

Value: high



uncultured.marine.eukaryote

*FDR: 7.222e-09*  
*Coefficient: -5.58e+00*  
*Value: high*

200

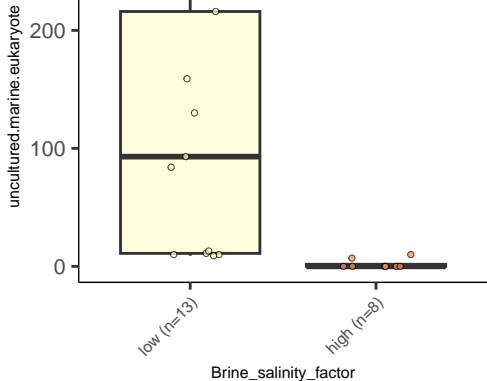
100

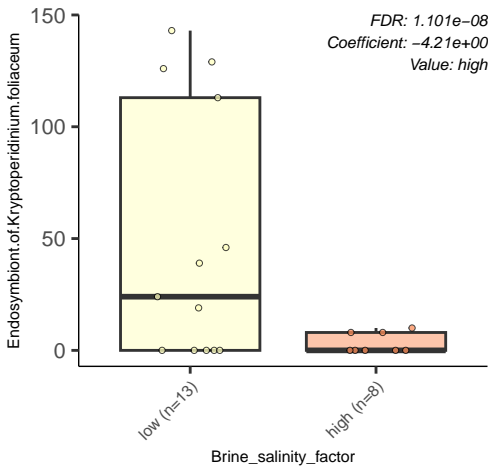
0

low (n=13)

high (n=8)

Brine\_salinity\_factor





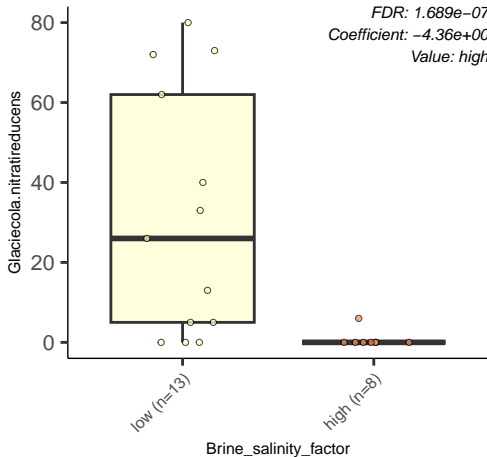
Glaciecola.nitrateducens

*FDR: 1.689e-07*  
*Coefficient: -4.36e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



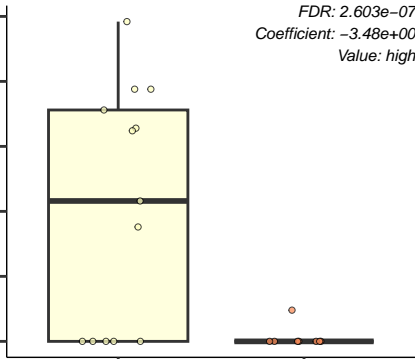
Tigriopus.cf..fulvus.BMR.2008

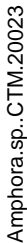
*FDR: 2.603e-07*  
*Coefficient: -3.48e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





*FDR: 3.587e-07*

Coefficient:  $-2.06e+00$

Value: high



Brine\_salinity\_factor

Amphora.coffeiformis

FDR: 6.776e-07

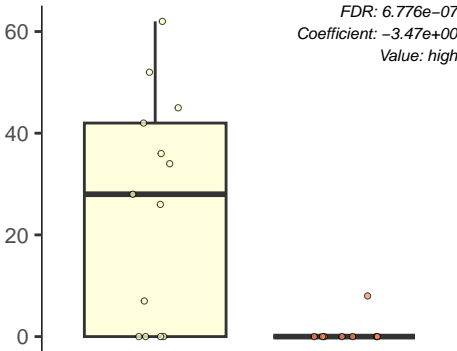
Coefficient: -3.47e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Harpacticus.sp..France\_RJH\_2007

*FDR: 8.244e-07*  
*Coefficient: -2.74e+00*  
*Value: high*

100

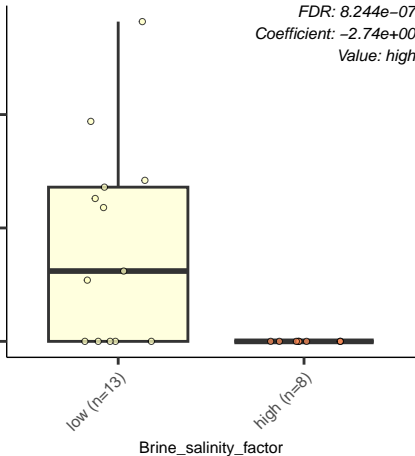
50

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Zaus.unisetosus

*FDR: 8.661e-07*

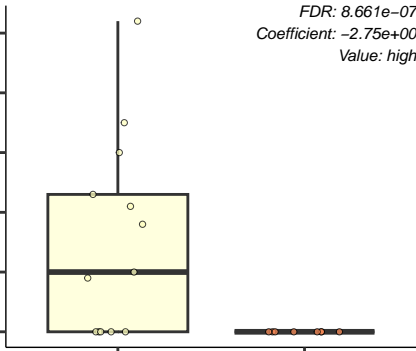
*Coefficient: -2.75e+00*

*Value: high*

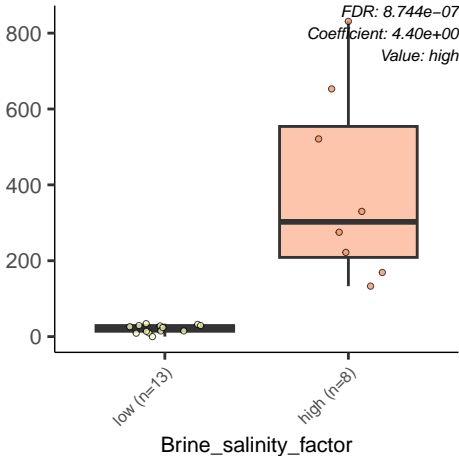
low (n=13)

high (n=8)

Brine\_salinity\_factor



Spiribacter.curvatus



Polaribacter.sejongensis

FDR: 8.744e-07

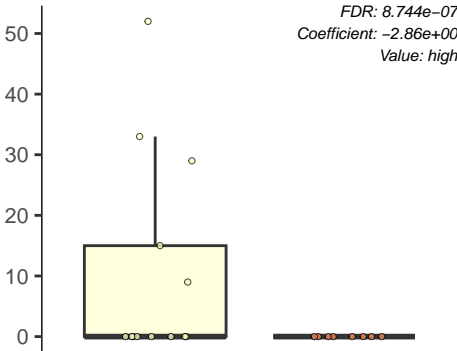
Coefficient: -2.86e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halohasta.litorea

75

50

25

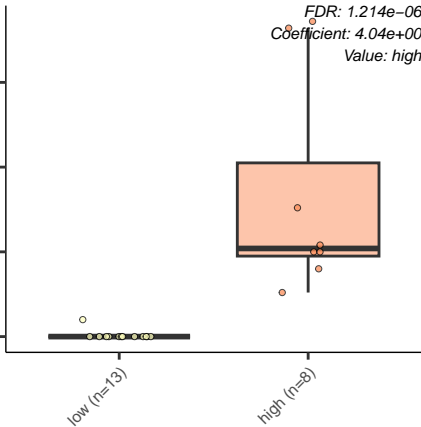
0

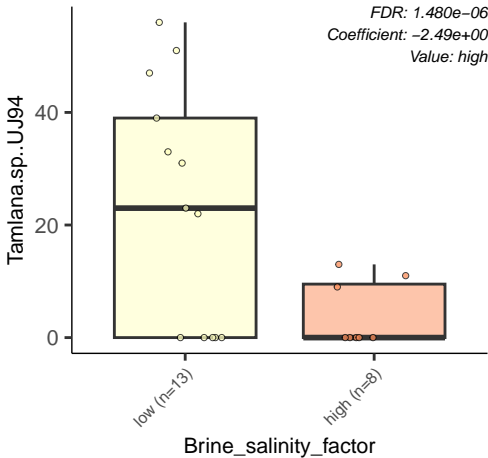
low (n=13)

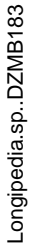
high (n=8)

Brine\_salinity\_factor

FDR: 1.214e-06  
Coefficient: 4.04e+00  
Value: high







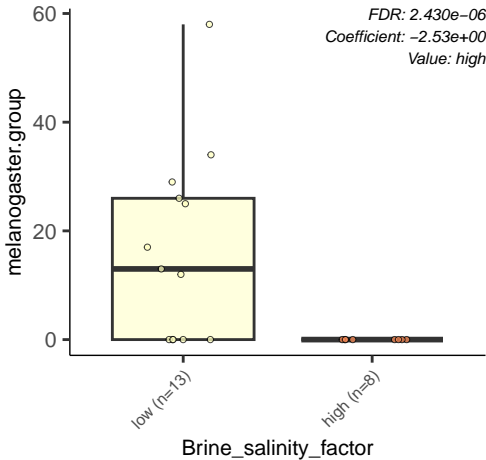
*FDR: 1.766e-06*

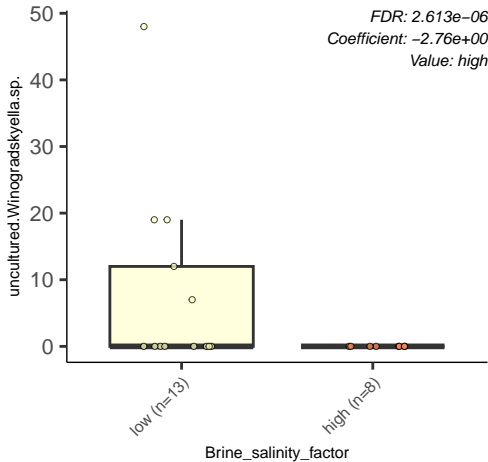
Coefficient:  $-2.97e+00$

Value: high



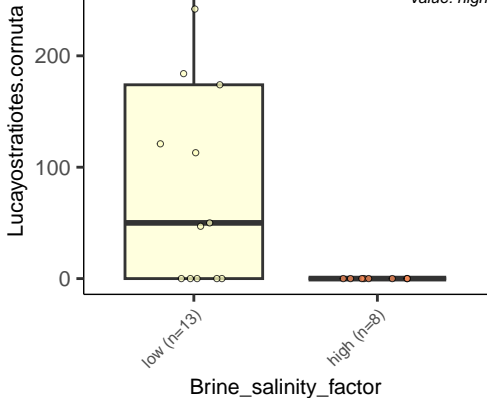
Brine\_salinity\_factor

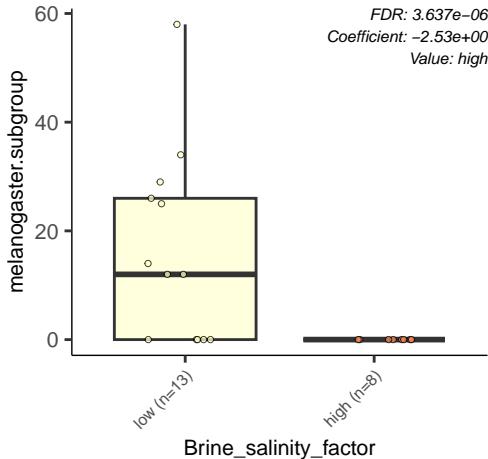






Value: high





*Drosophila.melanogaster*

*FDR: 3.637e-06*

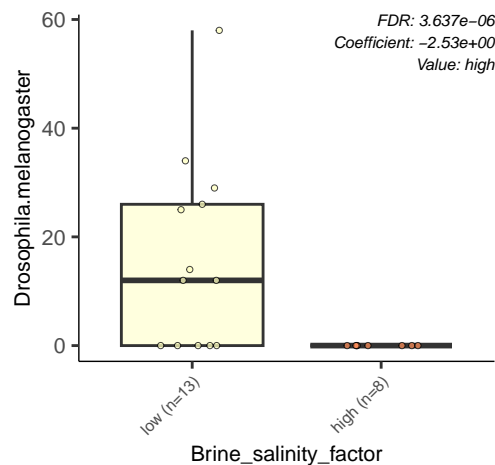
*Coefficient: -2.53e+00*

*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Aplanochytrium.stocchini

FDR:  $3.873e-06$

Coefficient:  $-2.65e+00$

Value: high

30

20

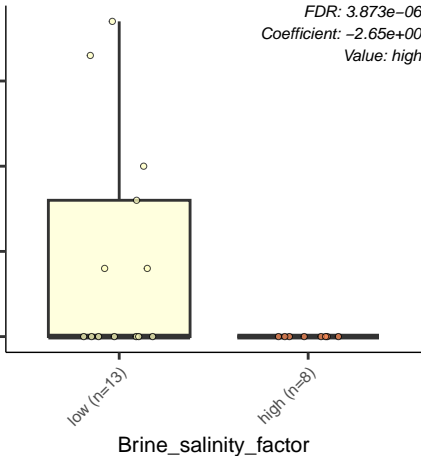
10

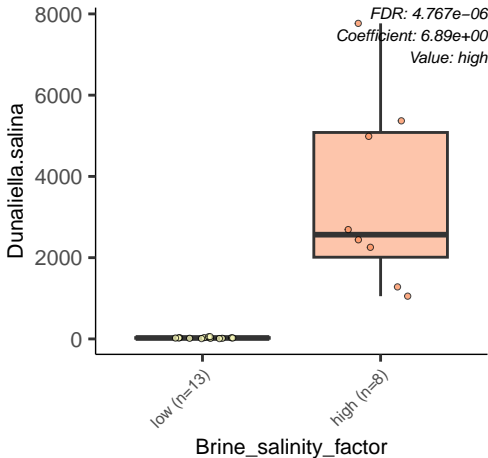
0

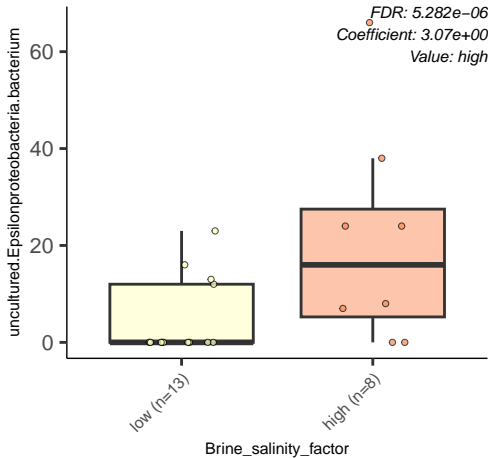
low (n=13)

high (n=8)

Brine\_salinity\_factor

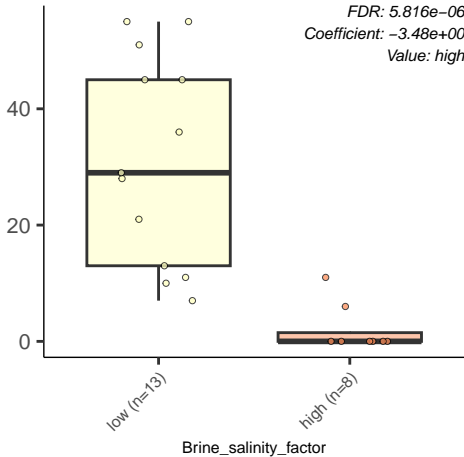




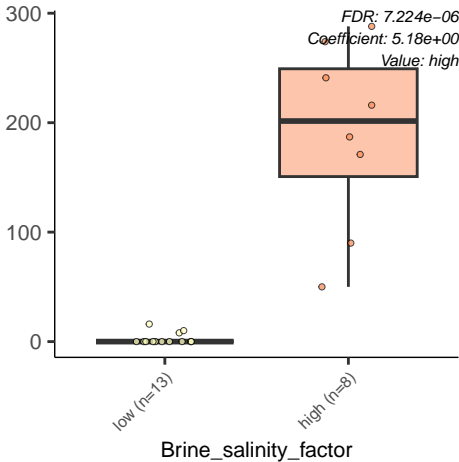


uncultured.Verrucomicrobiales.bacterium.HF0010\_05E0

*FDR: 5.816e-06*  
*Coefficient: -3.48e+00*  
*Value: high*



Acholeplasma.brassicae





Value: high



low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

Value: high



Isochrysis.sp..SAG.927.2

FDR: 1.318e-05

Coefficient: -2.37e+00

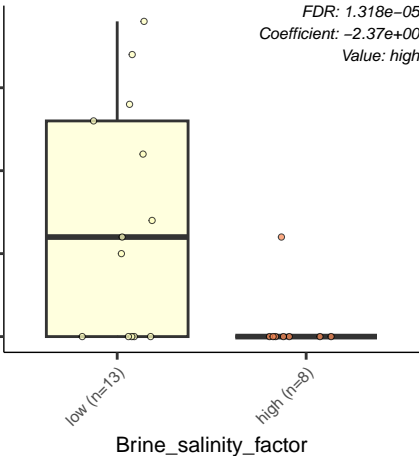
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor

15  
10  
5  
0



Halanaerobacter.lacunarum

60

40

20

0

low (n=13)

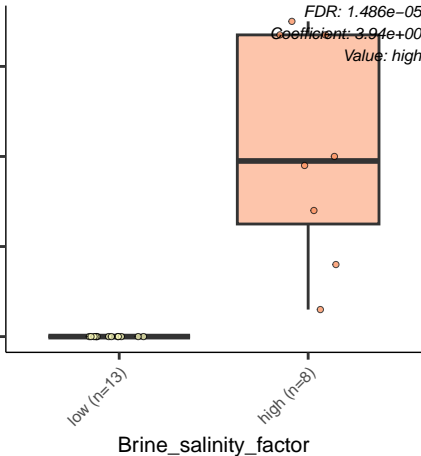
high (n=8)

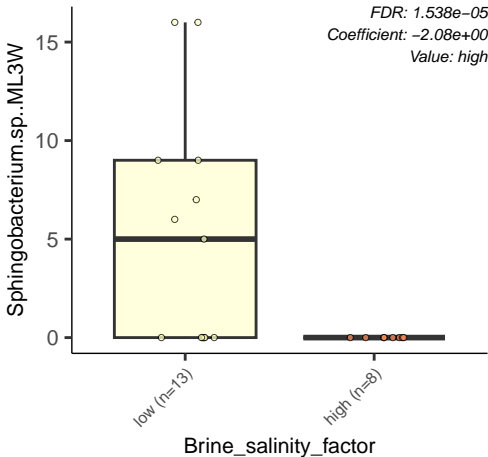
Brine\_salinity\_factor

FDR:  $1.486e-05$

Coefficient:  $3.94e+00$

Value: high





Halobacteriaceae.archaeon.SL.2

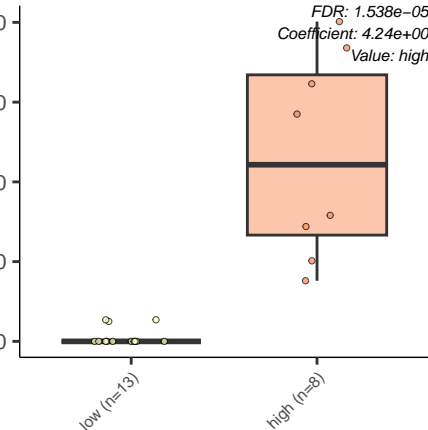
400  
300  
200  
100  
0

low (n=13)

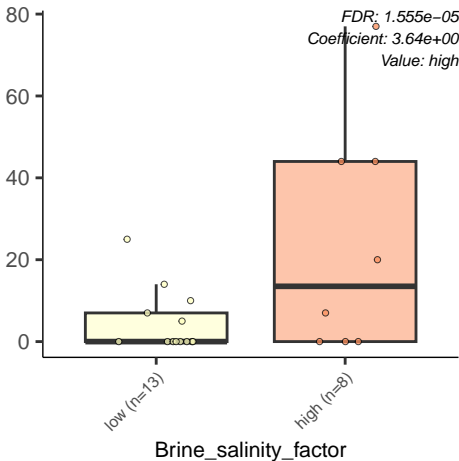
high (n=8)

Brine\_salinity\_factor

FDR:  $1.538e-05$   
Coefficient:  $4.24e+00$   
Value: high



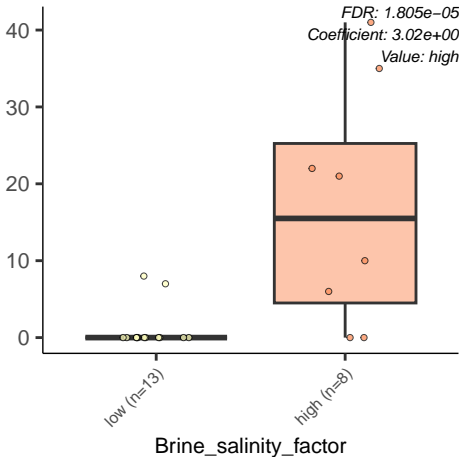
Sulfurimonas.autotrophica







Capnocytophaga.stomatis



Halorubrum.xinjiangense

FDR:  $1.876e-05$   
Coefficient:  $4.27e+00$   
Value: high

200

150

100

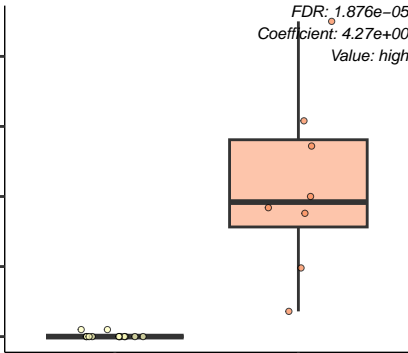
50

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



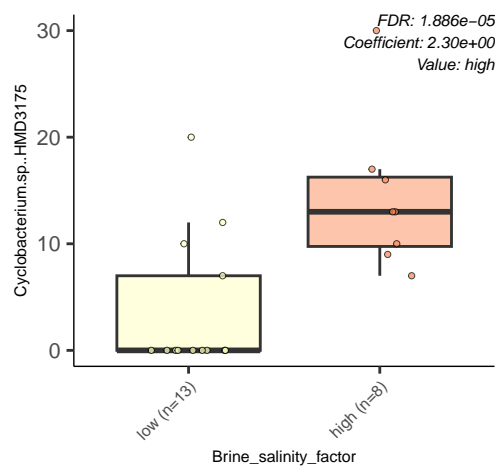
Cyclobacterium.sp..HMD3175

*FDR: 1.886e-05*  
*Coefficient: 2.30e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Tigriopus.japonicus

*FDR: 2.125e-05*

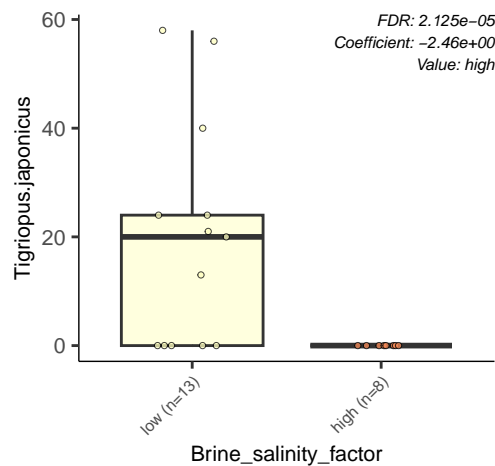
*Coefficient: -2.46e+00*

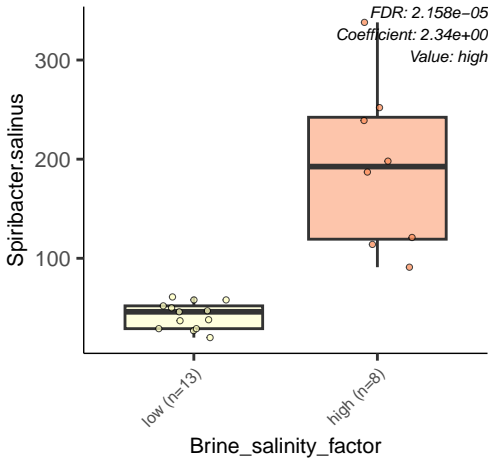
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





Lacinutrix.sp..Bg11.31

FDR: 2.374e-05

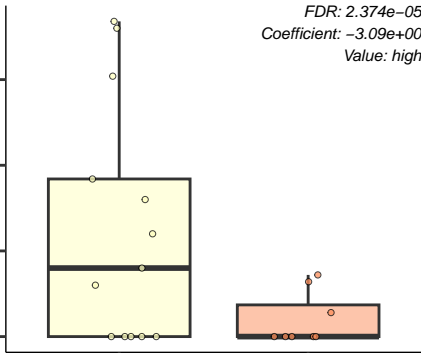
Coefficient: -3.09e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



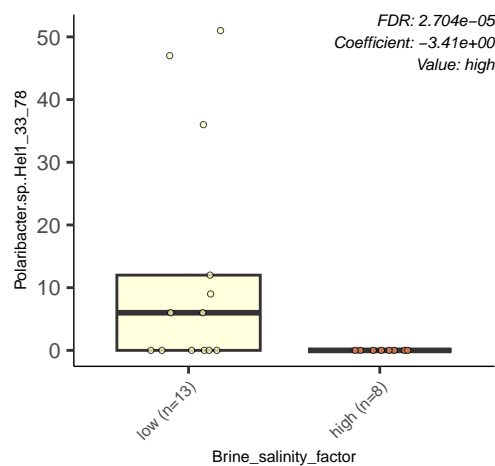
Polaribacter.sp..Hel1\_33\_78

*FDR: 2.704e-05*  
*Coefficient: -3.41e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halanaerobacter.jeridensis

600

400

200

low (n=13)

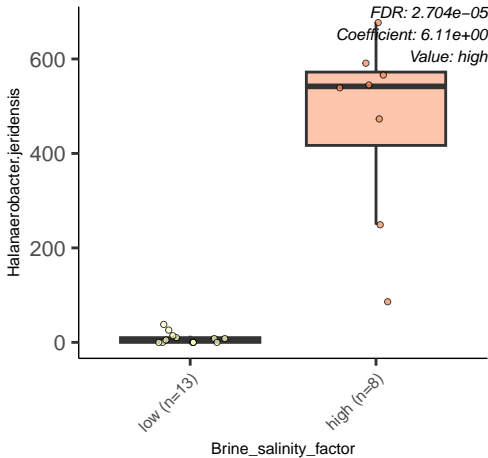
high (n=8)

Brine\_salinity\_factor

FDR: 2.704e-05

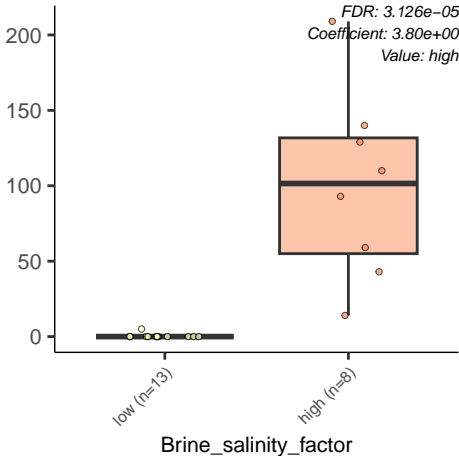
Coefficient: 6.11e+00

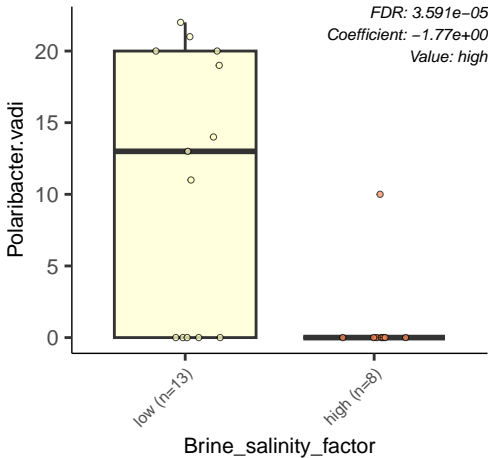
Value: high



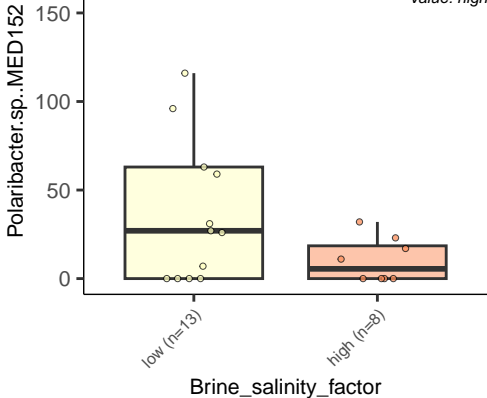


Halorubrum.sp..TP132

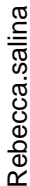




Value: high



Value: high



40 -

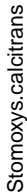
20 -

0 -

low ( $n=13$ )

high (n=8)

Brine\_salinity\_factor



*FDR: 4.759e-05*

Coefficient:  $-2.21e+00$

Value: high



Brine\_salinity\_factor





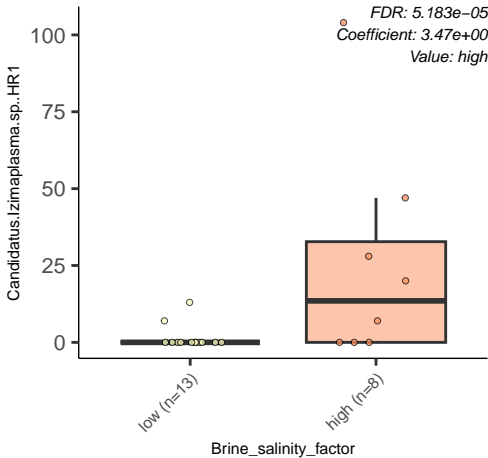
Candidatus.Izimaplasma.sp..HR1

FDR:  $5.183e-05$   
Coefficient:  $3.47e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





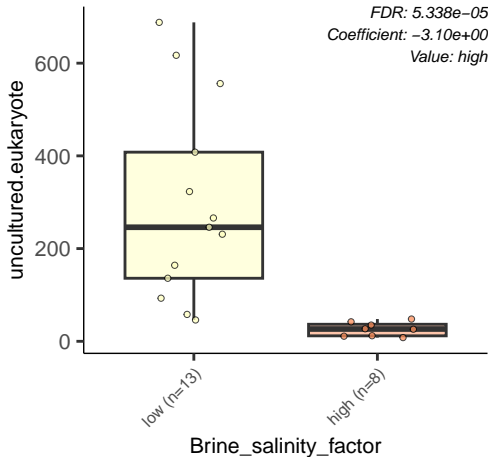
uncultured.eukaryote

*FDR: 5.338e-05*  
*Coefficient: -3.10e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halohasta.sp.

