

Clostridia\_UCG.014

*FDR: 8.179e-15*

*Coefficient: -3.86e+00*

*Value: pre\_ltx*

750

500

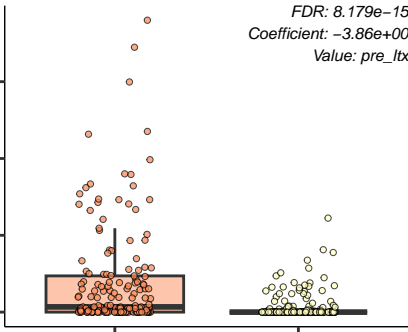
250

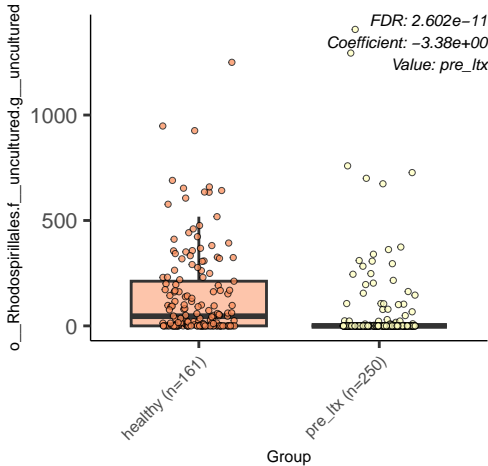
0

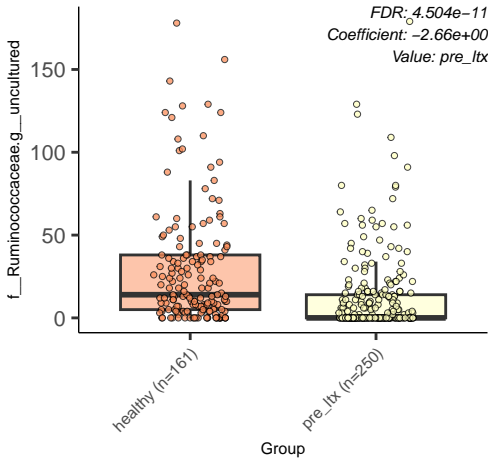
healthy (n=161)

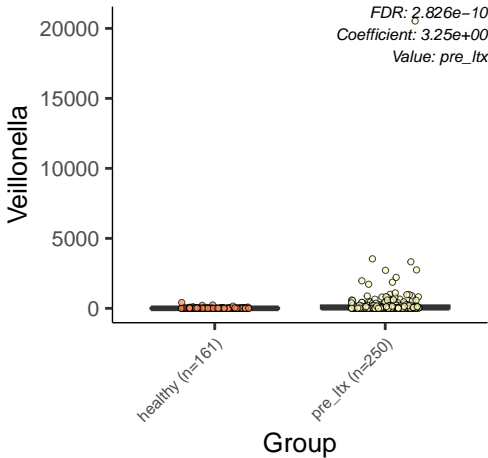
pre\_ltx (n=250)

Group









Parabacteroides

*FDR: 4.632e-10*

*Coefficient: -3.41e+00*

*Value: pre\_ltx*

4000

3000

2000

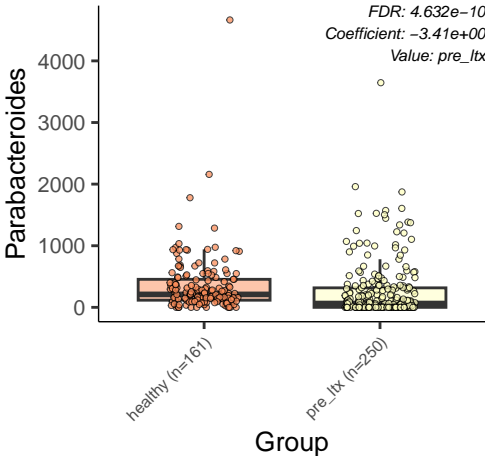
1000

0

healthy (n=161)

pre\_ltx (n=250)

Group



Butyricimonas

healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $9.128 \times 10^{-10}$   
Coefficient:  $-2.47 \times 10^0$   
Value: pre\_ltx

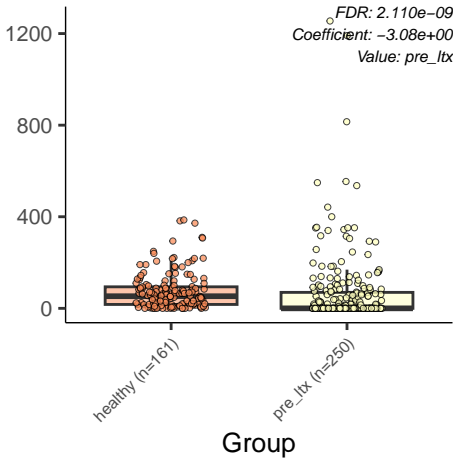
300

200

100

0

Odoribacter



Lachnospiraceae\_UCG.010

FDR:  $2.414e-09$

Coefficient:  $-3.31e+00$

Value: *pre\_ltx*

1000

750

500

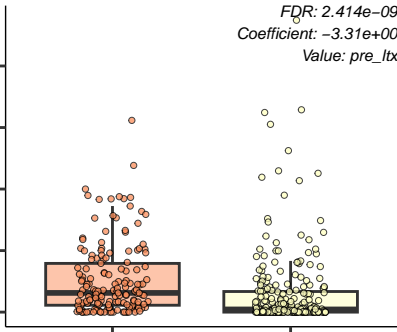
250

0

healthy (n=161)

pre\_ltx (n=250)

Group





Holdmania

100

50

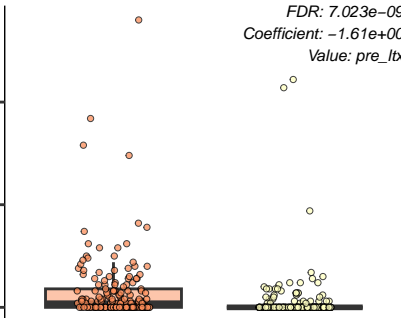
0

healthy (n=161)

pre\_ltx (n=250)

Group

*FDR: 7.023e-09*  
*Coefficient: -1.61e+00*  
*Value: pre\_ltx*



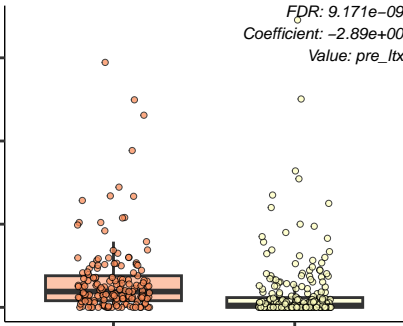
Intestinimonas

FDR:  $9.171\text{e-}09$   
Coefficient:  $-2.89\text{e}+00$   
Value: *pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group



Coprococcus

healthy (n=161)

pre\_ltx (n=250)

Group

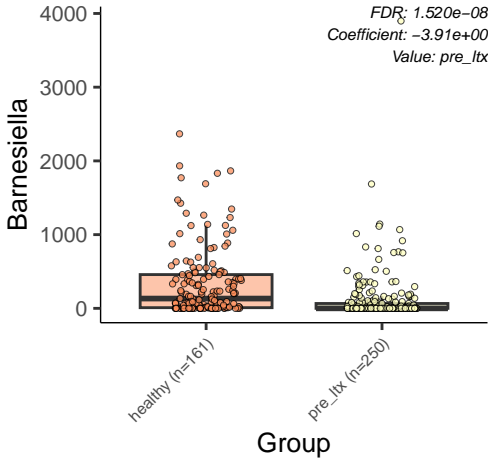
*FDR: 1.101e-08*  
*Coefficient: -2.46e+00*  
*Value: pre\_ltx*

3000

2000

1000

0



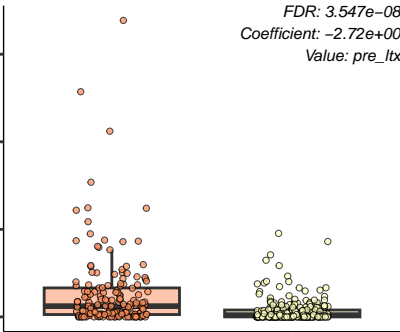
Erysipelotrichaceae\_UCG.003

*FDR: 3.547e-08*  
*Coefficient: -2.72e+00*  
*Value: pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group



