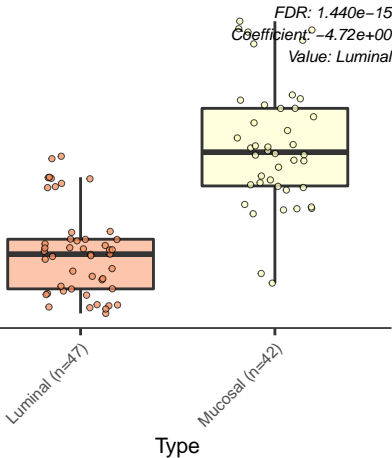


X72_Escherichia.Shigella.



X47_Muribaculaceae.f.

FDR: $6.964e-10$

Coefficient: $1.63e+00$

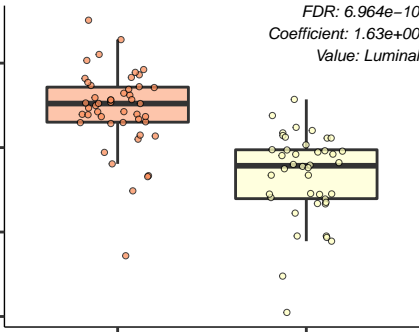
Value: Luminal

4
2
0
-2

Luminal (n=47)

Mucosal (n=42)

Type



X48_Muribaculaceae..f.

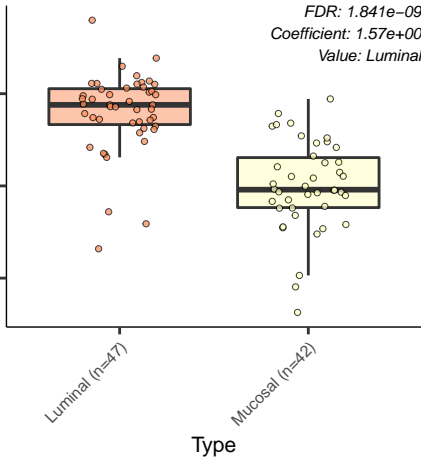
FDR: 1.841e-09
Coefficient: 1.57e+00
Value: Luminal

2
0
-2

Luminal (n=47)

Mucosal (n=42)

Type



X45_Muribaculaceae..f.

FDR: 4.757e-09

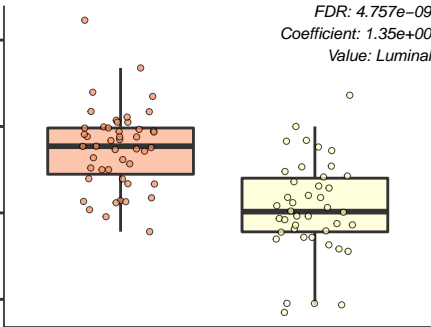
Coefficient: 1.35e+00

Value: Luminal

Luminal (n=47)

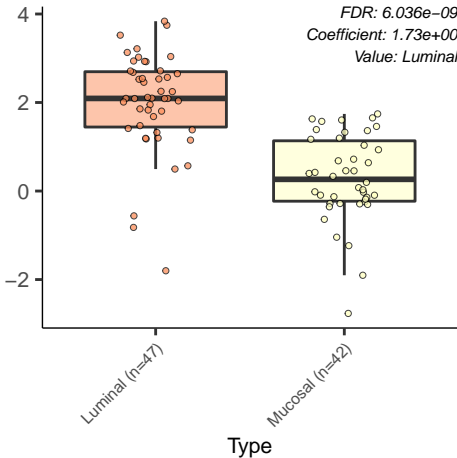
Mucosal (n=42)

Type



X95_Muribaculaceae..f.

FDR: 6.036e-09
Coefficient: 1.73e+00
Value: Luminal



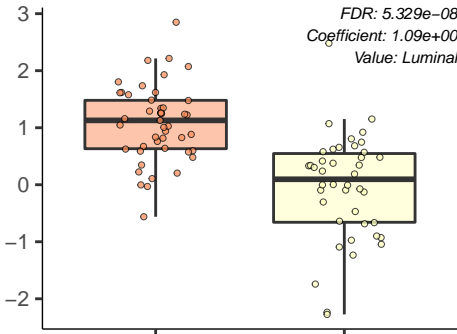
X85_Muribaculaceae.f.

FDR: 5.329e-08
Coefficient: 1.09e+00
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



X15_Muribaculaceae..f.

FDR: 7.767e-08

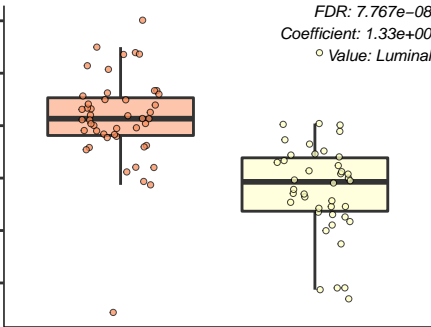
Coefficient: 1.33e+00

○ Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



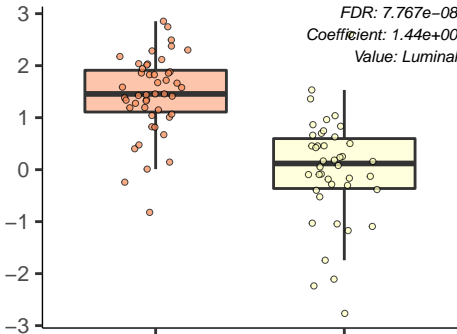
X54_Muribaculaceae..f.

FDR: 7.767×10^{-8}
Coefficient: 1.44×10^0
Value: Luminal

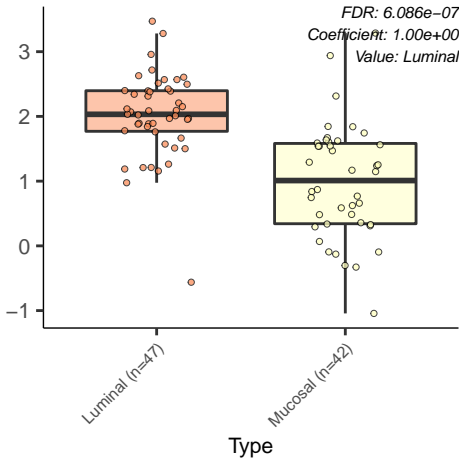
Luminal (n=47)

Mucosal (n=42)

Type



X21_Muribaculaceae.f.



X141_Muribaculaceae..f.

FDR: 6.086e-07
Coefficient: 2.28e+00
Value: Luminal

2.5

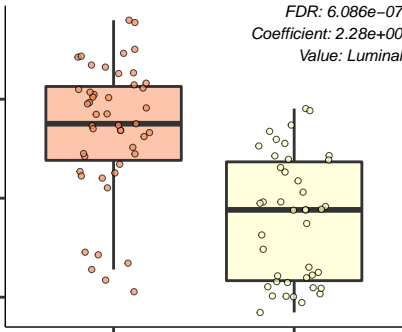
0.0

-2.5

Luminal (n=47)

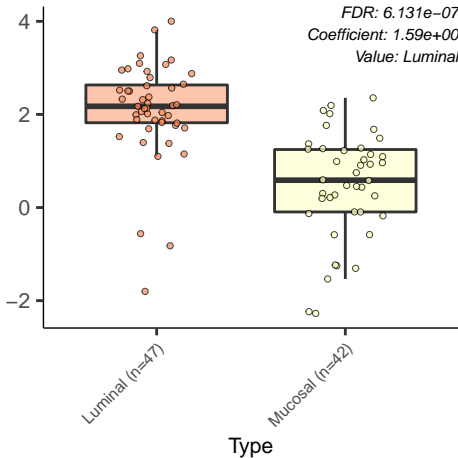
Mucosal (n=42)

Type



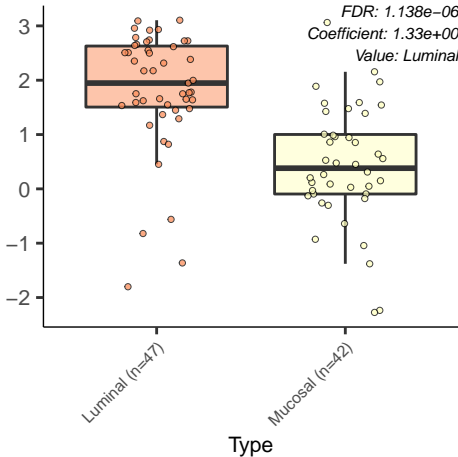
X55_Muribaculaceae..f.

FDR: 6.131e-07
Coefficient: 1.59e+00
Value: Luminal

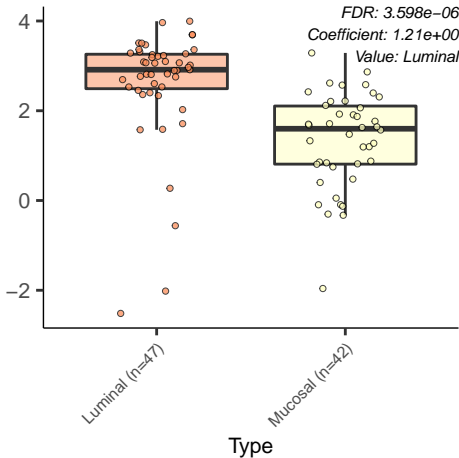


X113_Muribaculaceae.f.

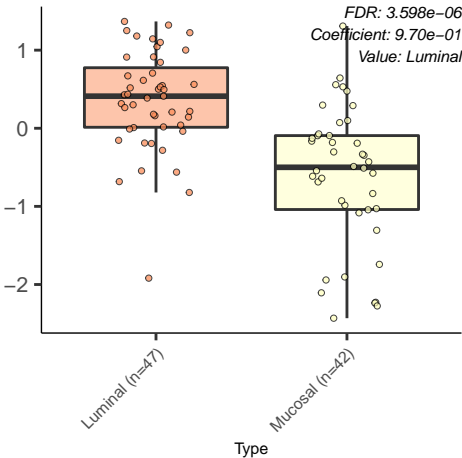
FDR: 1.138e-06
Coefficient: 1.33e+00
Value: Luminal



X67_Ruminococcaceae.f.



X221_Ruminococcaceae_NK4A214_group.



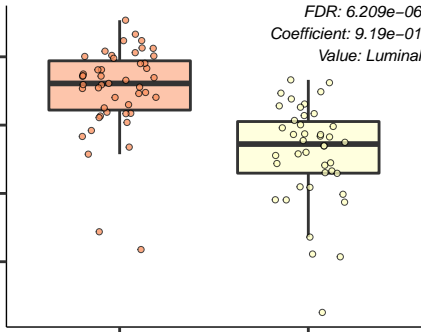
X166_Intestinimonas.

FDR: 6.209e-06
Coefficient: 9.19e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



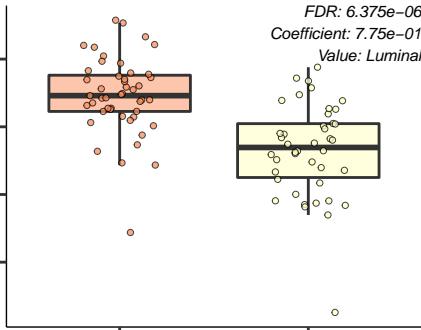
X162_Ruminiclostridium_9.

FDR: 6.375e-06
Coefficient: 7.75e-01
Value: Luminal

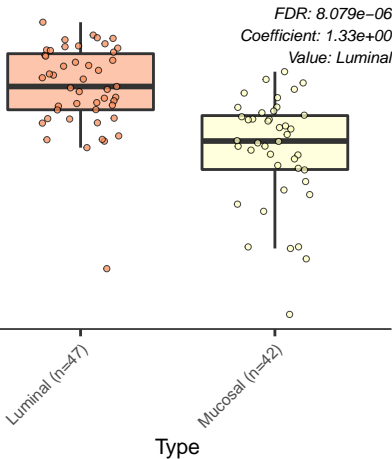
Luminal (n=47)

Mucosal (n=42)

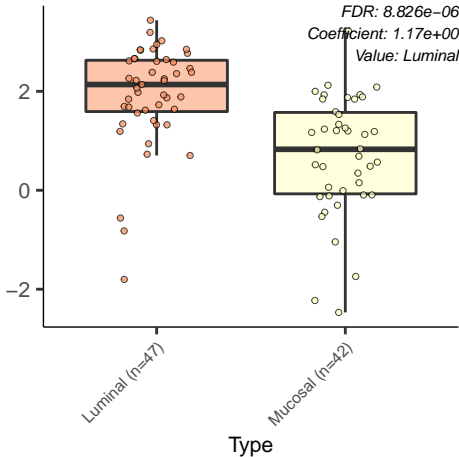
Type



X32_Muribaculaceae..f.