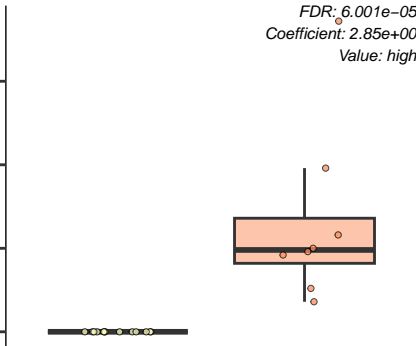
FDR:  $6.001e-05$   
Coefficient:  $2.85e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor

75  
50  
25  
0



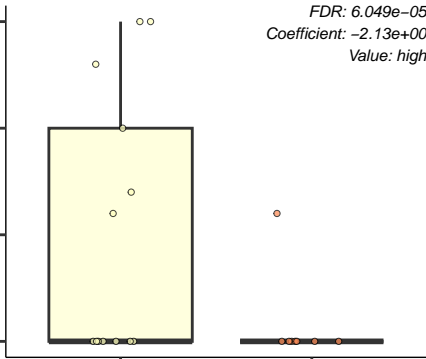
Haptophyta.environmental.samples

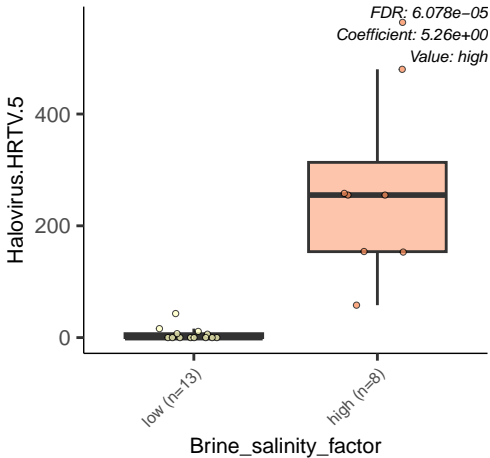
*FDR: 6.049e-05*  
*Coefficient: -2.13e+00*  
*Value: high*

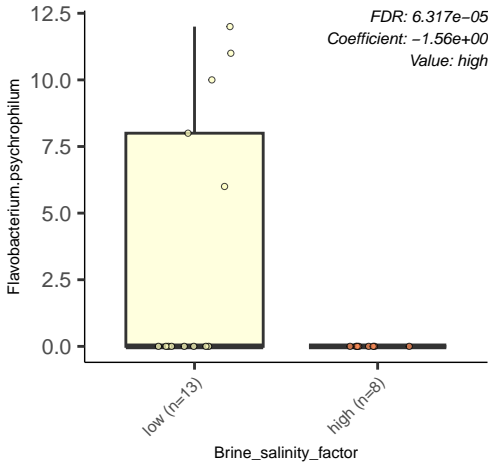
low (n=13)

high (n=8)

Brine\_salinity\_factor







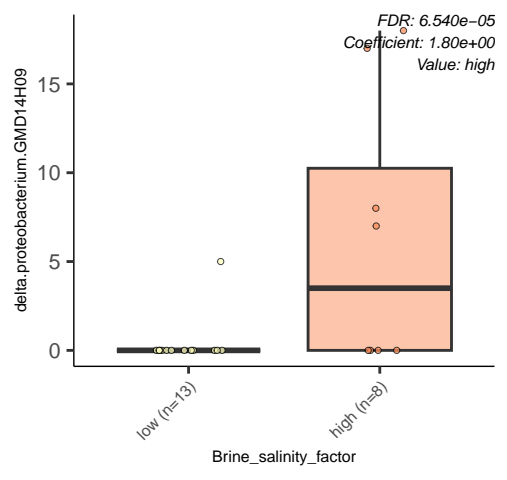
delta.proteobacterium.GMD14H09

*FDR: 6.540e-05*  
*Coefficient: 1.80e+00*  
*Value: high*

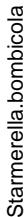
low (n=13)

high (n=8)

Brine\_salinity\_factor



Value: high



low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

Halobellus.inordinatus

FDR:  $6.995e-05$   
Coefficient:  $3.73e+00$   
Value: high

90

60

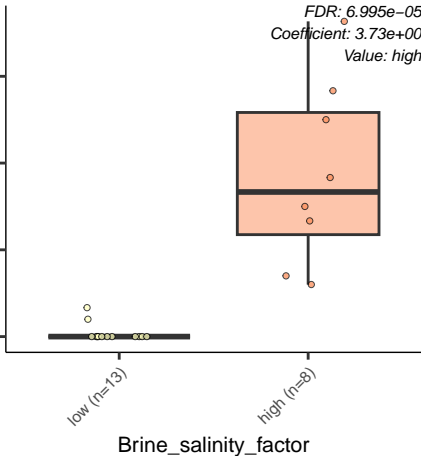
30

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Marivirga.sp..CR.23

FDR: 7.098e-05

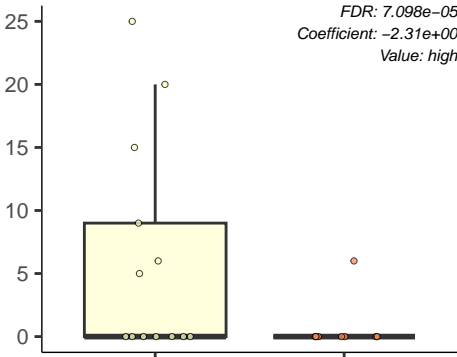
Coefficient: -2.31e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



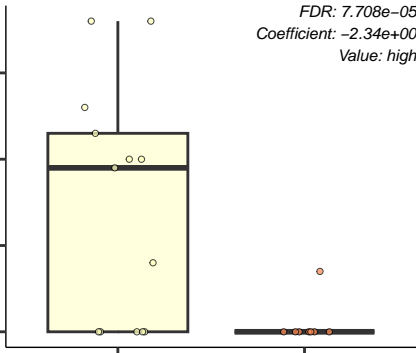
Triparma.laevis

FDR:  $7.708e-05$   
Coefficient:  $-2.34e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



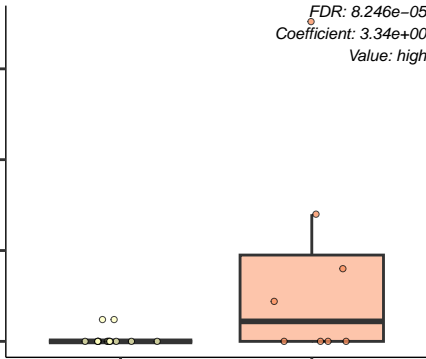
Firmicutes.bacterium.enrichment.culture.clone.fosmid.MGS

FDR:  $8.246e-05$   
Coefficient:  $3.34e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Tenacibaculum.todarodis

FDR:  $8.763e-05$

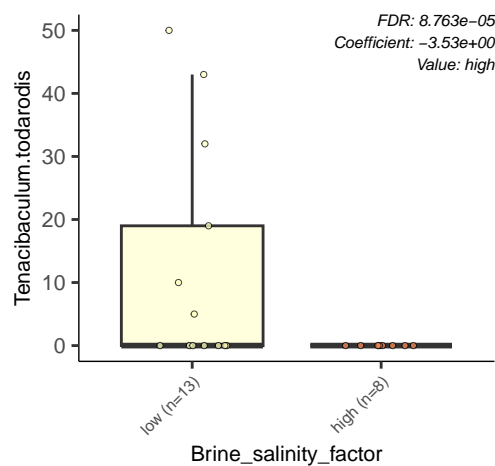
Coefficient:  $-3.53e+00$

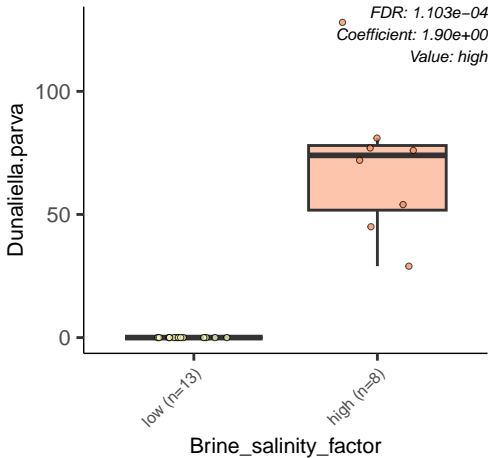
Value: high

low (n=13)

high (n=8)

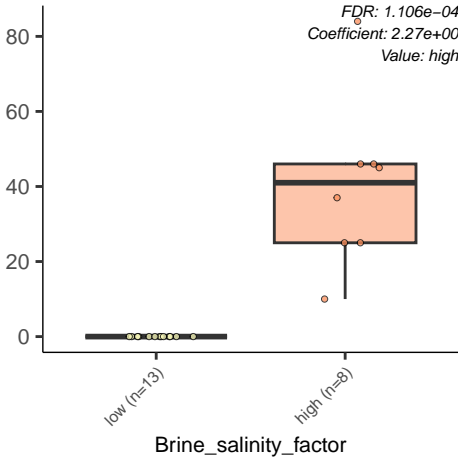
Brine\_salinity\_factor

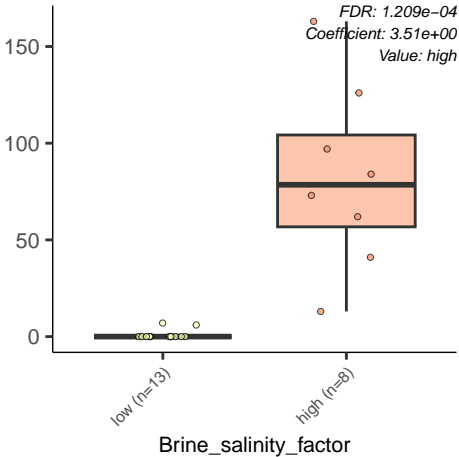




Halorubrum.distributum

*FDR: 1.106e-04*  
*Coefficient: 2.27e+00*  
*Value: high*





Halorubrum.aquaticum

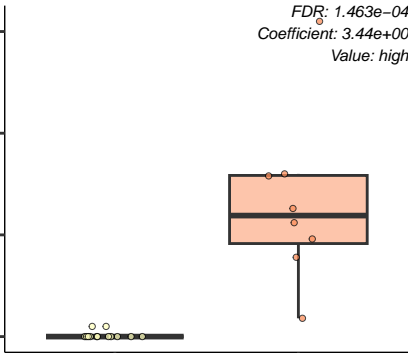
150  
100  
50  
0

*FDR: 1.463e-04*  
*Coefficient: 3.44e+00*  
*Value: high*

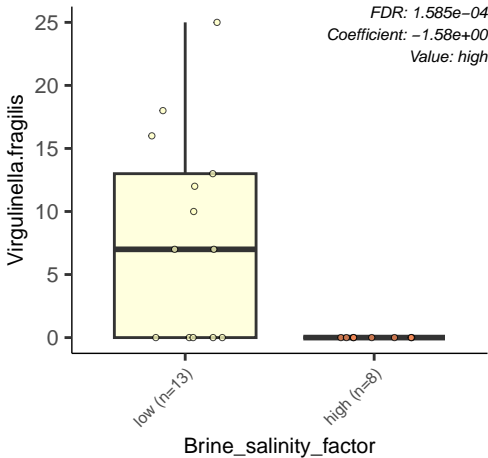
low (n=13)

high (n=8)

Brine\_salinity\_factor







uncultured.Halanaerobacter.sp.

*FDR: 1.617e-04*  
*Coefficient: 2.46e+00*  
*Value: high*

30

20

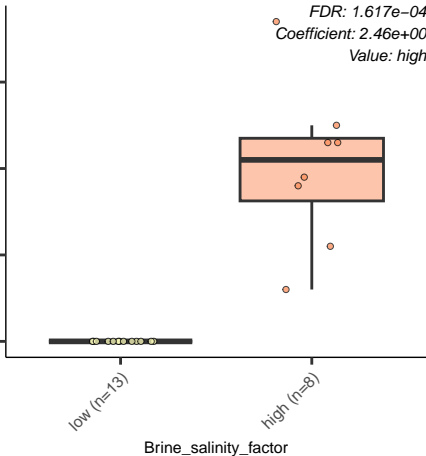
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halorubrum.sp..TP023

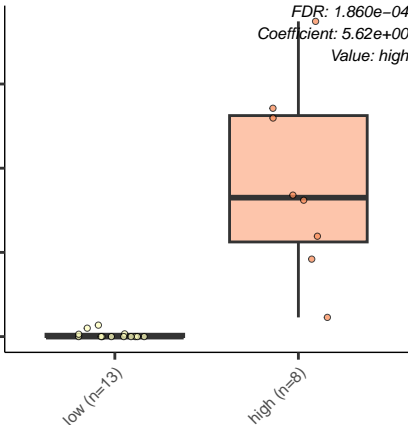
750  
500  
250  
0

low (n=13)

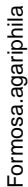
high (n=8)

Brine\_salinity\_factor

*FDR: 1.860e-04*  
*Coefficient: 5.62e+00*  
*Value: high*



Value: high

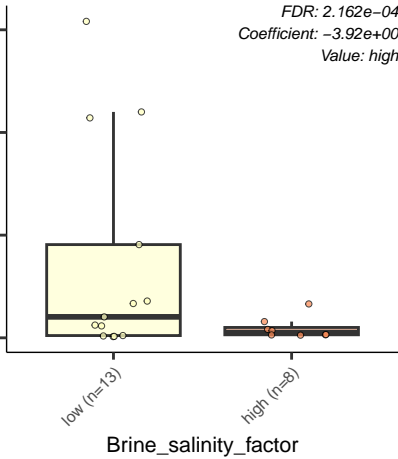


high ( $n=8$ )

Brine\_salinity\_factor

Winogradskyella.sp..PG.2

FDR: 2.162e-04  
Coefficient: -3.92e+00  
Value: high



Dokdonia.donghaensis

FDR: 2.219e-04

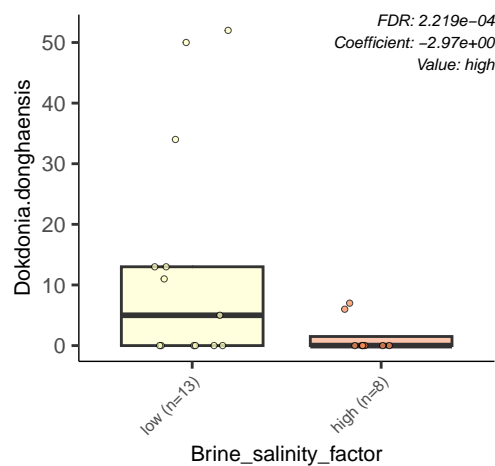
Coefficient: -2.97e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Lutibacter.profundi

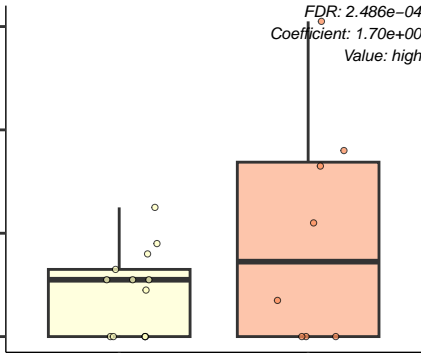
60  
40  
20  
0

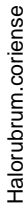
low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.486e-04  
Coefficient: 1.70e+00  
Value: high





600

400

200

0

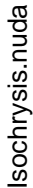
low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

FDR: 2.689e-04  
Coefficient: 5.81e+00  
Value: high





*FDR: 2.689e-04*

Coefficient:  $-2.25e+00$

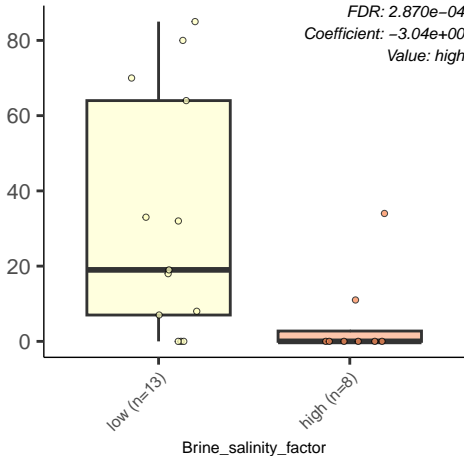
Value: high



Brine\_salinity\_factor

Polaribacter.reichenbachii

*FDR: 2.870e-04*  
*Coefficient: -3.04e+00*  
*Value: high*



Halorubrum.saccharovorum

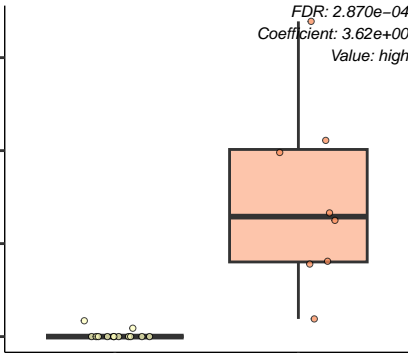
*FDR: 2.870e-04*  
*Coefficient: 3.62e+00*  
*Value: high*

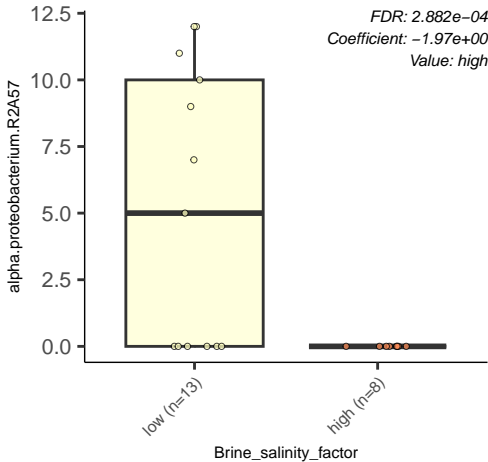
300  
200  
100  
0

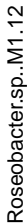
low (n=13)

high (n=8)

Brine\_salinity\_factor







*FDR: 2.924e-04*

Coefficient:  $-2.14e+00$

Value: high

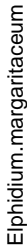


low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

Value: high



low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

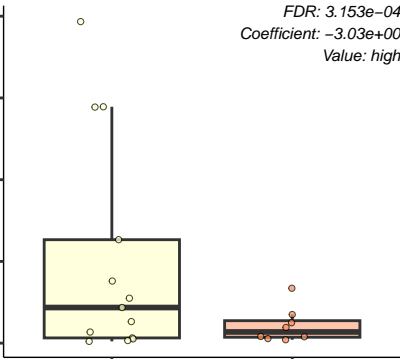
Winogradskyella.sp..RHA\_55

*FDR: 3.153e-04*  
*Coefficient: -3.03e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halobellus.clavatus

*FDR: 3.173e-04*  
*Coefficient: 3.33e+00*  
*Value: high*

60

40

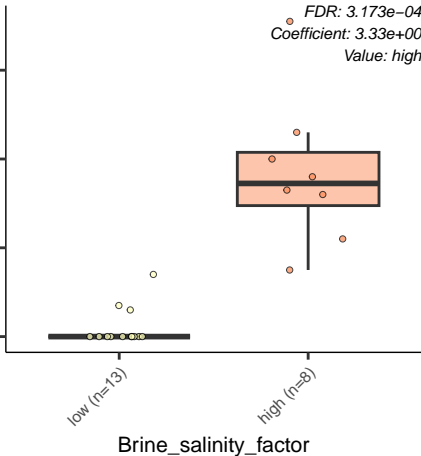
20

0

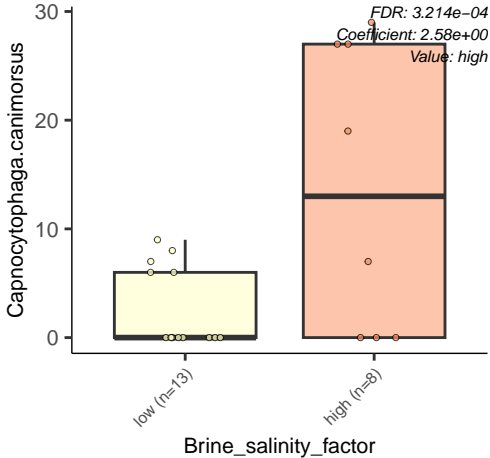
low (n=13)

high (n=8)

Brine\_salinity\_factor







Haloferax.prahovense

*FDR: 3.463e-04*  
*Coefficient: 1.87e+00*  
*Value: high*

150

100

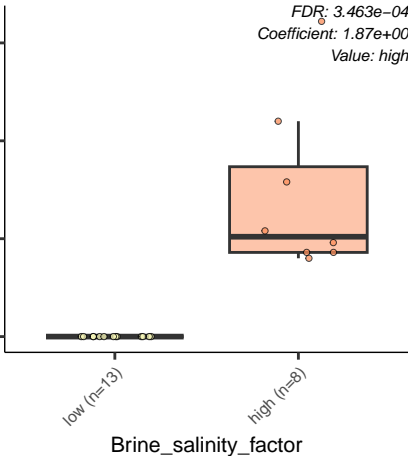
50

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Value: high



100

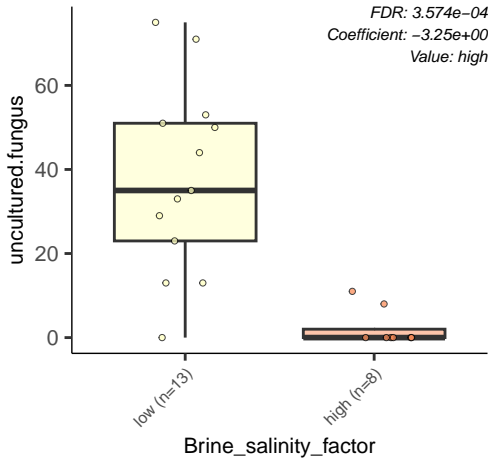
50

0

low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor



Kryptoperidinium.foliaceum

*FDR: 3.803e-04*  
*Coefficient: -2.45e+00*  
*Value: high*

600

400

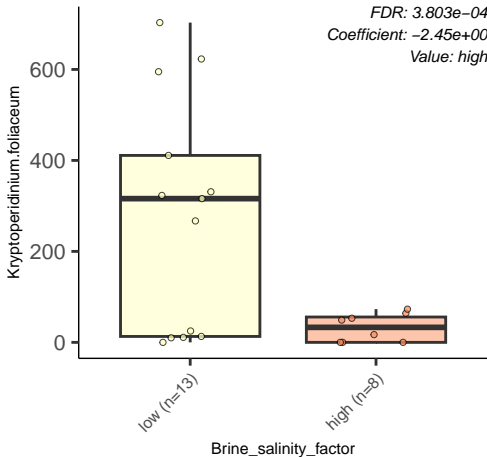
200

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



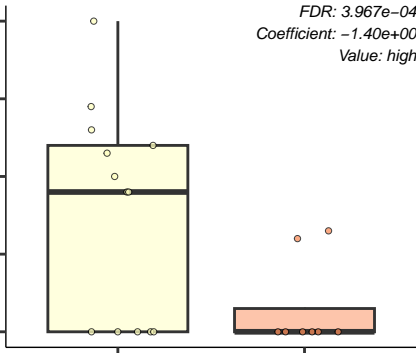
bacterium.FTA50

*FDR: 3.967e-04*  
*Coefficient: -1.40e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Polaribacter.sp..ALD11

FDR: 4.457e-04

Coefficient: -1.85e+00

Value: high

10

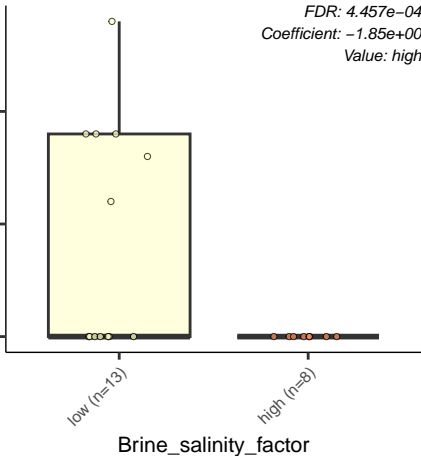
5

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



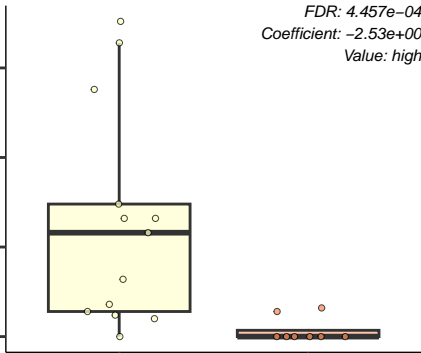
Asterionella.formosa

FDR:  $4.457e-04$   
Coefficient:  $-2.53e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Archaeal.BJ1.virus

200

150

100

50

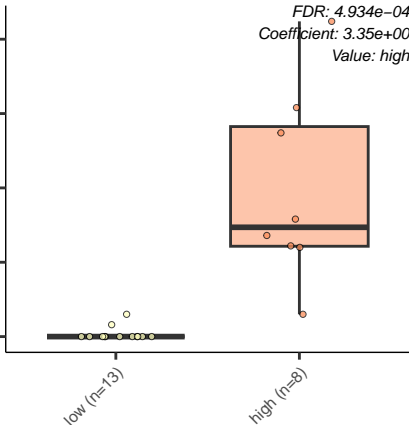
0

low (n=13)

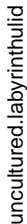
high (n=8)

Brine\_salinity\_factor

FDR:  $4.934e-04$   
Coefficient:  $3.35e+00$   
Value: high



Value: high



low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

Phormidium.sp..LEGE.11384

40

20

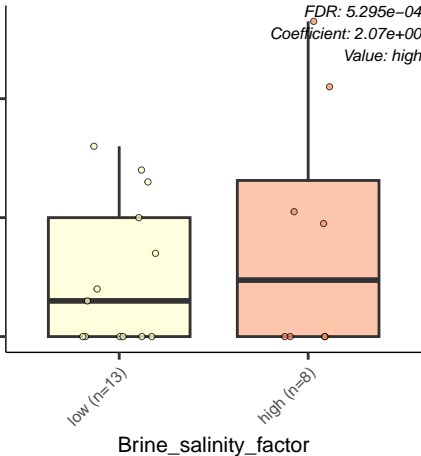
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 5.295e-04  
Coefficient: 2.07e+00  
Value: high



Halorubrum.terrestre

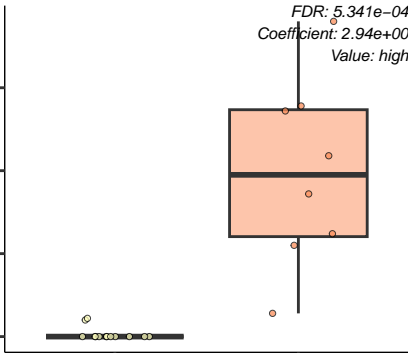
150  
100  
50  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 5.341e-04*  
*Coefficient: 2.94e+00*  
*Value: high*



Cellulophaga.baltica

FDR: 5.636e-04

Coefficient: -1.72e+00

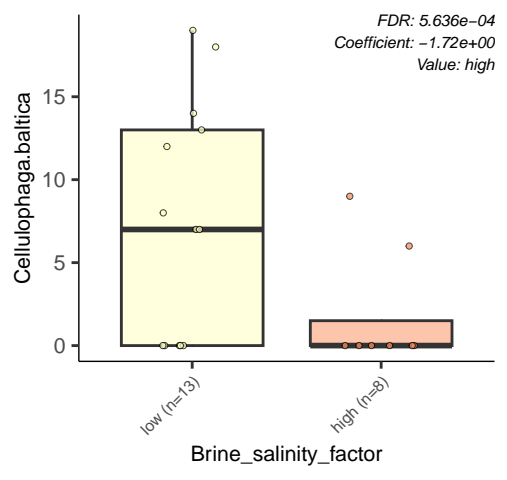
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor

15  
10  
5  
0



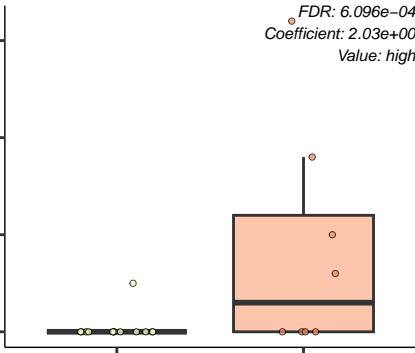
Fabrea.salina

*FDR: 6.096e-04*  
*Coefficient: 2.03e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halorubrum.sp..TP060

100

50

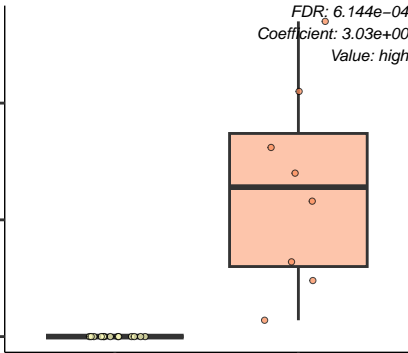
0

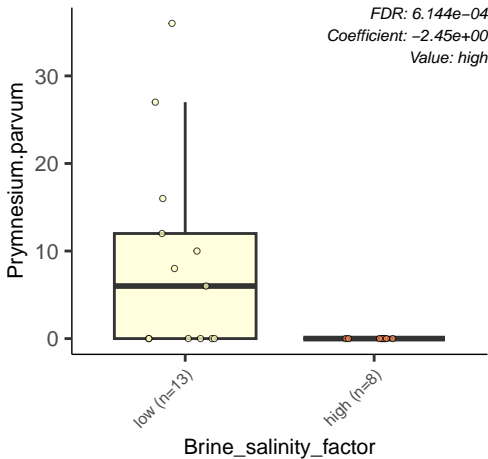
low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 6.144e-04*  
*Coefficient: 3.03e+00*  
*Value: high*







Halogeometricum.limi

*FDR: 6.218e-04*  
*Coefficient: 1.97e+00*  
*Value: high*

40

30

20

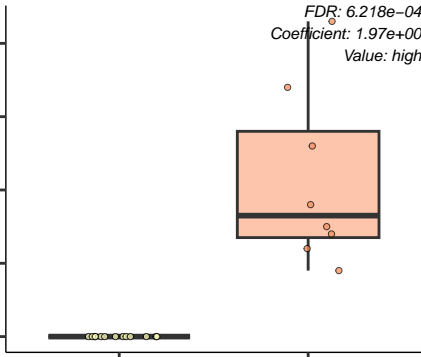
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Tokoprymno.sp..B.LFD.2015

FDR: 6.218e-04

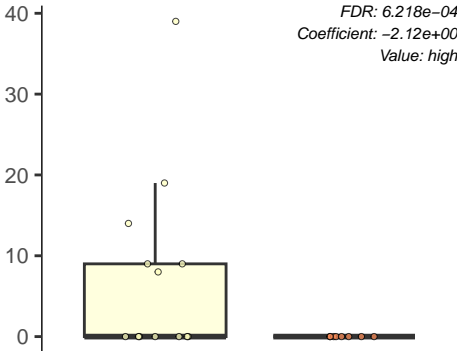
Coefficient: -2.12e+00

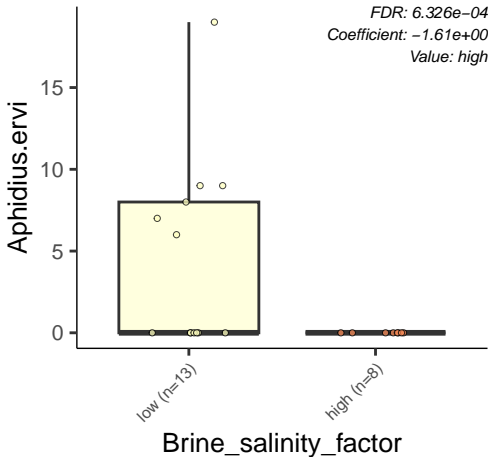
Value: high

low (n=13)