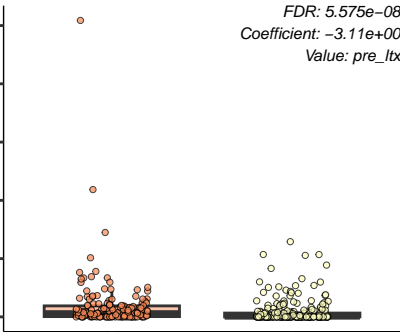
Christensenellaceae\_R.7\_group

*FDR: 5.575e-08*  
*Coefficient: -3.11e+00*  
*Value: pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group



Lachnoclostridium

15000

10000

5000

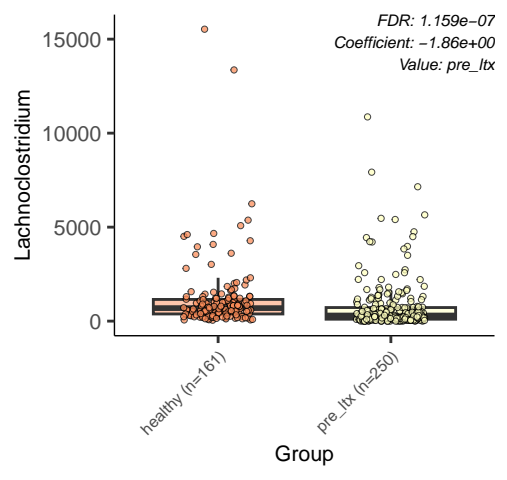
0

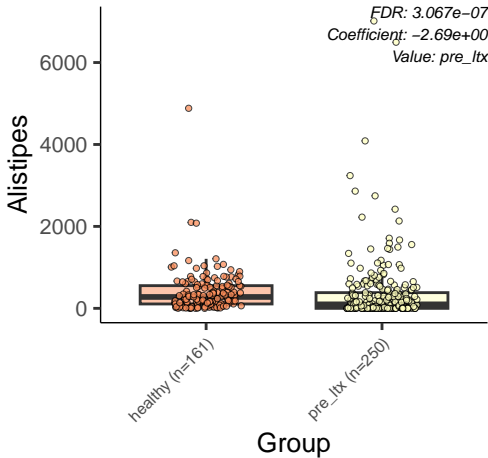
healthy (n=161)

pre\_ltx (n=250)

Group

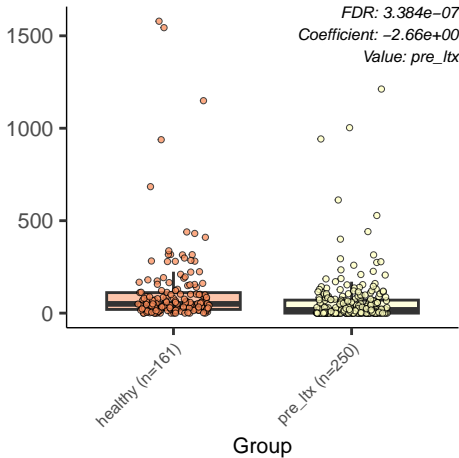
*FDR: 1.159e-07*  
*Coefficient: -1.86e+00*  
*Value: pre\_ltx*







Colidextribacter





*FDR*: 3.424e-07

Coefficient: 2.62e+00

Value: *pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group

Family\_XIII\_UCG.001

*FDR: 3.797e-07*

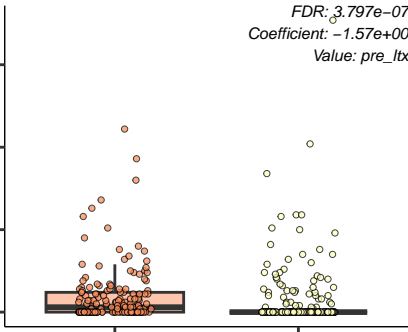
*Coefficient: -1.57e+00*

*Value: pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group



Gastranaerophilales

1500

1000

500

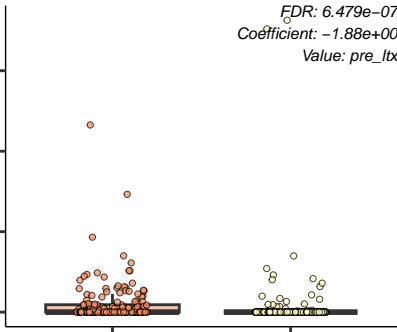
0

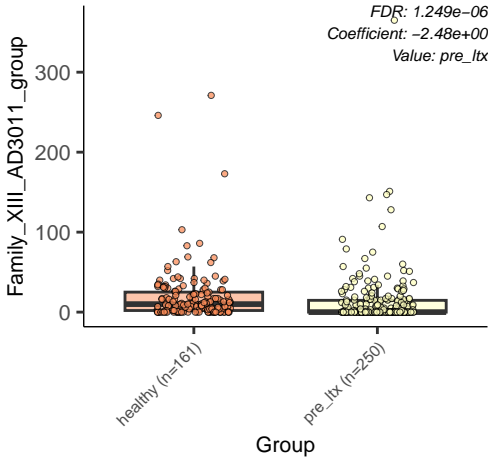
healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $6.479e-07$   
Coefficient:  $-1.88e+00$   
Value: *pre\_ltx*





Oscillibacter

2000

1000

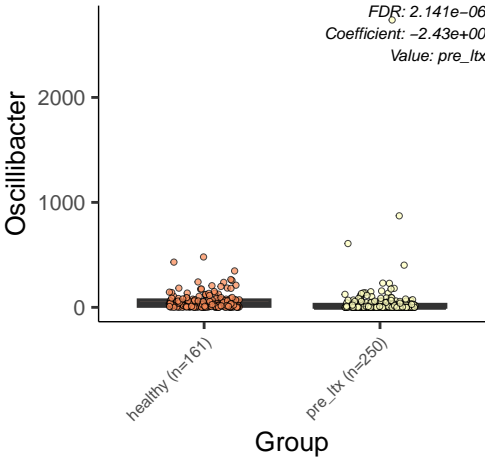
0

healthy (n=161)

pre\_ltx (n=250)

Group

*FDR: 2.141e-06*  
*Coefficient: -2.43e+00*  
*Value: pre\_ltx*



f\_\_Oscillospiraceae.g\_\_uncultured

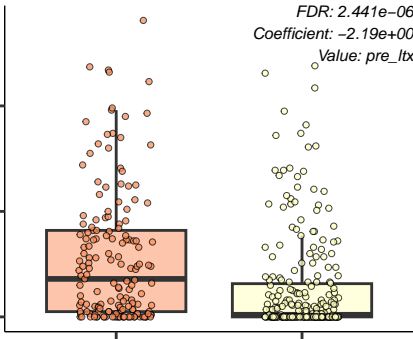
200  
100  
0

healthy (n=161)

pre\_ltx (n=250)

Group

FDR: 2.441e-06  
Coefficient: -2.19e+00  
Value: pre\_ltx



UCG.009

60

40

20

0

healthy (n=161)

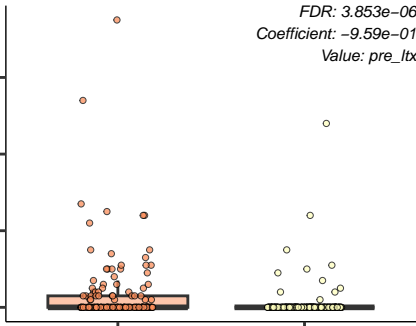
pre\_ltx (n=250)

Group

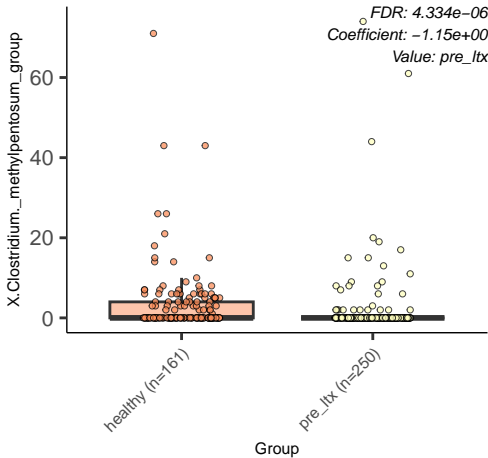
FDR: 3.853e-06

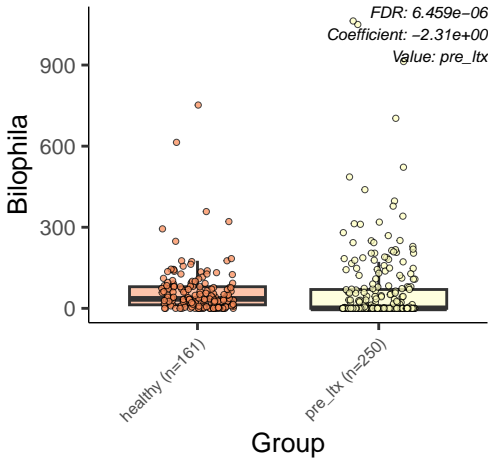
Coefficient: -9.59e-01

Value: pre\_ltx









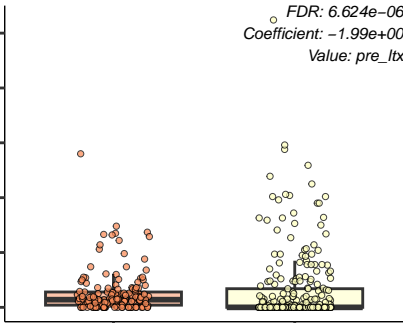
GCA.900066575

FDR:  $6.624e-06$   
Coefficient:  $-1.99e+00$   
Value: *pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group