X145_Muribaculaceae.f.



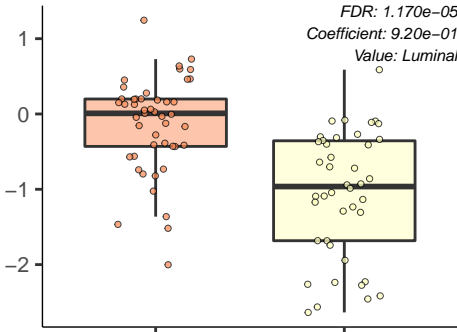
X257_Family_XIII.f.

FDR: 1.170e-05
Coefficient: 9.20e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



X9_Muribaculaceae..f.

FDR: 1.539e-05

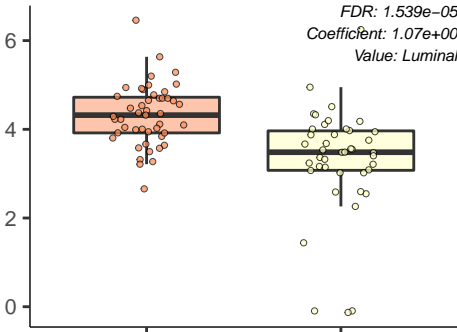
Coefficient: 1.07e+00

Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



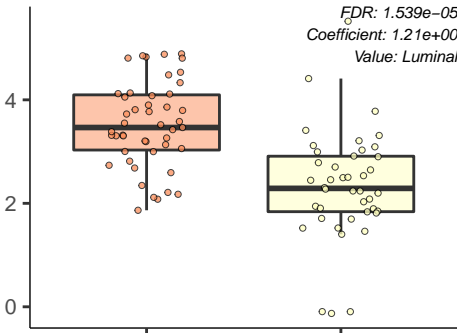
X10_Muribaculaceae..f.

FDR: 1.539e-05
Coefficient: 1.21e+00
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



X123_Enterococcus.

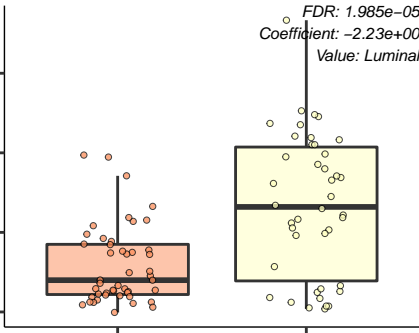
6
3
0
-3

Luminal (n=47)

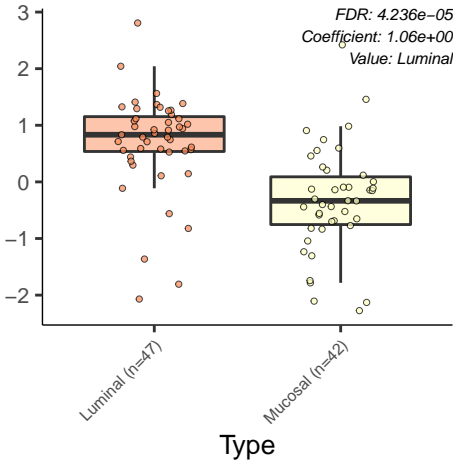
Mucosal (n=42)

Type

FDR: 1.985e-05
Coefficient: -2.23e+00
Value: Luminal



X180_Alistipes.



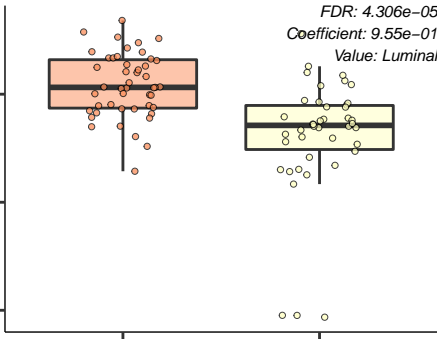
X30_Muribaculum.intestinale

Luminal (n=47)

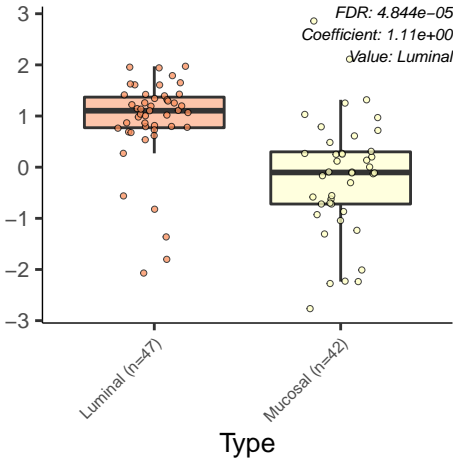
Mucosal (n=42)

Type

FDR: 4.306e-05
Coefficient: 9.55e-01
Value: Luminal



X200_Alistipes.



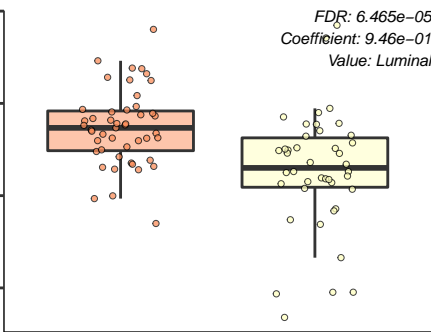
X13_Muribaculaceae..f.

FDR: 6.465e-05
Coefficient: 9.46e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



X101_Acetatifactor.

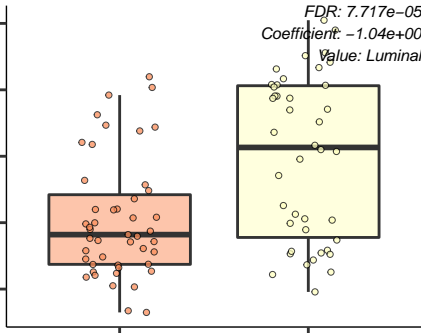
1
0
-1
-2
-3

Luminal (n=47)

Mucosal (n=42)

Type

FDR: $7.717e-05$
Coefficient: $-1.04e+00$
Value: Luminal



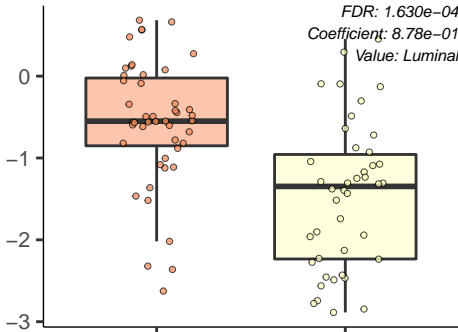
X71_Anaerofustis.

Luminal (n=47)

Mucosal (n=42)

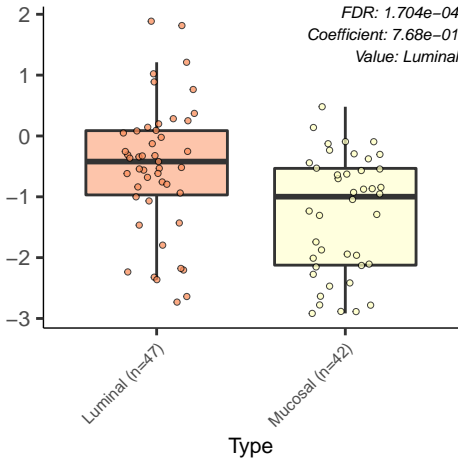
Type

FDR: 1.630e-04
Coefficient: 8.78e-01
Value: Luminal

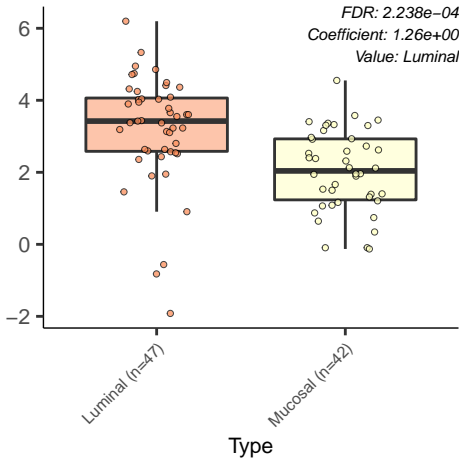


X52_Enterorhabdus.

FDR: 1.704e-04
Coefficient: 7.68e-01
Value: Luminal



X53_Muribaculaceae..f.



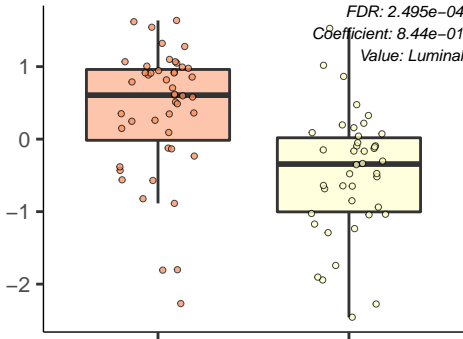
X189_Erysipelotrichaceae..f.

Luminal (n=47)

Mucosal (n=42)

Type

FDR: 2.495e-04
Coefficient: 8.44e-01
Value: Luminal



X191_Lachnospiraceae..f.

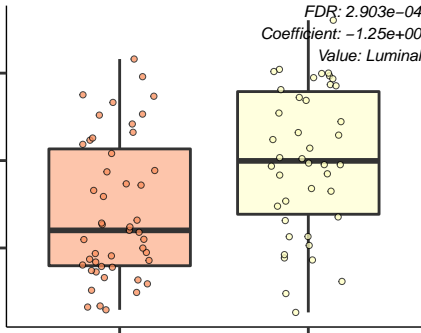
2
0
-2

Luminal (n=47)

Mucosal (n=42)

Type

FDR: 2.903e-04
Coefficient: -1.25e+00
Value: Luminal



X35_Muribaculaceae..f.

2

0

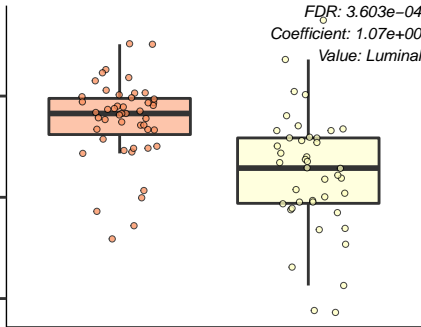
-2

Luminal (n=47)

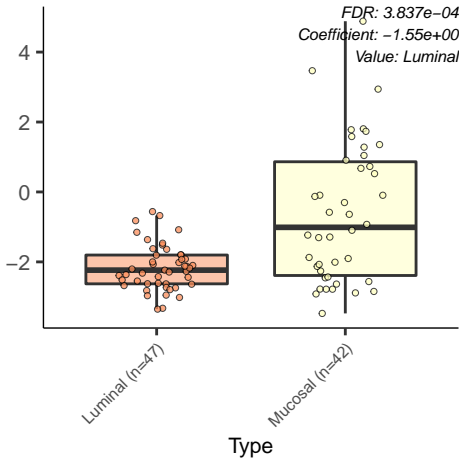
Mucosal (n=42)

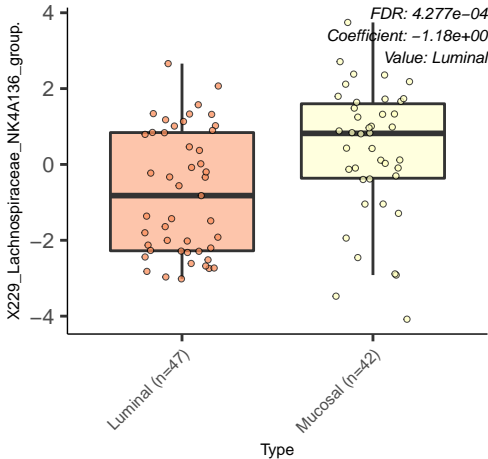
Type

FDR: 3.603e-04
Coefficient: 1.07e+00
Value: Luminal

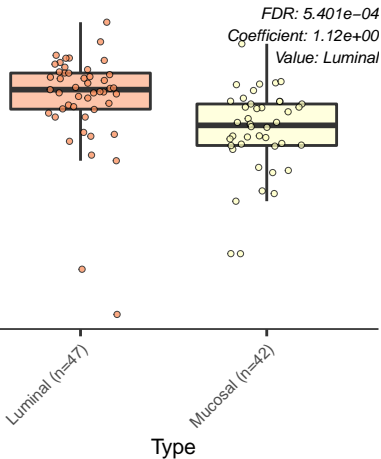


X79_Staphylococcus.