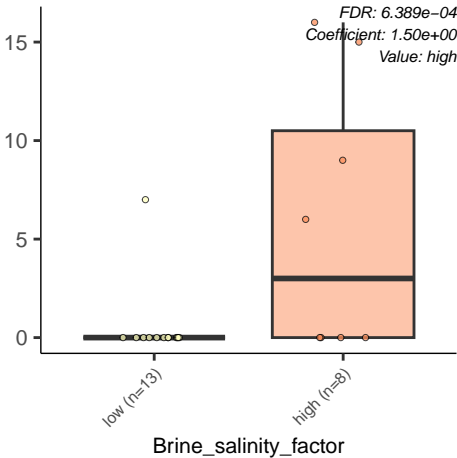
high (n=8)

Brine\_salinity\_factor





Porphyrabacter.sanguineus



Calditerrivibrio.nitroreducens

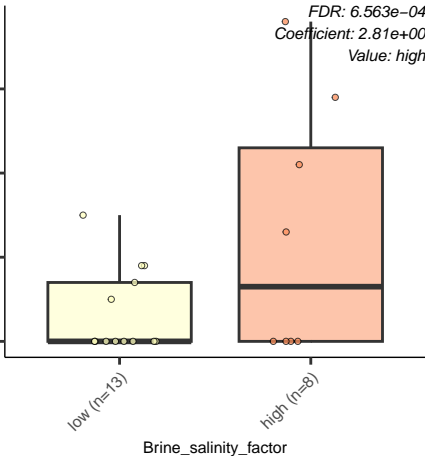
FDR: 6.563e-04  
Coefficient: 2.81e+00  
Value: high

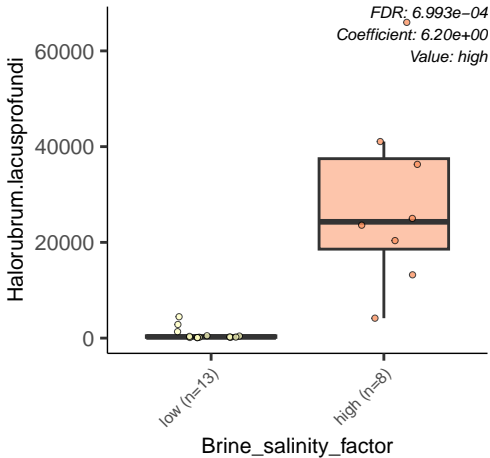
30  
20  
10  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Reticulamoeba.gemmipara

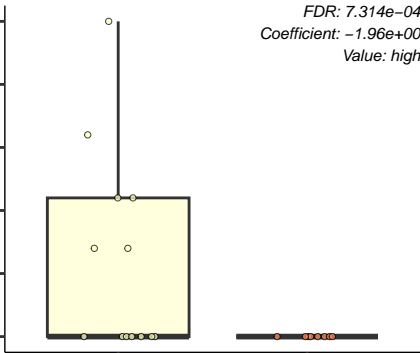
25  
20  
15  
10  
5  
0

*FDR: 7.314e-04*  
*Coefficient: -1.96e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Pseudodesulfobrio.piezophilus

40

20

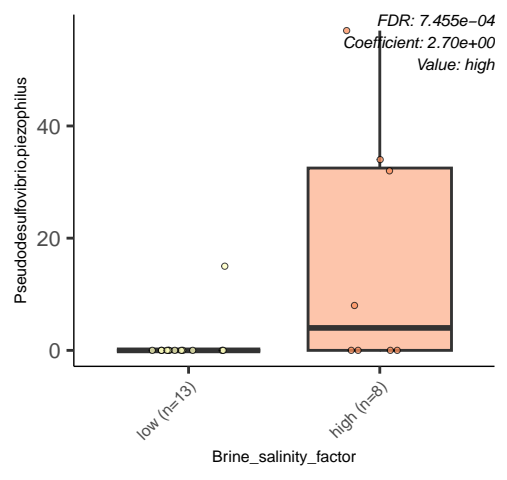
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $7.455e-04$   
Coefficient:  $2.70e+00$   
Value: high





uncultured.Halobacteria.archaeon

FDR:  $7.509 \times 10^{-4}$   
Coefficient:  $5.12 \times 10^0$   
Value: high

400

300

200

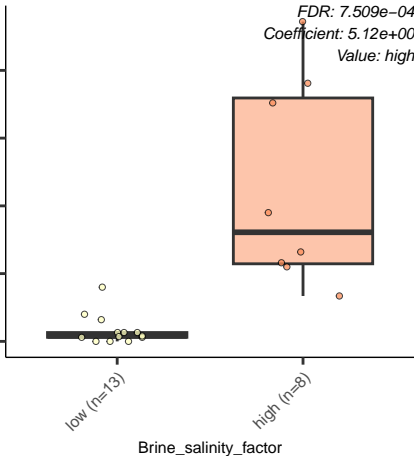
100

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Value: high



Isochrysis.galbana

FDR:  $8.006e-04$

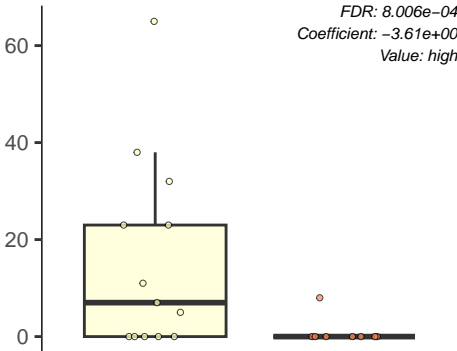
Coefficient:  $-3.61e+00$

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Phormidium.sp..IFBC.Pho05

FDR:  $8.124e-04$   
Coefficient:  $2.45e+00$   
Value: high

40

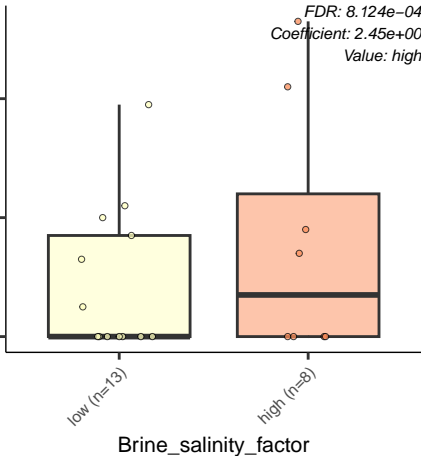
20

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Haemonchus.placei

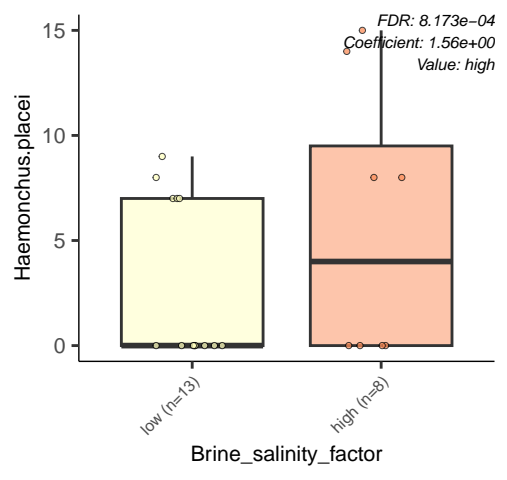
15  
10  
5  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $8.173e-04$   
Coefficient:  $1.56e+00$   
Value: high



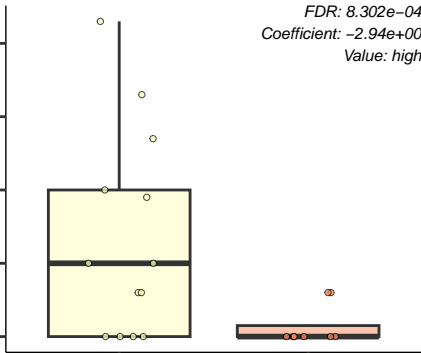
Lacinutrix.venerupis

*FDR: 8.302e-04*  
*Coefficient: -2.94e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



uncultured.marine.bacterium

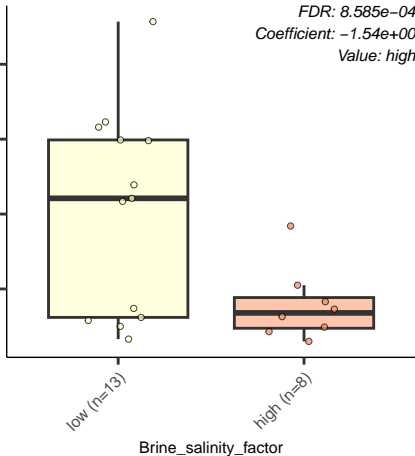
*FDR: 8.585e-04*  
*Coefficient: -1.54e+00*  
*Value: high*

400  
300  
200  
100

low (n=13)

high (n=8)

Brine\_salinity\_factor



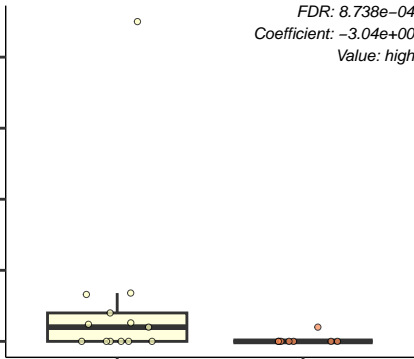
unidentified.marine.bacterioplankton

*FDR: 8.738e-04*  
*Coefficient: -3.04e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





Halorubrum.sp..TP009

1500

1000

500

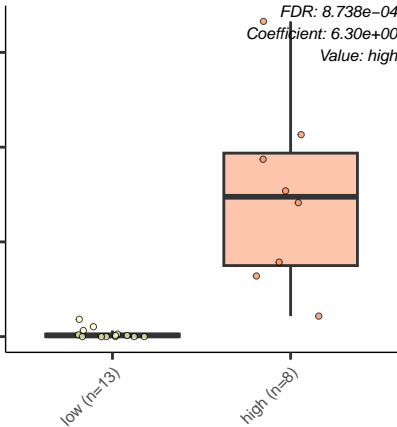
0

*FDR: 8.738e-04*  
*Coefficient: 6.30e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



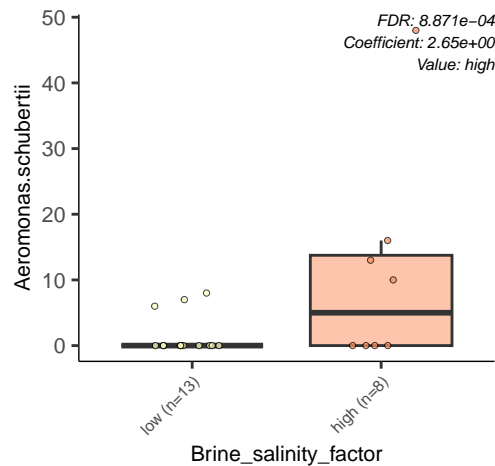
Aeromonas.schubertii

FDR:  $8.871e-04$   
Coefficient:  $2.65e+00$   
Value: high

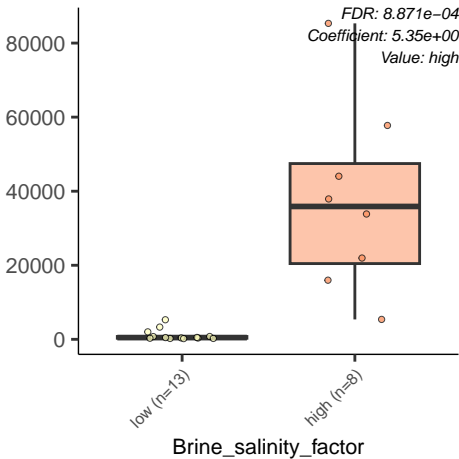
low (n=13)

high (n=8)

Brine\_salinity\_factor



Halorubrum.trapanicum



Bacteroidales.bacterium.CF

30

20

10

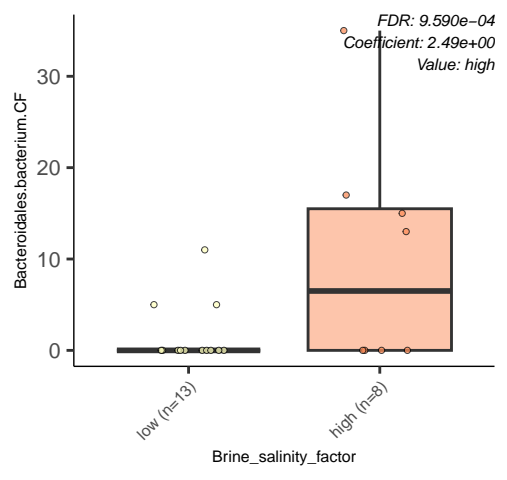
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $9.590e-04$   
Coefficient:  $2.49e+00$   
Value: high



Halorubrum.sodomense

60

40

20

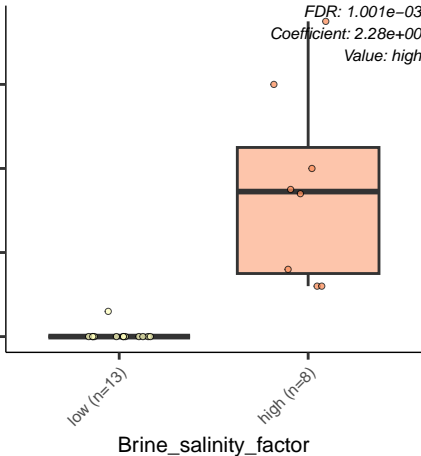
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 1.001e-03*  
*Coefficient: 2.28e+00*  
*Value: high*



Dokdonia.sp..MED134

FDR: 1.033e-03

Coefficient: -2.12e+00

Value: high

60

40

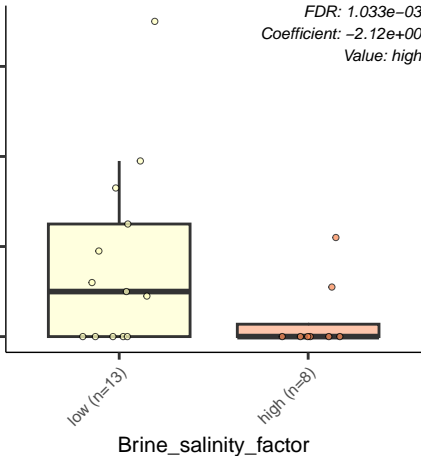
20

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



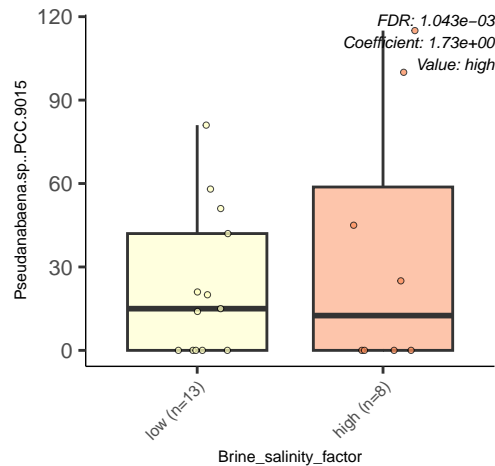
Pseudanabaena.sp..PCC.9015

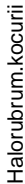
FDR: 1.043e-03  
Coefficient: 1.73e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

FDR: 1.051e-03  
Coefficient: 3.37e+00  
Value: high



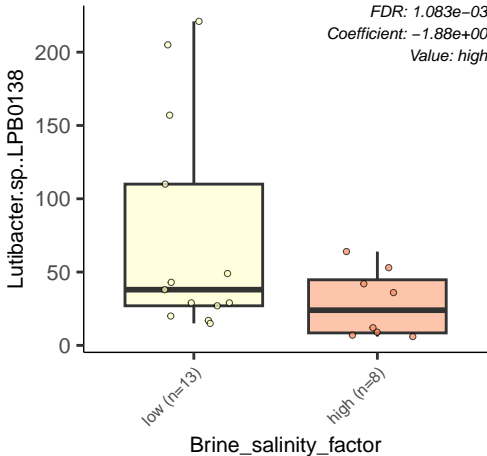
Lutibacter.sp..LPB0138

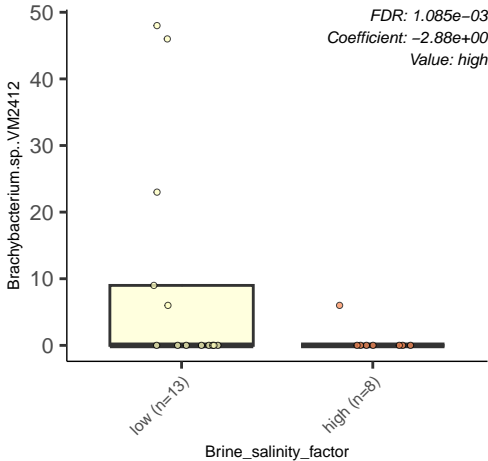
FDR:  $1.083e-03$   
Coefficient:  $-1.88e+00$   
Value: high

low (n=13)

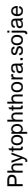
high (n=8)

Brine\_salinity\_factor





Value: high



15 -

10 -

5 -

0 -

low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

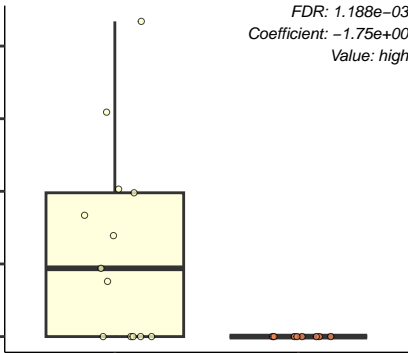
Berkeleya.fennica

*FDR: 1.188e-03*  
*Coefficient: -1.75e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Ulnaria.acus

100

50

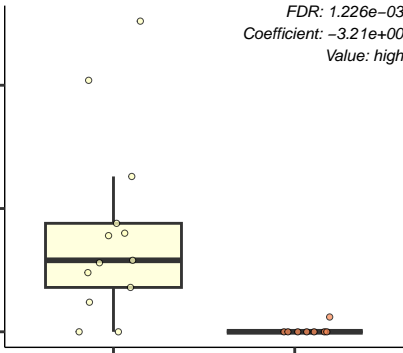
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 1.226e-03*  
*Coefficient: -3.21e+00*  
*Value: high*



uncultured.phototrophic.eukaryote

*FDR: 1.271e-03*  
*Coefficient: -2.70e+00*  
*Value: high*

100

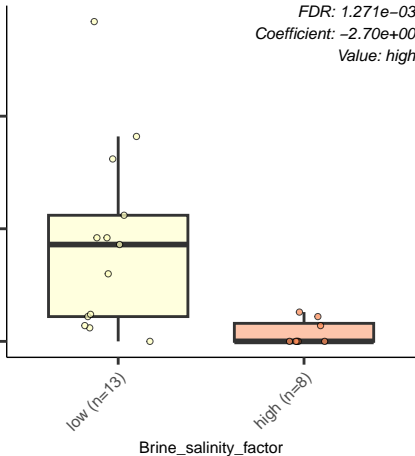
50

0

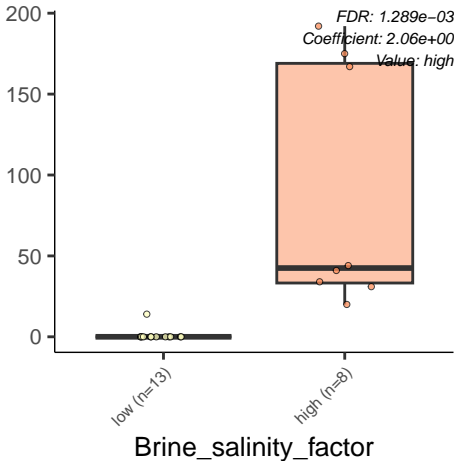
low (n=13)

high (n=8)

Brine\_salinity\_factor



Halapricum.sp.



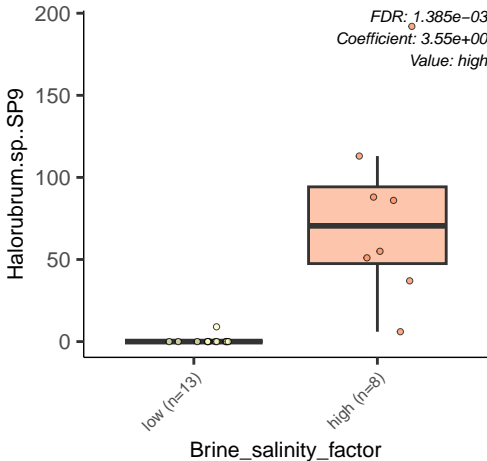
Halorubrum.sp..SP9

*FDR: 1.385e-03*  
*Coefficient: 3.55e+00*  
*Value: high*

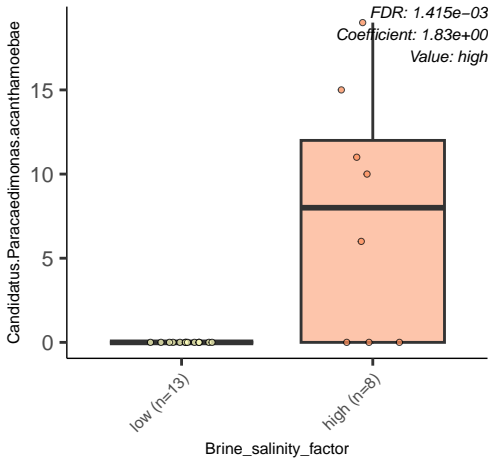
low (n=13)

high (n=8)

Brine\_salinity\_factor







Rhizosolenia.setigera

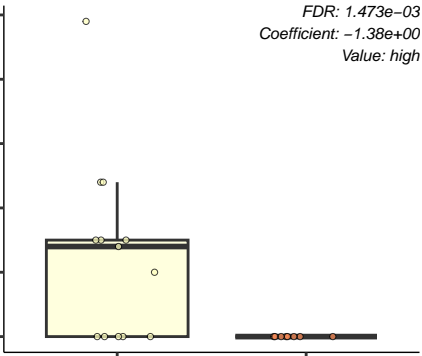
50  
40  
30  
20  
10  
0

*FDR: 1.473e-03*  
*Coefficient: -1.38e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Desulfuromonas.acetoxidans

60

40

20

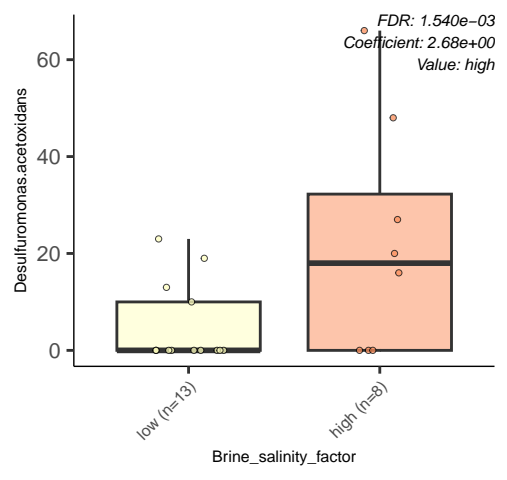
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 1.540e-03  
Coefficient: 2.68e+00  
Value: high



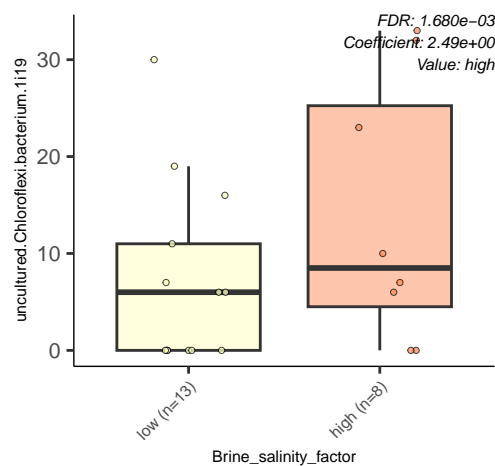
uncultured.Chloroflexi.bacterium.1i19

*FDR: 1.680e-03*  
*Coefficient: 2.49e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Formosa.sp..Hel1\_31\_208

*FDR: 1.698e-03*

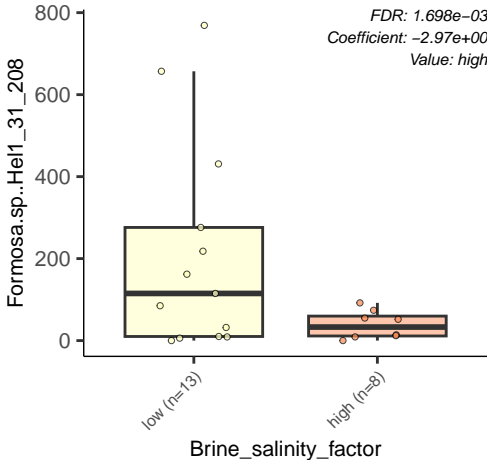
*Coefficient: -2.97e+00*

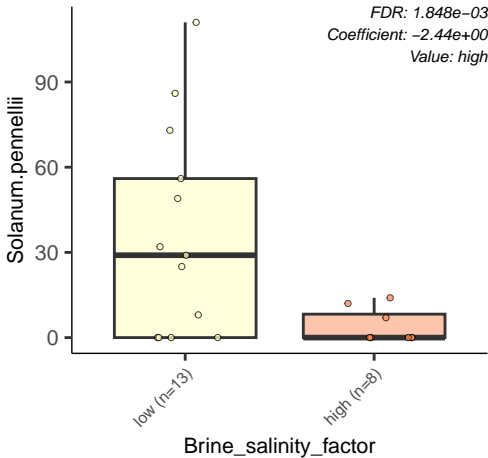
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





Haloferax.gibbonsii

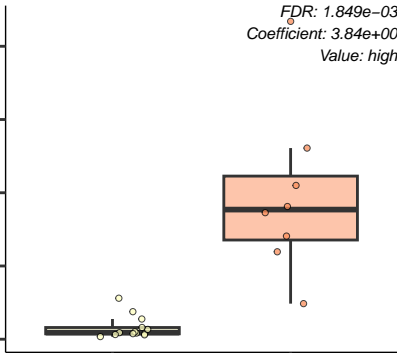
*FDR: 1.849e-03*  
*Coefficient: 3.84e+00*  
*Value: high*

2000  
1500  
1000  
500  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



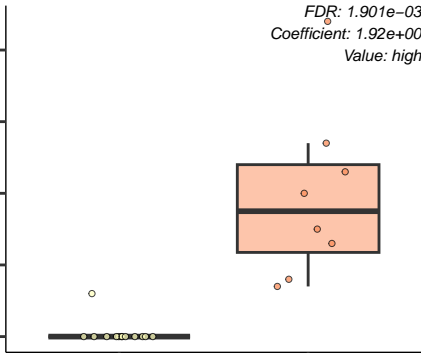
Halorubrum.orientale

*FDR: 1.901e-03*  
*Coefficient: 1.92e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





Pseudo.nitzschia.arctica

FDR: 2.001e-03

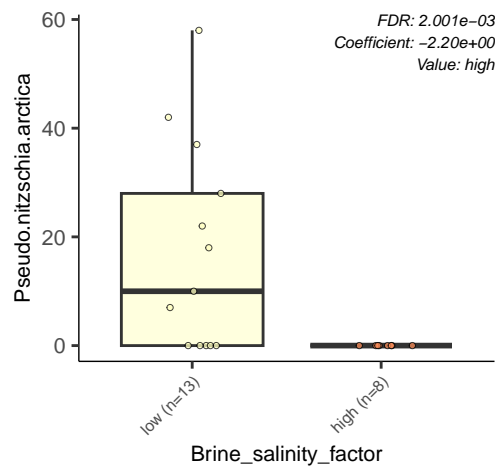
Coefficient: -2.20e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



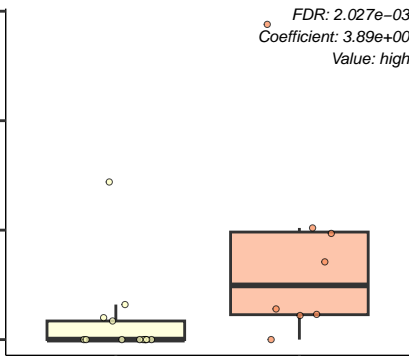
uncultured.Beggiatoa.sp.

*FDR: 2.027e-03*  
*Coefficient: 3.89e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



uncultured.alga

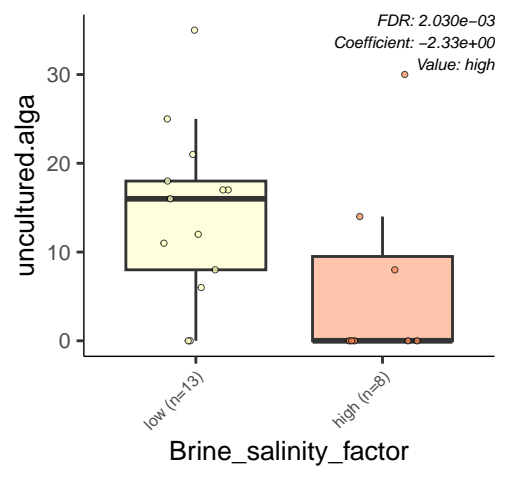
*FDR: 2.030e-03*  
*Coefficient: -2.33e+00*  
*Value: high*

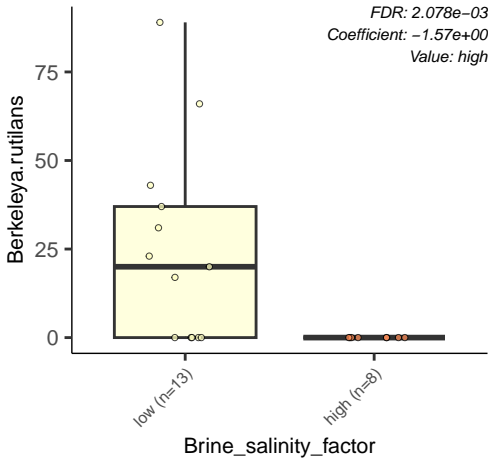
low (n=13)

high (n=8)

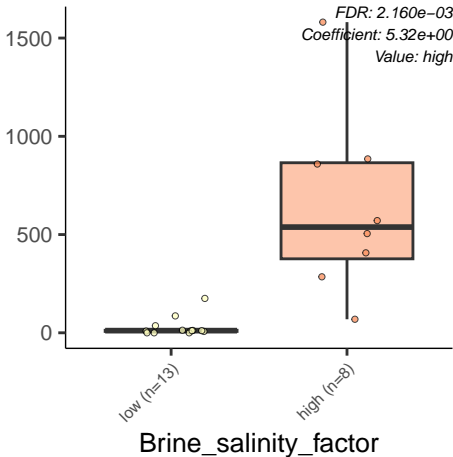
Brine\_salinity\_factor

30  
20  
10  
0

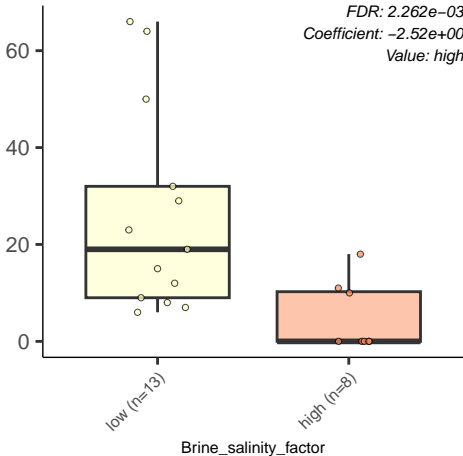




Halorubrum.sp.