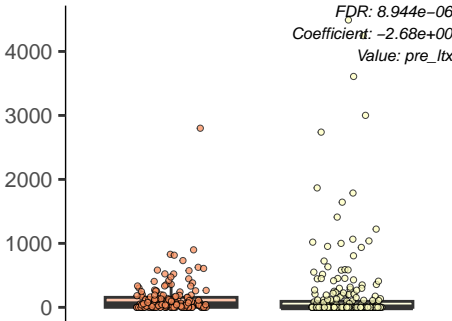
CAG.56

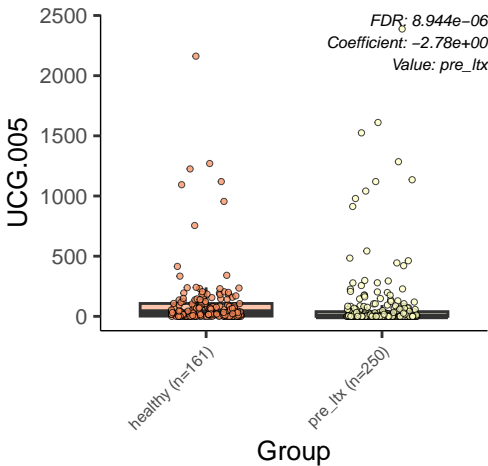
*FDR: 8.944e-06*  
*Coefficient: -2.68e+00*  
*Value: pre\_ltx*

healthy (n=161)

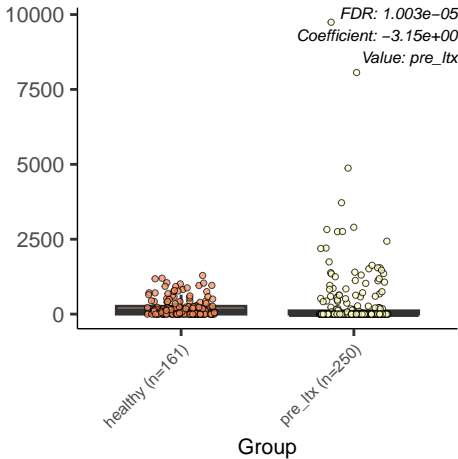
pre\_ltx (n=250)

Group





Phascolarctobacterium



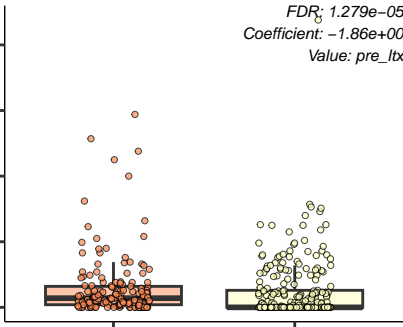
Marvinbryantia

FDR:  $1.279\text{e-}05$   
Coefficient:  $-1.86\text{e}+00$   
Value: *pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group



Clostridia\_vadinBB60\_group

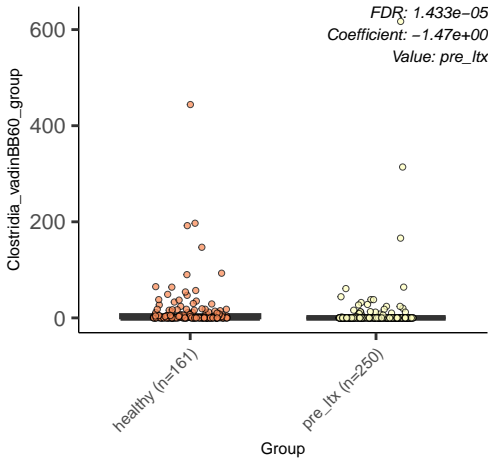
600  
400  
200  
0

healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $1.433\text{e-}05$   
Coefficient:  $-1.47\text{e}+00$   
Value: pre\_ltx





Senegalimassilia

*FDR: 1.500e-05*

*Coefficient: -2.09e+00*

*Value: pre\_ltx*

400

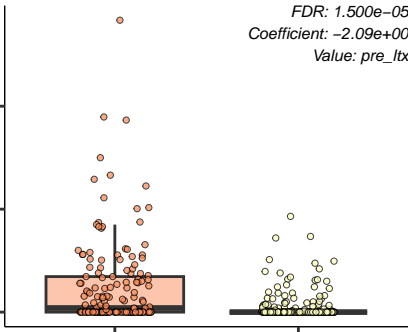
200

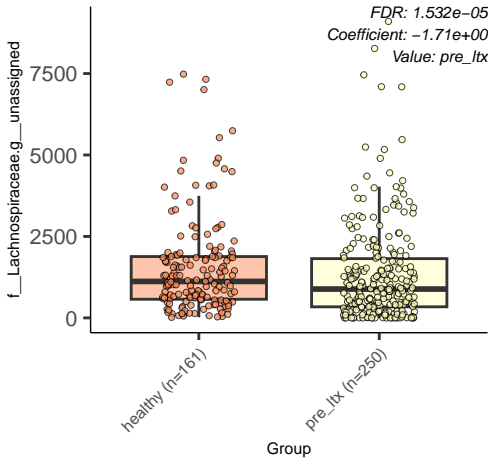
0

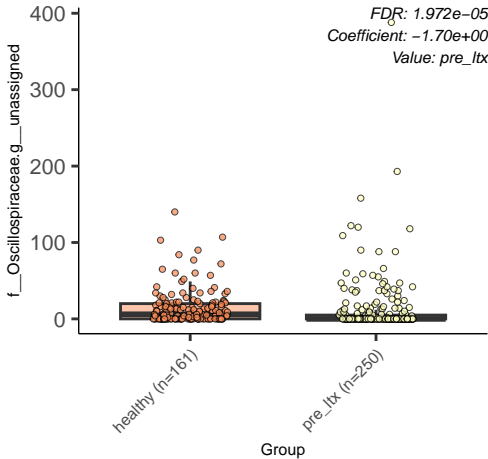
healthy (n=161)

pre\_ltx (n=250)

Group







Collinsella

3000

2000

1000

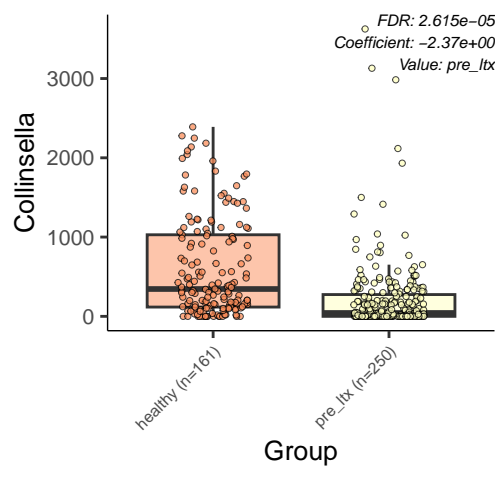
0

healthy (n=161)

pre\_ltx (n=250)

Group

*FDR: 2.615e-05*  
*Coefficient: -2.37e+00*  
*Value: pre\_ltx*



f\_\_Peptococcaceae.g\_\_uncultured

FDR:  $3.529 \times 10^{-5}$   
Coefficient:  $-1.29 \times 10^0$   
Value: pre\_ltx