X6_Muribaculaceae..f.



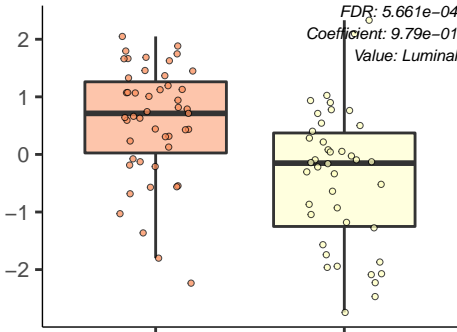
X62_Muribaculaceae..f.

FDR: 5.661e-04
Coefficient: 9.79e-01
Value: Luminal

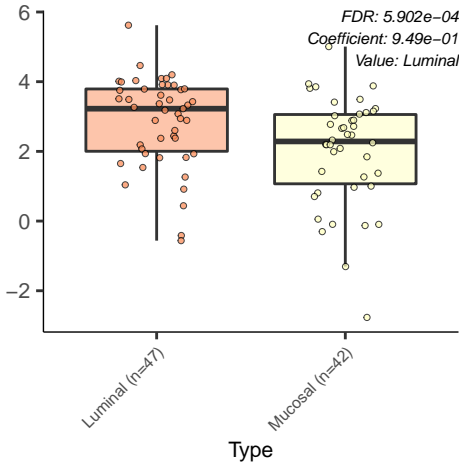
Luminal (n=47)

Mucosal (n=42)

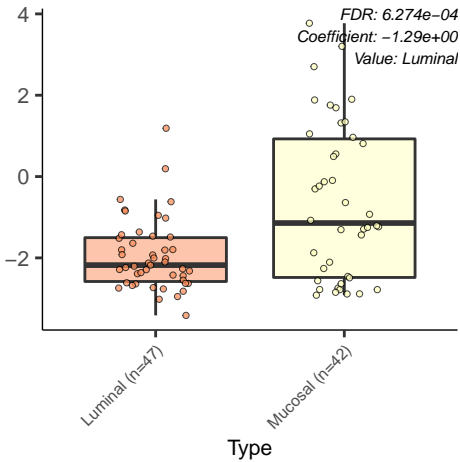
Type



X22_Muribaculaceae..f.



X276_Faecalibacterium.



X104_Muribaculaceae..f.

FDR: 7.436e-04
Coefficient: 8.48e-01
Value: Luminal

2

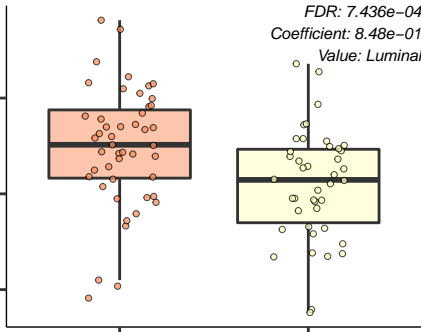
0

-2

Luminal (n=47)

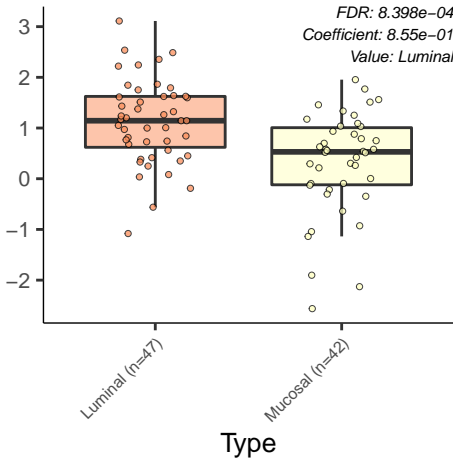
Mucosal (n=42)

Type

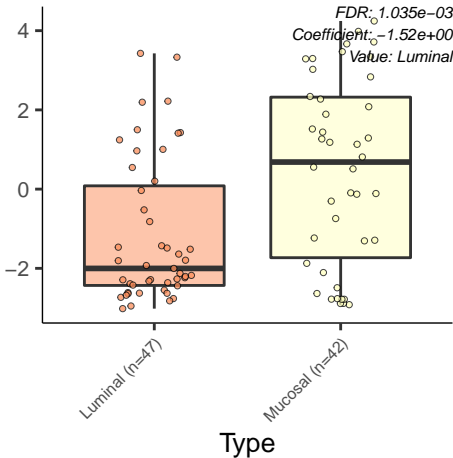


X23_DNF00809.

FDR: $8.398e-04$
Coefficient: $8.55e-01$
Value: Luminal



X219_Blautia.



X140_Lachnoclostridium.

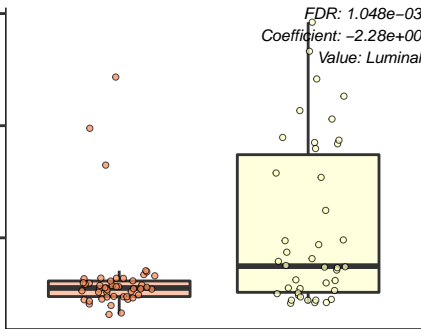
10
5
0

Luminal (n=47)

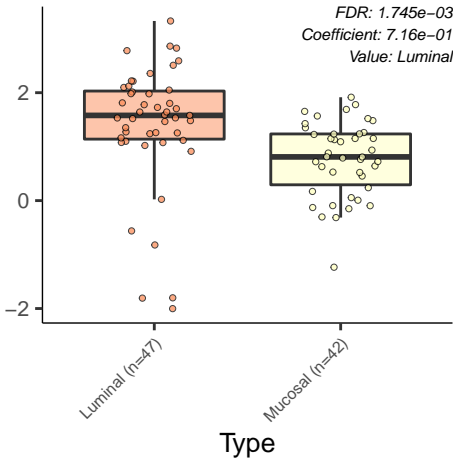
Mucosal (n=42)

Type

FDR: 1.048e-03
Coefficient: -2.28e+00
Value: Luminal



X159_Rikenella.



X16_Muribaculaceae.f.

4

2

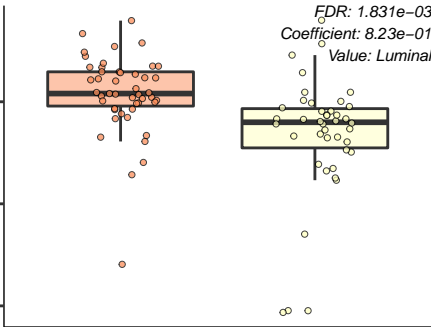
0

Luminal (n=47)

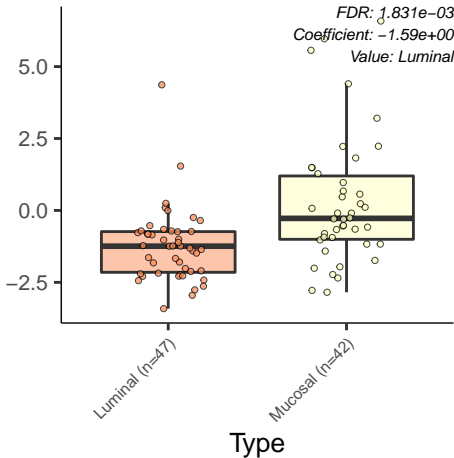
Mucosal (n=42)

Type

FDR: 1.831e-03
Coefficient: 8.23e-01
Value: Luminal



X260_Listeria.



X4_Muribaculaceae..f.

FDR: 2.336e-03

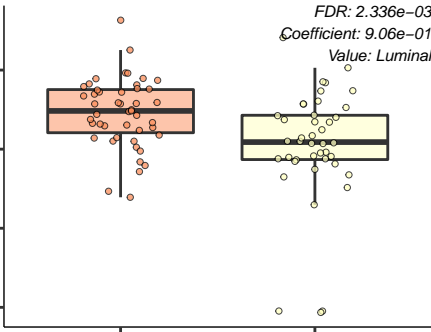
Coefficient: 9.06e-01

Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



X12_Muribaculaceae..f.

FDR: 2.365e-03

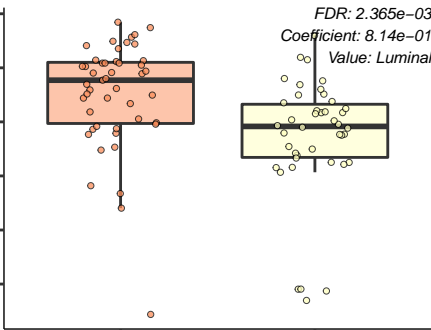
Coefficient: 8.14e-01

Value: Luminal

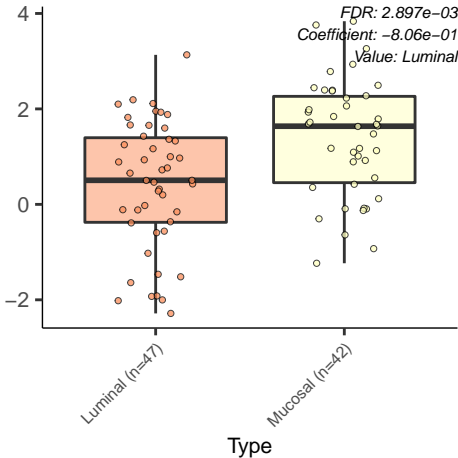
Luminal (n=47)

Mucosal (n=42)

Type

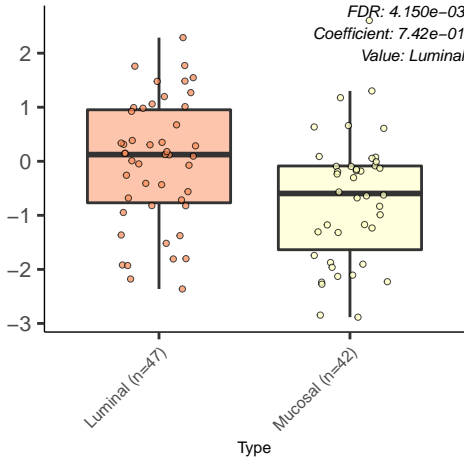


X93_Lachnospiraceae..f.

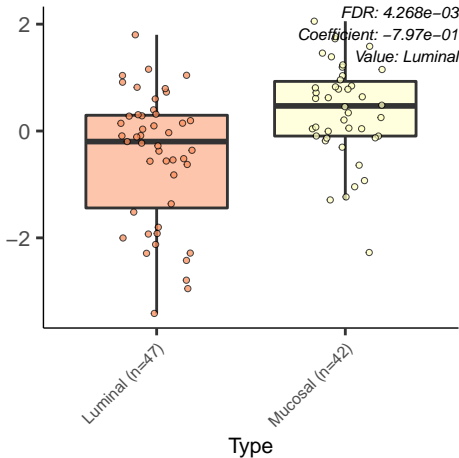


X270_Rikenellaceae_RC9_gut_group.

FDR: 4.150e-03
Coefficient: 7.42e-01
Value: Luminal

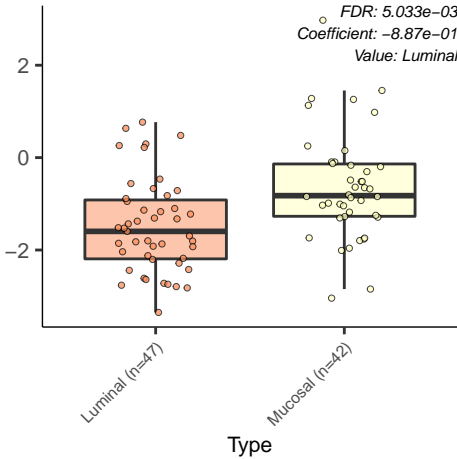


X226_Oscillibacter.