Value: high



Dunaliella.tertiolecta

100

50

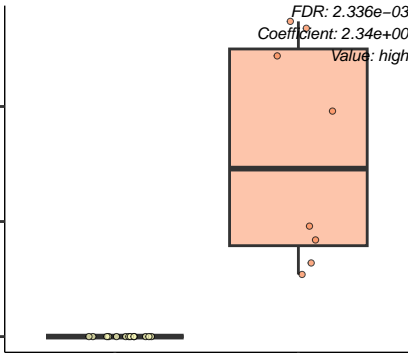
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.336e-03  
Coefficient: 2.34e+00  
Value: high



uncultured.stramenopile

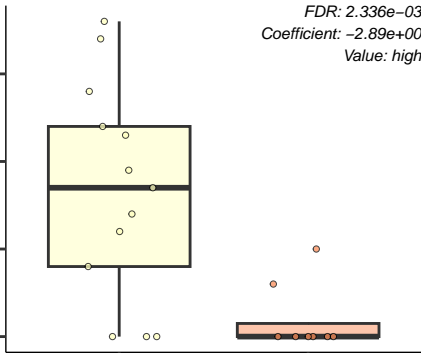
*FDR: 2.336e-03*  
*Coefficient: -2.89e+00*  
*Value: high*

low (n=13)

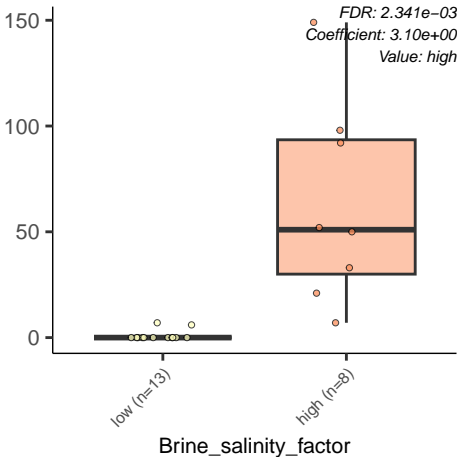
high (n=8)

Brine\_salinity\_factor

30  
20  
10  
0







Rhodovulum.sp..WDS2C4

9

6

3

0

low (n=13)

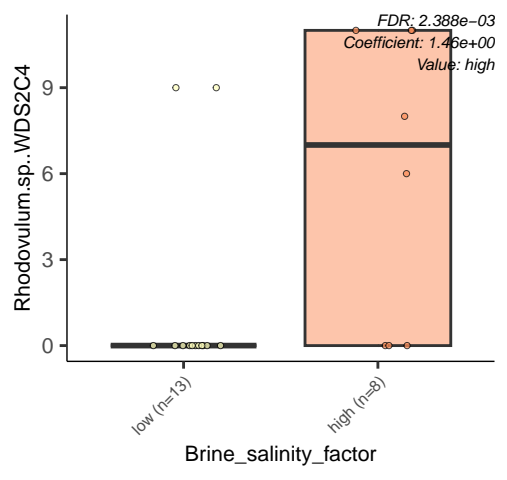
high (n=8)

Brine\_salinity\_factor

*FDR: 2.388e-03*

*Coefficient: 1.46e+00*

*Value: high*



Value: high



high (n=8)

Brine\_salinity\_factor

uncultured.Pelobacter.sp.

20

10

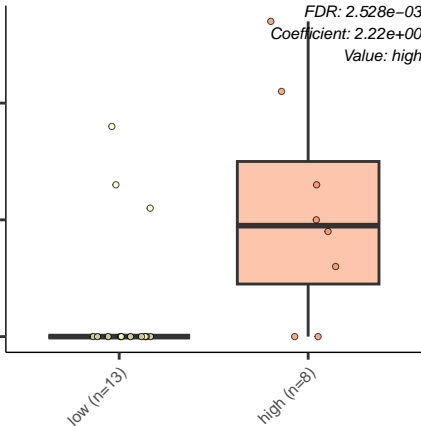
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.528e-03  
Coefficient: 2.22e+00  
Value: high



Frankia.casuarinae

*FDR: 2.528e-03*  
*Coefficient: 2.03e+00*  
*Value: high*

30

20

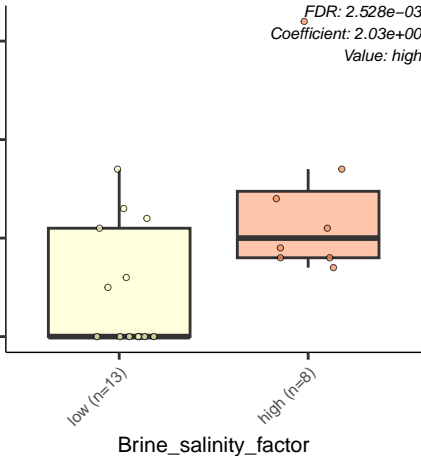
10

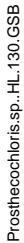
0

low (n=13)

high (n=8)

Brine\_salinity\_factor





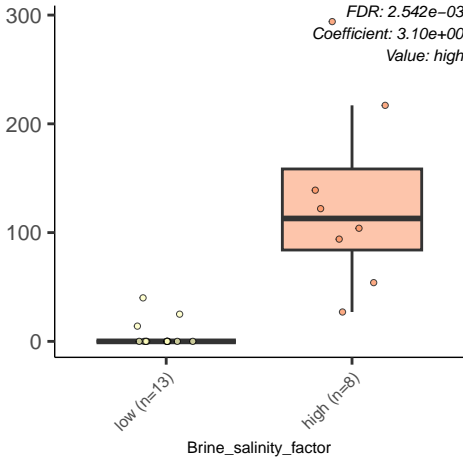
FDR: 2.542e-03  
Coefficient: 3.52e+00  
Value: high



Brine\_salinity\_factor

uncultured.Halobacteriales.archaeon

*FDR: 2.542e-03*  
*Coefficient: 3.10e+00*  
*Value: high*



Porphyrabacter.neustonensis

100

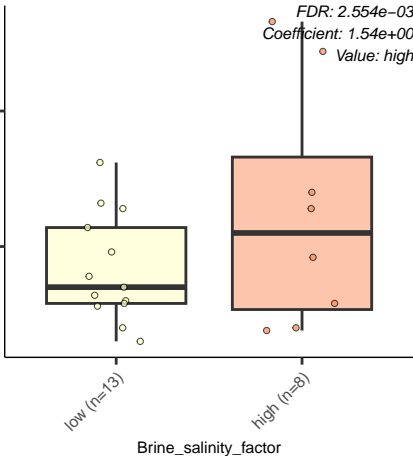
50

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.554e-03  
Coefficient: 1.54e+00  
Value: high





Polaribacter.sp..KT.15

FDR: 2.587e-03

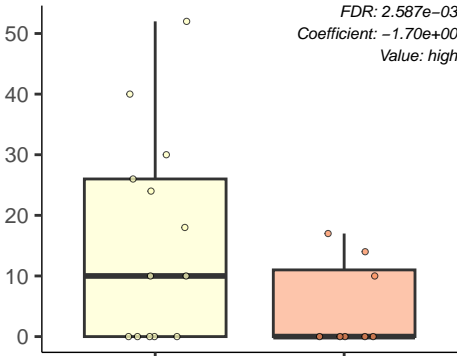
Coefficient: -1.70e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halobacteriaceae.archaeon.SY.39

150

100

50

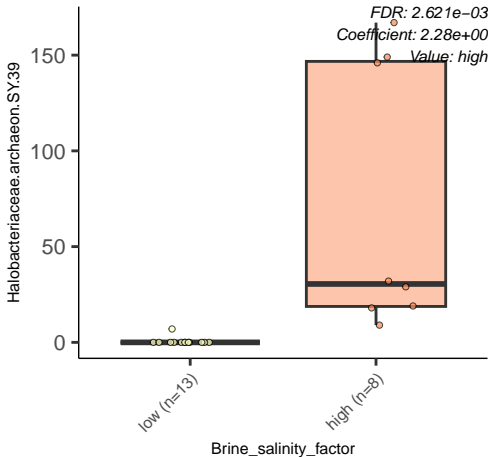
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $2.621e-03$   
Coefficient:  $2.28e+00$   
Value: high



Sulfitobacter.sp..AM1.D1

*FDR: 2.695e-03*

*Coefficient: -1.23e+00*

*Value: high*

1500

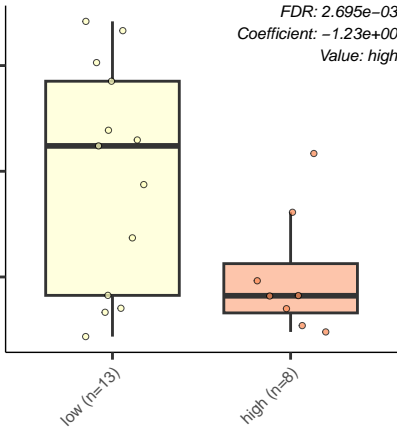
1000

500

low (n=13)

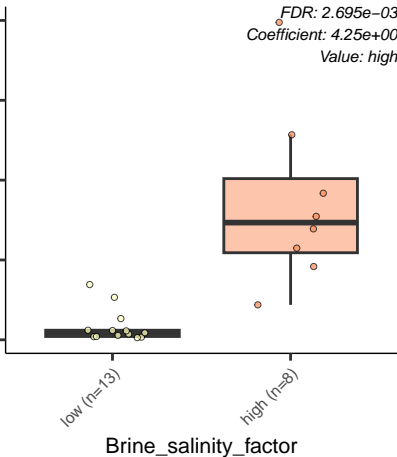
high (n=8)

Brine\_salinity\_factor



Halomicrobium.mukohataei

FDR: 2.695e-03  
Coefficient: 4.25e+00  
Value: high



Lithodesmium.undulatum

FDR: 2.704e-03

Coefficient: -2.05e+00

Value: high

90

60

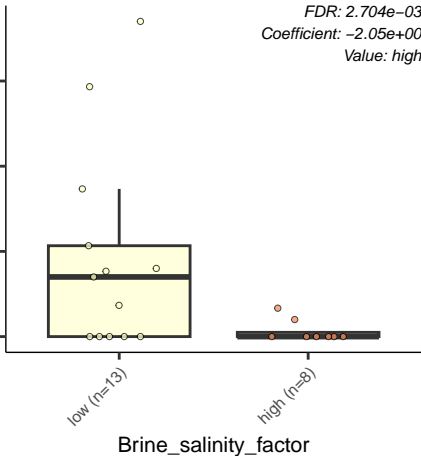
30

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Gracilimonas.sp..HME9591

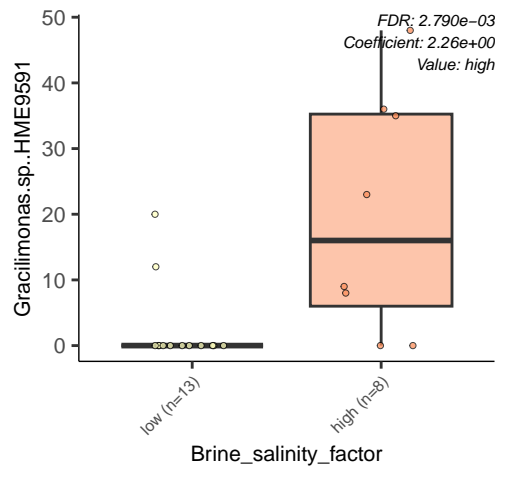
50  
40  
30  
20  
10  
0

low (n=13)

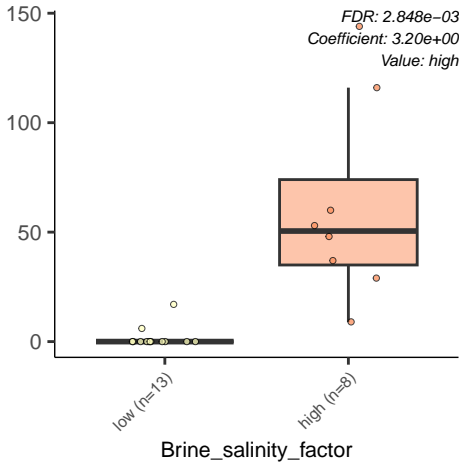
high (n=8)

Brine\_salinity\_factor

FDR: 2.790e-03  
Coefficient: 2.26e+00  
Value: high



Halorubrum.aidingense



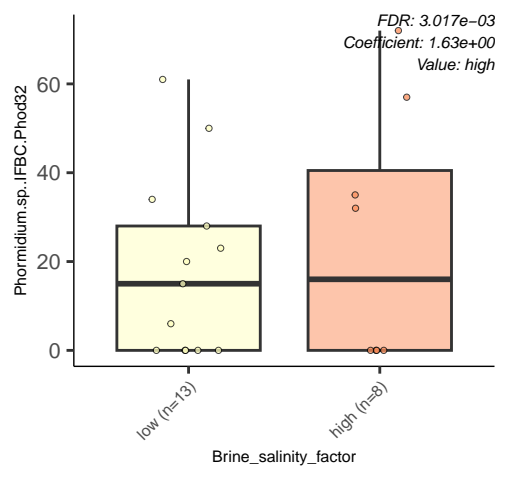
Phormidium.sp..IFBC.Phod32

*FDR: 3.017e-03*  
*Coefficient: 1.63e+00*  
*Value: high*

low (n=13)

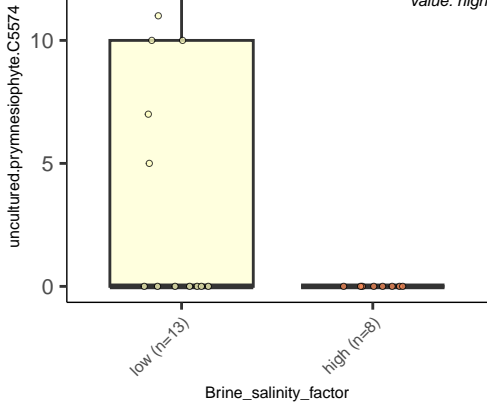
high (n=8)

Brine\_salinity\_factor





Value: high



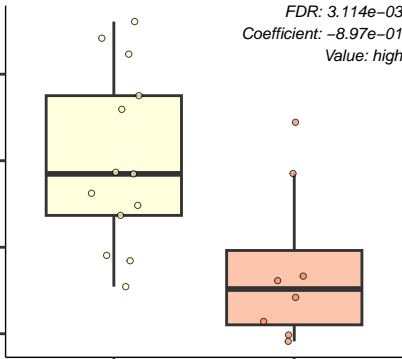
Celeribacter.manganoxidans

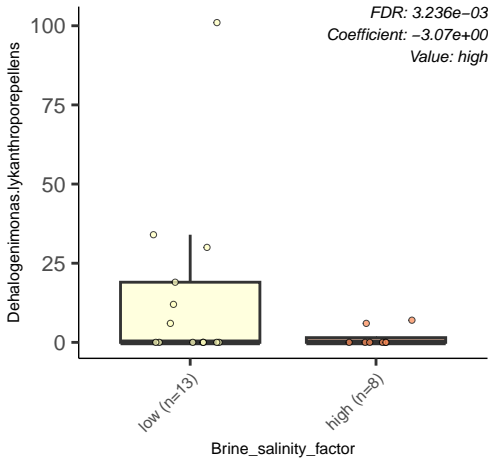
*FDR: 3.114e-03*  
*Coefficient: -8.97e-01*  
*Value: high*

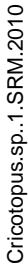
low (n=13)

high (n=8)

Brine\_salinity\_factor







*FDR: 3.246e-03*

Coefficient:  $-2.07e+00$

Value: high



Brine\_salinity\_factor

Polaribacter.sp..BM10

FDR: 3.249e-03

Coefficient: -1.24e+00

Value: high

30

20

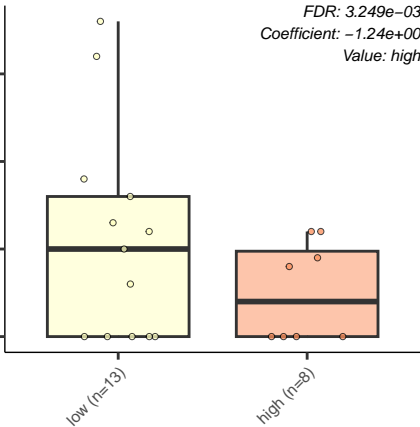
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Olleya.sp..Bg11.27

FDR: 3.271e-03

Coefficient: -2.52e+00

Value: high

90

60

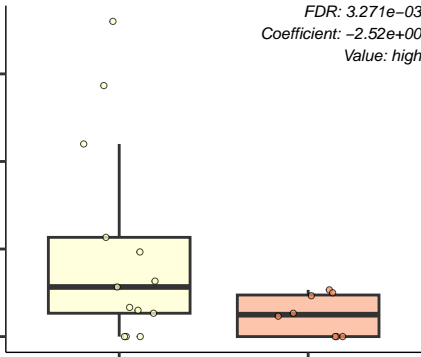
30

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Rufibacter.sp..DG31D

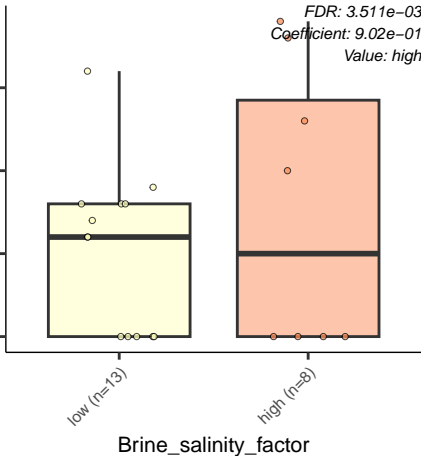
15  
10  
5  
0

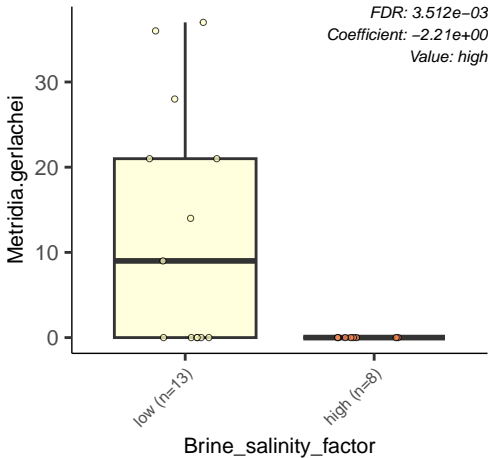
low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $3.511e-03$   
Coefficient:  $9.02e-01$   
Value: high







Acricotopus.lucens

FDR: 3.584e-03

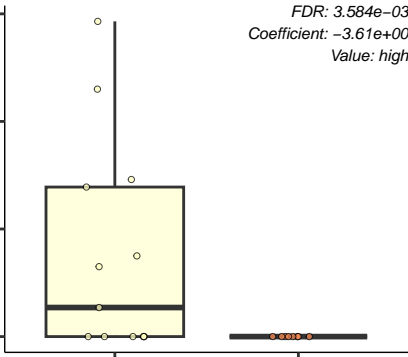
Coefficient: -3.61e+00

Value: high

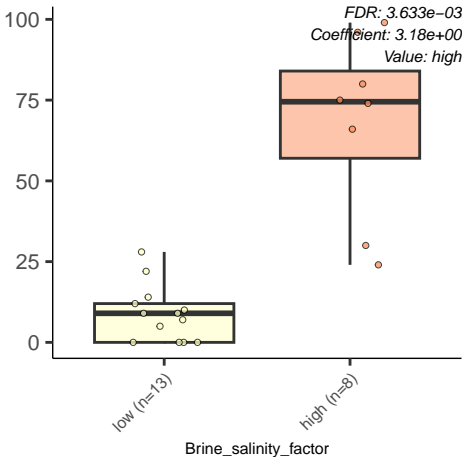
low (n=13)

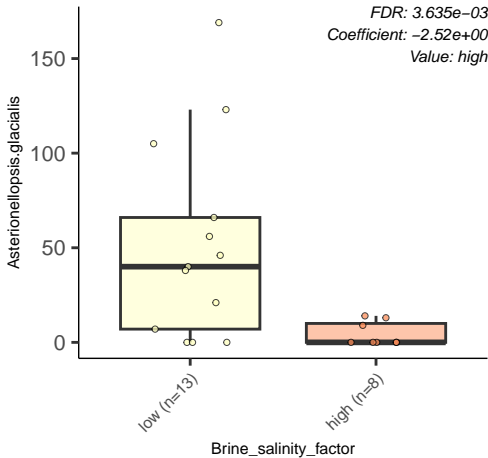
high (n=8)

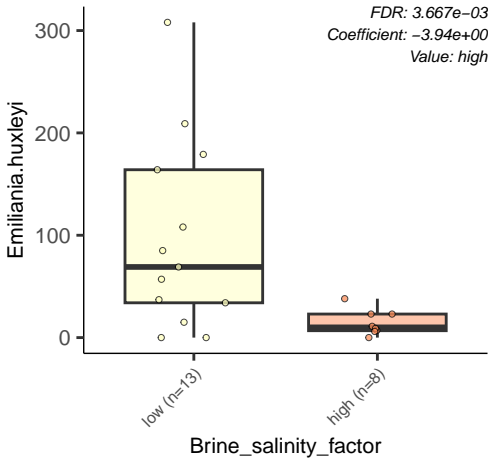
Brine\_salinity\_factor



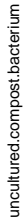
uncultured.Firmicutes.bacterium







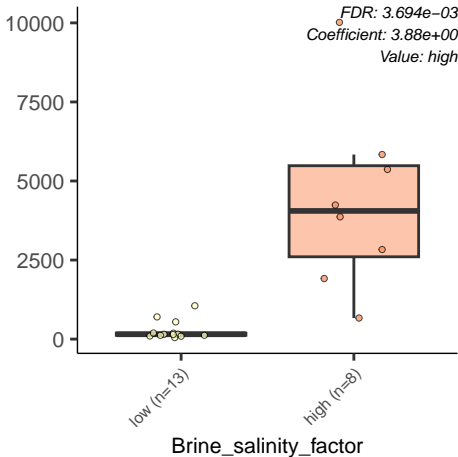
Value: high



low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor



Spingopyxis.macrogoltabida

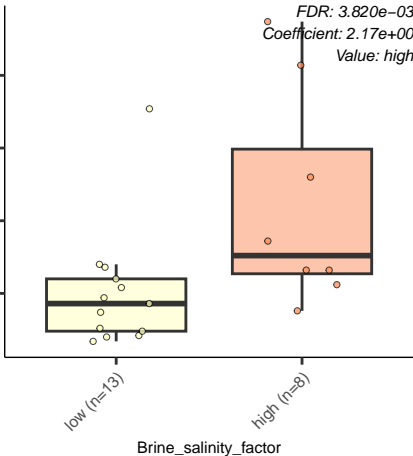
200  
150  
100  
50

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 3.820e-03  
Coefficient: 2.17e+00  
Value: high



Halomicroarcula.pellucida

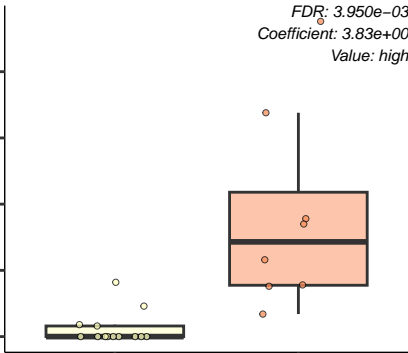
*FDR: 3.950e-03*  
*Coefficient: 3.83e+00*  
*Value: high*

200  
150  
100  
50  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Pelobacter.carbinolicus

60

40

20

0

low (n=13)

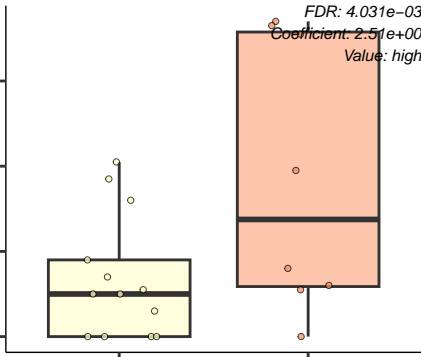
high (n=8)

Brine\_salinity\_factor

FDR: 4.031e-03

Coefficient: 2.51e+00

Value: high



bacterium.YC.ZSS.LKJ42

20

15

10

5

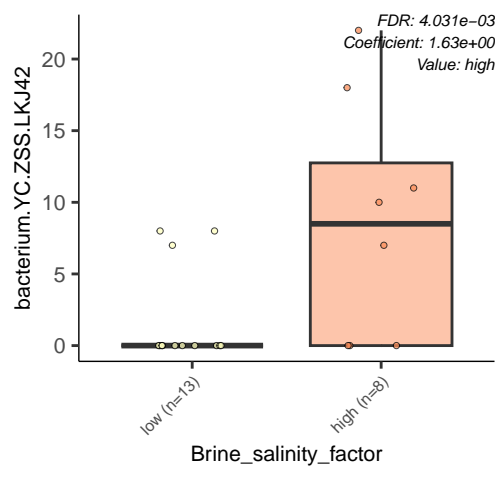
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 4.031e-03  
Coefficient: 1.63e+00  
Value: high



uncultured.Harpacticoida.sp.

*FDR: 4.046e-03*  
*Coefficient: -2.04e+00*  
*Value: high*

75

50

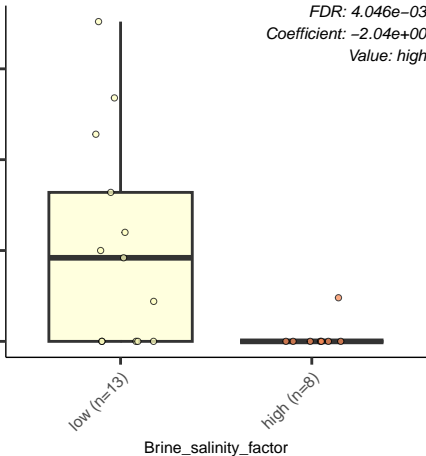
25

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



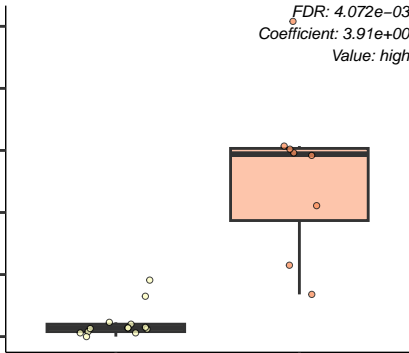
Halalkalicoccus.jeotgali

*FDR: 4.072e-03*  
*Coefficient: 3.91e+00*  
*Value: high*

low (n=13)

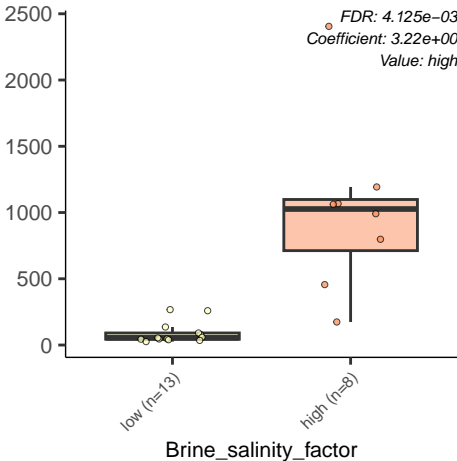
high (n=8)

Brine\_salinity\_factor



halophilic.archaeon.DL31

*FDR: 4.125e-03*  
*Coefficient: 3.22e+00*  
*Value: high*



Ruegeria.sp..PR1b

*FDR: 4.147e-03*

*Coefficient: -1.79e+00*

*Value: high*

600

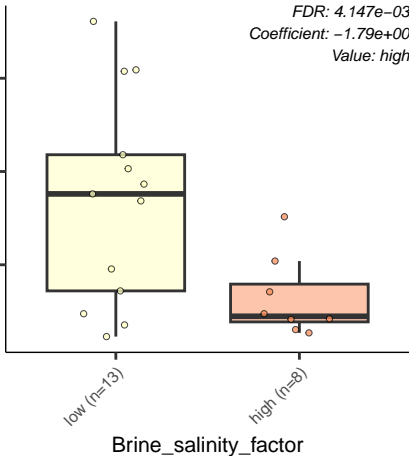
400

200

low (n=13)

high (n=8)

Brine\_salinity\_factor



Winogradskyella.sp..PC.19

FDR: 4.151e-03

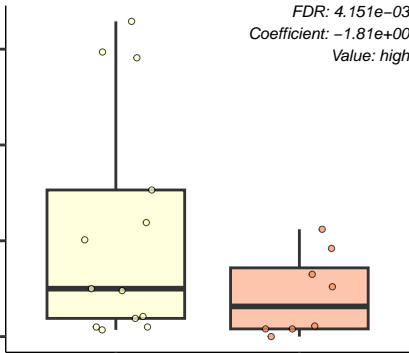
Coefficient: -1.81e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor







Rufibacter.sp..DG15C

FDR: 4.292e-03

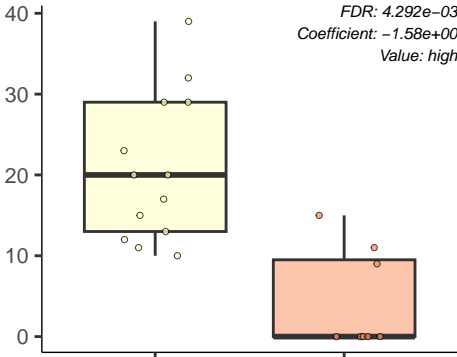
Coefficient: -1.58e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Jannaschia.sp..BB23

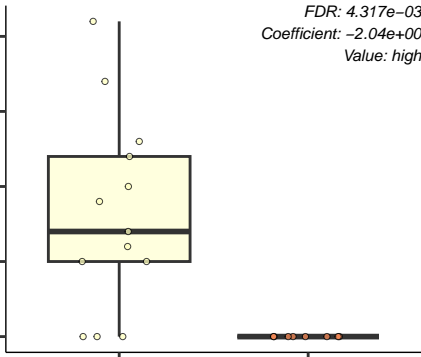
20  
15  
10  
5  
0

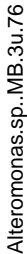
low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 4.317e-03*  
*Coefficient: -2.04e+00*  
*Value: high*





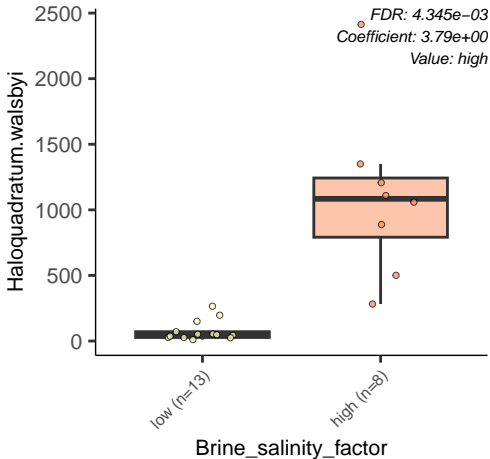
*FDR: 4.326e-03*

Coefficient:  $-3.12e+00$

Value: high



Brine\_salinity\_factor



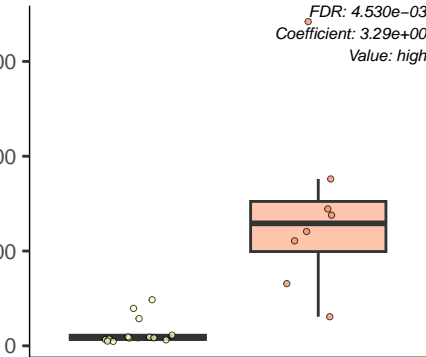
Halogeometricum.borinquense

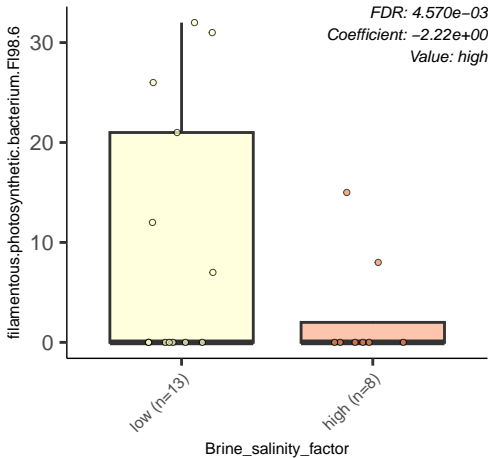
*FDR: 4.530e-03*  
*Coefficient: 3.29e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





