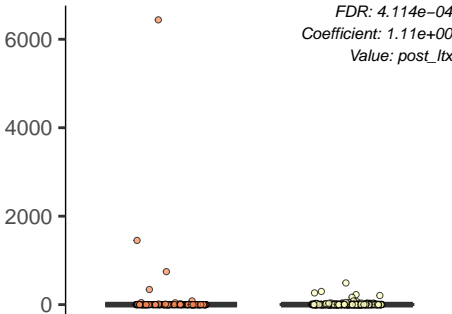
Pseudomonas

FDR:  $4.114 \times 10^{-4}$   
Coefficient:  $1.11 \times 10^0$   
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group



Fusicatenibacter

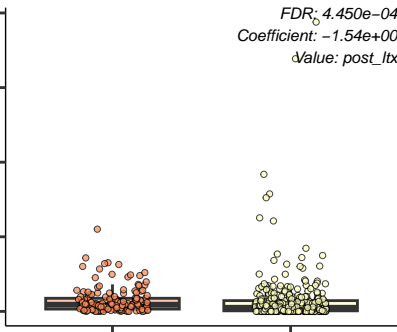
8000  
6000  
4000  
2000  
0

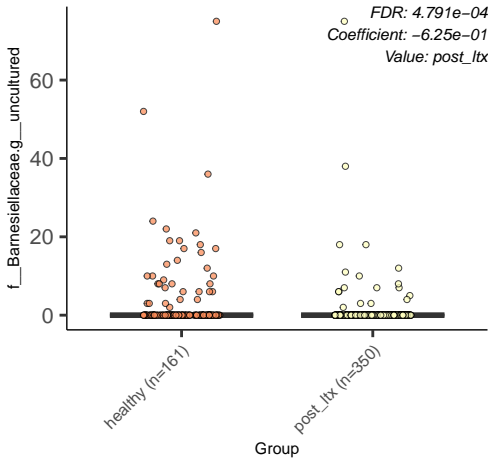
*FDR: 4.450e-04*  
*Coefficient: -1.54e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group





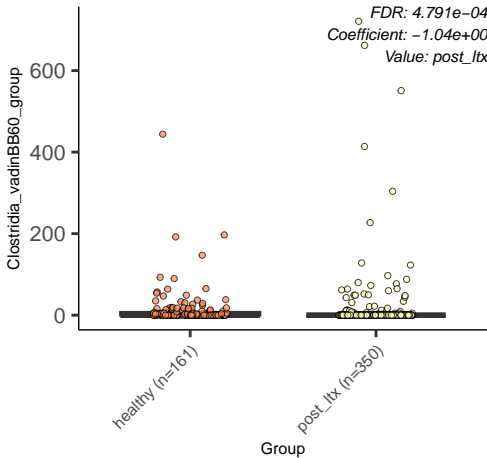
Clostridia\_vadinBB60\_group

FDR: 4.791e-04  
Coefficient: -1.04e+00  
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group



Bilophila

900

600

300

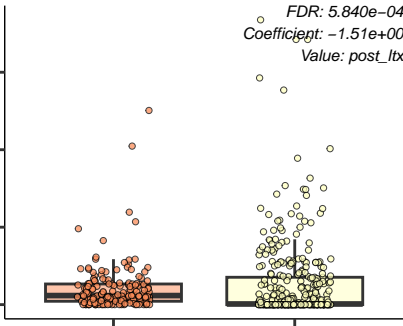
0

healthy (n=161)

post\_ltx (n=350)

Group

*FDR: 5.840e-04*  
*Coefficient: -1.51e+00*  
*Value: post\_ltx*



Paraprevotella

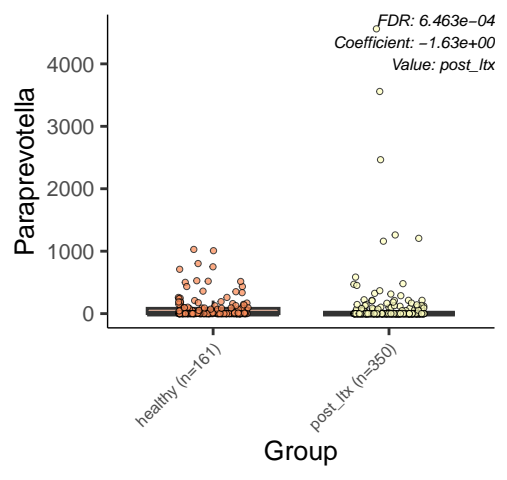
FDR:  $6.463 \times 10^{-4}$   
Coefficient:  $-1.63 \times 10^0$   
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group