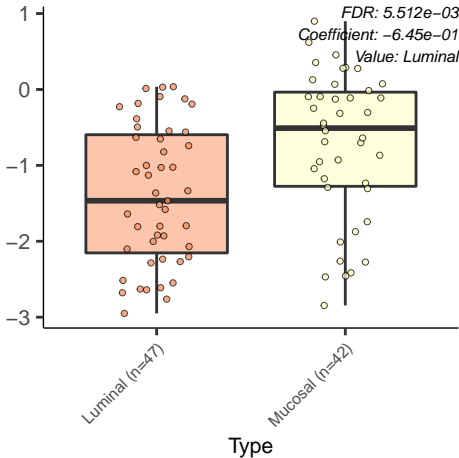


X175_Ruminiclostridium.

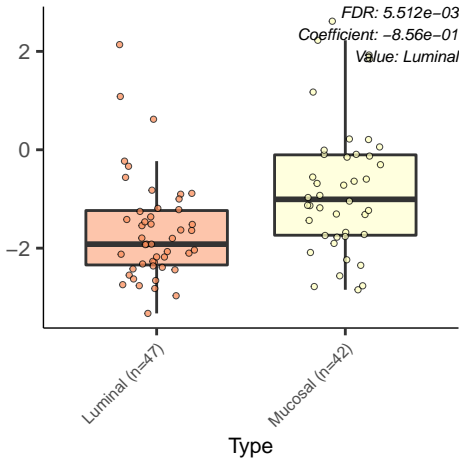
FDR: 5.033e-03
Coefficient: -8.87e-01
Value: Luminal



X213_Acetatifactor.muris

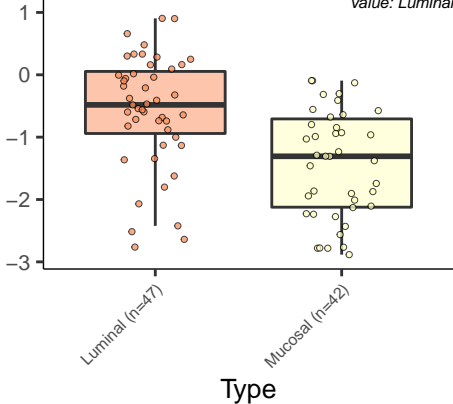


X316_Lachnospiraceae..f.

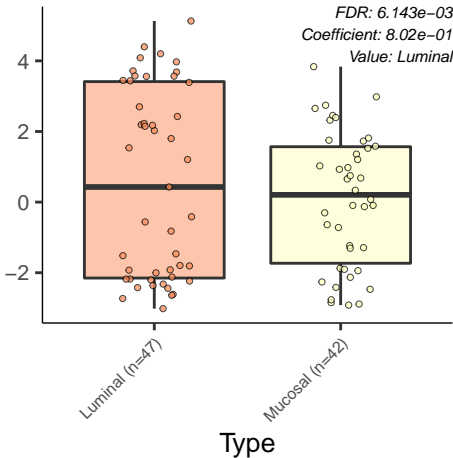


X289_Alistipes.

FDR: 5.913e-03
Coefficient: 7.35e-01
Value: Luminal

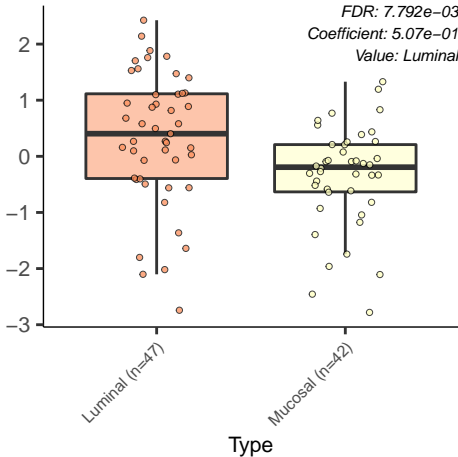


X242_Alistipes.

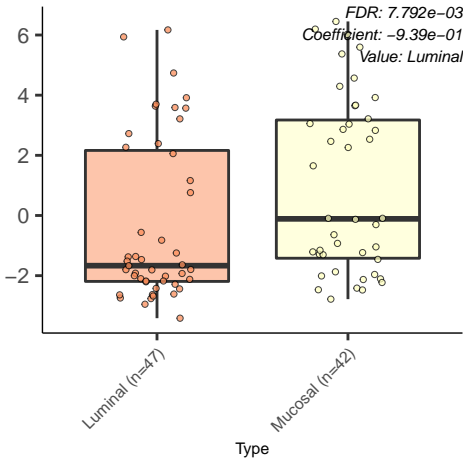


X173_Odoribacter.

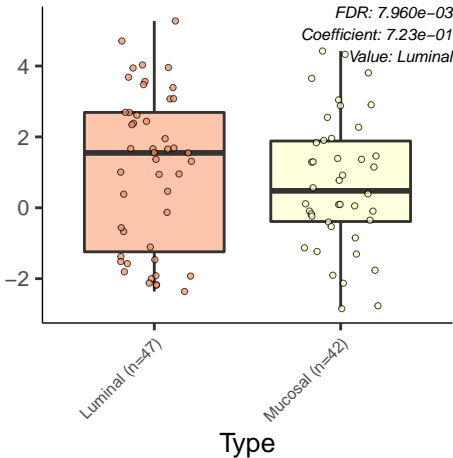
FDR: 7.792e-03
Coefficient: 5.07e-01
Value: Luminal



X236_Lachnospiraceae_NK4A136_group.

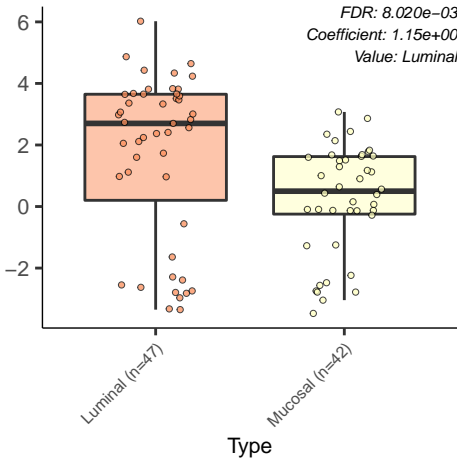


X87_Alistipes.



X56_Muribaculaceae..f.

FDR: 8.020e-03
Coefficient: 1.15e+00
Value: Luminal



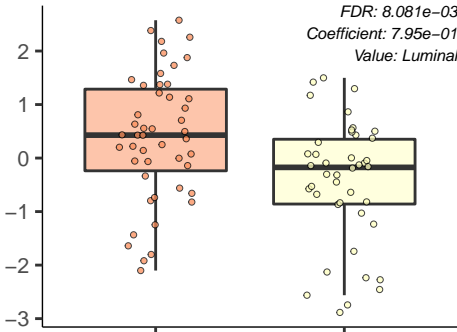
X223_Muribaculaceae..f.

FDR: 8.081e-03
Coefficient: 7.95e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



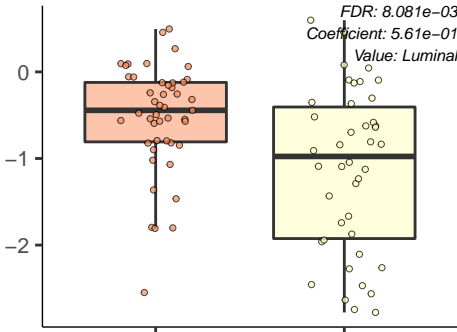
X228_Intestinimonas.

Luminal (n=47)

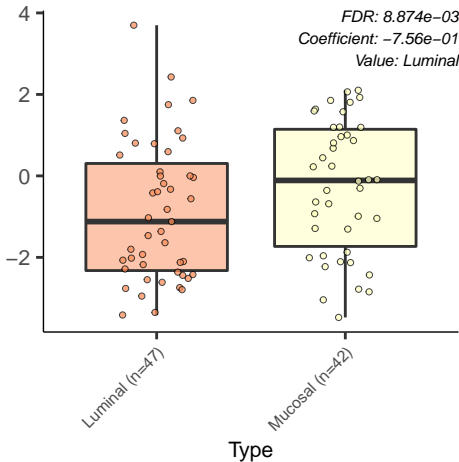
Mucosal (n=42)

Type

FDR: $8.081e-03$
Coefficient: $5.61e-01$
Value: Luminal



X265_Lachnospiraceae..f.



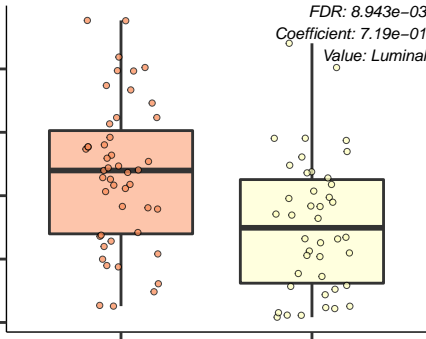
X134_Ruminococcaceae_UCG.010.

FDR: $8.943e-03$
Coefficient: $7.19e-01$
Value: Luminal

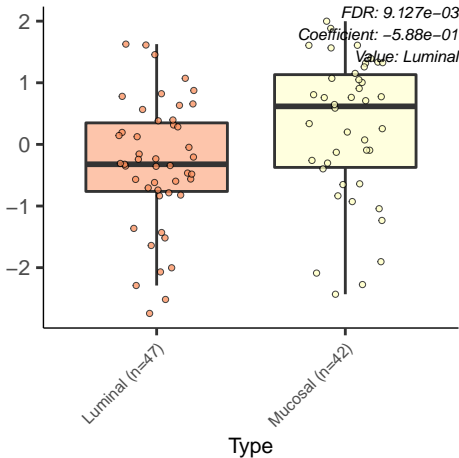
Luminal (n=47)

Mucosal (n=42)

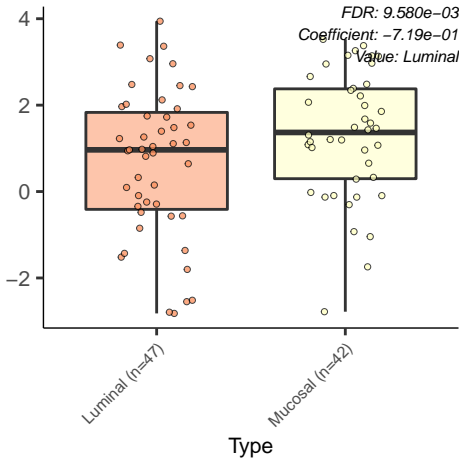
Type



X255_Acetatifactor.

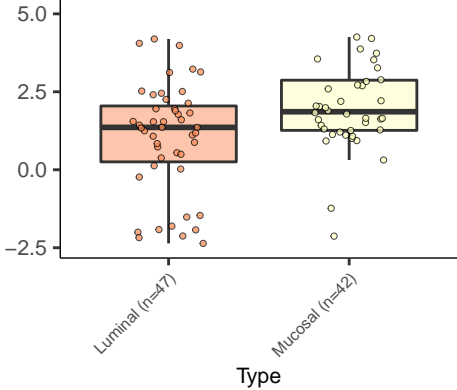


X269_Lachnospiraceae..f.

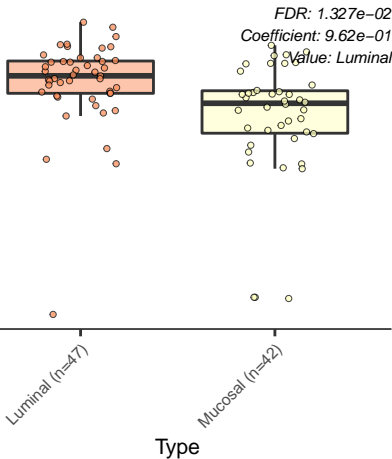


X163_Bacteroides.vulgatus

FDR: 1.180e-02
Coefficient: -8.95e-01
Value: Luminal



X19_Muribaculaceae..f.