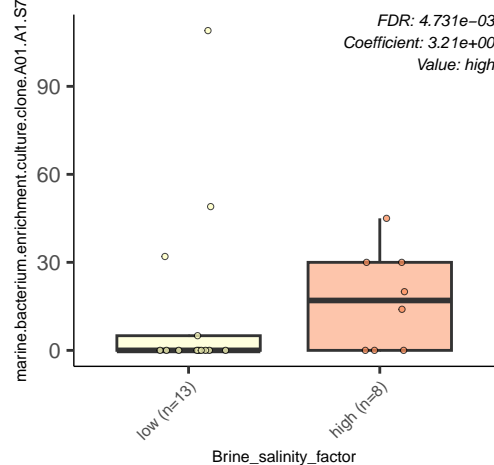
marine.bacterium.enrichment.culture.clone.A01.A1.S7

*FDR: 4.731e-03*  
*Coefficient: 3.21e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



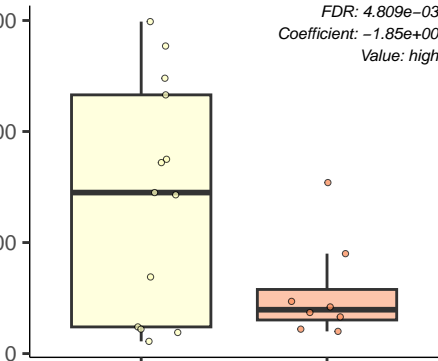
Halocynthiaibacter.arcticus

FDR:  $4.809e-03$   
Coefficient:  $-1.85e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Halomicroarcula.limicola

75

50

25

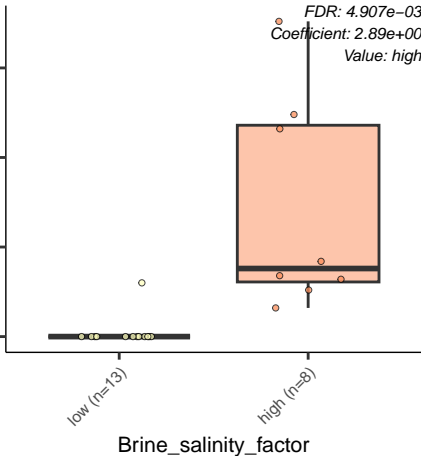
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 4.907e-03  
Coefficient: 2.89e+00  
Value: high



Rhodopirellula.baltica

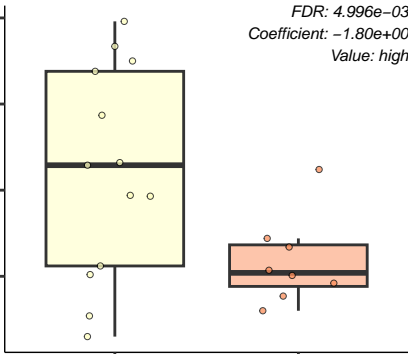
400  
300  
200  
100

*FDR: 4.996e-03*  
*Coefficient: -1.80e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Candida.albicans

FDR: 5.002e-03

Coefficient: -1.38e+00

Value: high

10

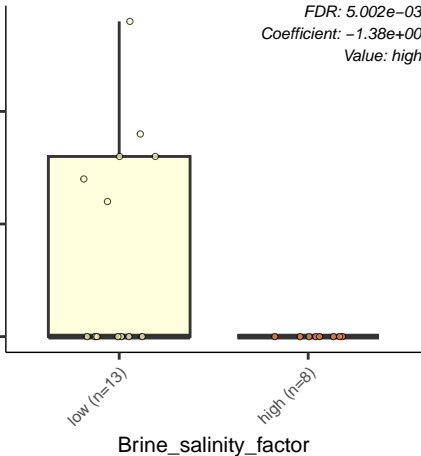
5

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Phormidium.lucidum

150

100

50

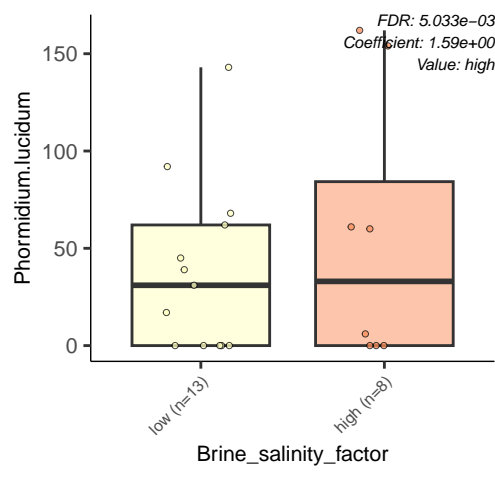
0

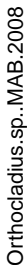
low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 5.033e-03  
Coefficient: 1.59e+00  
Value: high





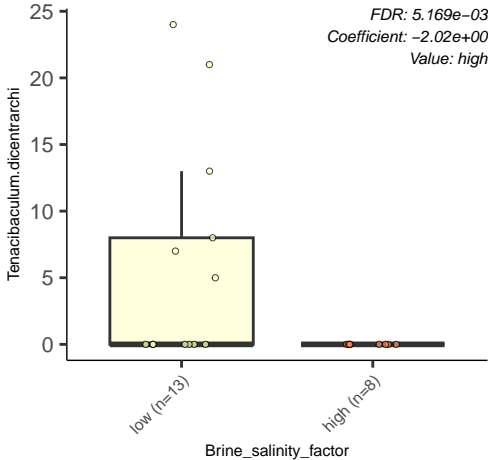
*FDR: 5.033e-03*

Coefficient:  $-1.87e+00$

Value: high



Brine\_salinity\_factor



Halorubrum.lipolyticum

200

100

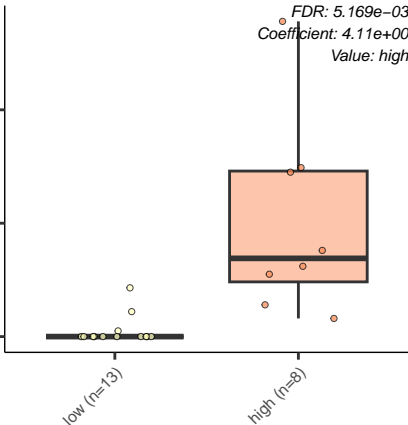
0

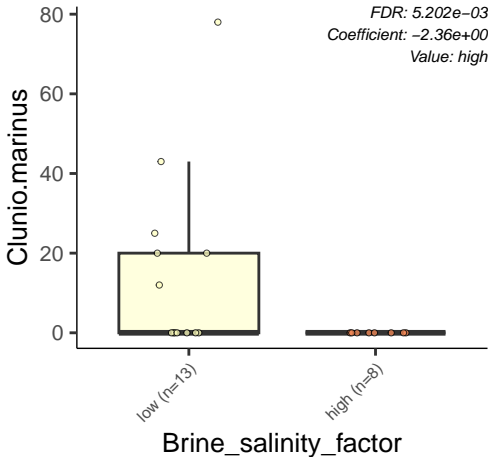
low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 5.169e-03  
Coefficient: 4.11e+00  
Value: high







Thioclava.nitrateducens

*FDR: 5.714e-03*

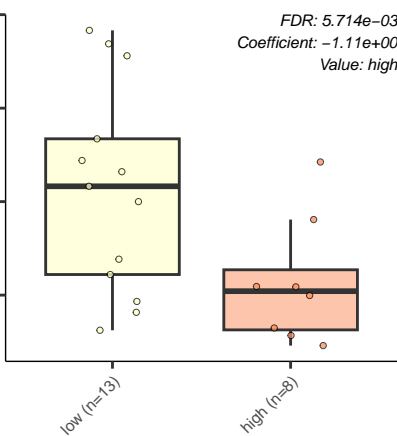
*Coefficient: -1.11e+00*

*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Prosthecochloris.sp..CIB.2401

FDR:  $5.734e-03$   
Coefficient:  $4.11e+00$   
Value: high

200

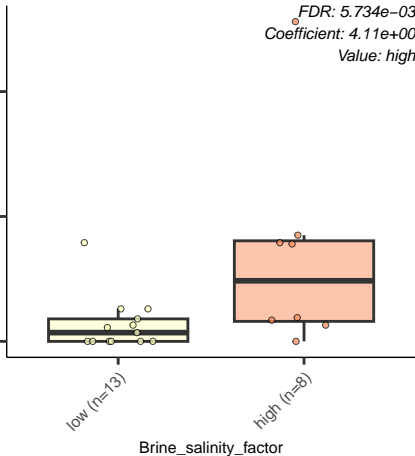
100

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Nitzschia.cf..pusilla

FDR: 5.936e-03

Coefficient: -1.46e+00

Value: high

150

100

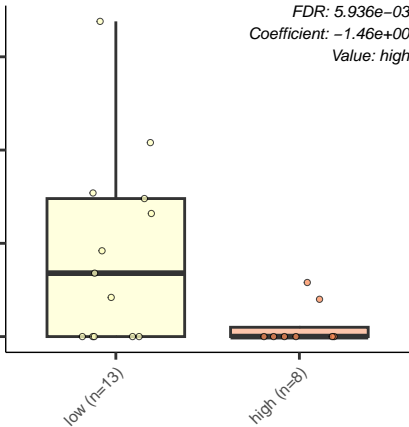
50

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Dechloromonas.aromatica

FDR: 5.958e-03

Coefficient: -2.03e+00

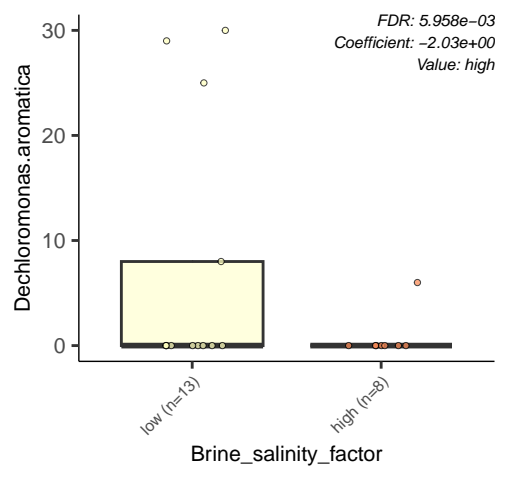
Value: high

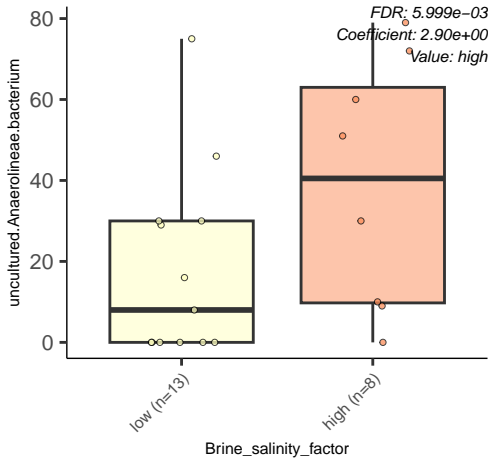
low (n=13)

high (n=8)

Brine\_salinity\_factor

30  
20  
10  
0





Vibrio.harveyi.group

*FDR: 6.041e-03*

*Coefficient: 7.53e+00*

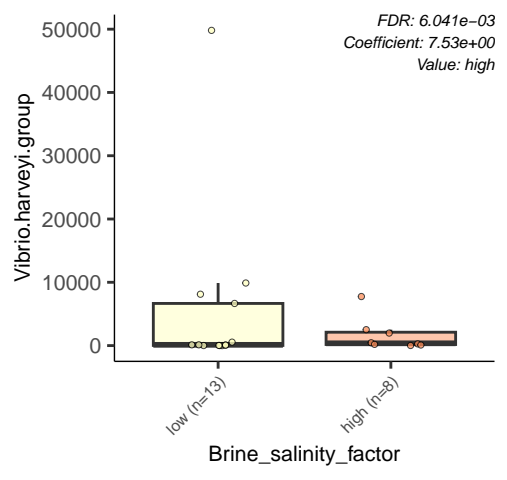
*Value: high*

50000  
40000  
30000  
20000  
10000  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Pelobacter.sp..SFB93

200

150

100

50

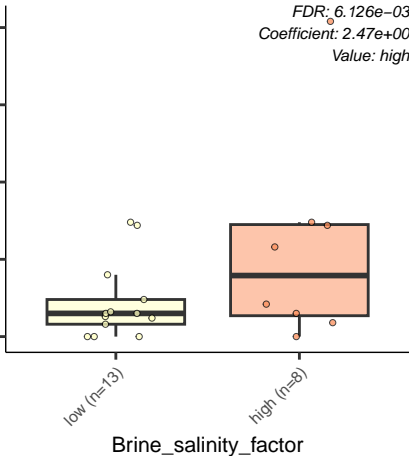
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 6.126e-03*  
*Coefficient: 2.47e+00*  
*Value: high*







Epibacterium.mobile

*FDR: 6.182e-03*

*Coefficient: -1.54e+00*

*Value: high*

1500

1000

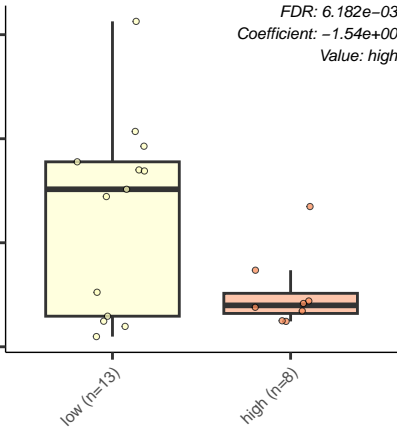
500

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Haloarcula.taiwanensis

2000

1000

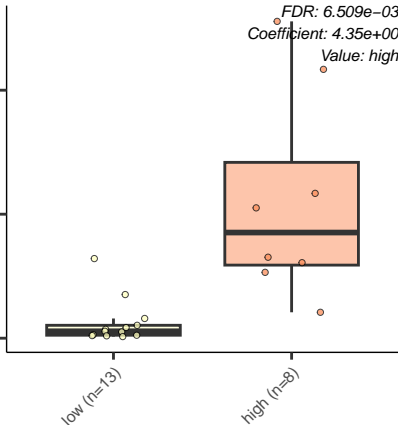
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 6.509e-03  
Coefficient: 4.35e+00  
Value: high



Cyclotella.sp..L04\_2

FDR: 6.553e-03

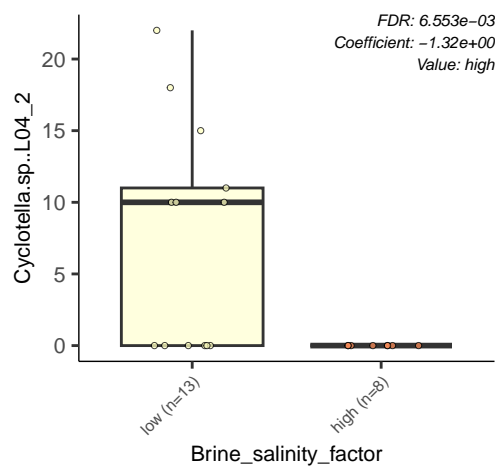
Coefficient: -1.32e+00

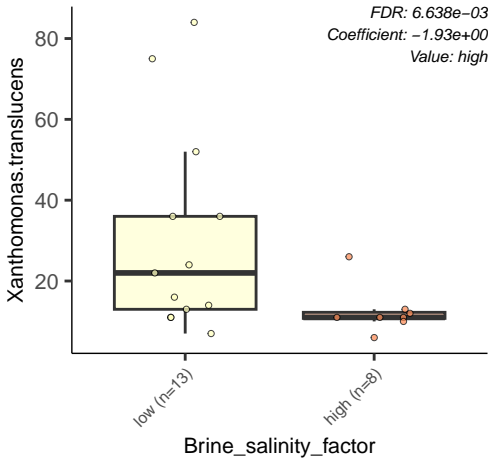
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



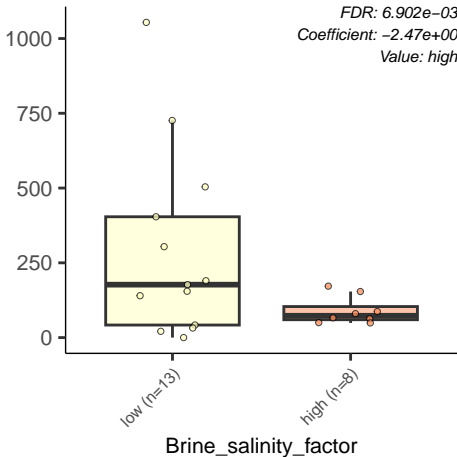


Planktomarina.temperata

*FDR: 6.902e-03*

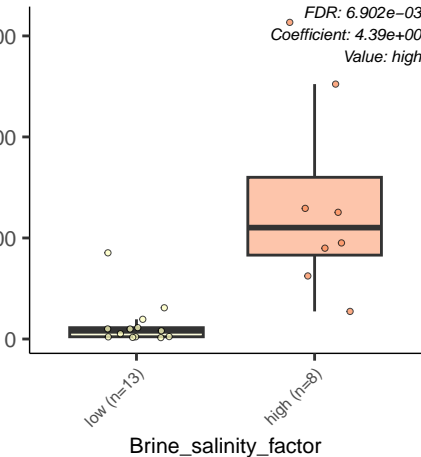
*Coefficient: -2.47e+00*

*Value: high*



Haloarcula.hispanica

FDR:  $6.902e-03$   
Coefficient:  $4.39e+00$   
Value: high



Halococcus.morruhae

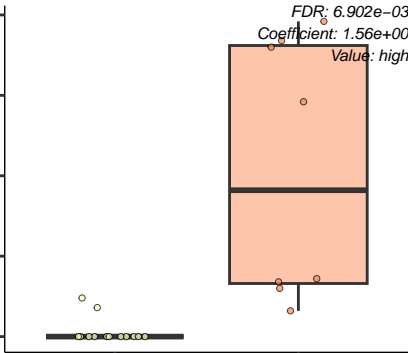
100  
75  
50  
25  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $6.902e-03$   
Coefficient:  $1.56e+00$   
Value: high



Flammeovirga.sp..MY04

20

15

10

5

0

low (n=13)

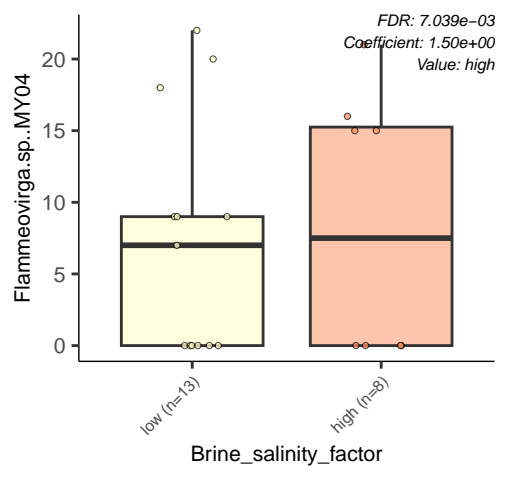
high (n=8)

Brine\_salinity\_factor

FDR: 7.039e-03

Coefficient: 1.50e+00

Value: high





Natronomonas.pharaonis

*FDR: 7.292e-03*  
*Coefficient: 3.64e+00*  
*Value: high*

1000

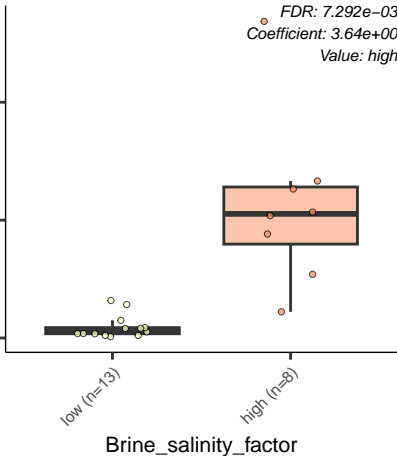
500

0

low (n=13)

high (n=8)

Brine\_salinity\_factor

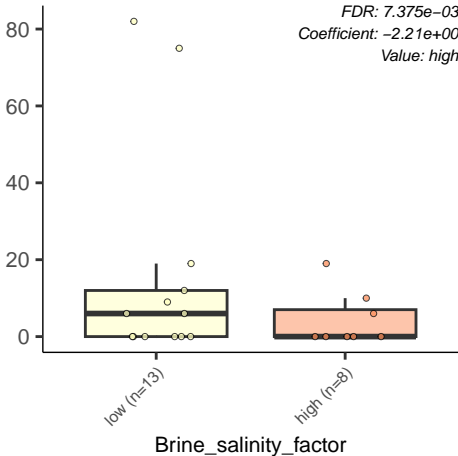


Flavobacterium.johnsoniae

FDR: 7.375e-03

Coefficient: -2.21e+00

Value: high



Ichthyobacterium.seriolicida

FDR: 7.442e-03

Coefficient: 1.66e+00

Value: high

60

40

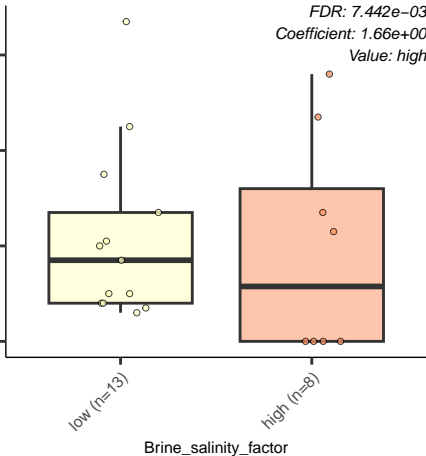
20

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Pelobacter.acetylenicus

FDR:  $7.523e-03$   
Coefficient:  $2.20e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor

60

40

20

0

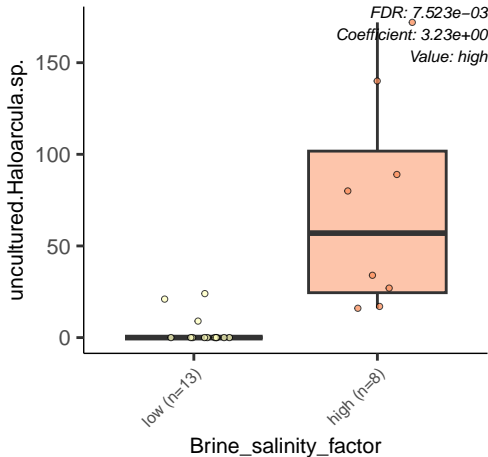
uncultured.Haloarcula.sp.

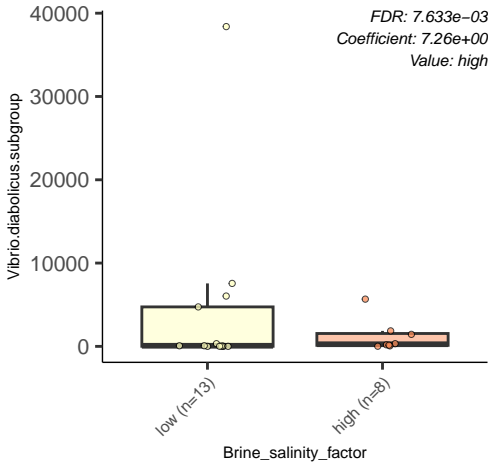
*FDR: 7.523e-03*  
*Coefficient: 3.23e+00*  
*Value: high*

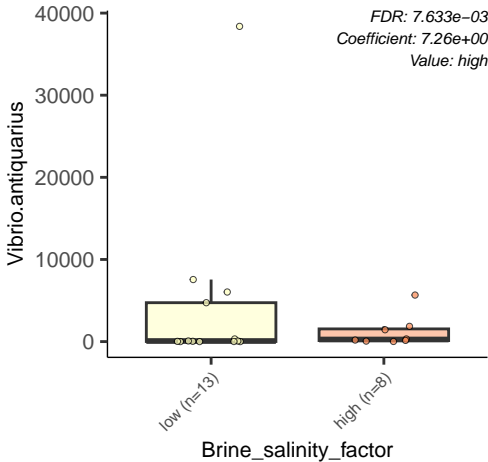
low (n=13)

high (n=8)

Brine\_salinity\_factor







Pseudo.nitzschia.multiseriies

*FDR: 7.771e-03*  
*Coefficient: -2.44e+00*  
*Value: high*

600

400

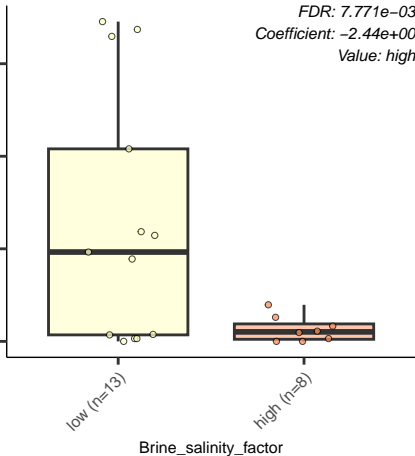
200

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





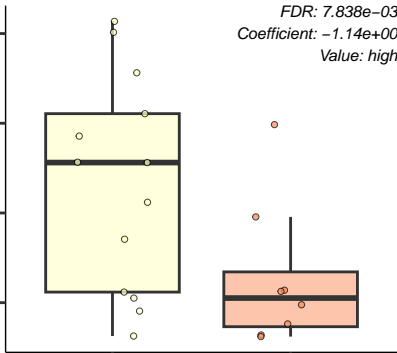
Dinoroseobacter.shibae

FDR:  $7.838e-03$   
Coefficient:  $-1.14e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Value: high



low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

Maribacter.sp..1\_2014MBL\_MicDiv

FDR:  $7.942e-03$   
Coefficient:  $-2.32e+00$   
Value: high

600

400

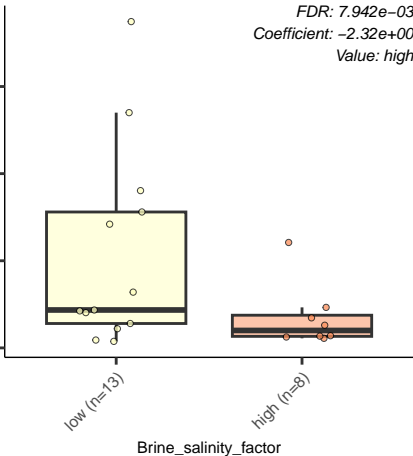
200

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Dolichomastix.tenuilepis

FDR: 8.379e-03

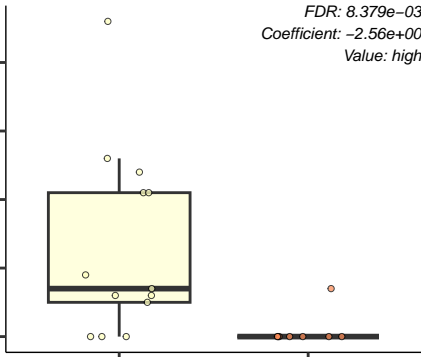
Coefficient: -2.56e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



uncultured.Caldilineaceae.bacterium

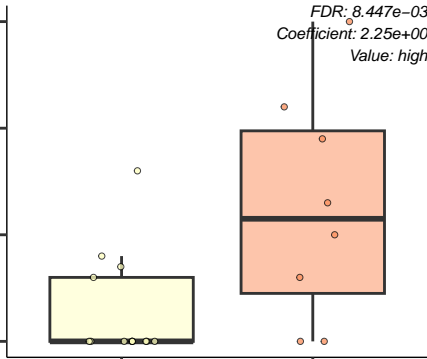
FDR:  $8.447e-03$   
Coefficient:  $2.25e+00$   
Value: high

30  
20  
10  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halobacterium.sp..GN101

*FDR: 8.452e-03*  
*Coefficient: 2.96e+00*  
*Value: high*

1500

1000

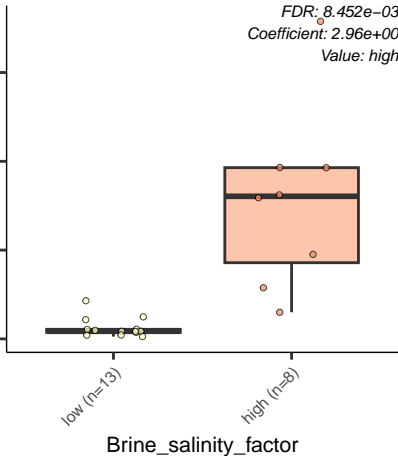
500

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Litorilinea.aerophila

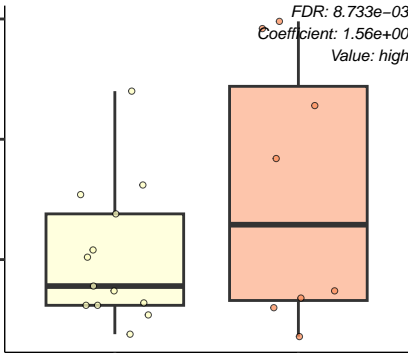
150  
100  
50

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 8.733e-03  
Coefficient: 1.56e+00  
Value: high



Rhodovulum.sp..P5

*FDR: 9.011e-03*  
*Coefficient: -9.48e-01*  
*Value: high*

3000

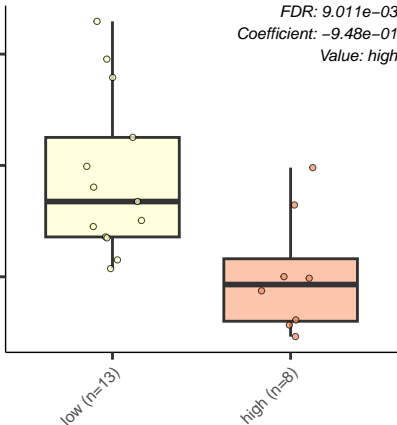
2000

1000

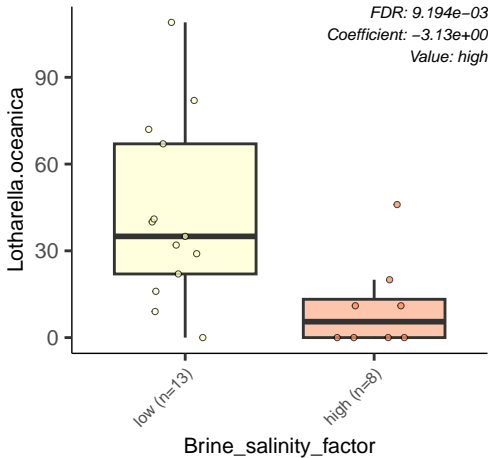
low (n=13)

high (n=8)