4000  
3000  
2000  
1000  
0





FDR: 6.463e-04

Coefficient: 6.31e-01

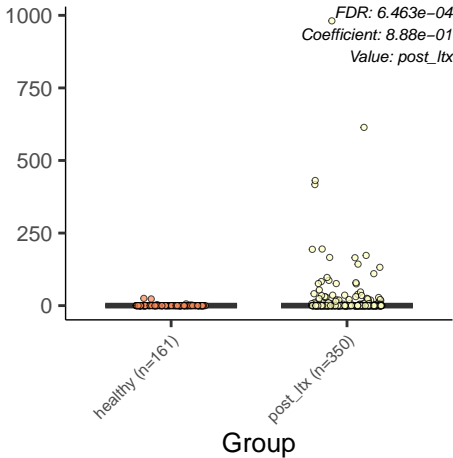
Value: *post\_ltx*

healthy (n=161)

post\_ltx (n=350)

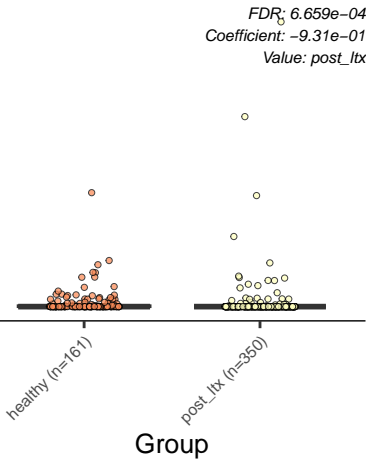
Group

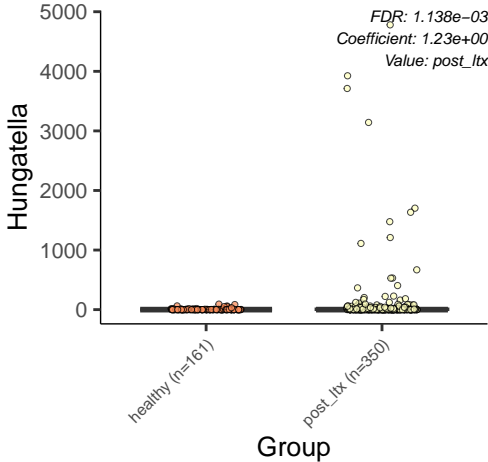
Lactobacillus

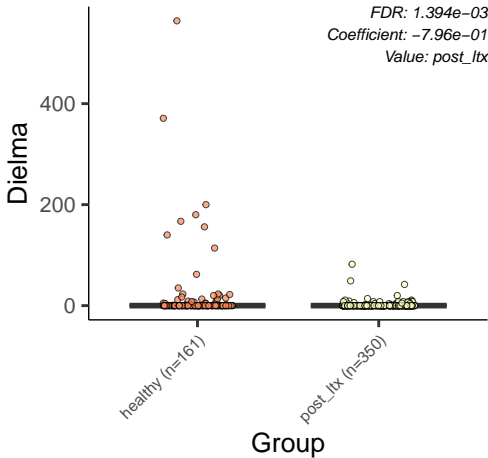




# Muribaculaceae







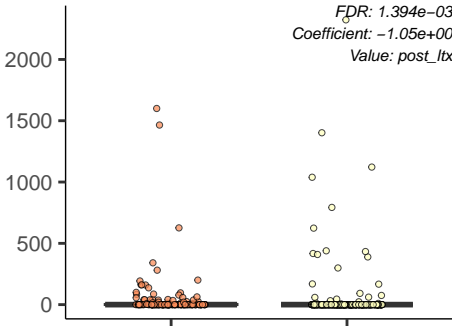
CAG.352

*FDR: 1.394e-03*  
*Coefficient: -1.05e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



Faecalibacterium

healthy (n=161)

post\_ltx (n=350)