X149_Bacteroides.acidifaciens

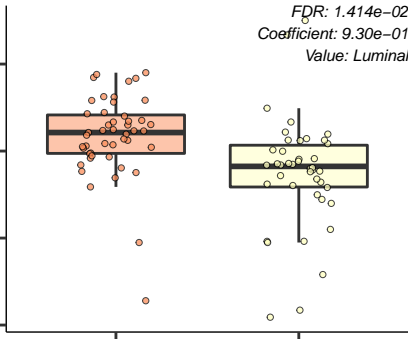
FDR: 1.414e-02
Coefficient: 9.30e-01
Value: Luminal

5.0
2.5
0.0
-2.5

Luminal (n=47)

Mucosal (n=42)

Type



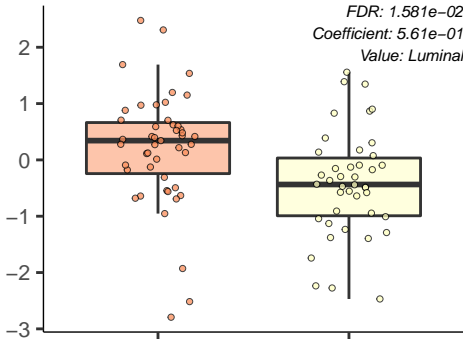
X86_Candidatus_Stoquefichus.

FDR: 1.581e-02
Coefficient: 5.61e-01
Value: Luminal

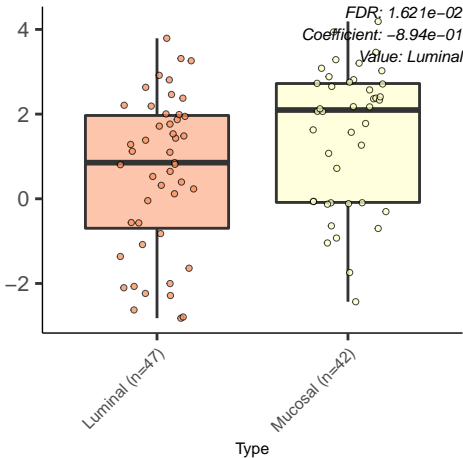
Luminal (n=47)

Mucosal (n=42)

Type



X50_Lachnospiraceae_UCG.001.



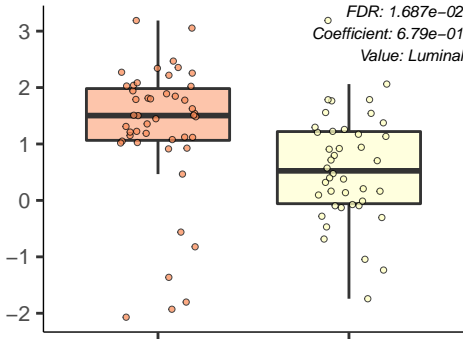
X198_Rikenellaceae_RC9_gut_group.

FDR: 1.687e-02
Coefficient: 6.79e-01
Value: Luminal

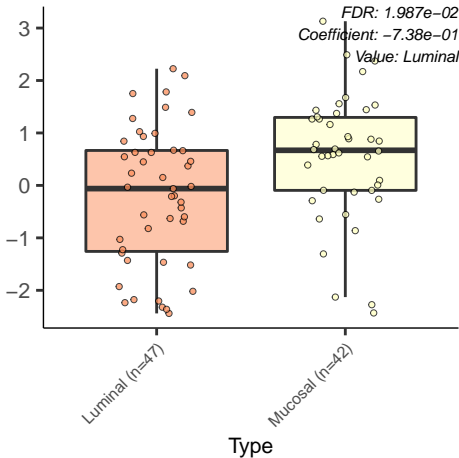
Luminal (n=47)

Mucosal (n=42)

Type



X66_Butyricoccus.



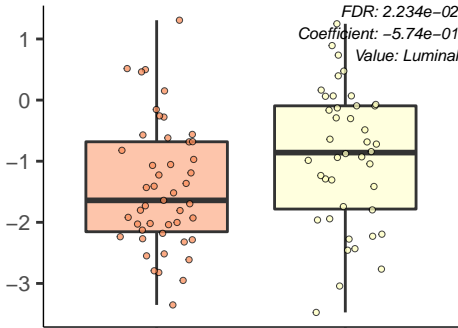
X208_Oscillibacter.

FDR: 2.234e-02
Coefficient: -5.74e-01
Value: Luminal

Luminal (n=47)

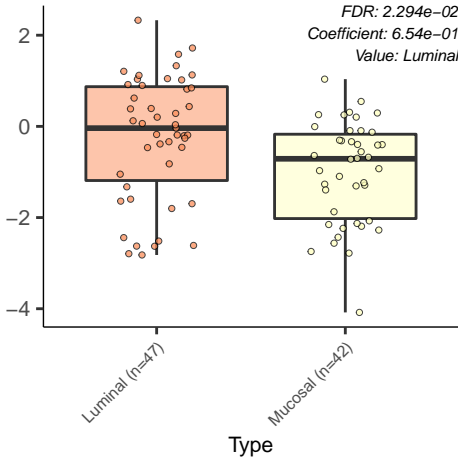
Mucosal (n=42)

Type

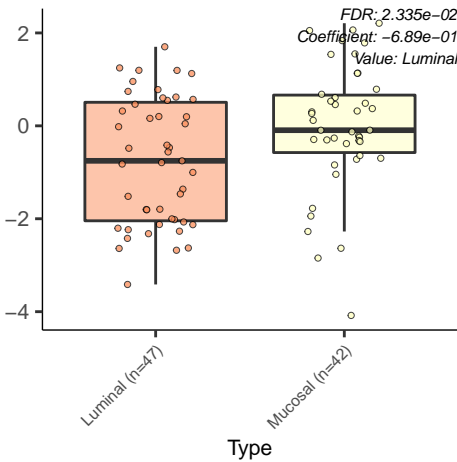


X266_Muribaculaceae..f.

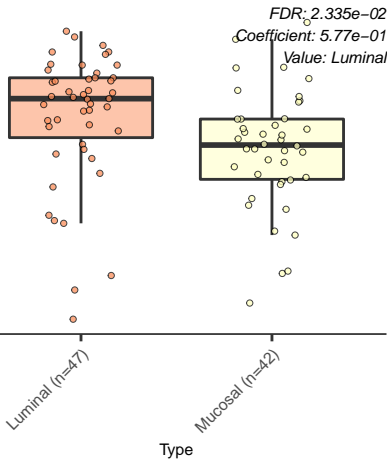
FDR: 2.294e-02
Coefficient: 6.54e-01
Value: Luminal



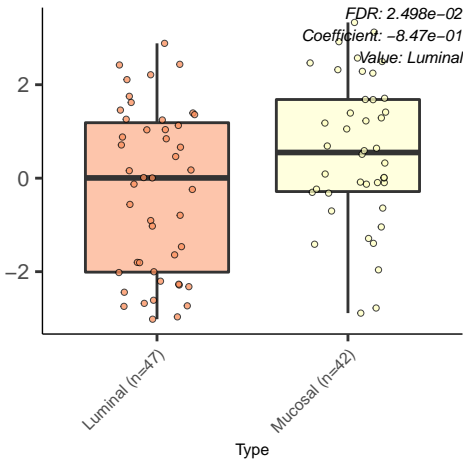
X129_Intestinimonas.



X174_Ruminococcaceae_UCG.014.



X172_Lachnospiraceae_NK4A136_group.



X99_Lachnospiraceae..f.

2

0

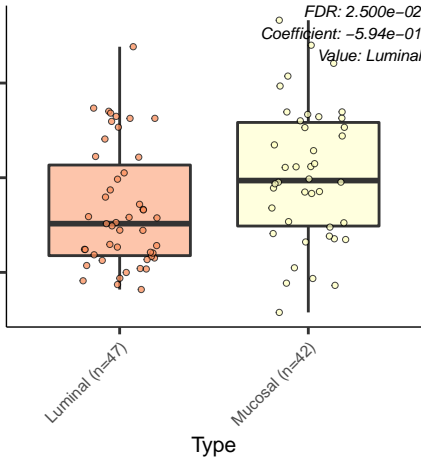
-2

Luminal (n=47)

Mucosal (n=42)

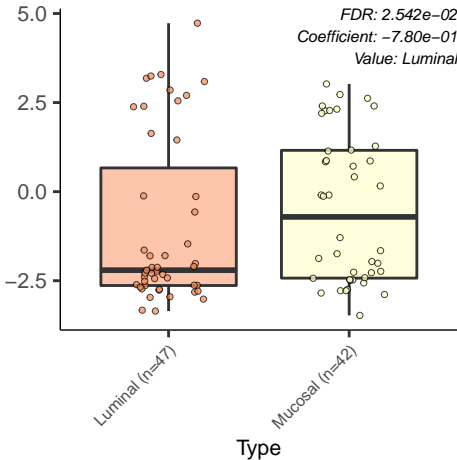
Type

FDR: 2.500e-02
Coefficient: -5.94e-01
Value: Luminal



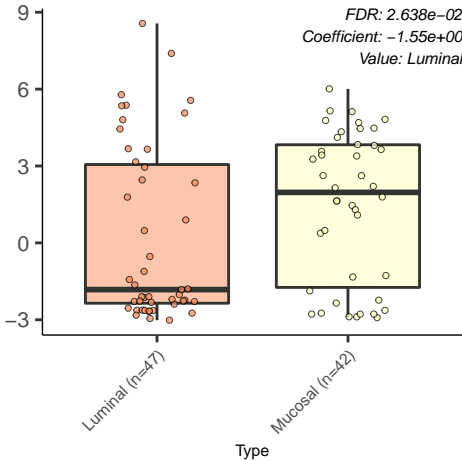
X239_Anaeroplasma.

FDR: 2.542e-02
Coefficient: -7.80e-01
Value: Luminal



X73_Akkermansia.muciniphila

FDR: $2.638e-02$
Coefficient: $-1.55e+00$
Value: Luminal



X37_Lachnospiraceae_UCG.001.

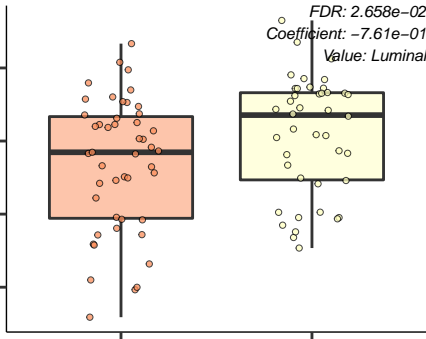
FDR: 2.658e-02
Coefficient: -7.61e-01
Value: Luminal

4
2
0
-2

Luminal (n=47)

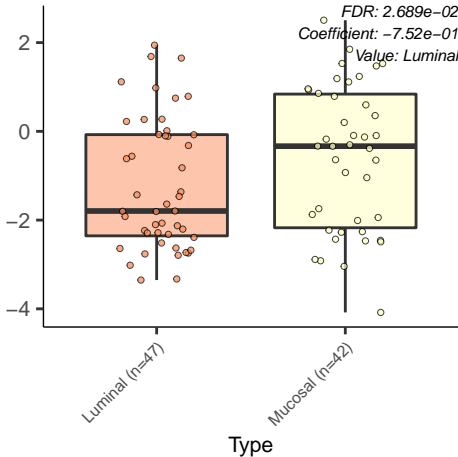
Mucosal (n=42)

Type



X61_Lachnospiraceae.f.

FDR: 2.689×10^{-2}
Coefficient: -7.52×10^{-1}
Value: Luminal



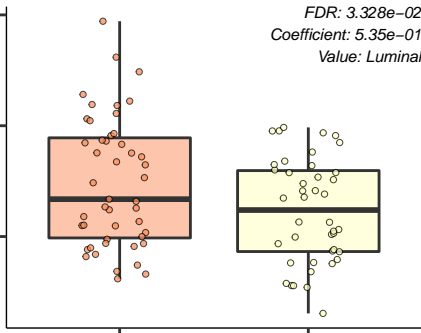
X274_Enterorhabdus.muris

FDR: 3.328e-02
Coefficient: 5.35e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



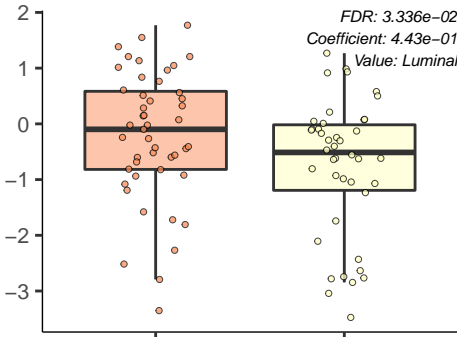
X128_GCA.900066575.