Brine\_salinity\_factor







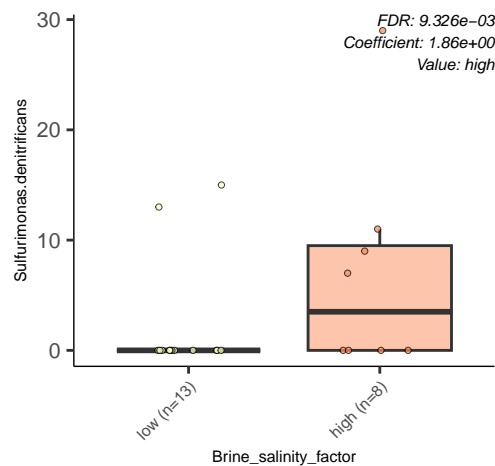
Sulfurimonas.denitrificans

*FDR: 9.326e-03*  
*Coefficient: 1.86e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



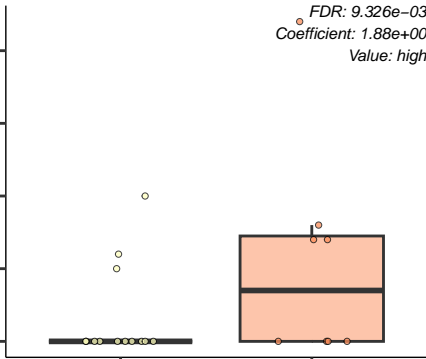
uncultured.forest.soil.bacterium

FDR:  $9.326e-03$   
Coefficient:  $1.88e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



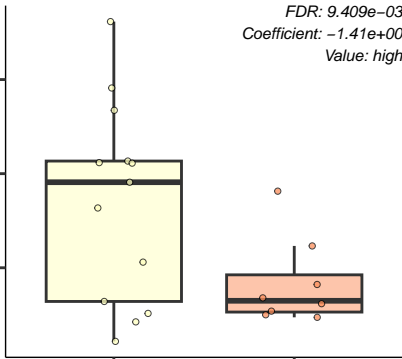
Confluentimicrobium.sp..EMB200.NS6

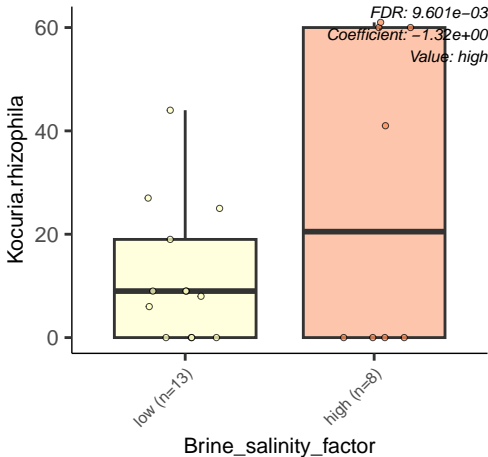
FDR:  $9.409e-03$   
Coefficient:  $-1.41e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Nitzschia.inconspicua

*FDR: 9.729e-03*

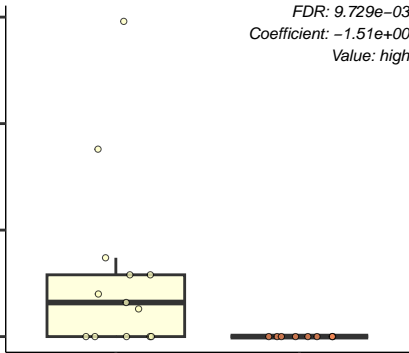
*Coefficient: -1.51e+00*

*Value: high*

low (n=13)

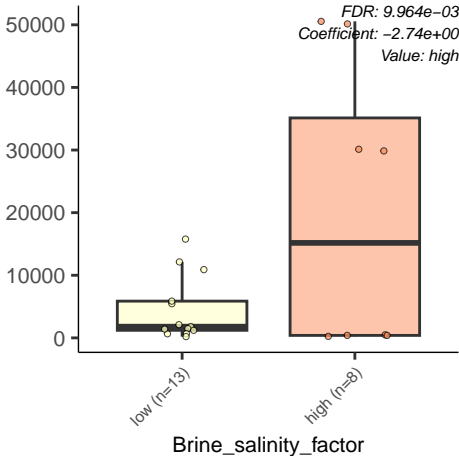
high (n=8)

Brine\_salinity\_factor





Halothece.sp..PCC.7418





Phaeobacter.inhibens

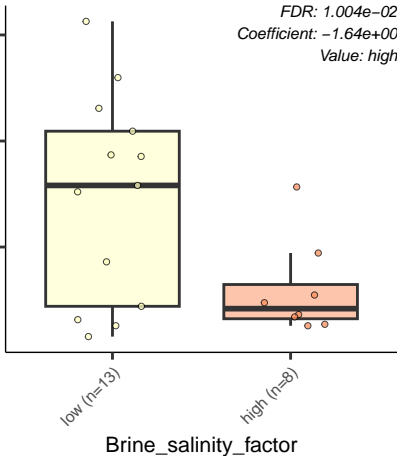
6000  
4000  
2000

*FDR: 1.004e-02*  
*Coefficient: -1.64e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



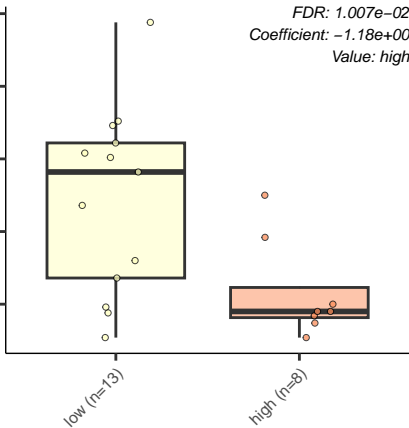
Ruegeria.sp..TM1040

*FDR: 1.007e-02*  
*Coefficient: -1.18e+00*  
*Value: high*

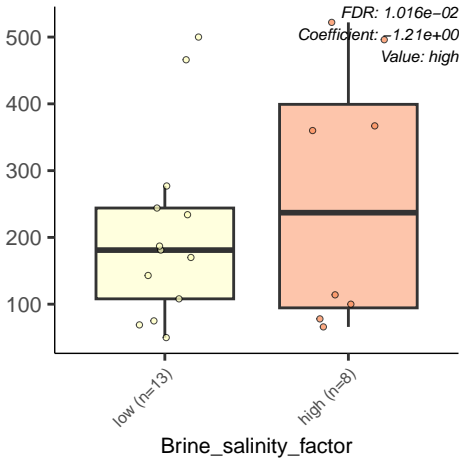
low (n=13)

high (n=8)

Brine\_salinity\_factor



Methylorubrum.populi



Haloarcula.marismortui

15000

10000

5000

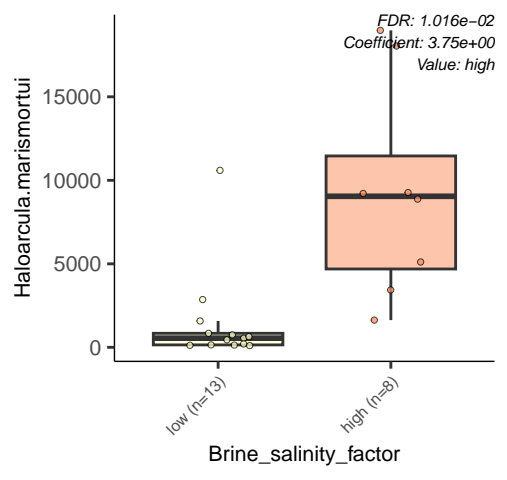
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 1.016e-02  
Coefficient: 3.75e+00  
Value: high



Halorubrum.sp..SD645R

*FDR: 1.017e-02*  
*Coefficient: 2.89e+00*  
*Value: high*

90

60

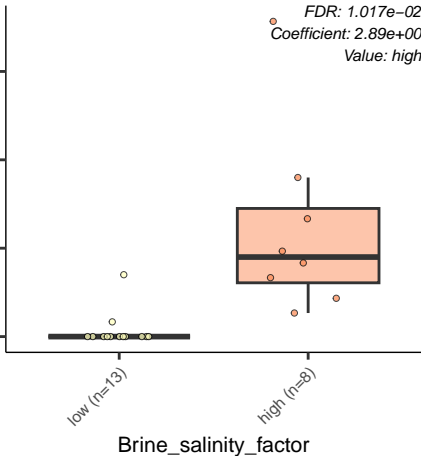
30

0

low (n=13)

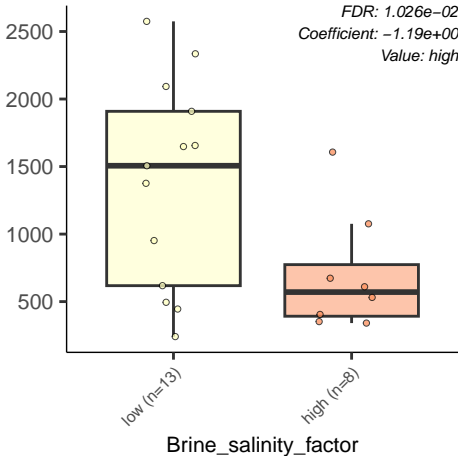
high (n=8)

Brine\_salinity\_factor



Marinovum.algicola

*FDR: 1.026e-02*  
*Coefficient: -1.19e+00*  
*Value: high*



Halomonas.ventosae

20

10

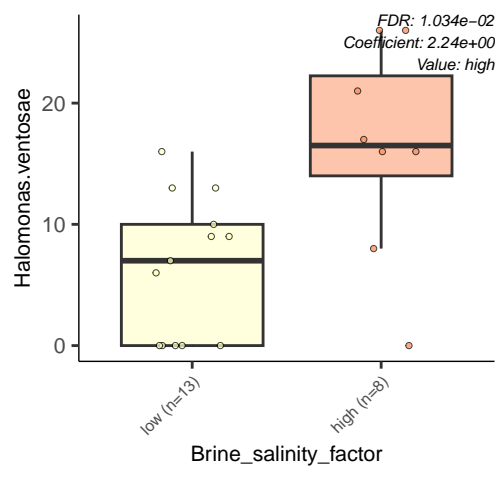
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $1.034e-02$   
Coefficient:  $2.24e+00$   
Value: high



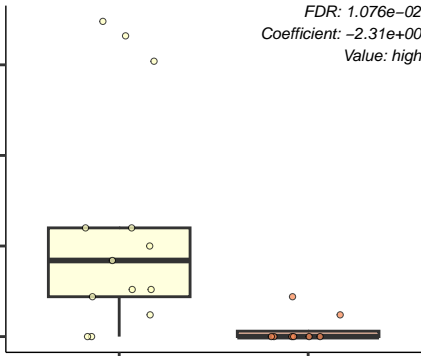
uncultured.prasinophyte

FDR: 1.076e-02  
Coefficient: -2.31e+00  
Value: high

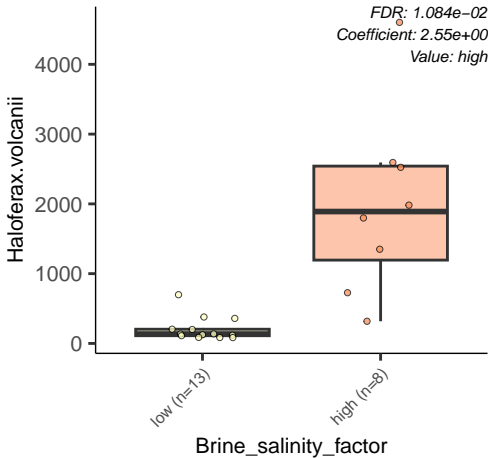
low (n=13)

high (n=8)

Brine\_salinity\_factor







Natronomonas.moolapensis

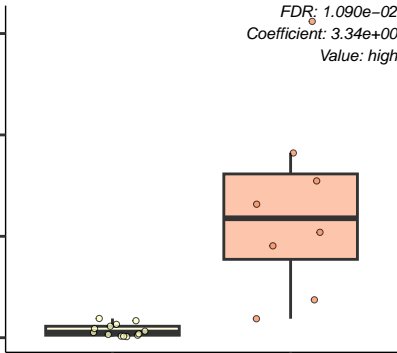
*FDR: 1.090e-02*  
*Coefficient: 3.34e+00*  
*Value: high*

6000  
4000  
2000  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



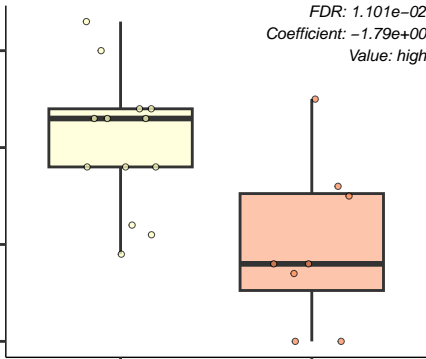
Magnetospirillum.magneticum

FDR:  $1.101e-02$   
Coefficient:  $-1.79e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



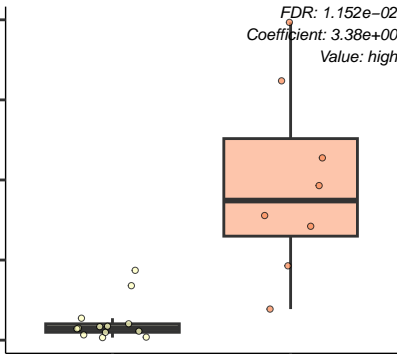
uncultured.haloarchaeon

FDR:  $1.152 \times 10^{-2}$   
Coefficient:  $3.38 \times 10^0$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



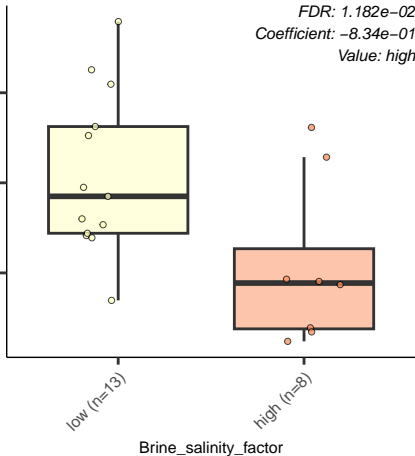
Leisingera.methylohalidivorans

FDR:  $1.182e-02$   
Coefficient:  $-8.34e-01$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



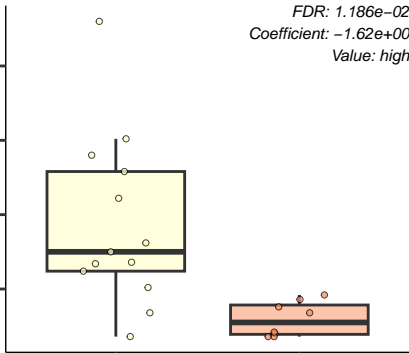
Rhodovulum.sp..SMB1

FDR:  $1.186e-02$   
Coefficient:  $-1.62e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Natrinema.pellirubrum

*FDR: 1.196e-02*  
*Coefficient: 2.95e+00*  
*Value: high*

4000

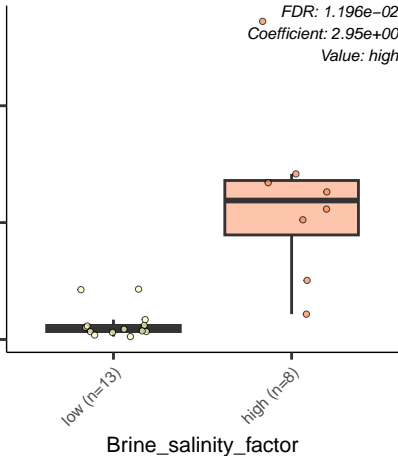
2000

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Bosea.vaviloviae

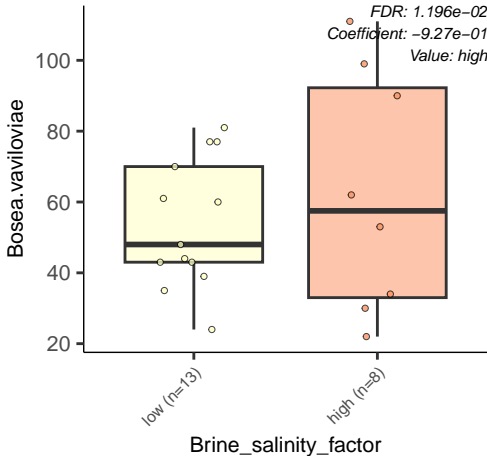
100  
80  
60  
40  
20

low (n=13)

high (n=8)

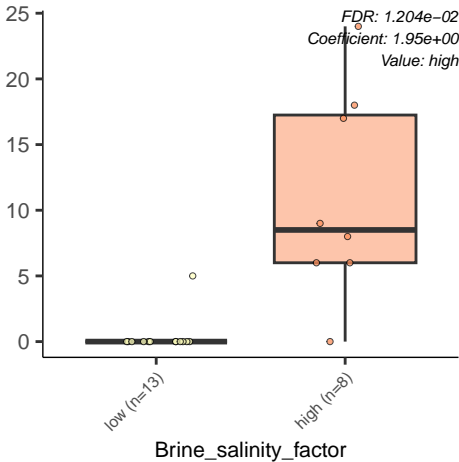
Brine\_salinity\_factor

FDR: 1.196e-02  
Coefficient: -9.27e-01  
Value: high

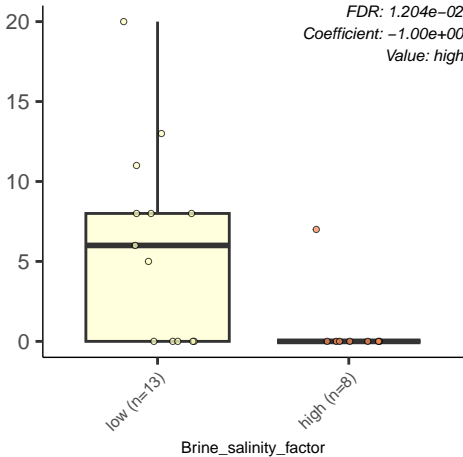


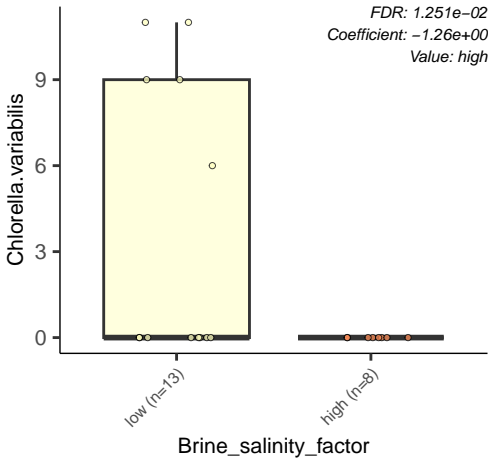


Guyparkeria.halophila



Value: high





Tateyamaria.omphalii

*FDR: 1.261e-02*  
*Coefficient: -1.56e+00*  
*Value: high*

2000

1500

1000

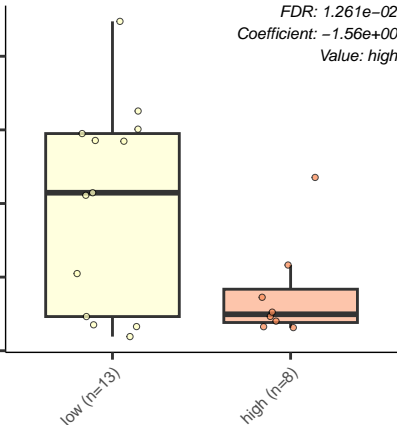
500

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Robiginitalea.biformata

1500

1000

500

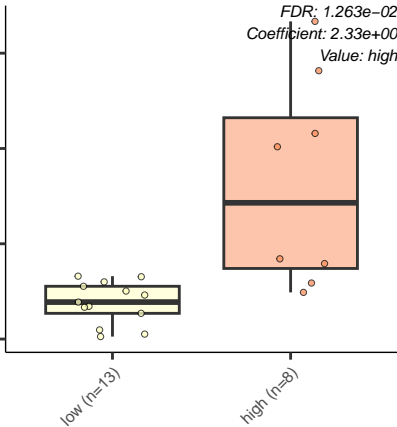
0

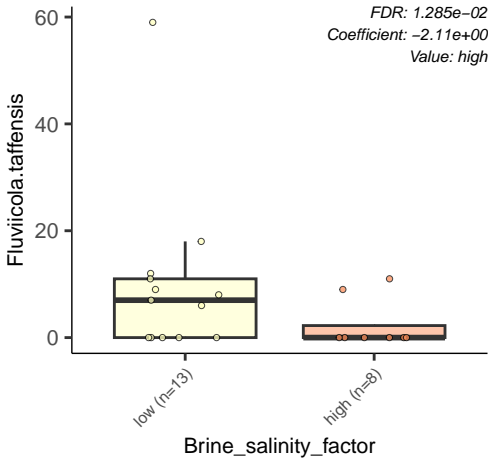
low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 1.263e-02  
Coefficient: 2.33e+00  
Value: high





Thiohalorhabdus.denitrificans

FDR: 1.295e-02  
Coefficient: 1.91e+00  
Value: high

20

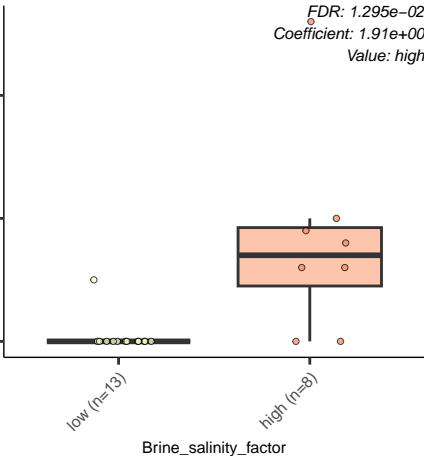
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halorubrum.sp..lb25

20

15

10

5

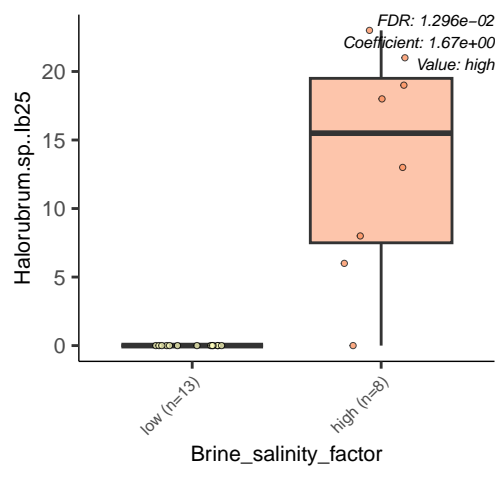
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 1.296e-02  
Coefficient: 1.67e+00  
Value: high





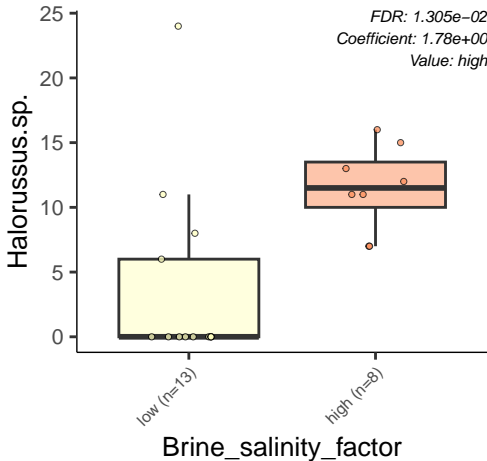
Halorussus.sp.

*FDR: 1.305e-02*  
*Coefficient: 1.78e+00*  
*Value: high*

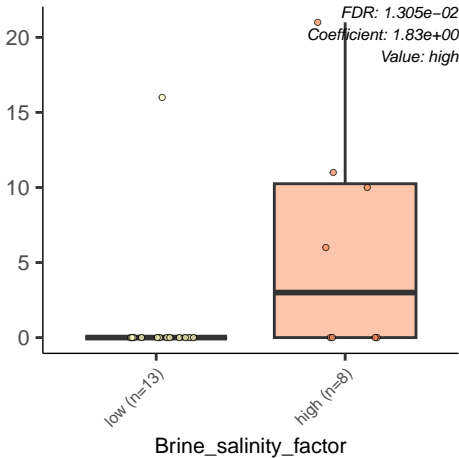
low (n=13)

high (n=8)

Brine\_salinity\_factor



cyanobacterium.WH7B



Halomicrobium.zhouii

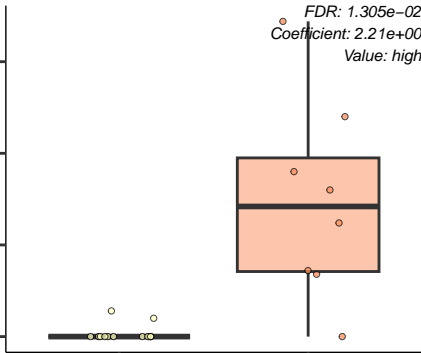
FDR: 1.305e-02  
Coefficient: 2.21e+00  
Value: high

75  
50  
25  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Value: high



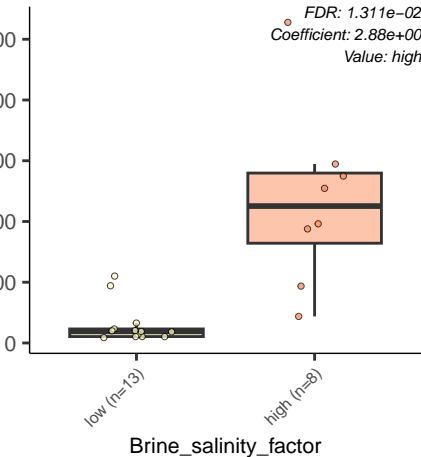
low (n=13)

high ( $n=8$ )

Brine\_salinity\_factor

Haloarcula.sp.:CBA1115

*FDR: 1.311e-02*  
*Coefficient: 2.88e+00*  
*Value: high*



uncultured.Acidimicrobiales.bacterium

*FDR: 1.316e-02*  
*Coefficient: -2.28e+00*  
*Value: high*

20

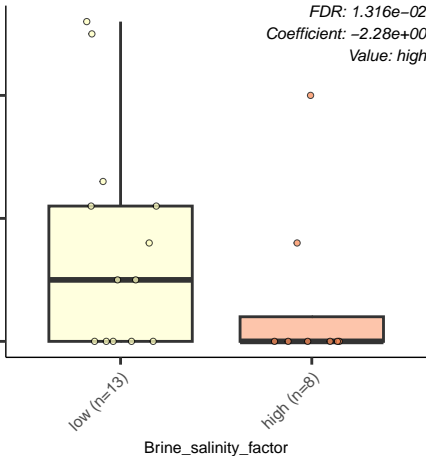
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



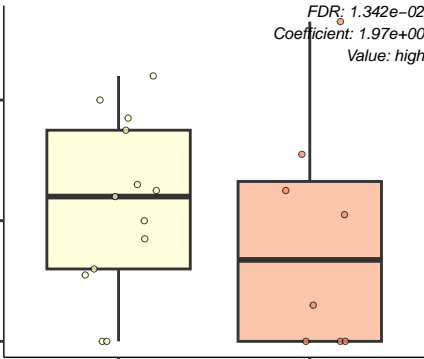
uncultured.bacterium.W5.47b

FDR: 1.342e-02  
Coefficient: 1.97e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Gomphoneis.minuta

FDR: 1.355e-02

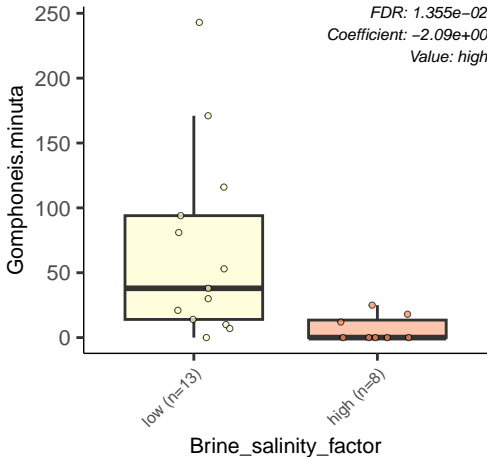
Coefficient: -2.09e+00

Value: high

low (n=13)

high (n=8)

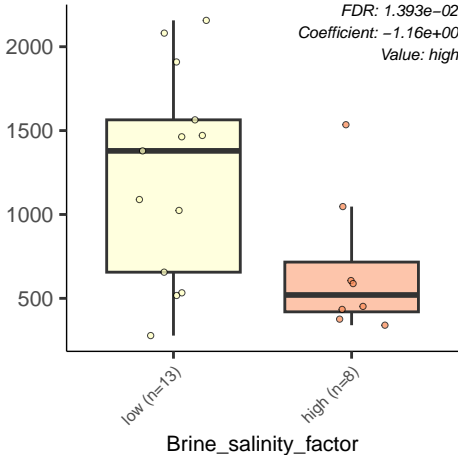
Brine\_salinity\_factor





Celeribacter.indicus

*FDR: 1.393e-02*  
*Coefficient: -1.16e+00*  
*Value: high*



Halobiforma.lacisalsi

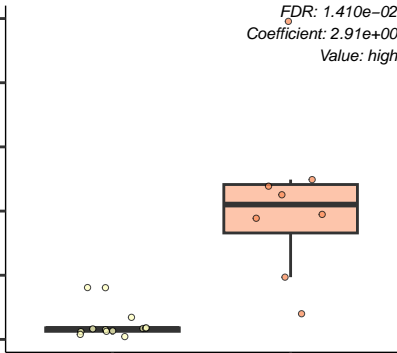
2500  
2000  
1500  
1000  
500  
0

*FDR: 1.410e-02*  
*Coefficient: 2.91e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



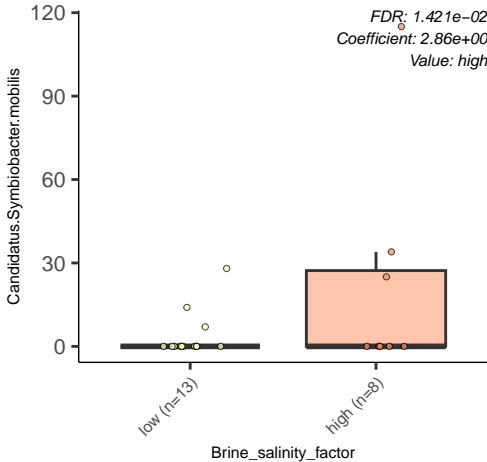
Candidatus.Symbiobacter.mobilis

*FDR: 1.421e-02*  
*Coefficient: 2.86e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



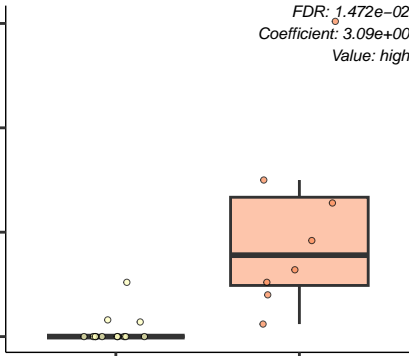
Halorubrum.vacuolatum

FDR: 1.472e-02  
Coefficient: 3.09e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