Group

FDR:  $1.424e-03$   
Coefficient:  $-1.42e+00$   
Value: post\_ltx

20000

15000

10000

5000

0

Candidatus\_Soleaferrea

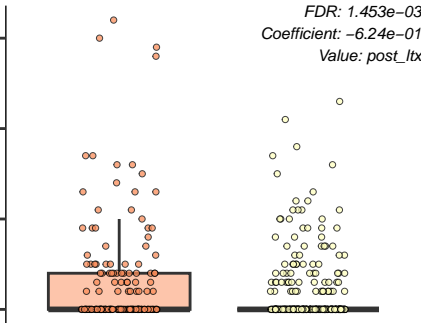
30  
20  
10  
0

healthy (n=161)

post\_ltx (n=350)

Group

FDR:  $1.453e-03$   
Coefficient:  $-6.24e-01$   
Value: post\_ltx



Fusobacterium

FDR:  $1.548e-03$   
Coefficient:  $1.54e+00$   
Value: *post\_ltx*

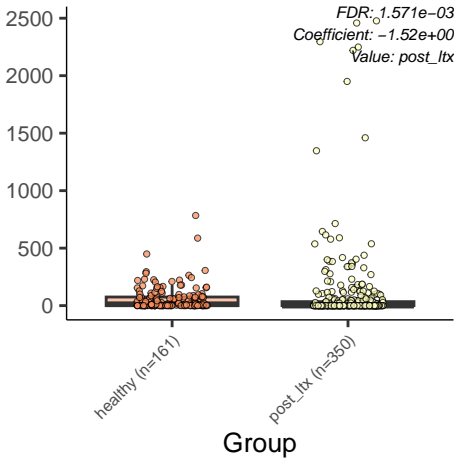
healthy (n=161)

post\_ltx (n=350)

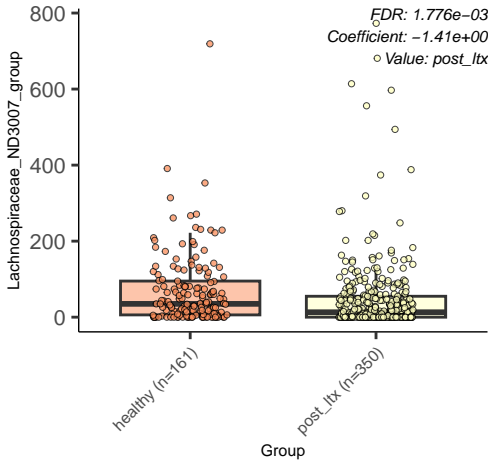
Group

9000  
6000  
3000  
0

Coprobacter







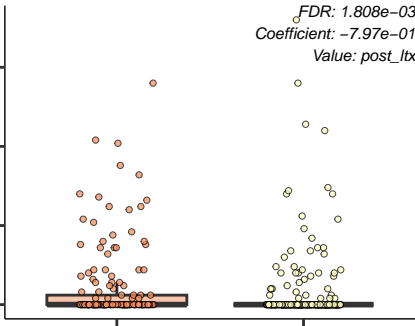
Enterorhabdus

FDR:  $1.808e-03$   
Coefficient:  $-7.97e-01$   
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group



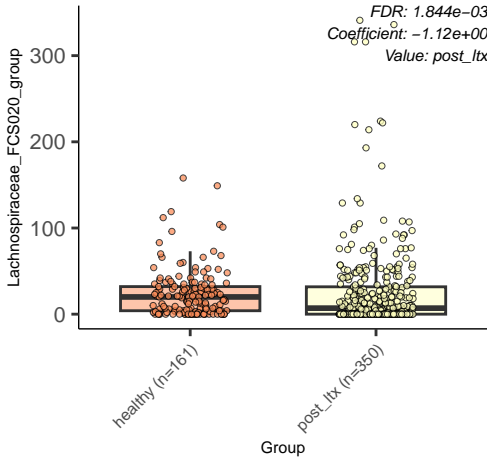
Lachnospiraceae\_FCS020\_group

FDR:  $1.844\text{e-}03$   
Coefficient:  $-1.12\text{e}+00$   
Value: *post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