Luminal (n=47)

Mucosal (n=42)

Type

FDR: $3.336e-02$
Coefficient: $4.43e-01$
Value: Luminal



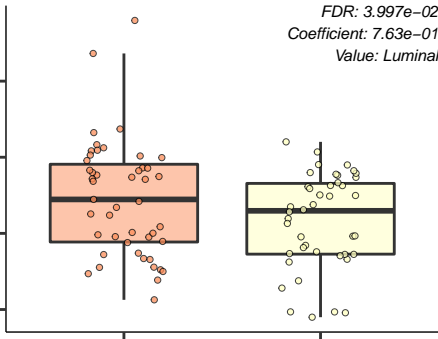
X24_Lactobacillus.intestinalis

FDR: 3.997e-02
Coefficient: 7.63e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



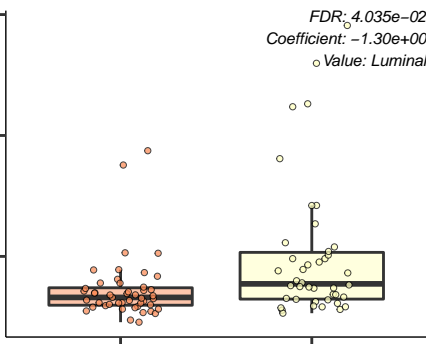
X152_Mucispirillum.schaedleri

FDR: $4.035e-02$
Coefficient: $-1.30e+00$
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



X28_Staphylococcus.

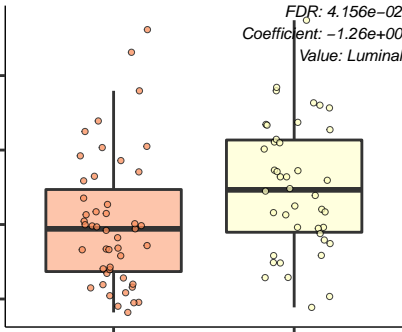
5.0
2.5
0.0
-2.5

Luminal (n=47)

Mucosal (n=42)

Type

FDR: 4.156e-02
Coefficient: -1.26e+00
Value: Luminal



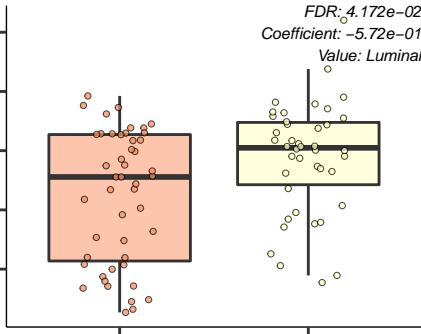
X202_Ruminiclostridium.

FDR: 4.172e-02
Coefficient: -5.72e-01
Value: Luminal

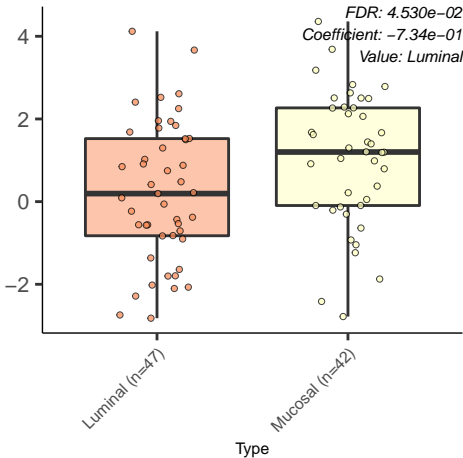
Luminal (n=47)

Mucosal (n=42)

Type



X25_Candidatus_Arthromitus.



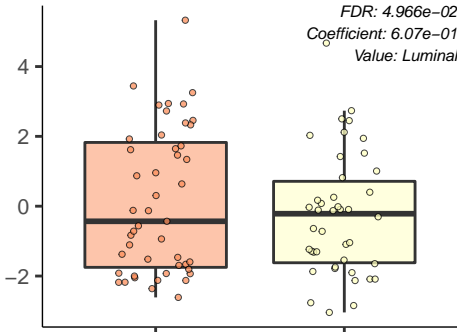
X169_Muribaculaceae..f.

FDR: 4.966e-02
Coefficient: 6.07e-01
Value: Luminal

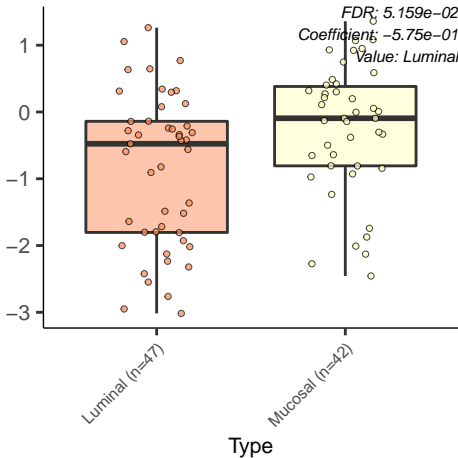
Luminal (n=47)

Mucosal (n=42)

Type



X299_Ruminiclostridium.



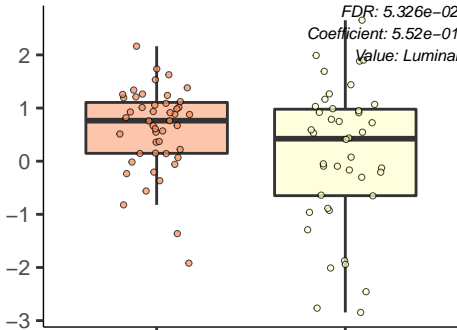
X126_Oscillibacter.

FDR: 5.326e-02
Coefficient: 5.52e-01
Value: Luminal

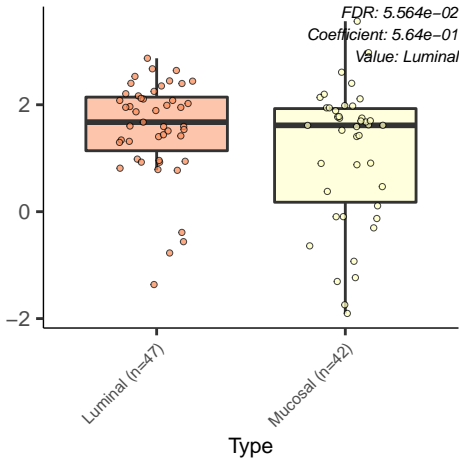
Luminal (n=47)

Mucosal (n=42)

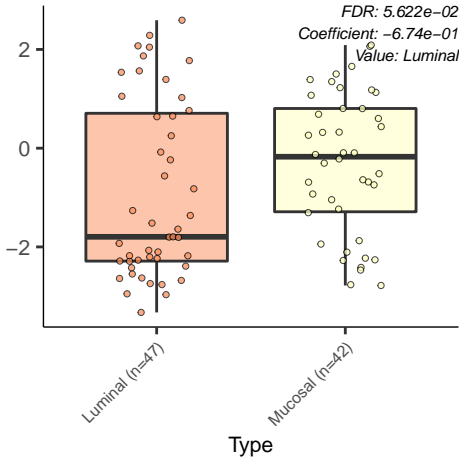
Type



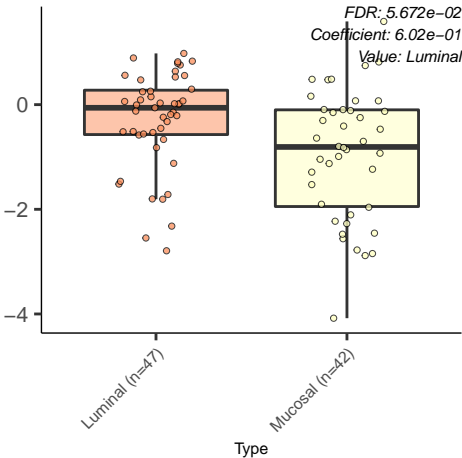
X84_Intestinimonas.



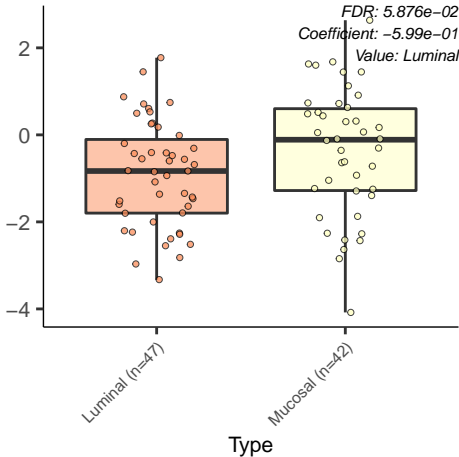
X158_Ruminiclostridium_6.



X75_Christensenellaceae..f.



X212_Lachnospiraceae..f.



X111_Streptococcus.

2

0

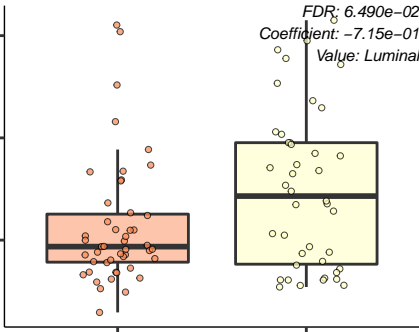
-2

Luminal (n=47)

Mucosal (n=42)

Type

FDR: $6.490e-02$
Coefficient: $-7.15e-01$
Value: Luminal



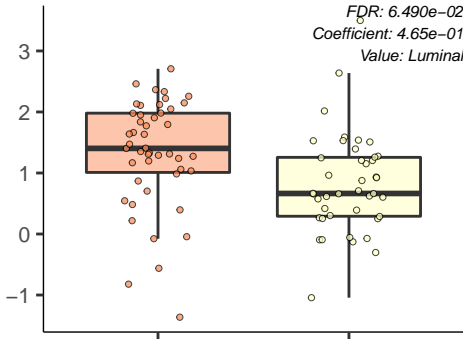
X164_Rikenellaceae_RC9_gut_group.

FDR: 6.490e-02
Coefficient: 4.65e-01
Value: Luminal

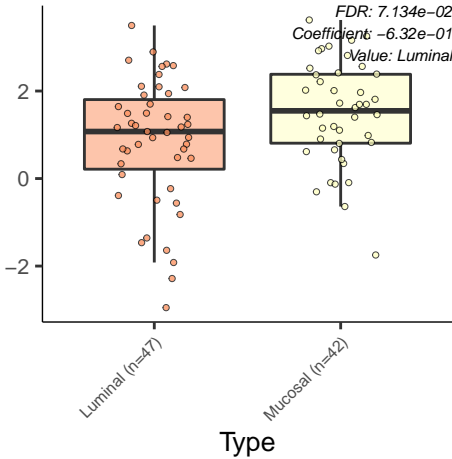
Luminal (n=47)

Mucosal (n=42)

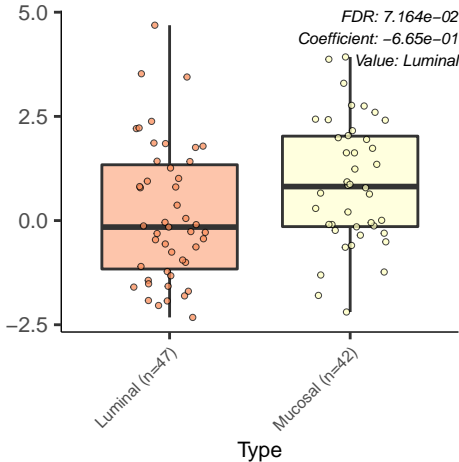
Type



X195_Roseburia.

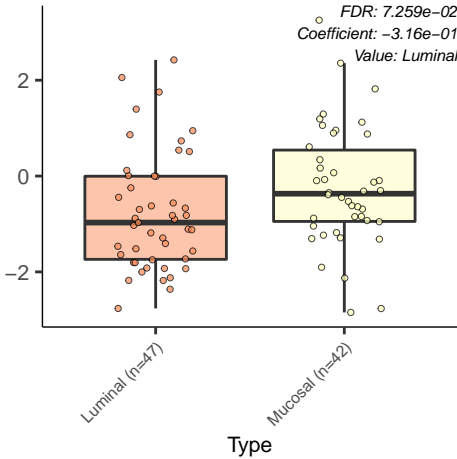


X8_Lachnospiraceae..f.