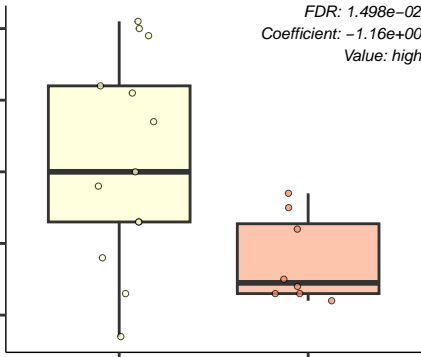
Sinorhizobium.americanum

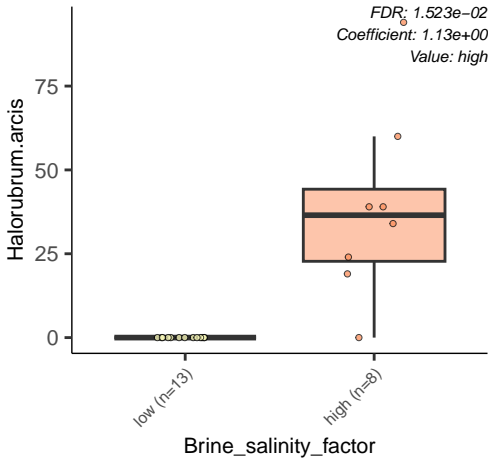
FDR: 1.498e-02  
Coefficient: -1.16e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Cerataulina.daemon

FDR:  $1.523e-02$   
Coefficient:  $-1.77e+00$   
Value: high

40

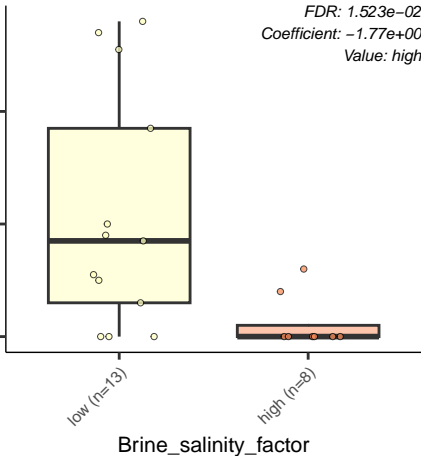
20

0

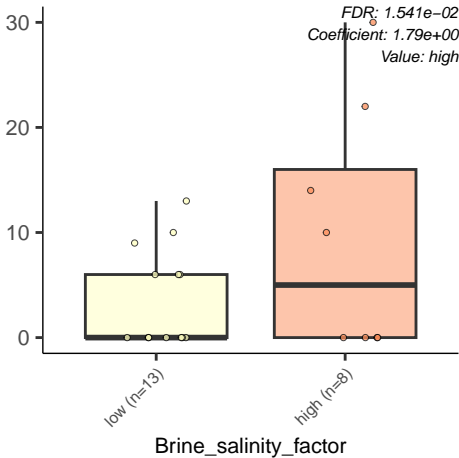
low (n=13)

high (n=8)

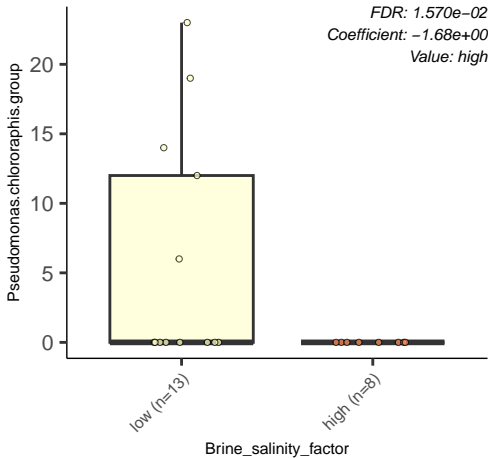
Brine\_salinity\_factor

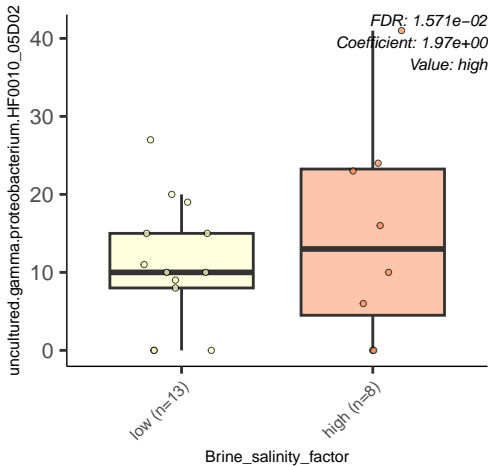


Tenacibaculum.sp..SZ.18









Halobacteroides.halobius

900

600

300

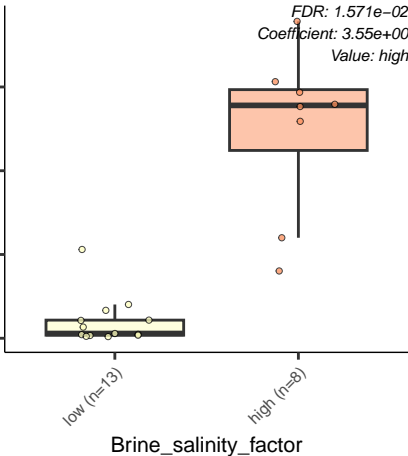
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 1.571e-02  
Coefficient: 3.55e+00  
Value: high



Oscillatoriales.cyanobacterium..Gollwitz.Poel.

FDR: 1.581e-02  
Coefficient: 1.42e+00  
Value: high

40

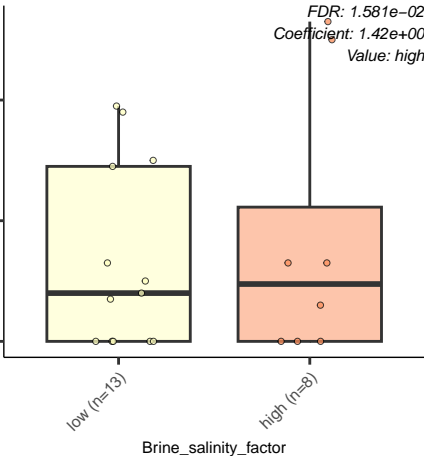
20

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



*Pseudomonas.chlororaphis*

FDR: 1.583e-02

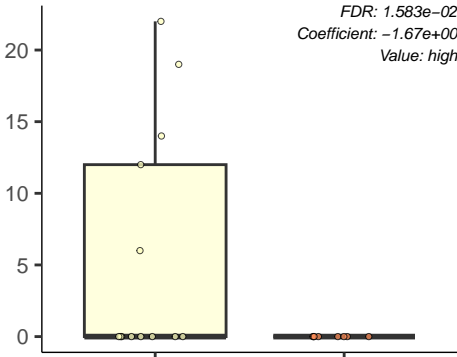
Coefficient: -1.67e+00

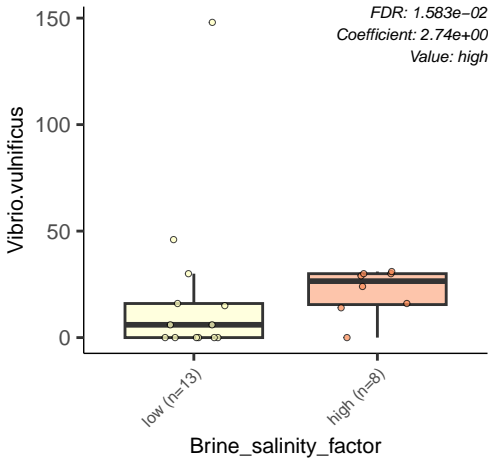
Value: high

low (n=13)

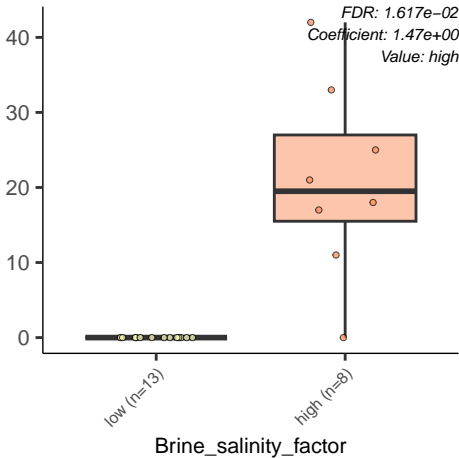
high (n=8)

Brine\_salinity\_factor





Halorubrum.tibetense



Halobacterium.sp..AUS.2

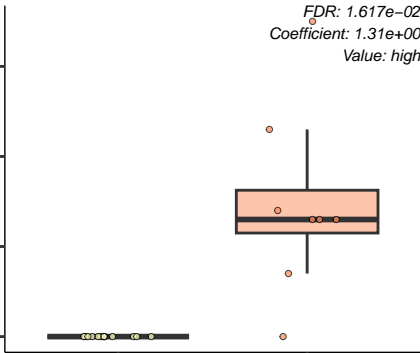
FDR: 1.617e-02  
Coefficient: 1.31e+00  
Value: high

30  
20  
10  
0

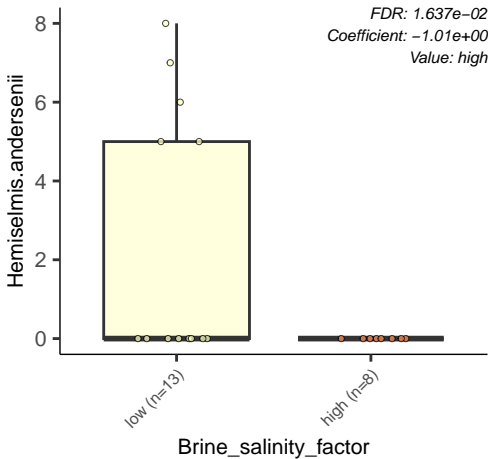
low (n=13)

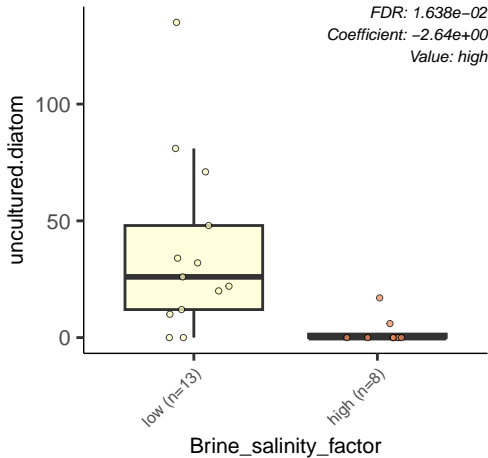
high (n=8)

Brine\_salinity\_factor









Halobacterium.salinarum

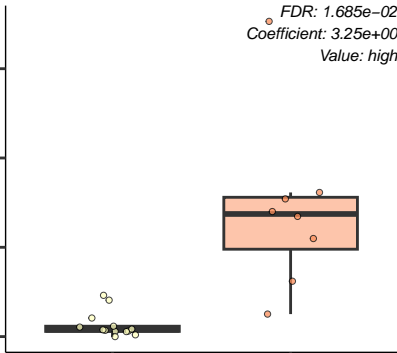
*FDR: 1.685e-02*  
*Coefficient: 3.25e+00*  
*Value: high*

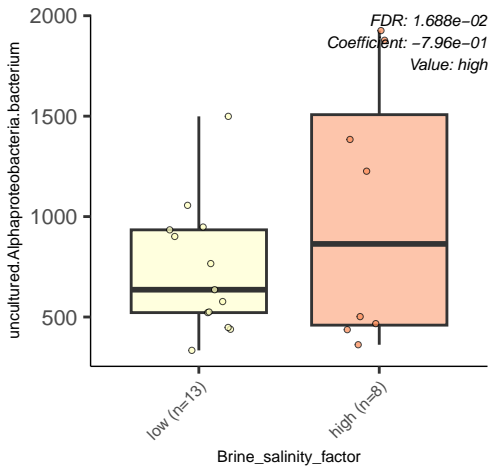
1500  
1000  
500  
0

low (n=13)

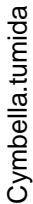
high (n=8)

Brine\_salinity\_factor





Value: high



20 -

10 -

0 -

low ( $n=13$ )

high ( $n=8$ )

Brine\_salinity\_factor

Halobacterium.sp..DL1

*FDR: 1.744e-02*  
*Coefficient: 2.73e+00*  
*Value: high*

3000

2000

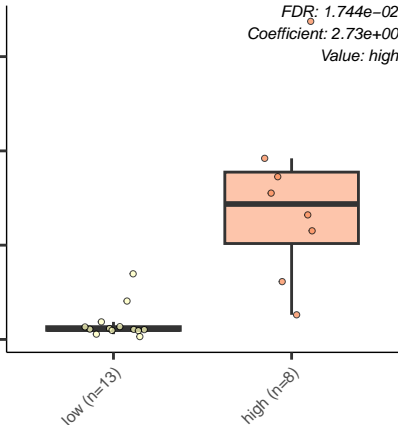
1000

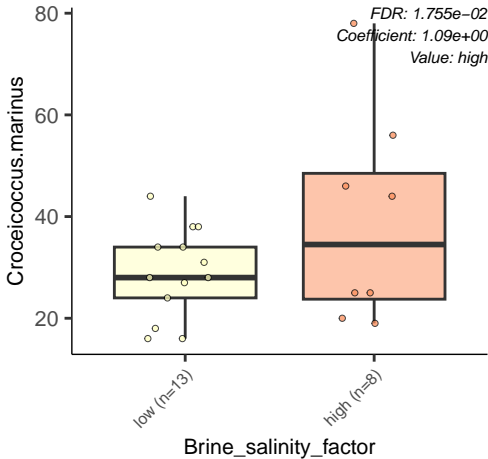
0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Salinigranum.rubrum

*FDR: 1.755e-02*  
*Coefficient: 3.14e+00*  
*Value: high*

20000

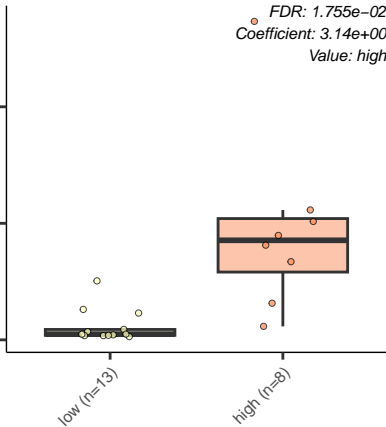
10000

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Aureimonas.sp..AU22

60

40

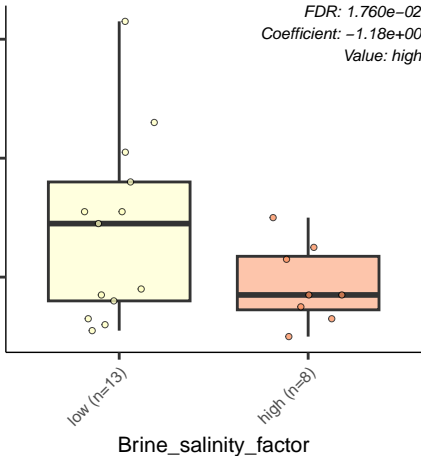
20

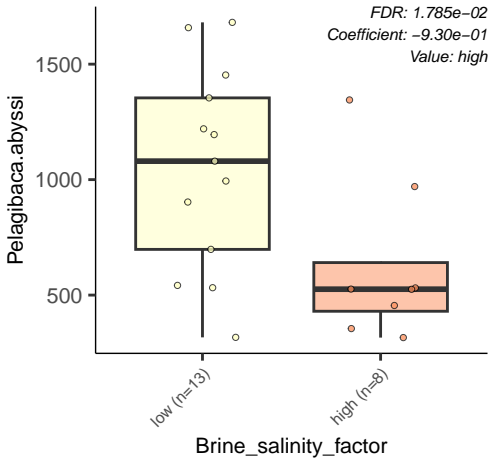
low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $1.760e-02$   
Coefficient:  $-1.18e+00$   
Value: high





Thalassiosira.oceanica

FDR: 1.790e-02

Coefficient: -2.35e+00

Value: high

150

100

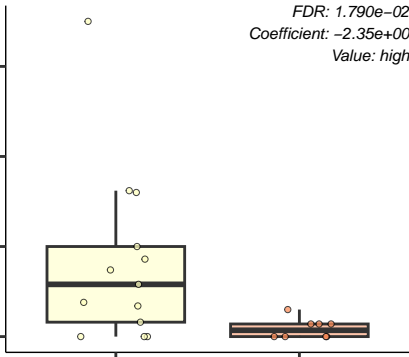
50

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Marivirga.tractuosa

FDR:  $1.791e-02$   
Coefficient:  $-2.66e+00$   
Value: high

30000

20000

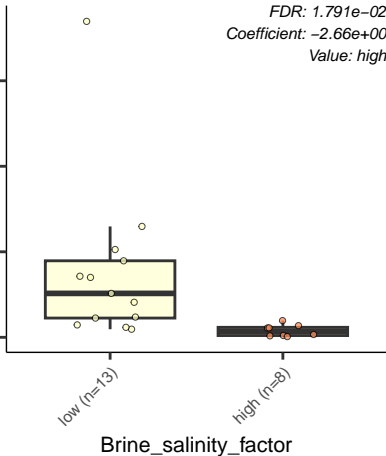
10000

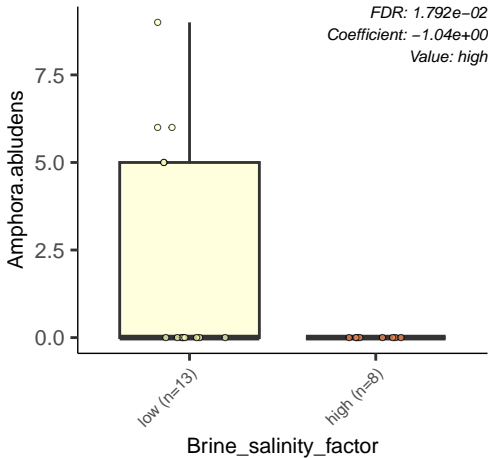
0

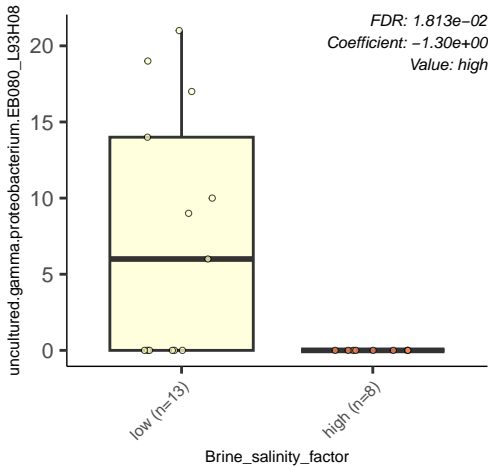
low (n=13)

high (n=8)

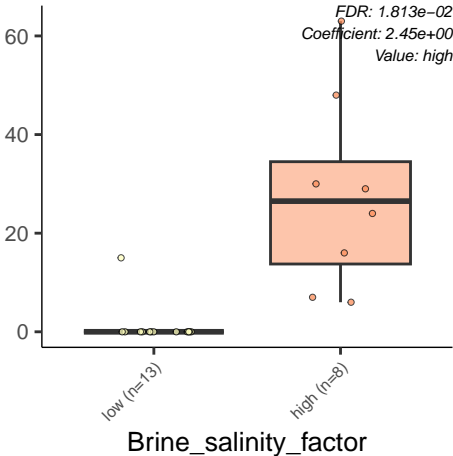
Brine\_salinity\_factor







Halobaculum.sp.



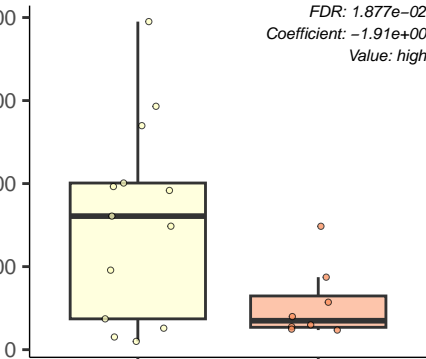
Sulfitobacter.pseudonitzschiae

FDR: 1.877e-02  
Coefficient: -1.91e+00  
Value: high

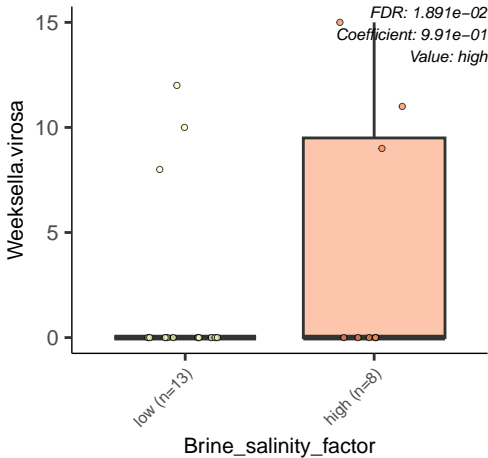
low (n=13)

high (n=8)

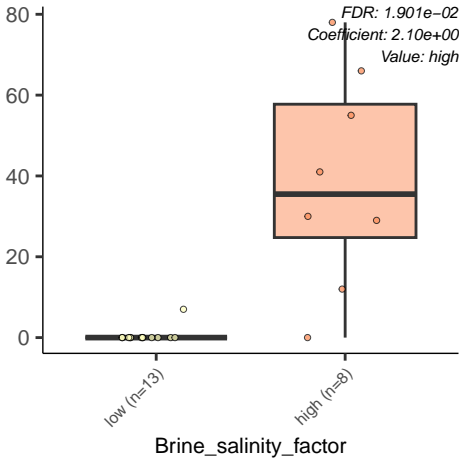
Brine\_salinity\_factor



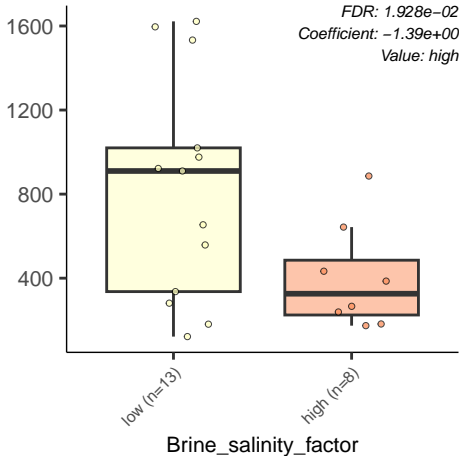




Halorubrum.sp..TP121



Phaeobacter.porticola



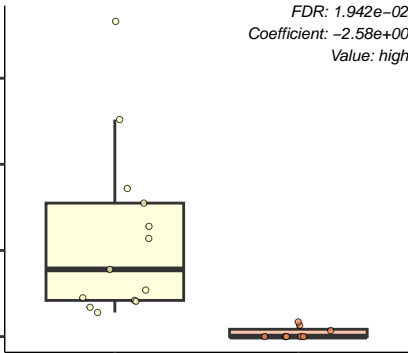
Alteromonas.sp..RW2A1

FDR:  $1.942e-02$   
Coefficient:  $-2.58e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



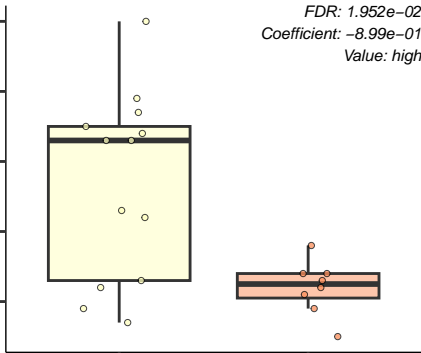
Magnetospira.sp..QH.2

FDR: 1.952e-02  
Coefficient: -8.99e-01  
Value: high

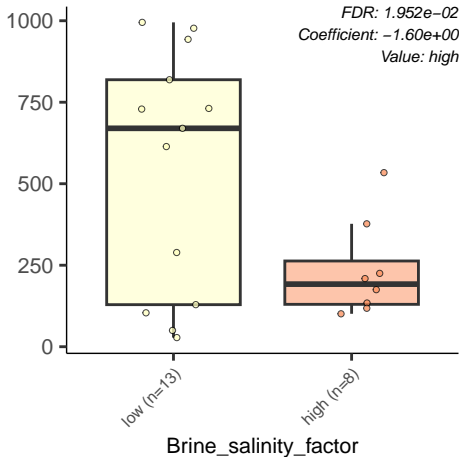
low (n=13)

high (n=8)

Brine\_salinity\_factor



Roseobacter.denitrificans



Rhodobacteraceae.bacterium

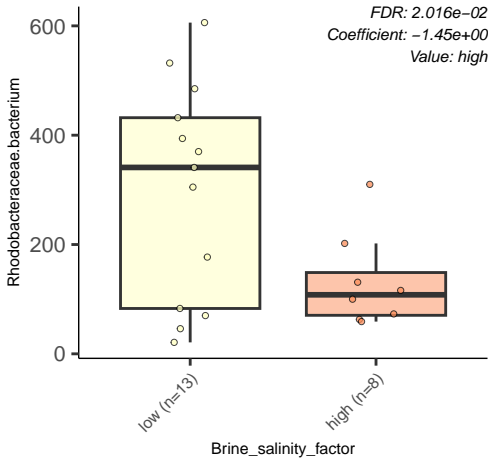
600  
400  
200  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.016e-02  
Coefficient: -1.45e+00  
Value: high



Oceanicella.actignis

FDR: 2.030e-02

Coefficient: -1.51e+00

Value: high

10

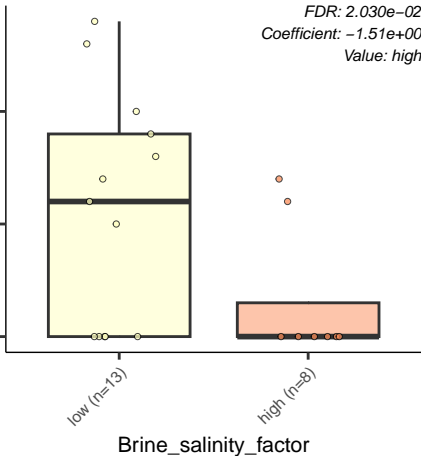
5

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Halobacteriaceae.archaeon.ZS.5

*FDR: 2.041e-02*  
*Coefficient: 3.74e+00*  
*Value: high*

200

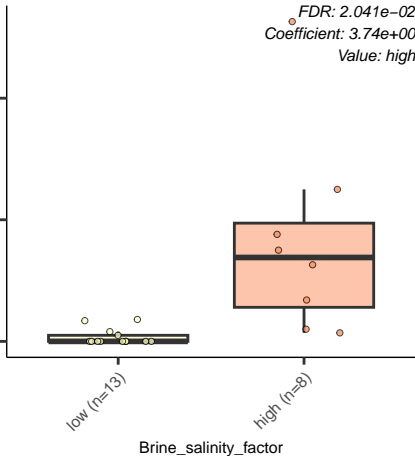
100

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



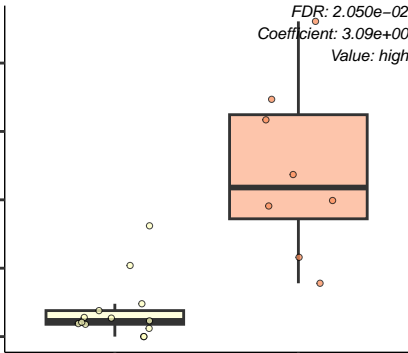
Natronobacterium.gregoryi

FDR: 2.050e-02  
Coefficient: 3.09e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Natrinema.sp..J7.2

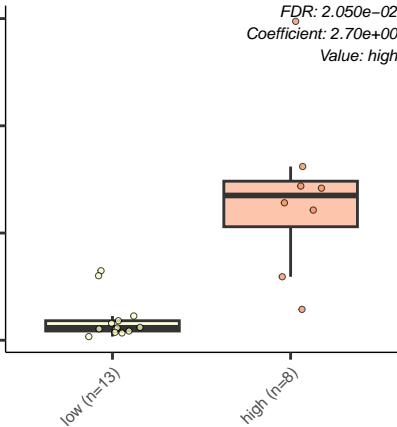
1500  
1000  
500  
0

*FDR: 2.050e-02*  
*Coefficient: 2.70e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





Nonlabens.sp..Hel1\_33\_55

FDR: 2.059e-02

Coefficient: -2.21e+00

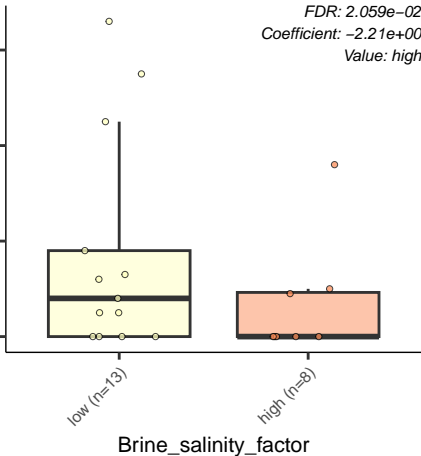
Value: high

60  
40  
20  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



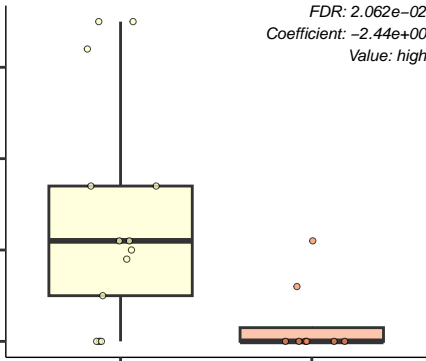
Paraburkholderia.xenovorans

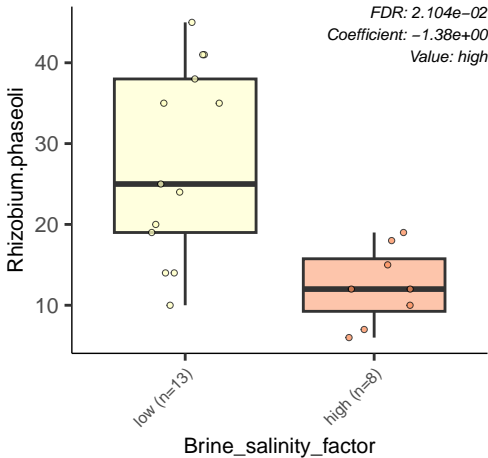
FDR:  $2.062e-02$   
Coefficient:  $-2.44e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





uncultured.archaeon

FDR:  $2.104 \times 10^{-2}$   
Coefficient:  $2.12 \times 10^0$   
Value: high

3000

2000

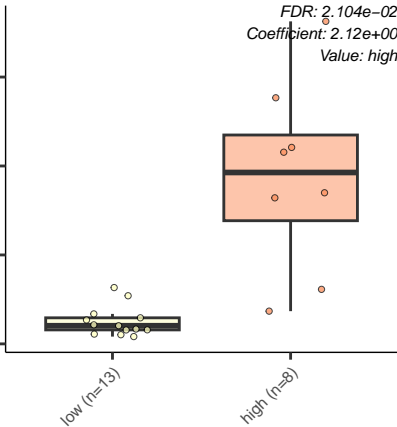
1000

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Halorubrum.yunnanense

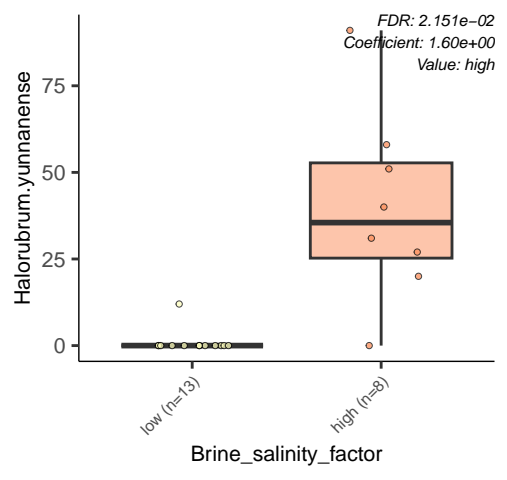
low (n=13)