Pseudoflavonifractor

*FDR: 2.722e-03*

*Coefficient: -5.70e-01*

*Value: post\_ltx*

100

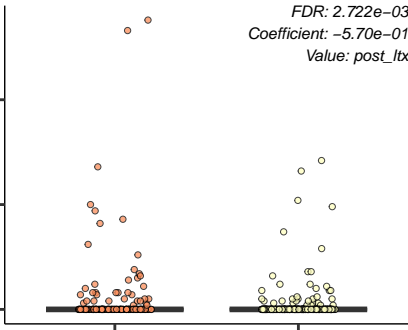
50

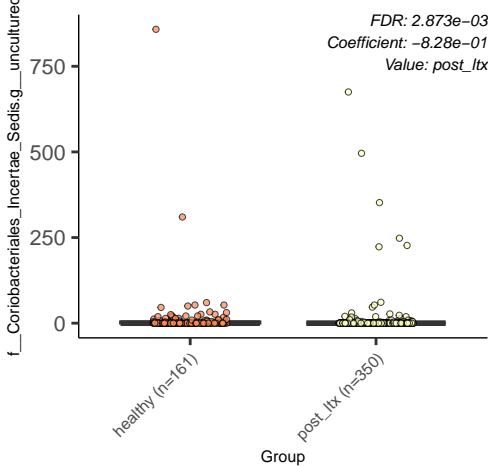
0

healthy (n=161)

post\_ltx (n=350)

Group





Gordonibacter

*FDR: 3.303e-03*

*Coefficient: -7.46e-01*

*Value: post\_ltx*

200

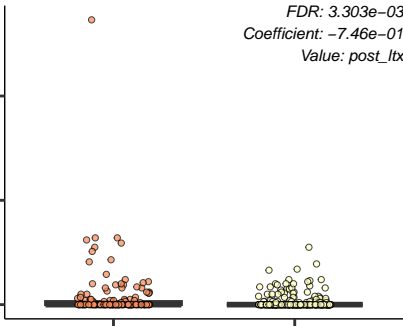
100

0

healthy (n=161)

post\_ltx (n=350)

Group



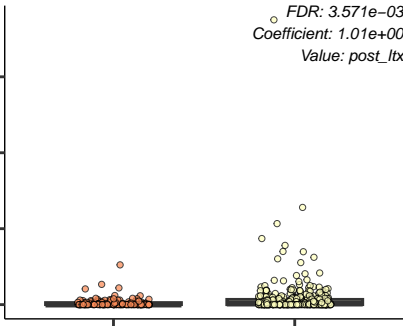
Actinomyces

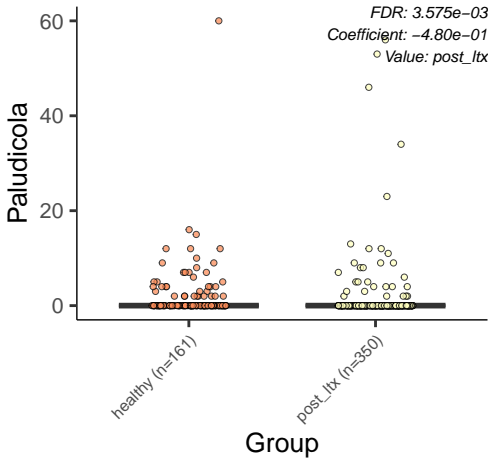
*FDR: 3.571e-03*  
*Coefficient: 1.01e+00*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