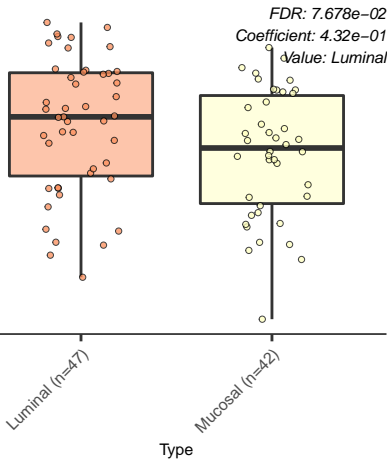


X204_Ruminiclostridium.

FDR: 7.259e-02
Coefficient: -3.16e-01
Value: Luminal



X192_Christensenellaceae_R.7_group.



X187_Ruminiclostridium_5.

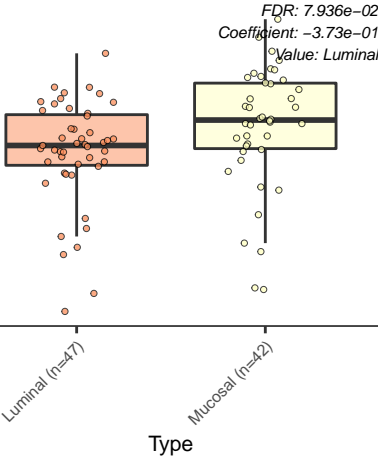
1
0
-1
-2
-3

Luminal (n=47)

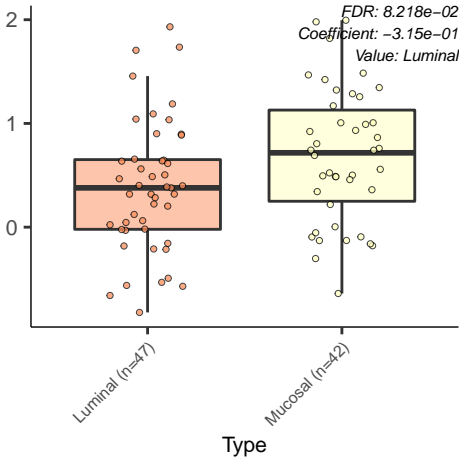
Mucosal (n=42)

Type

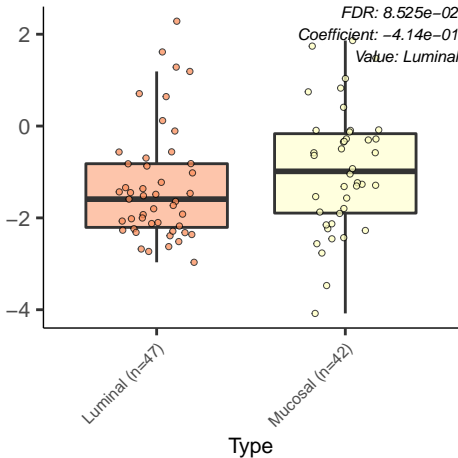
FDR: $7.936e-02$
Coefficient: $-3.73e-01$
Value: Luminal



X177_Family_XIII_UCG.001.



X281_Ruminiclostridium.



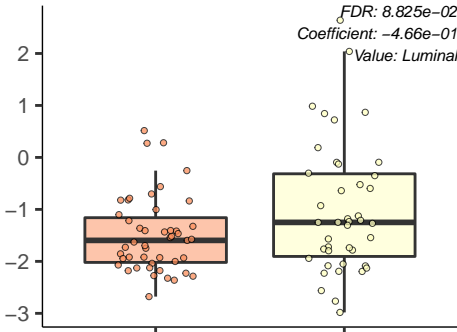
X218_Lachnospiraceae..f.

FDR: $8.825e-02$
Coefficient: $-4.66e-01$
Value: Luminal

Luminal (n=47)

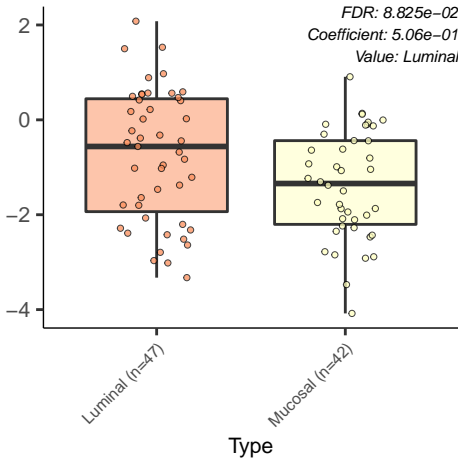
Mucosal (n=42)

Type



X258_Muribaculaceae..f.

FDR: 8.825e-02
Coefficient: 5.06e-01
Value: Luminal



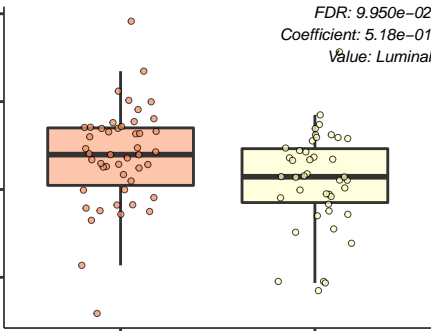
X26_Parasutterella.

FDR: $9.950e-02$
Coefficient: $5.18e-01$
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



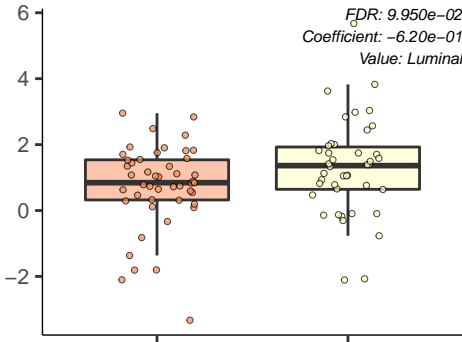
X122_Parabacteroides.goldsteinii

FDR: $9.950e-02$
Coefficient: $-6.20e-01$
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



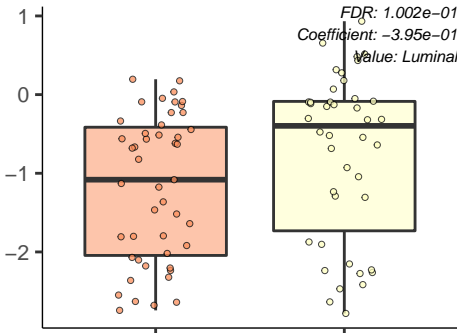
X106_GCA.900066225.

Luminal (n=47)

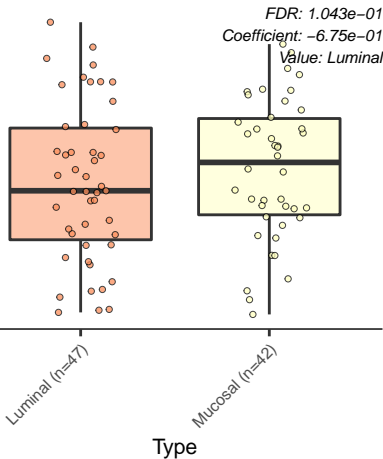
Mucosal (n=42)

Type

FDR: 1.002e-01
Coefficient: -3.95e-01
Value: Luminal



X18_Lachnoclostridium.



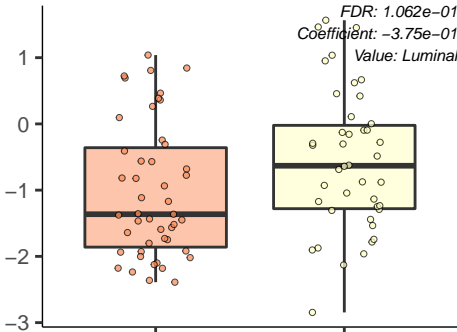
X117_Ruminiclostridium_5.

FDR: 1.062e-01
Coefficient: -3.75e-01
Value: Luminal

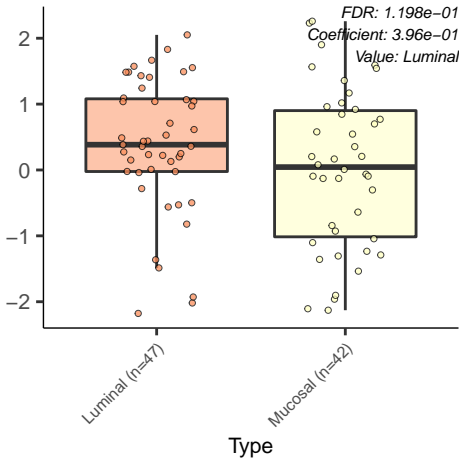
Luminal (n=47)

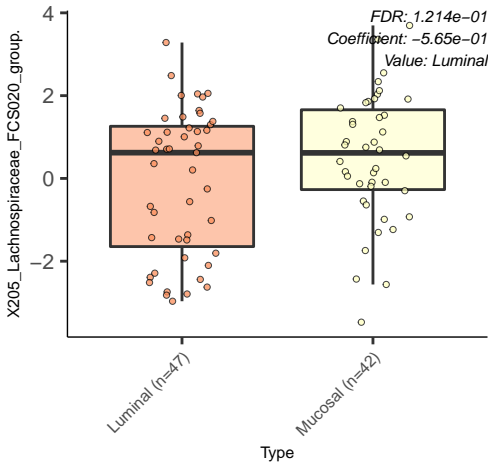
Mucosal (n=42)

Type



X64_Intestinimonas.





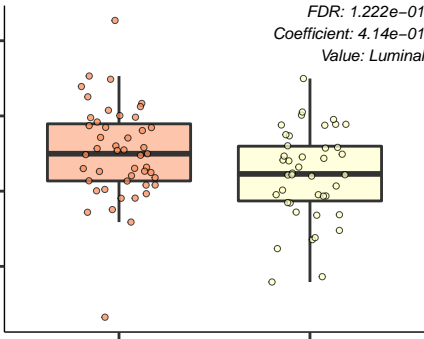
X17_Lachnospiraceae_UCG.006.

FDR: 1.222e-01
Coefficient: 4.14e-01
Value: Luminal

Luminal (n=47)

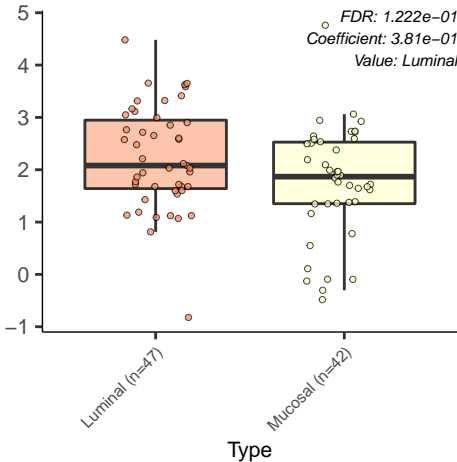
Mucosal (n=42)

Type

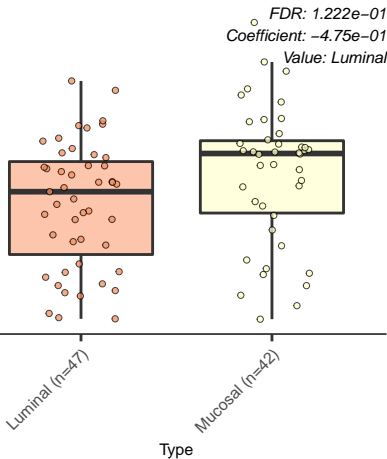


X51_Parasutterella.

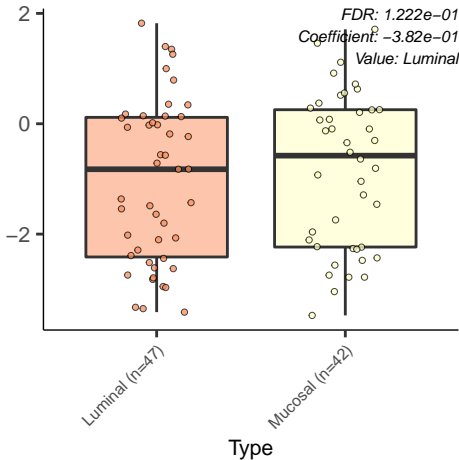
FDR: 1.222e-01
Coefficient: 3.81e-01
Value: Luminal



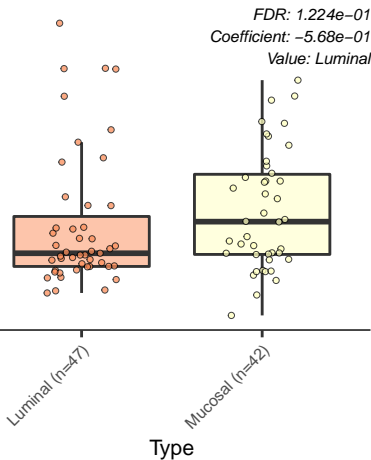
X220_Gastranaerophilales...o.