600

400

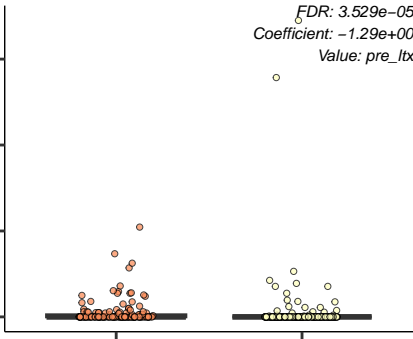
200

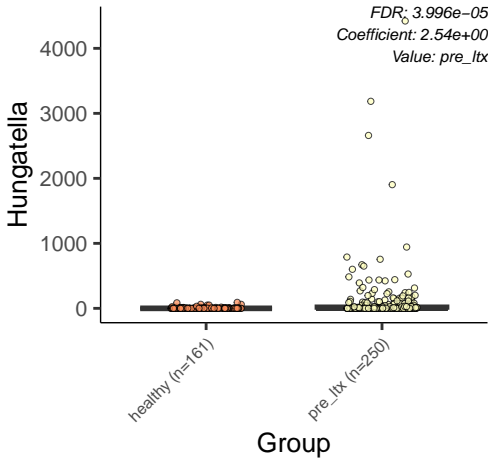
0

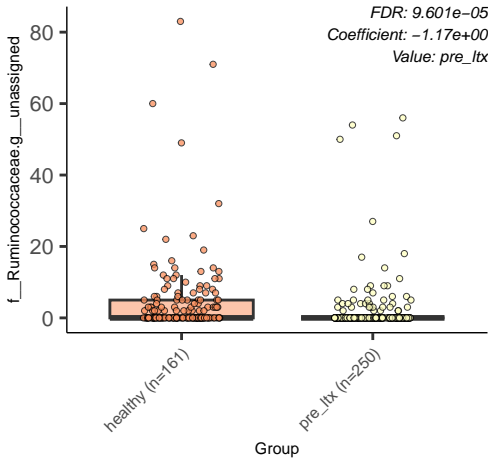
healthy (n=161)

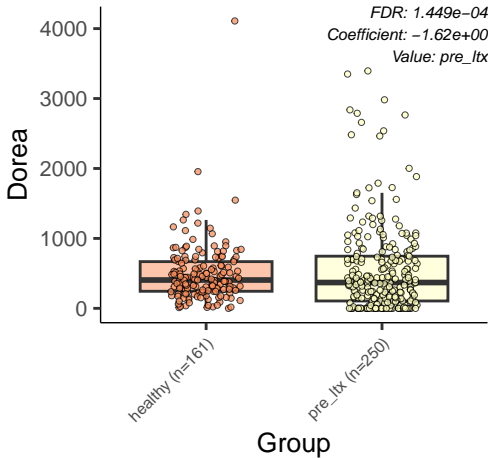
pre\_ltx (n=250)

Group











Sutterella

FDR: 1.478e-04

Coefficient: -2.60e+00

Value: pre\_ltx

9000

6000

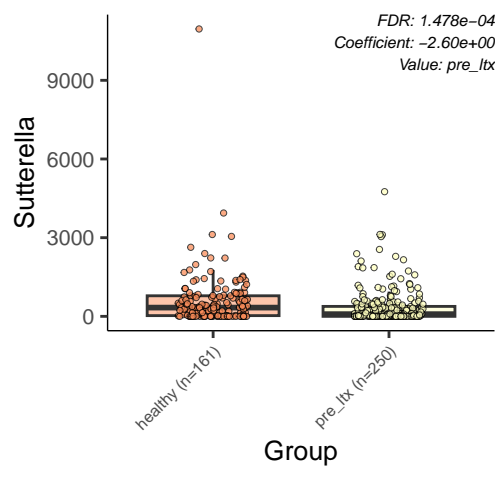
3000

0

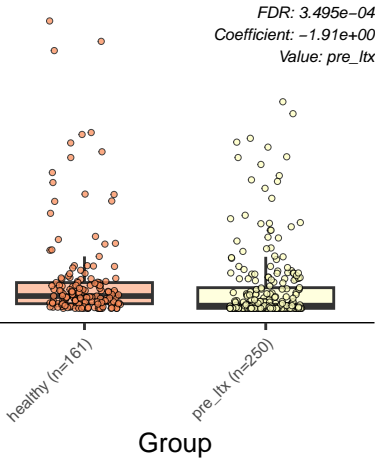
healthy (n=161)

pre\_ltx (n=250)

Group



Flavonifractor



Haemophilus

FDR: 4.092e-04  
Coefficient: 1.71e+00  
Value: pre\_ltx

2000

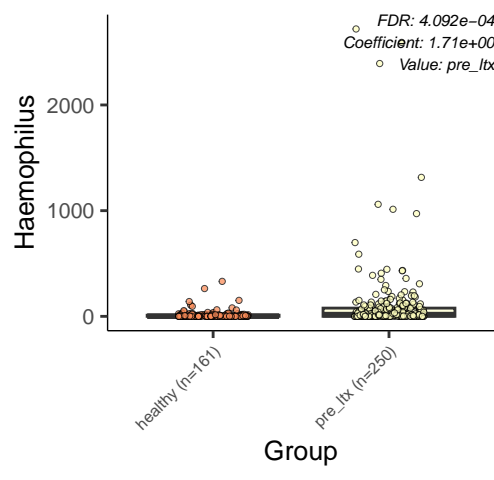
1000

0

healthy (n=161)

pre\_ltx (n=250)

Group



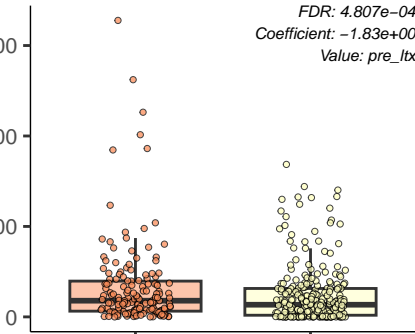
X.Ruminococcus.\_torques\_group

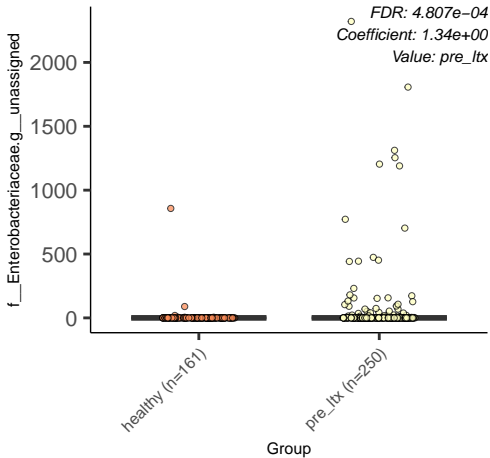
*FDR: 4.807e-04*  
*Coefficient: -1.83e+00*  
*Value: pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group





Candidatus\_Soleaferrea

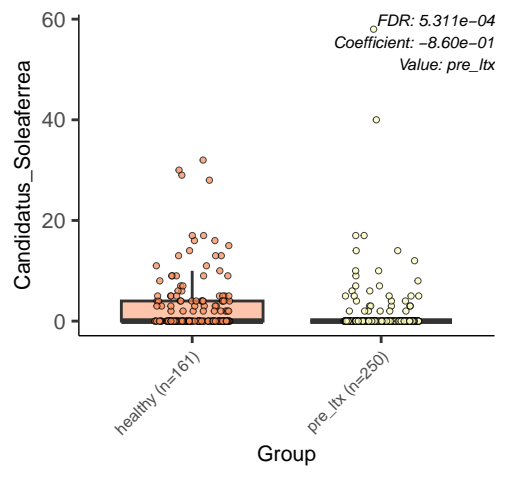
60  
40  
20  
0

healthy (n=161)

pre\_ltx (n=250)

Group

FDR: 5.311e-04  
Coefficient: -8.60e-01  
Value: pre\_ltx



Coprobacter

1000

500

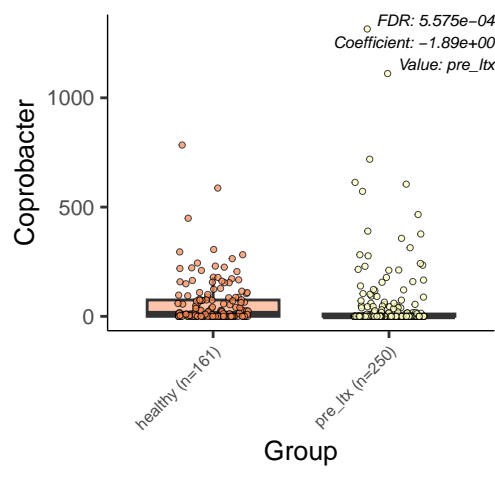
0

healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $5.575e-04$   
Coefficient:  $-1.89e+00$   
Value: *pre\_ltx*



UCG.002

2000

1000

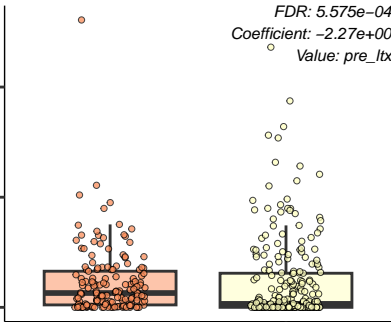
0

healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $5.575e-04$   
Coefficient:  $-2.27e+00$   
Value: pre\_ltx