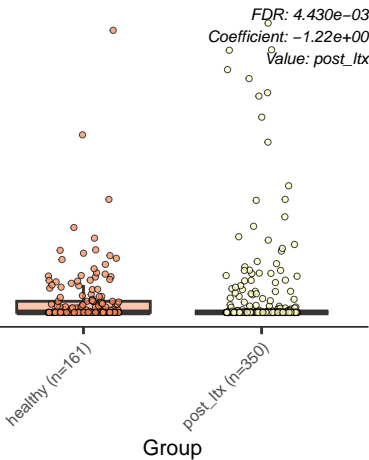
Group



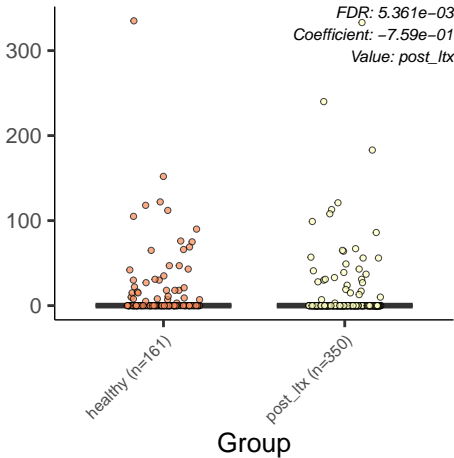




Gastranaerophilales



Howardella



Sutterella

*FDR: 5.804e-03*

*Coefficient: -1.55e+00*

*Value: post\_ltx*

9000

6000

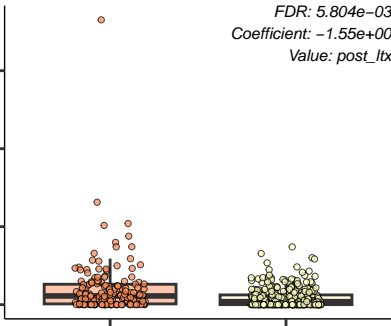
3000

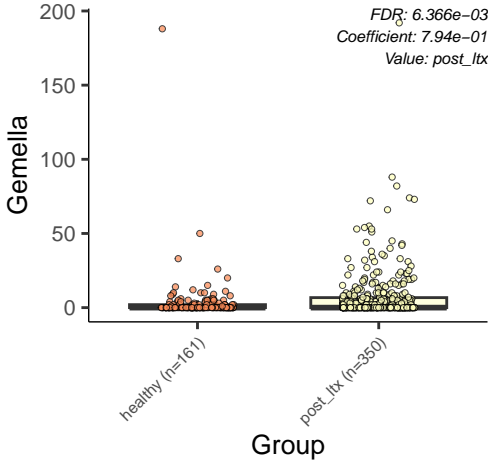
0

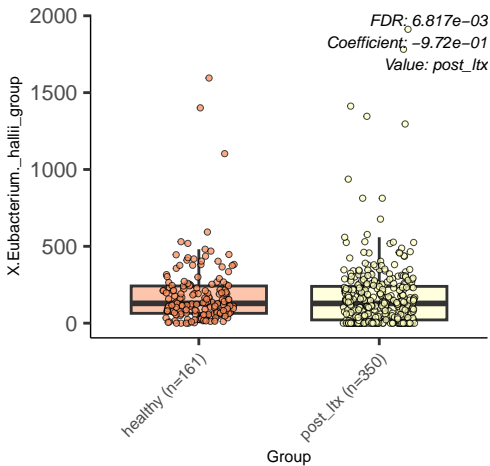
healthy (n=161)

post\_ltx (n=350)

Group







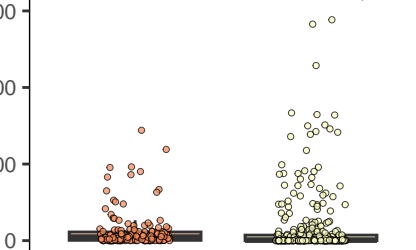
Ruminococcus

healthy (n=161)

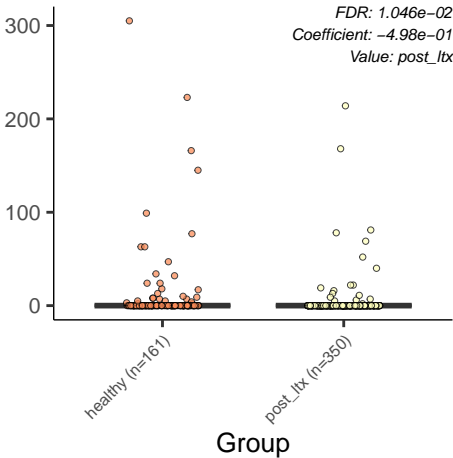
post\_ltx (n=350)

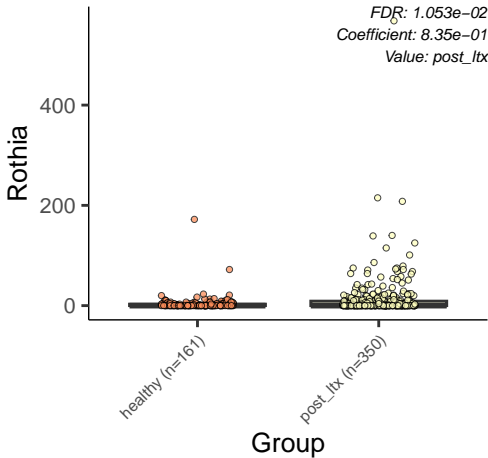
Group

FDR:  $8.243 \times 10^{-3}$   
Coefficient:  $-1.34 \times 10^0$   
Value: post\_ltx



Tannerellaceae







Senegalimassilia

400

200

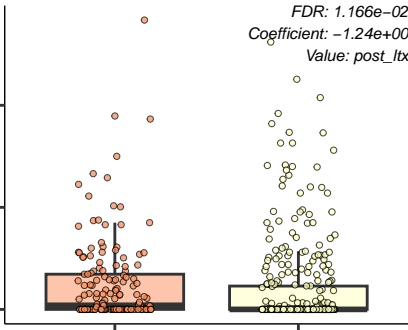
0

healthy (n=161)

post\_ltx (n=350)