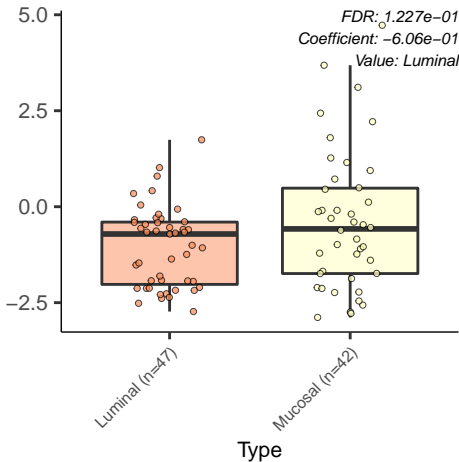
X259_Lachnoclostridium.



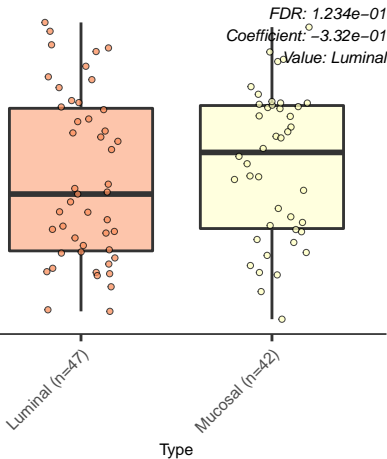
X301_Lachnospiraceae..f.



X190_Bacteroides.



X244_Clostridiales_vadinBB60_group..f.



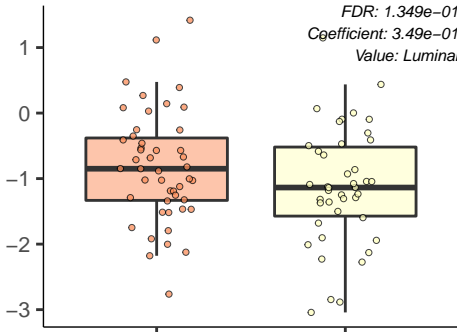
X57_Lachnospiraceae..f.

FDR: 1.349e-01
Coefficient: 3.49e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



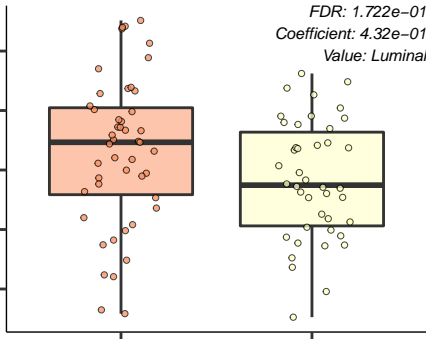
X124_Ruminococcaceae_UCG.014.

FDR: 1.722e-01
Coefficient: 4.32e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



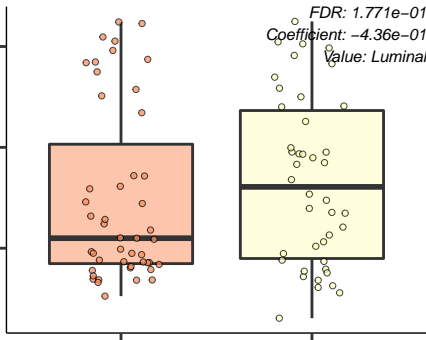
X277_Lachnospiraceae_UCG.006.

FDR: 1.771e-01
Coefficient: -4.36e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



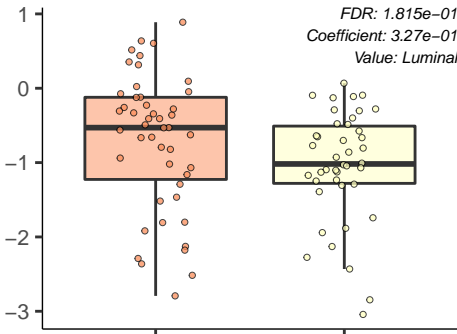
X36_Family_XIII.f.

FDR: 1.815e-01
Coefficient: 3.27e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



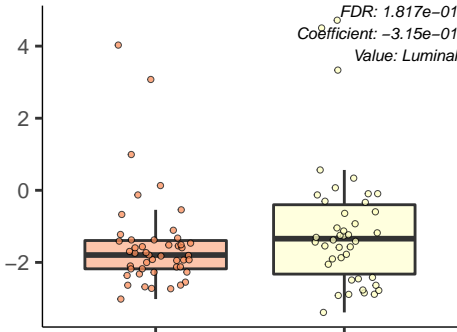
X49_Lachnospiraceae..f.

FDR: 1.817e-01
Coefficient: -3.15e-01
Value: Luminal

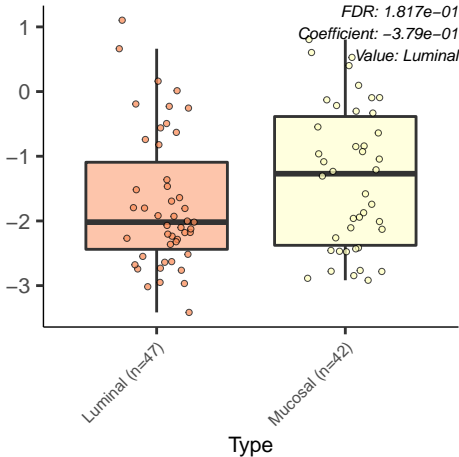
Luminal (n=47)

Mucosal (n=42)

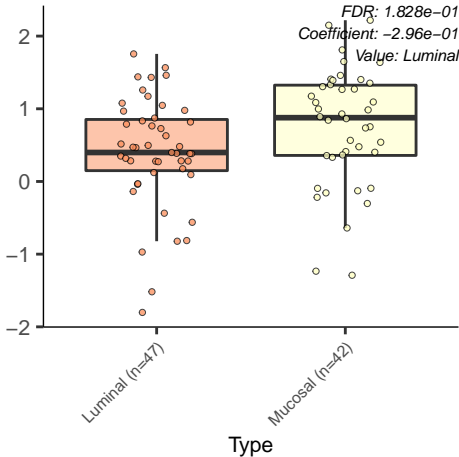
Type



X296_Lachnospiraceae..f.



X127_Ruminococcaceae..f.



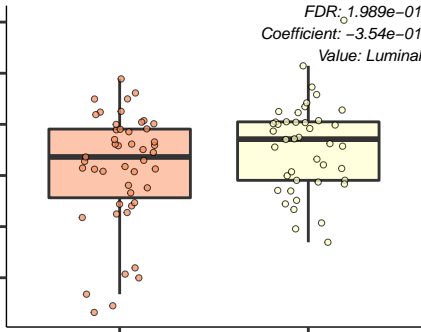
X206_Ruminiclostridium.

FDR: 1.989e-01
Coefficient: -3.54e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



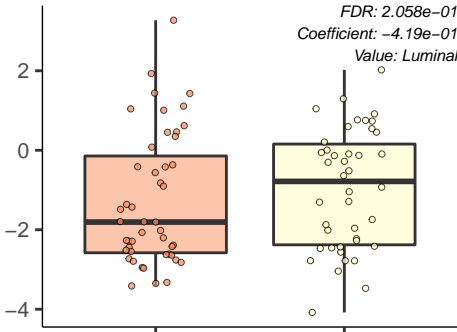
X286_Ruminiclostridium_5.

FDR: 2.058e-01
Coefficient: -4.19e-01
Value: Luminal

Luminal (n=47)

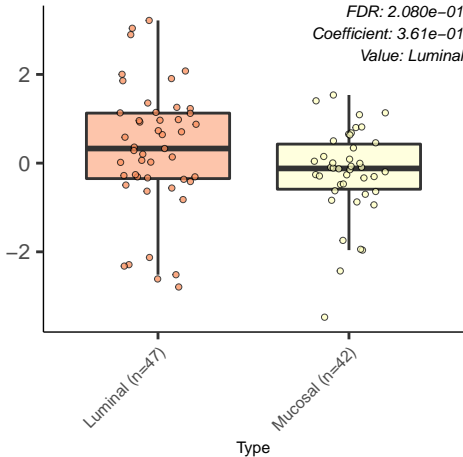
Mucosal (n=42)

Type

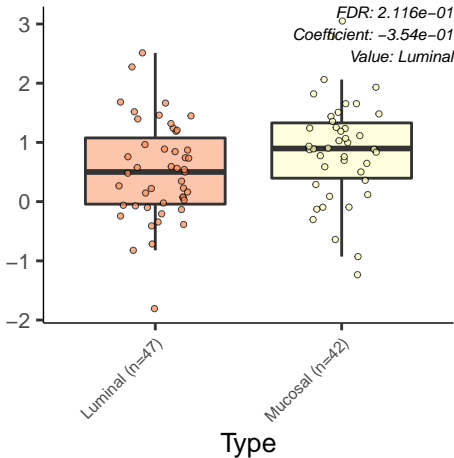


X167_Clostridiales_vadinBB60_group..f.

FDR: 2.080e-01
Coefficient: 3.61e-01
Value: Luminal



X143_Bilophila.



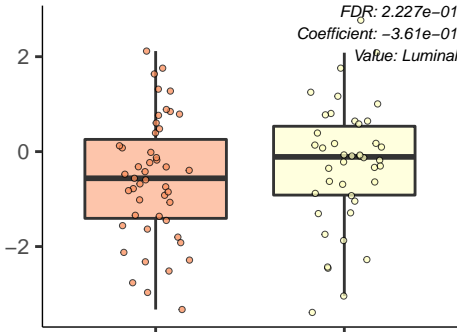
X291_Lachnospiraceae..f.

FDR: 2.227e-01
Coefficient: -3.61e-01
Value: Luminal

Luminal (n=47)

Mucosal (n=42)

Type



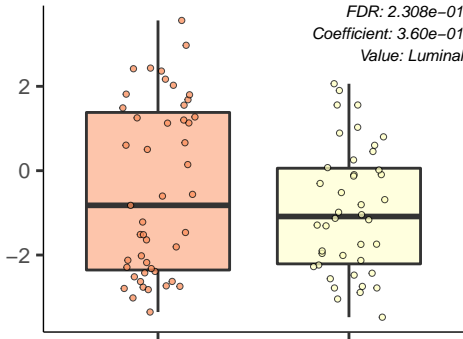
X81_Ruminococcaceae_UCG.014.

FDR: 2.308e-01
Coefficient: 3.60e-01
Value: Luminal

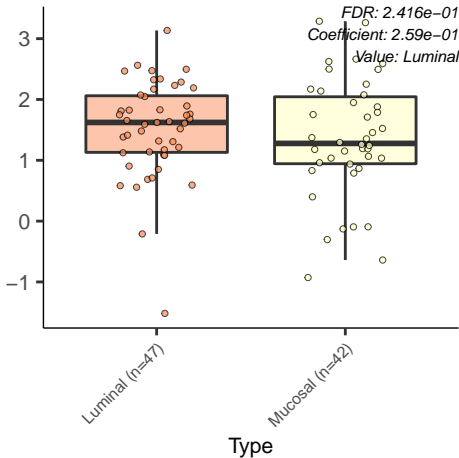
Luminal (n=47)

Mucosal (n=42)

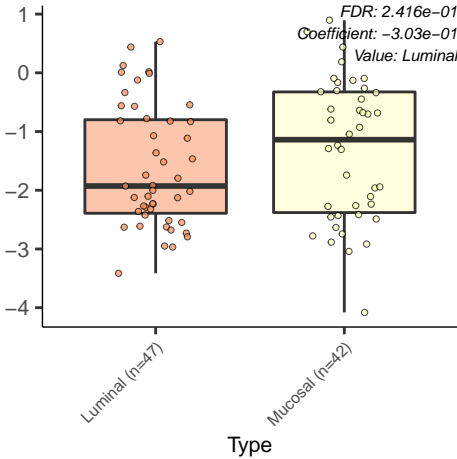
Type



X201_Oscillibacter.



X297_Ruminococcaceae...f.



X197_Lachnospiraceae..f.