Anaerofilum

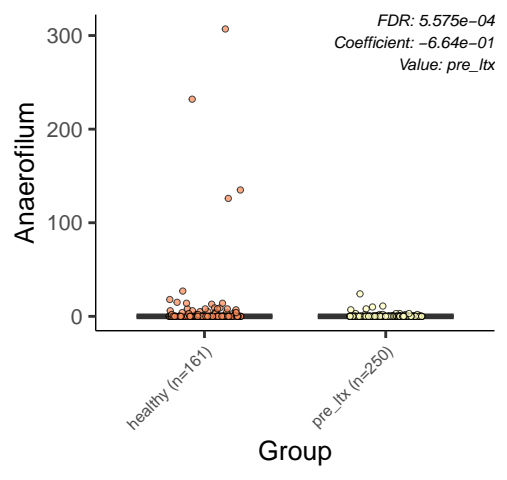
300  
200  
100  
0

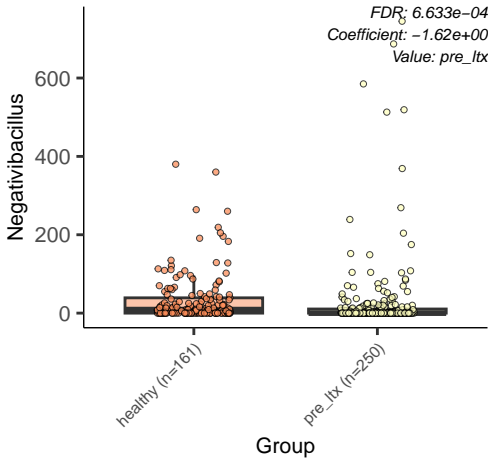
healthy (n=161)

pre\_ltx (n=250)

Group

*FDR: 5.575e-04*  
*Coefficient: -6.64e-01*  
*Value: pre\_ltx*





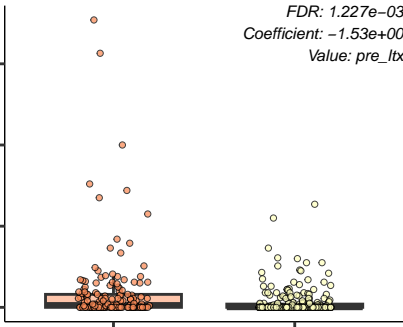
Adlercreutzia

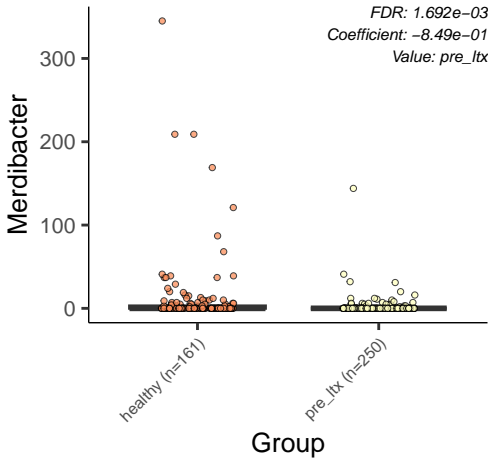
FDR:  $1.227\text{e-}03$   
Coefficient:  $-1.53\text{e+}00$   
Value: *pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group





Faecalibacterium

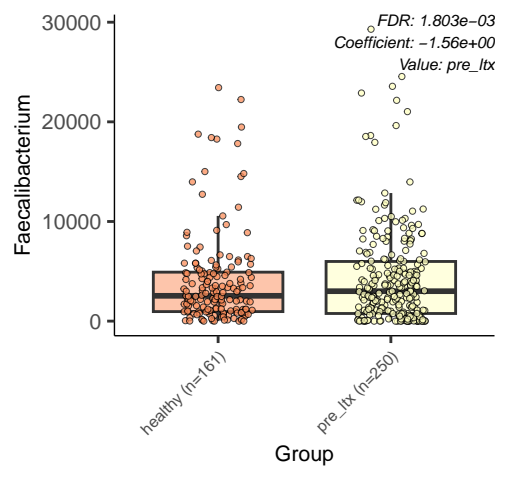
30000  
20000  
10000  
0

healthy (n=161)

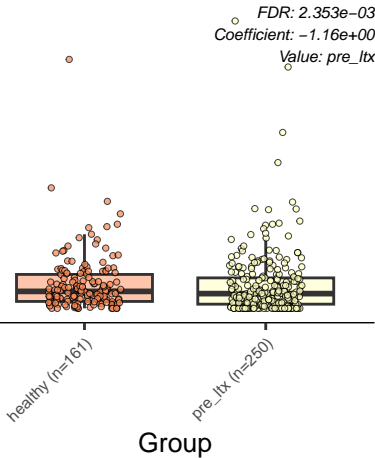
pre\_ltx (n=250)

Group

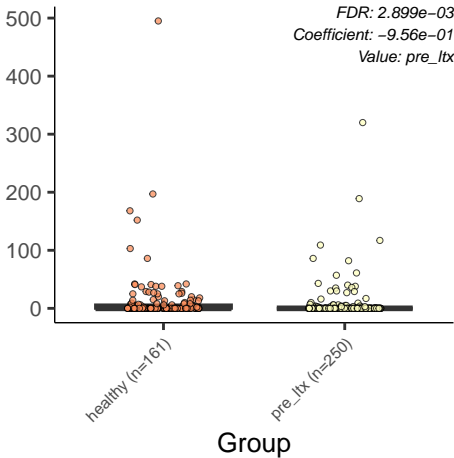
*FDR: 1.803e-03*  
*Coefficient: -1.56e+00*  
*Value: pre\_ltx*



Incertae\_Sedis



UCG.010



Dialister

1500

1000

500

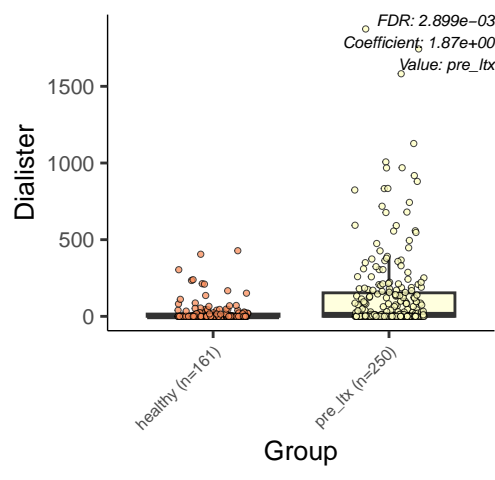
0

healthy (n=161)

pre\_ltx (n=250)

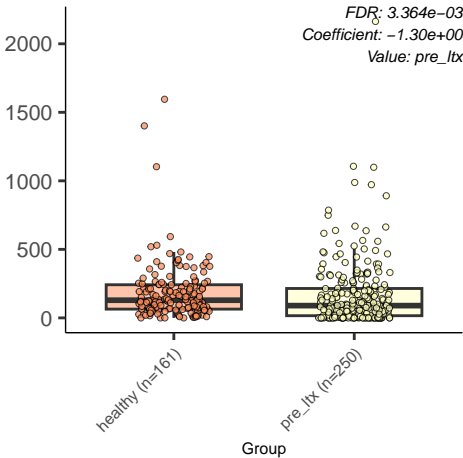
Group

FDR: 2.899e-03  
Coefficient: 1.87e+00  
Value: pre\_ltx

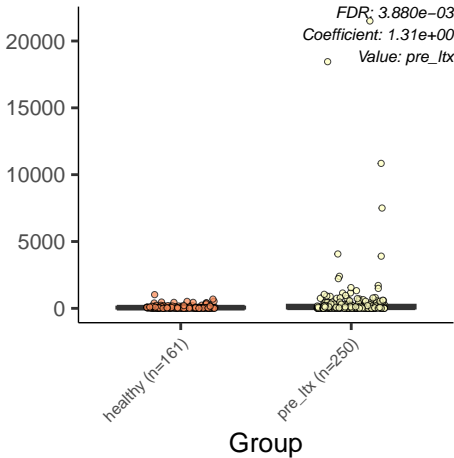




X.Eubacterium.\_hallii\_group



Streptococcus



Ralstonia

100

50

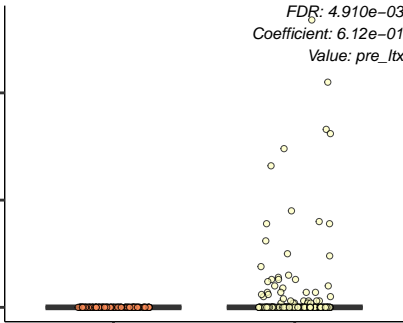
0

healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $4.910 \times 10^{-3}$   
Coefficient:  $6.12 \times 10^{-1}$   
Value: pre\_ltx