Group

*FDR: 1.166e-02*  
*Coefficient: -1.24e+00*  
*Value: post\_ltx*



UCG.003

FDR:  $1.193 \times 10^{-2}$   
Coefficient:  $-9.65 \times 10^{-1}$   
Value: post\_ltx

1000

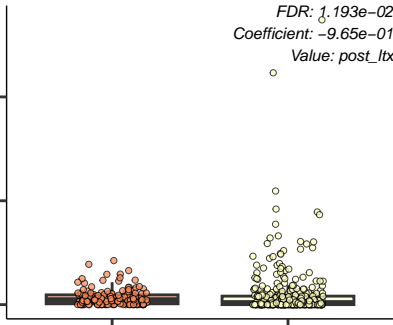
500

0

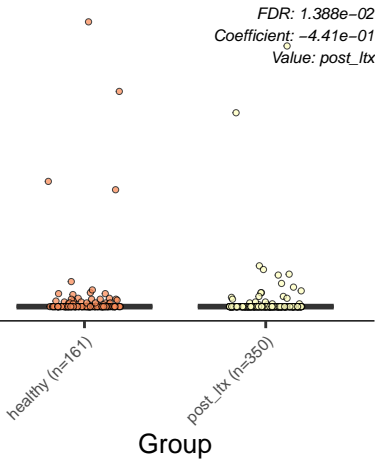
healthy (n=161)

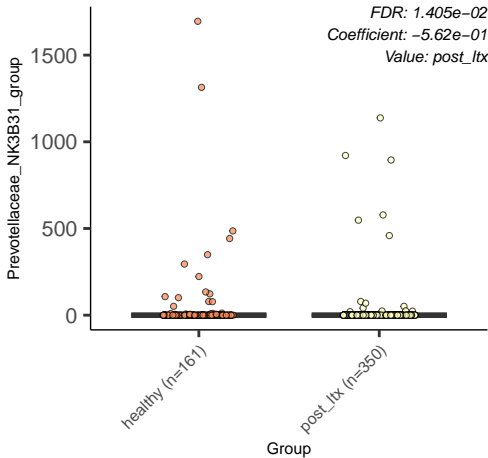
post\_ltx (n=350)

Group



Anaerofilum





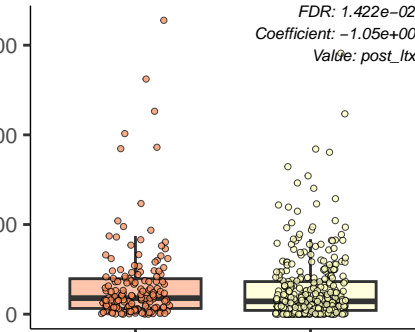
X.Ruminococcus\_torques\_group

FDR:  $1.422e-02$   
Coefficient:  $-1.05e+00$   
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group



Parasutterella

FDR:  $1.572e-02$   
Coefficient:  $-1.30e+00$   
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group

2000

1000

0

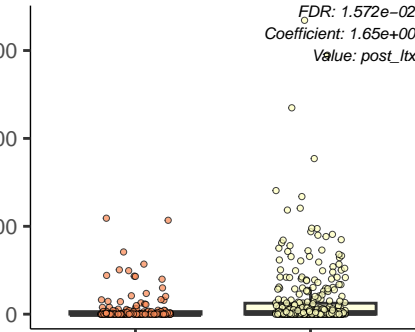
X.Ruminococcus\_gnavus\_group

FDR: 1.572e-02  
Coefficient: 1.65e+00  
Value: post\_ltx

healthy (n=161)

post\_ltx (n=350)

Group



Bacteroides

30000

20000

10000

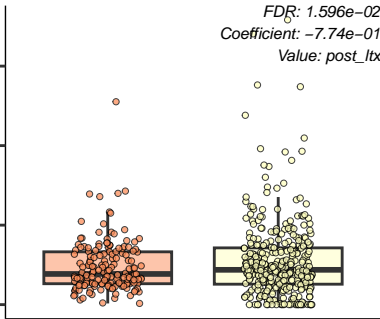
0

healthy (n=161)

post\_ltx (n=350)

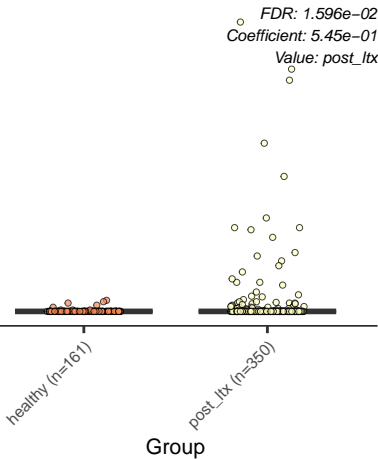
Group

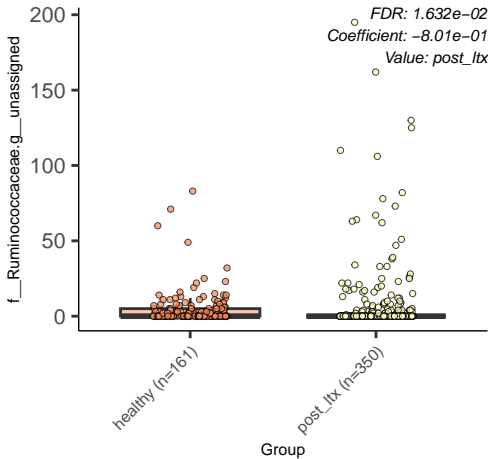
*FDR: 1.596e-02*  
*Coefficient: -7.74e-01*  
*Value: post\_ltx*





Ligilactobacillus





Butyricoccus

1000

500

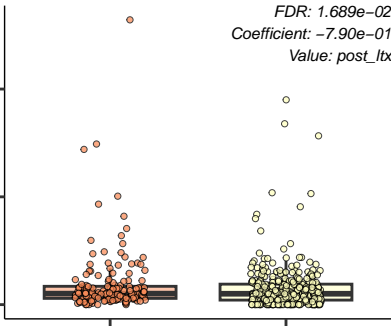
0

healthy (n=161)

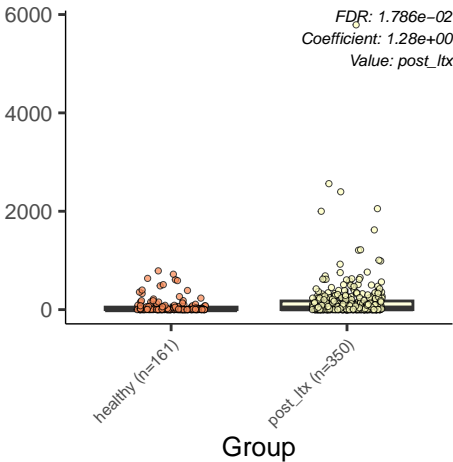
post\_ltx (n=350)

Group

*FDR: 1.689e-02*  
*Coefficient: -7.90e-01*  
*Value: post\_ltx*



Intestinibacter



Collinsella

4000

2000

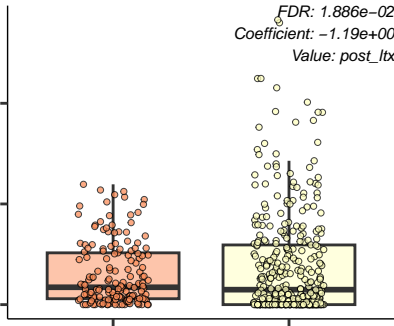
0

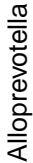
healthy (n=161)

post\_ltx (n=350)

Group

*FDR: 1.886e-02*  
*Coefficient: -1.19e+00*  
*Value: post\_ltx*





*FDR: 2.255e-02*

Coefficient:  $-8.98e-01$

Value: post\_ltx



Group

Staphylococcus

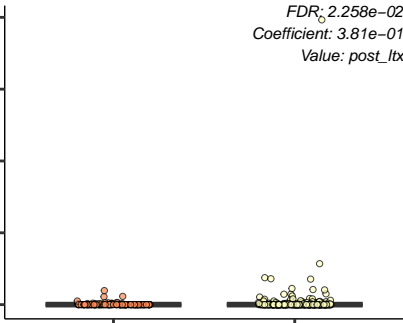
800  
600  
400  
200  
0

*FDR: 2.258e-02*  
*Coefficient: 3.81e-01*  
*Value: post\_ltx*

healthy (n=161)

post\_ltx (n=350)