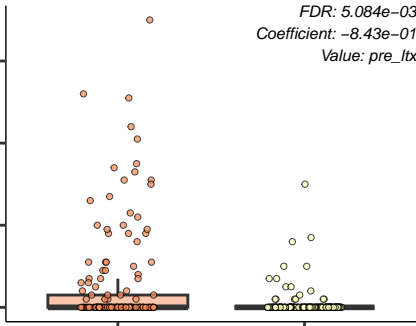
Enterorhabdus

*FDR: 5.084e-03*  
*Coefficient: -8.43e-01*  
*Value: pre\_ltx*

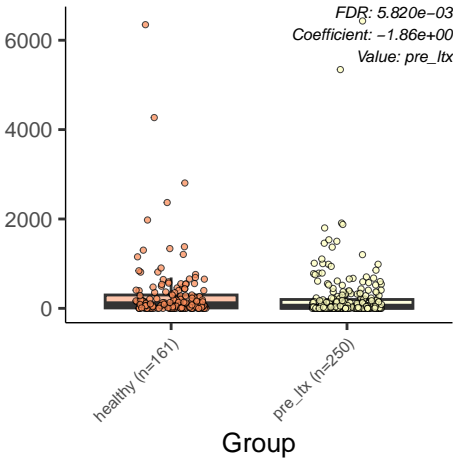
healthy (n=161)

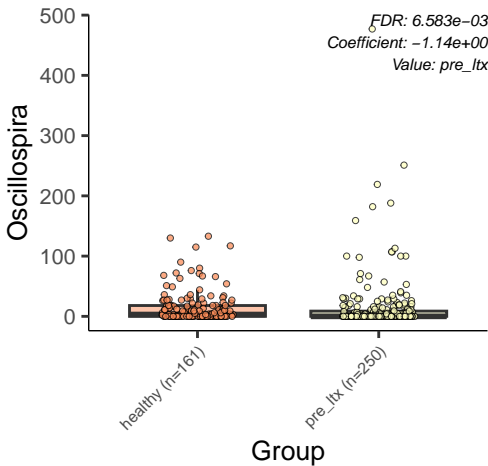
pre\_ltx (n=250)

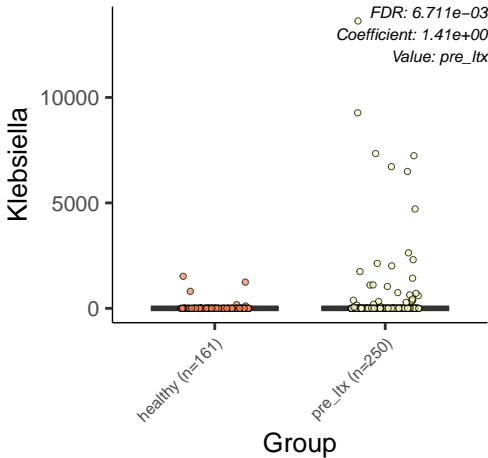
Group

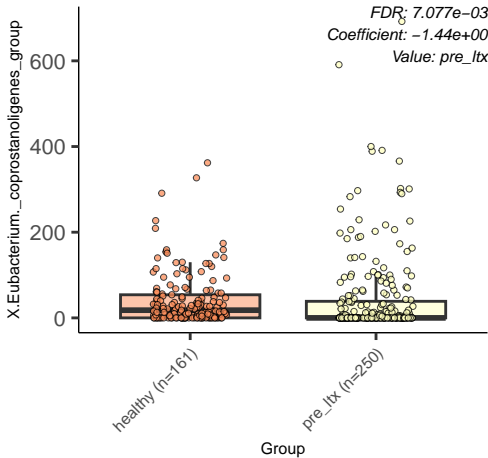


Agathobacter



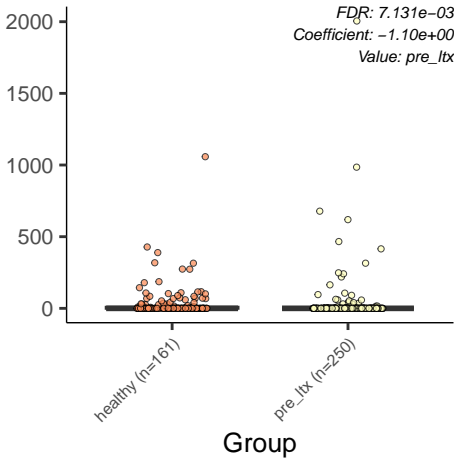


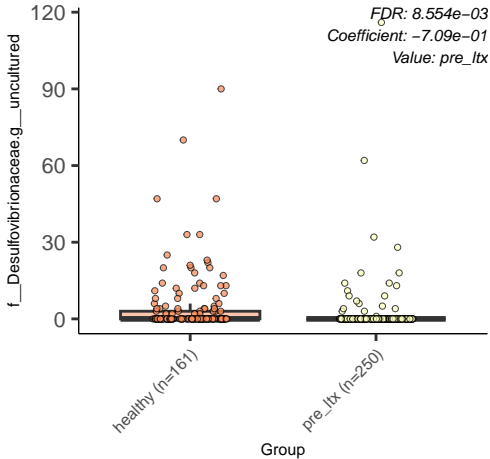


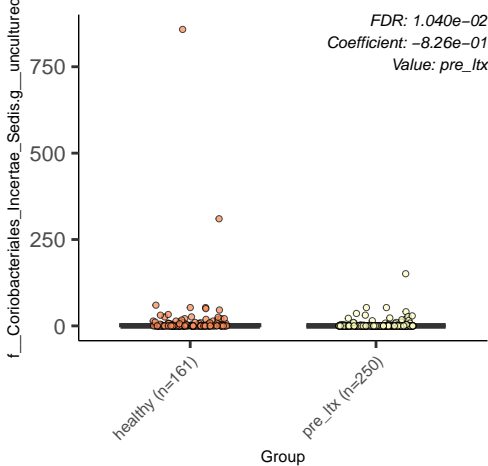




Muribaculaceae







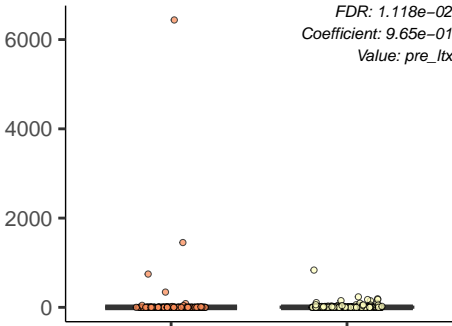
Pseudomonas

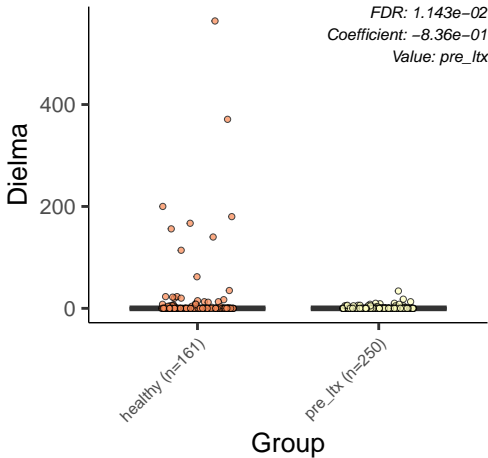
FDR: 1.118e-02  
Coefficient: 9.65e-01  
Value: pre\_ltx

healthy (n=161)

pre\_ltx (n=250)

Group





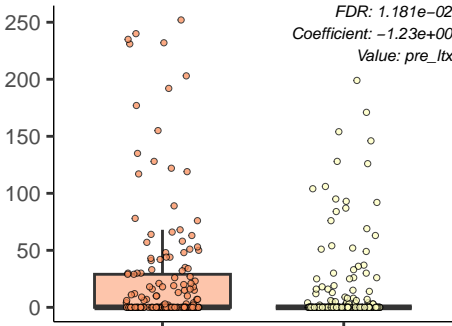
Slackia

healthy (n=161)

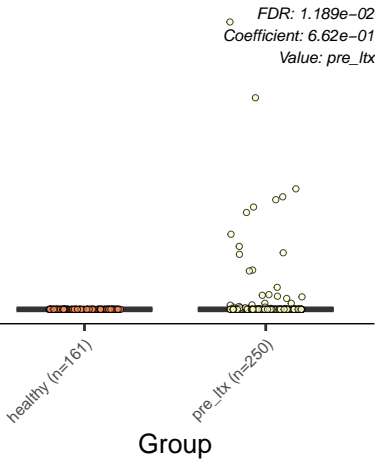
pre\_ltx (n=250)