Group



RF39

healthy (n=161)

post\_ltx (n=350)

Group

FDR: 2.450e-02  
Coefficient: -6.00e-01  
Value: post\_ltx

150

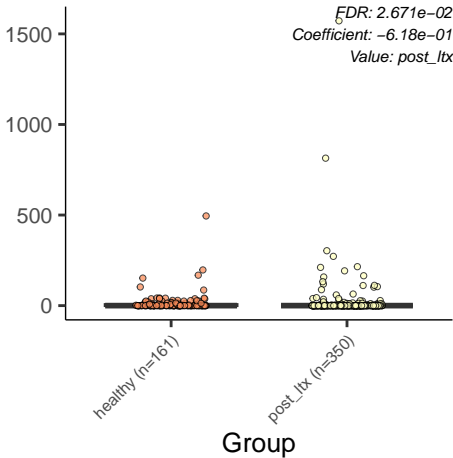
100

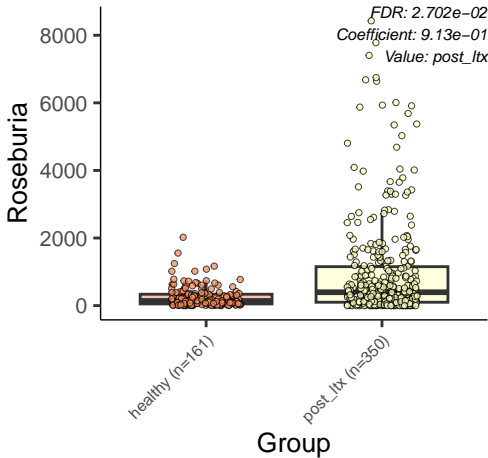
50

0



UCG.010





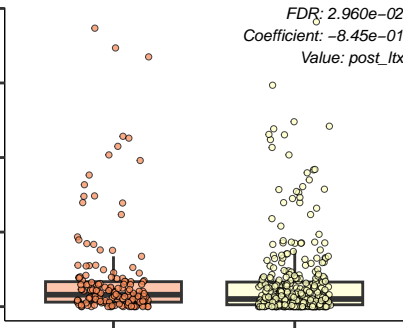
Flavonifractor

*FDR: 2.960e-02*  
*Coefficient: -8.45e-01*  
*Value: post\_ltx*

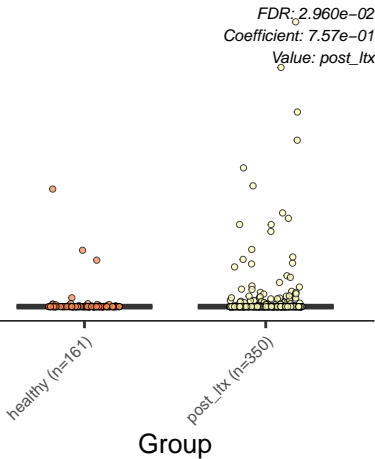
healthy (n=161)

post\_ltx (n=350)

Group



Faecalitalea



Akkermansia

10000

5000

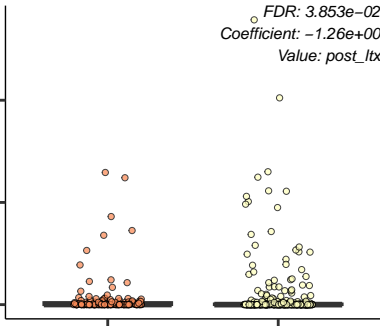
0

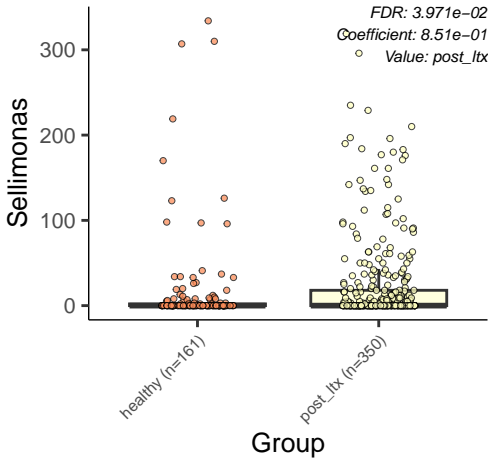
healthy (n=161)

post\_ltx (n=350)

Group

FDR:  $3.853e-02$   
Coefficient:  $-1.26e+00$   
Value: post\_ltx





Tuzzerella