Group

FDR: 1.181e-02  
Coefficient: -1.23e+00  
Value: pre\_ltx



# Veillonellaceae



Lachnospiraceae\_ND3007\_group

*FDR: 1.223e-02*  
*Coefficient: -1.41e+00*  
*Value: pre\_ltx*

600

400

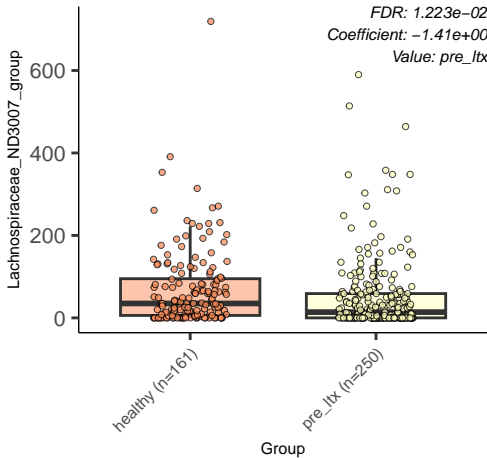
200

0

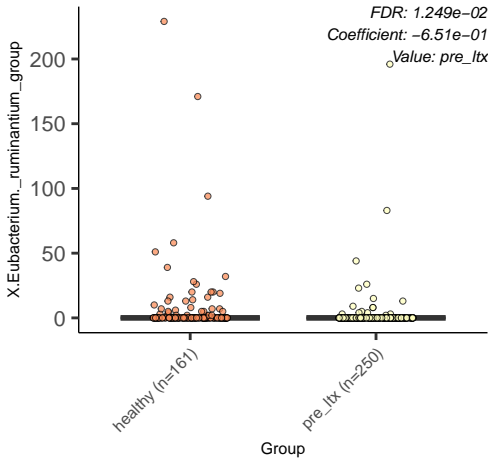
healthy (n=161)

pre\_ltx (n=250)

Group







Intestinibacter

10000

5000

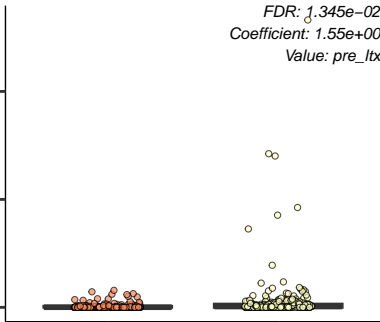
0

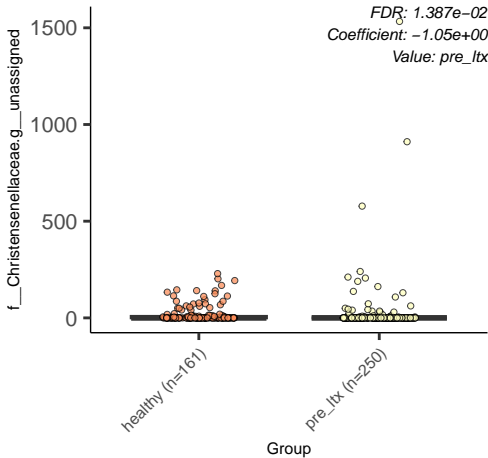
healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $1.345e-02$   
Coefficient:  $1.55e+00$   
Value: pre\_ltx





Fusicatenibacter

7500

5000

2500

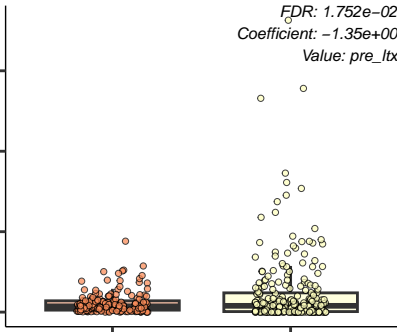
0

healthy (n=161)

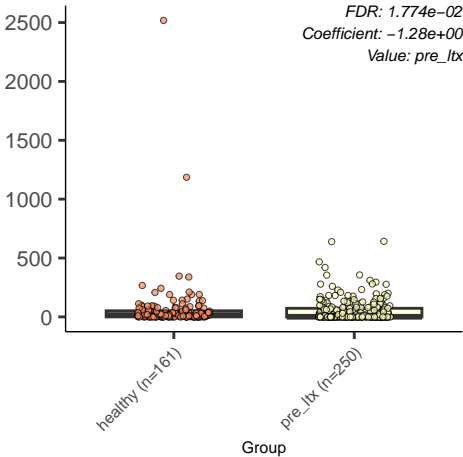
pre\_ltx (n=250)

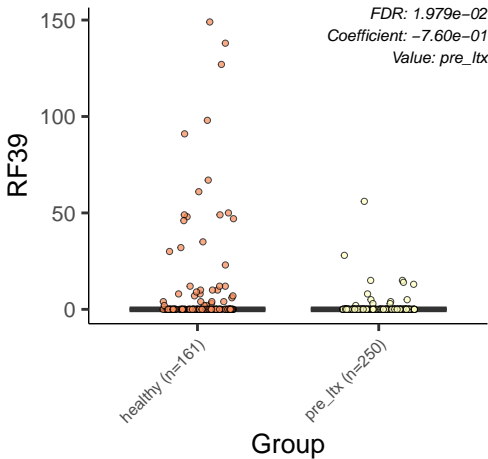
Group

FDR:  $1.752e-02$   
Coefficient:  $-1.35e+00$   
Value: pre\_ltx



Lachnospiraceae\_NK4A136\_group





Parasutterella

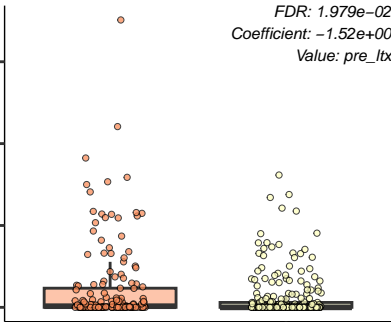
1500  
1000  
500  
0

healthy (n=161)

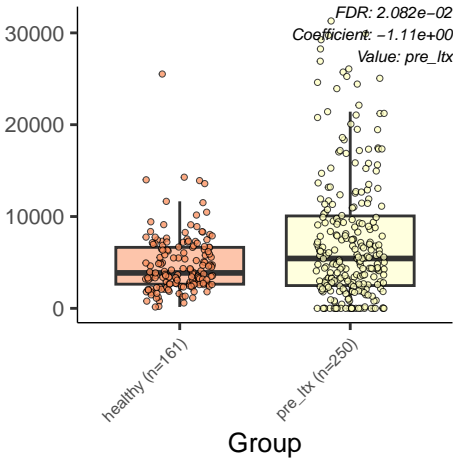
pre\_ltx (n=250)

Group

FDR:  $1.979\text{e-}02$   
Coefficient:  $-1.52\text{e}+00$   
Value: *pre\_ltx*

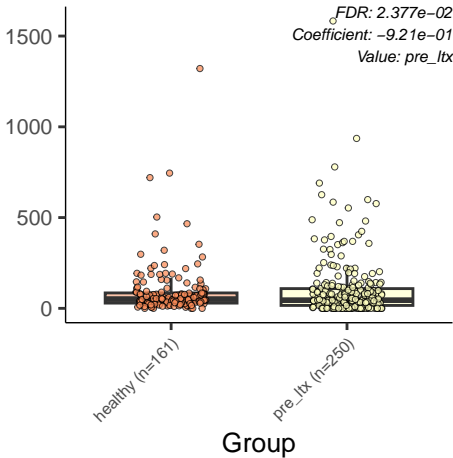


Bacteroides





Butyricicoccus



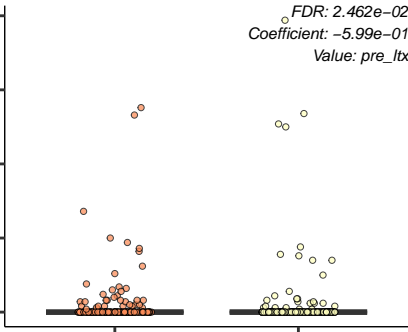
Pseudoflavonifractor

$FDR: 2.462e-02$   
 $Coefficient: -5.99e-01$   
 $Value: pre\_ltx$

healthy (n=161)

pre\_ltx (n=250)

Group



Peptococcus

200

100

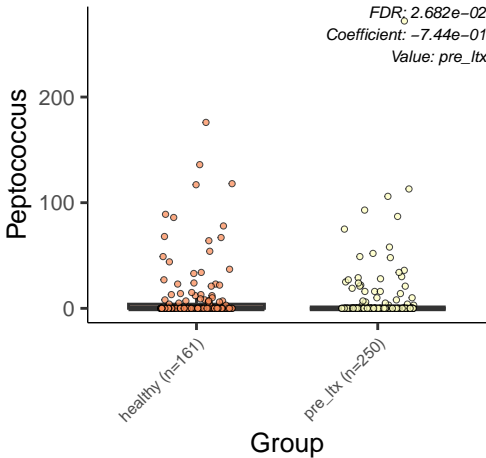
0

healthy (n=161)

pre\_ltx (n=250)

Group

FDR:  $2.682e-02$   
Coefficient:  $-7.44e-01$   
Value: pre\_ltx



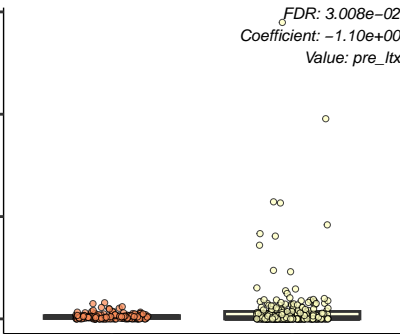
Lachnospiraceae\_FCS020\_group

*FDR: 3.008e-02*  
*Coefficient: -1.10e+00*  
*Value: pre\_ltx*

healthy (n=161)

pre\_ltx (n=250)

Group



Ruminococcus

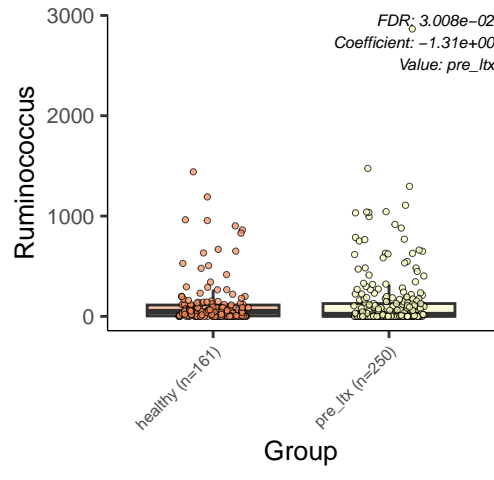
3000  
2000  
1000  
0

healthy (n=161)

pre\_ltx (n=250)

Group

*FDR: 3.008e-02*  
*Coefficient: -1.31e+00*  
*Value: pre\_ltx*



X.Eubacterium\_siraeum\_group

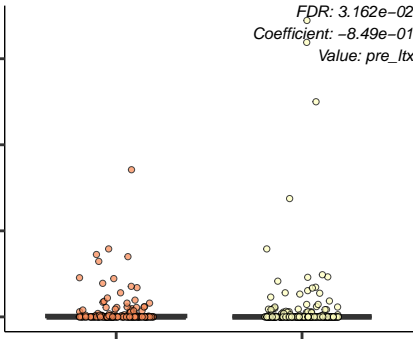
*FDR: 3.162e-02*  
*Coefficient: -8.49e-01*  
*Value: pre\_ltx*

600  
400  
200  
0

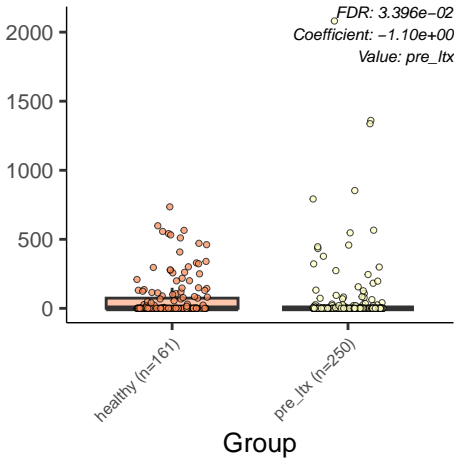
healthy (n=161)

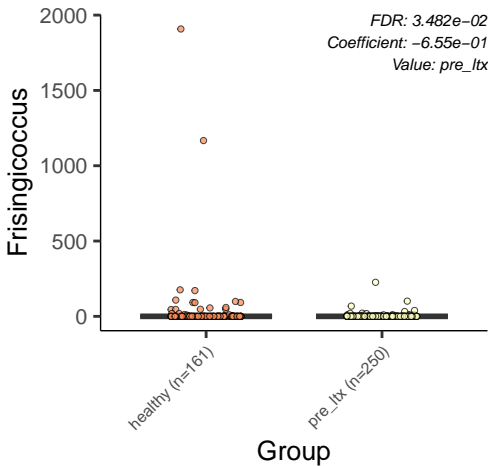
pre\_ltx (n=250)

Group



Holdemanella







Romboutsia

*FDR: 3.698e-02*  
*Coefficient: -1.04e+00*  
*Value: pre\_ltx*

1500

1000

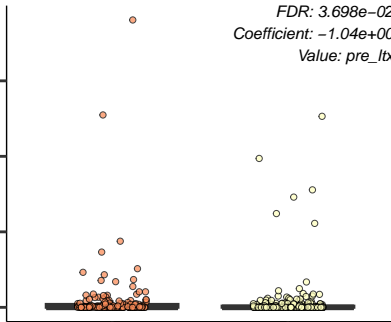
500

0

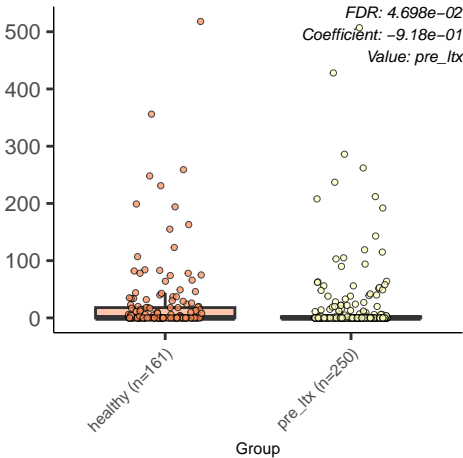
healthy (n=161)

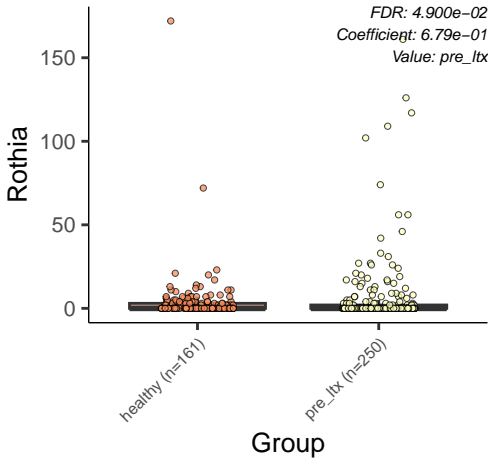
pre\_ltx (n=250)

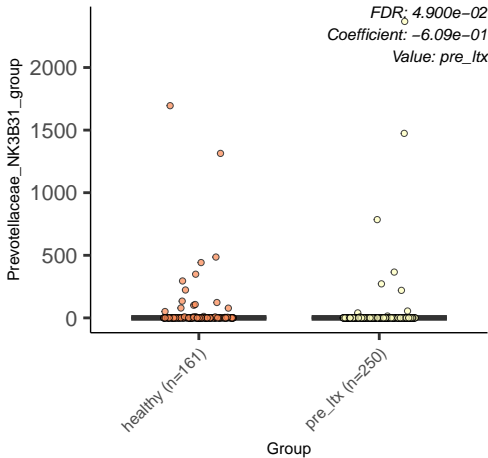
Group



f\_Eggerthellaceae.g\_\_uncultured







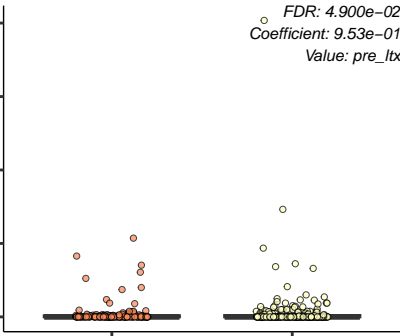
X.Clostridium.\_innocuuum\_group

FDR: 4.900e-02  
Coefficient: 9.53e-01  
Value: pre\_ltx

healthy (n=161)

pre\_ltx (n=250)

Group



Paraprevotella

FDR:  $4.959e-02$   
Coefficient:  $-9.82e-01$   
Value: *pre\_ltx*

2000

1500

1000

500

0

healthy (n=161)

pre\_ltx (n=250)

Group