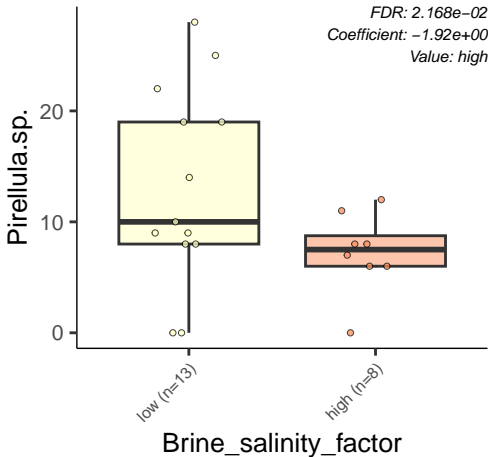
high (n=8)

Brine\_salinity\_factor

FDR: 2.151e-02  
Coefficient: 1.60e+00  
Value: high

75  
50  
25  
0







Halopiger.xanaduensis

*FDR: 2.246e-02*  
*Coefficient: 2.89e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor

1500

1000

500

0

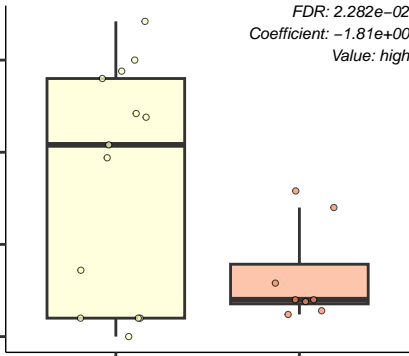
Octadecabacter:temperatus

*FDR: 2.282e-02*  
*Coefficient: -1.81e+00*  
*Value: high*

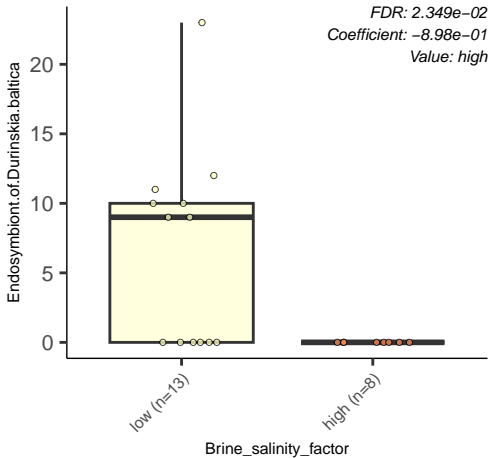
low (n=13)

high (n=8)

Brine\_salinity\_factor







Haloarcula.sp..enrichment.culture

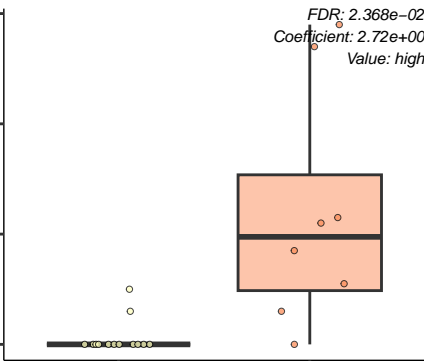
60  
40  
20  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.368e-02  
Coefficient: 2.72e+00  
Value: high





Halomicrobium.katesii

20

10

0

low (n=13)

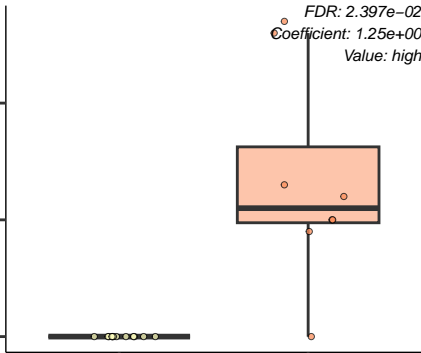
high (n=8)

Brine\_salinity\_factor

FDR: 2.397e-02

Coefficient: 1.25e+00

Value: high



Nanohaloarchaea.archaeon.SG9

200

100

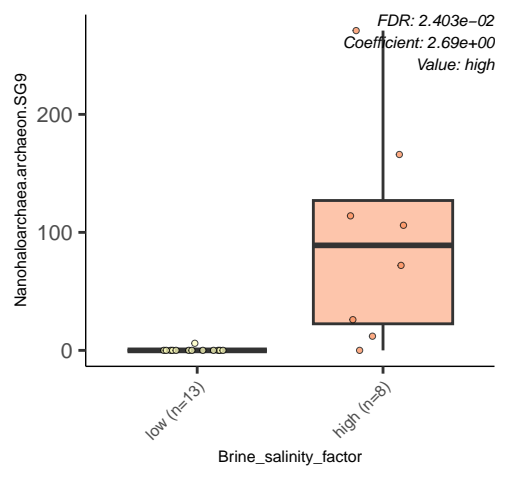
0

low (n=13)

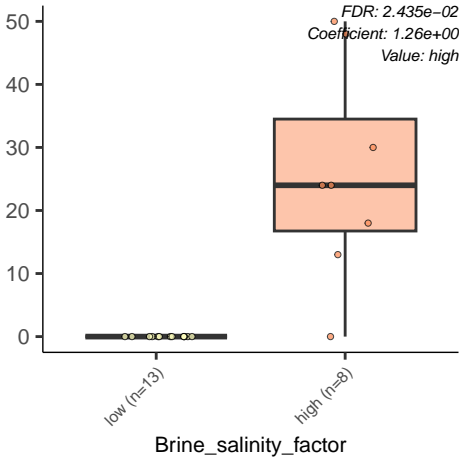
high (n=8)

Brine\_salinity\_factor

*FDR: 2.403e-02*  
*Coefficient: 2.69e+00*  
*Value: high*



Halorubrum.halodurans



Pseudodesulfovibrio.profundus

FDR:  $2.437e-02$   
Coefficient:  $4.51e+00$   
Value: high

8000

6000

4000

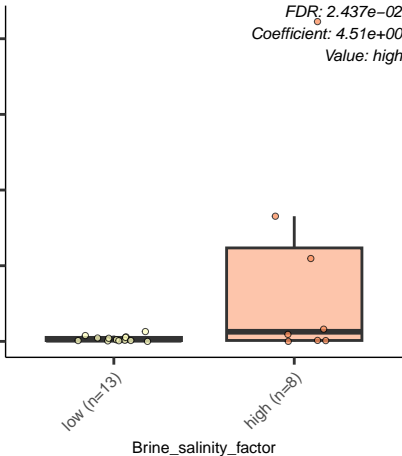
2000

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halomicroarcula.sp.

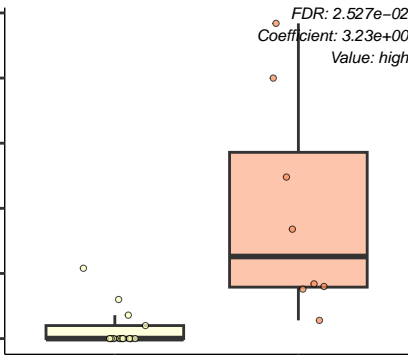
125  
100  
75  
50  
25  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.527e-02  
Coefficient: 3.23e+00  
Value: high



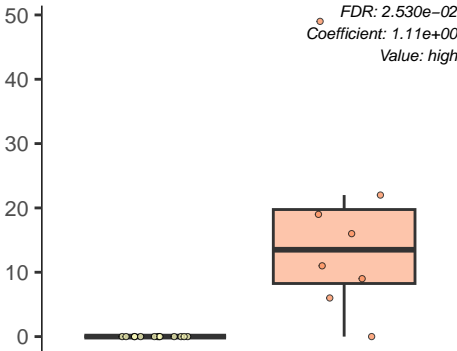
Halorubrum.sp..SP3

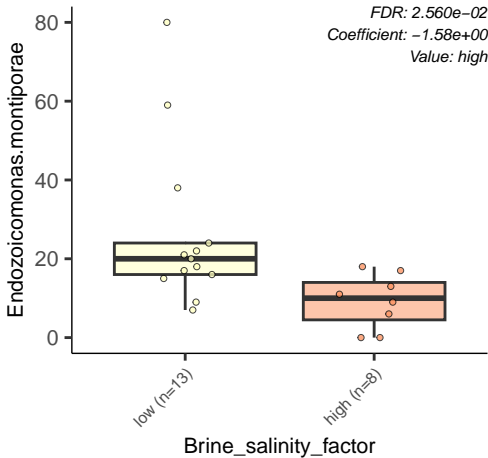
*FDR: 2.530e-02*  
*Coefficient: 1.11e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





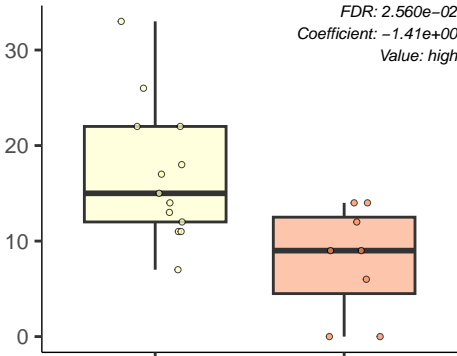
Methylocystis.sp..SC2

*FDR: 2.560e-02*  
*Coefficient: -1.41e+00*  
*Value: high*

low (n=13)

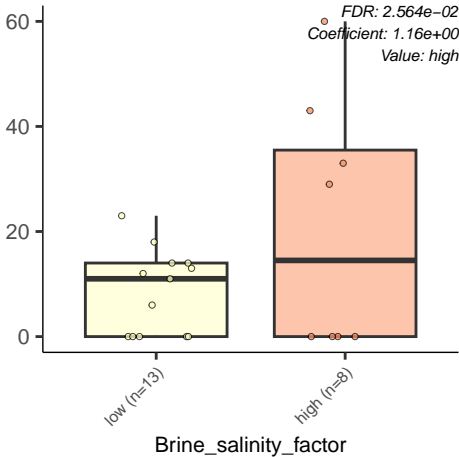
high (n=8)

Brine\_salinity\_factor





Spingobacterium.mizutaii



Granulibacter.bethesdensis

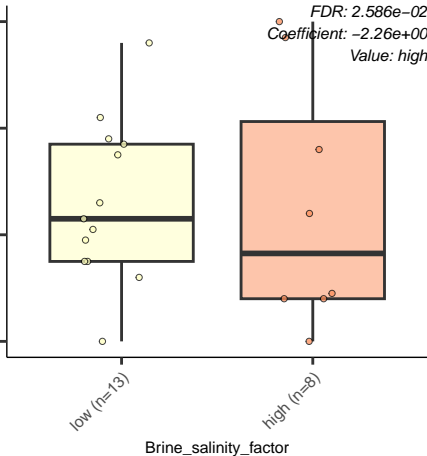
60  
40  
20  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.586e-02  
Coefficient: -2.26e+00  
Value: high



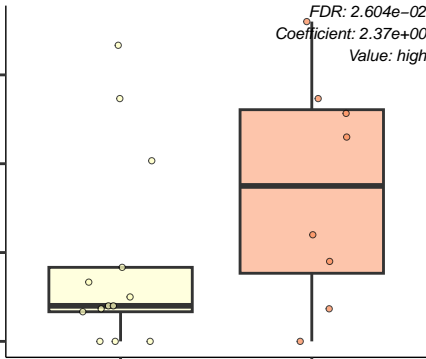
Desulfuromonas.soudanensis

FDR: 2.604e-02  
Coefficient: 2.37e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Phycisphaera.mikurensis

FDR: 2.604e-02

Coefficient: -1.34e+00

Value: high

60

40

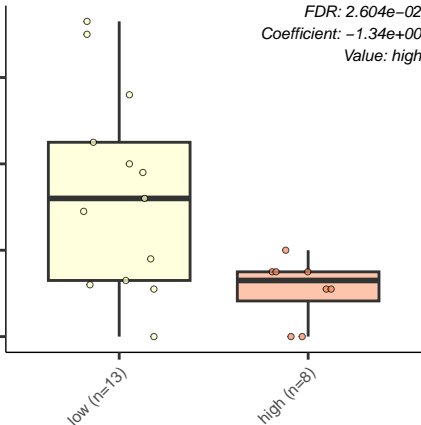
20

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



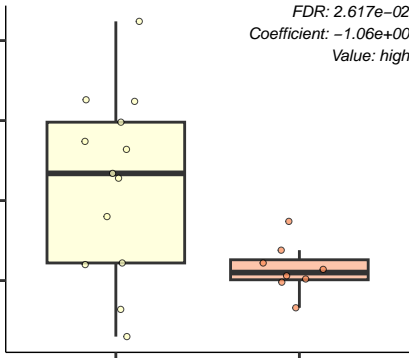
uncultured.planctomycete

FDR:  $2.617e-02$   
Coefficient:  $-1.06e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



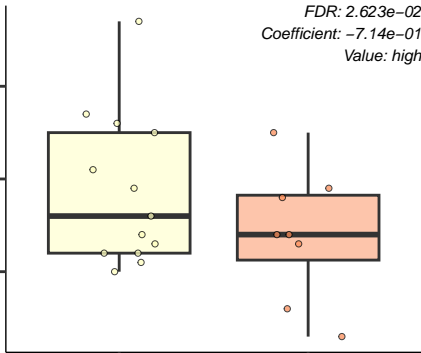
*Sinorhizobium.meliloti*

*FDR: 2.623e-02*  
*Coefficient: -7.14e-01*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Dunaliella.viridis

100

50

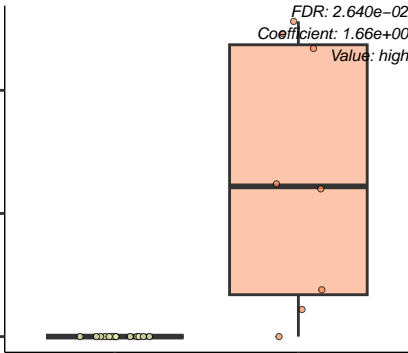
0

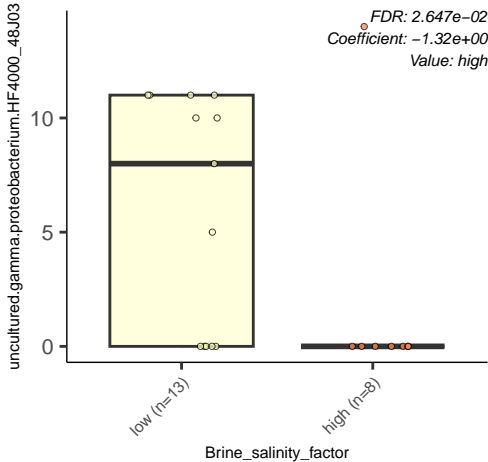
low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 2.640e-02  
Coefficient: 1.66e+00  
Value: high







Aeromonas.hydrophila

FDR: 2.656e-02

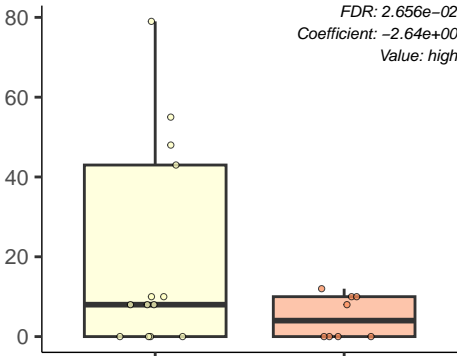
Coefficient: -2.64e+00

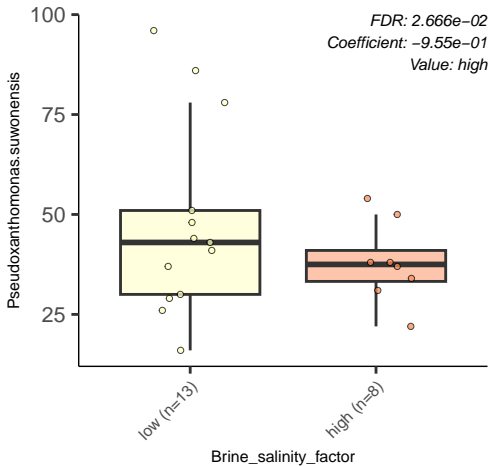
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Polymorphum.gilvum

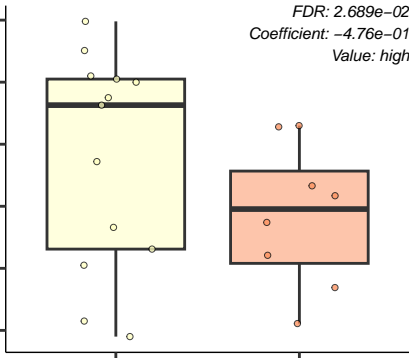
800  
700  
600  
500  
400  
300

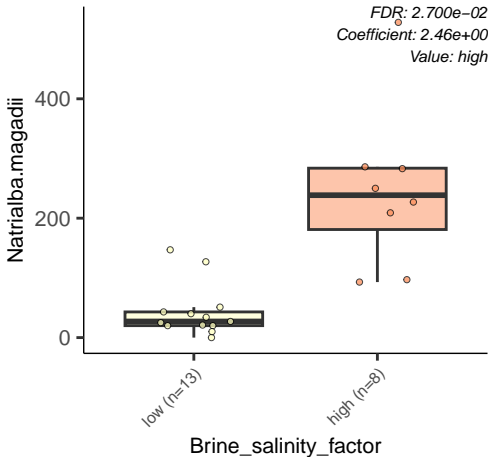
*FDR: 2.689e-02*  
*Coefficient: -4.76e-01*  
*Value: high*

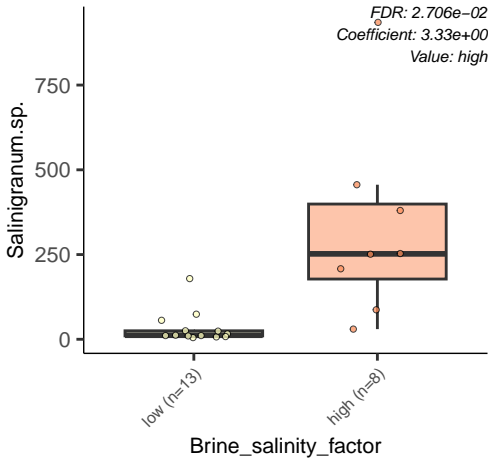
low (n=13)

high (n=8)

Brine\_salinity\_factor







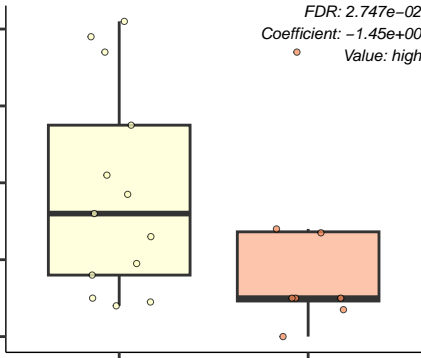
Nonlabens.dokdonensis

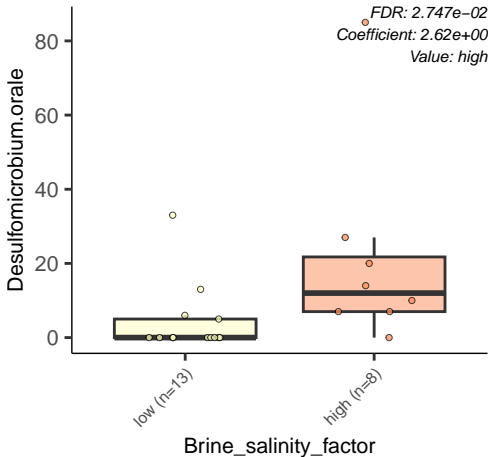
FDR: 2.747e-02  
Coefficient: -1.45e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





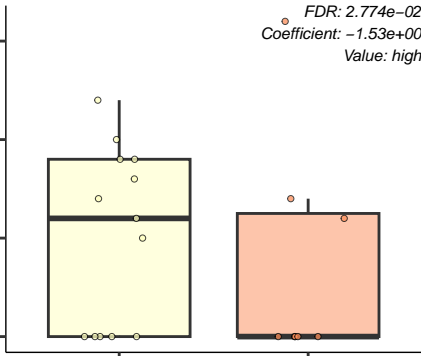
Aeromicrobium.choanae

FDR: 2.774e-02  
Coefficient: -1.53e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Leptocylindrus.danicus

*FDR: 2.799e-02*

*Coefficient: -1.19e+00*

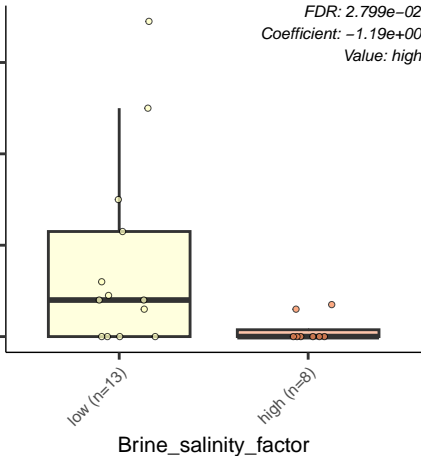
*Value: high*

60  
40  
20  
0

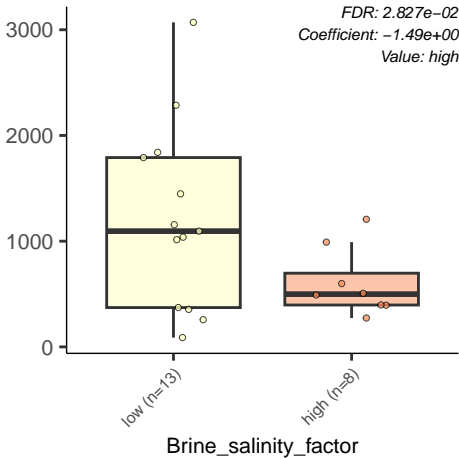
low (n=13)

high (n=8)

Brine\_salinity\_factor



Yoonia.vestfoldensis



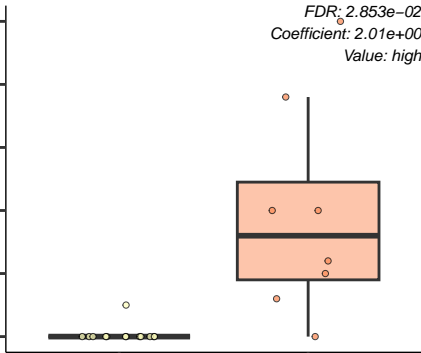
Halorubrum.laminariae

FDR:  $2.853e-02$   
Coefficient:  $2.01e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Pseudophaeobacter.leonis

FDR: 2.857e-02  
Coefficient: -2.25e+00  
Value: high

20

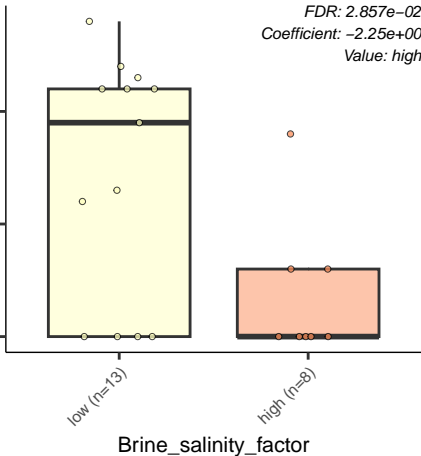
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Pontibacter.korlensis

FDR: 2.857e-02  
Coefficient: 1.75e+00  
Value: high

20

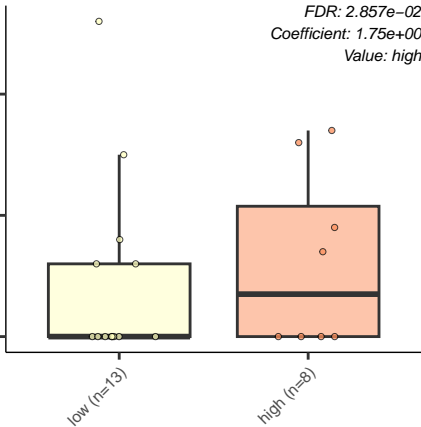
10

0

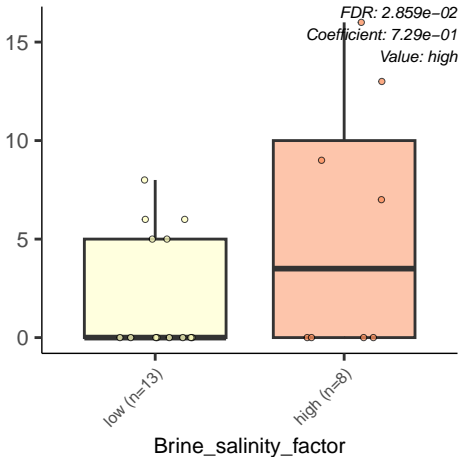
low (n=13)

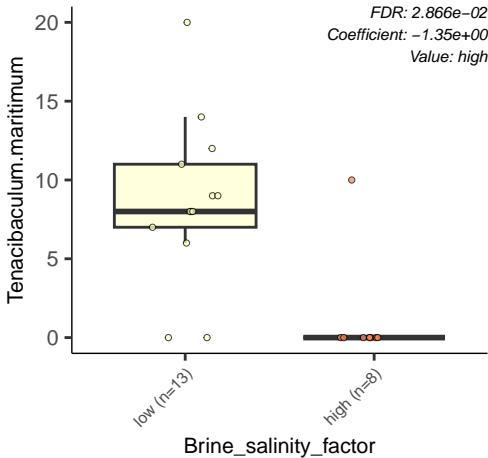
high (n=8)

Brine\_salinity\_factor



Pelosinus.fermentans





Vibrio.parahaemolyticus

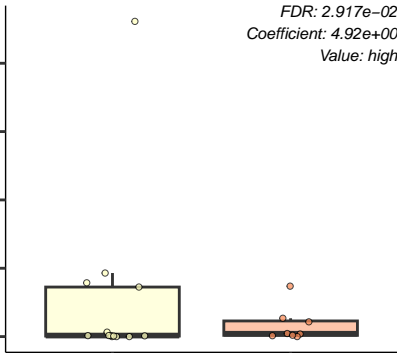
FDR: 2.917e-02  
Coefficient: 4.92e+00  
Value: high

4000  
3000  
2000  
1000  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor





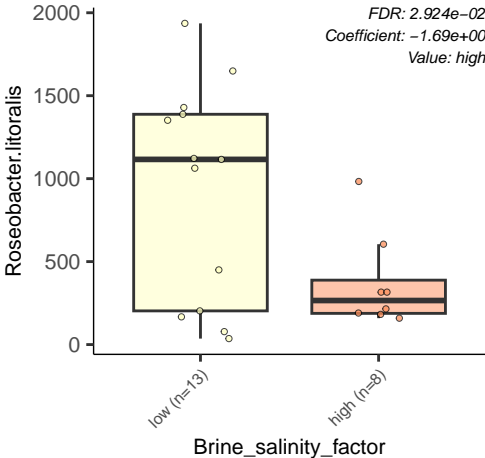
Roseobacter.litoralis

FDR: 2.924e-02  
Coefficient: -1.69e+00  
Value: high

low (n=13)

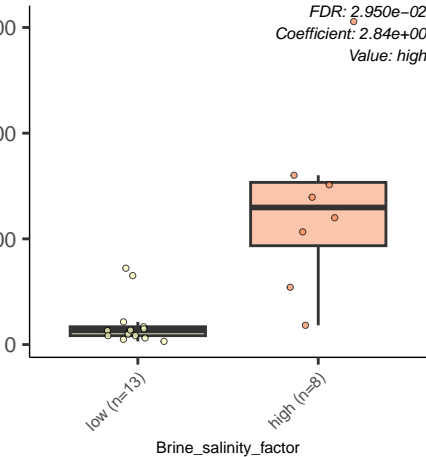
high (n=8)

Brine\_salinity\_factor



Salinarchaeum.sp..Harcht.Bsk1

*FDR: 2.950e-02*  
*Coefficient: 2.84e+00*  
*Value: high*



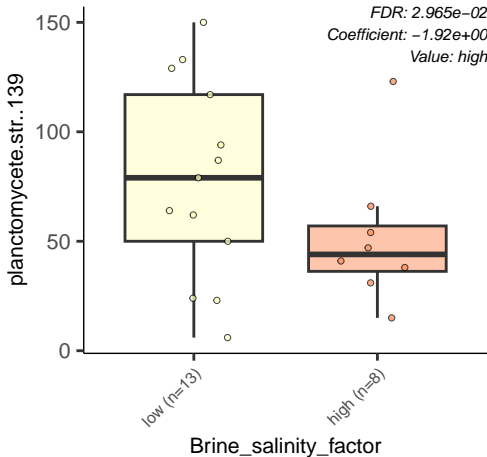
planctomycete.str..139

*FDR: 2.965e-02*  
*Coefficient: -1.92e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Syntrophothermus.lipocalidus

*FDR: 2.983e-02*  
*Coefficient: -1.51e+00*  
*Value: high*

10

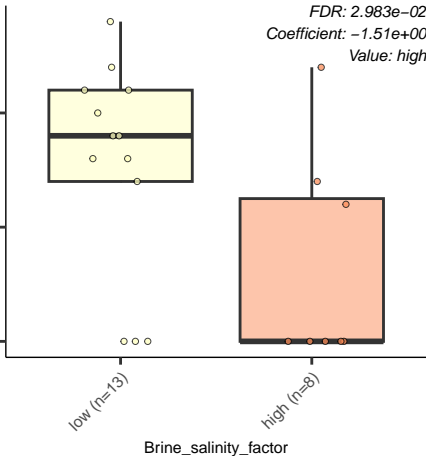
5

0

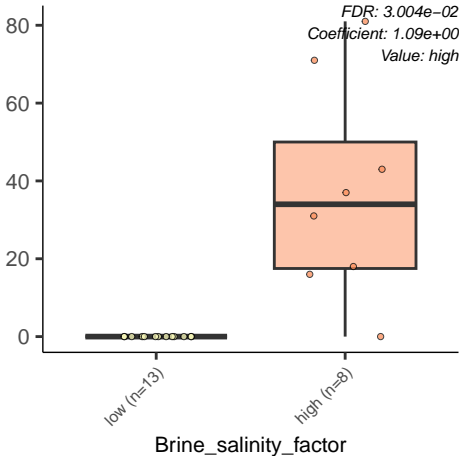
low (n=13)

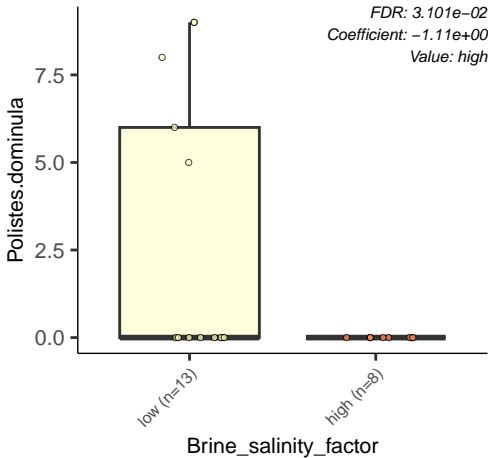
high (n=8)

Brine\_salinity\_factor

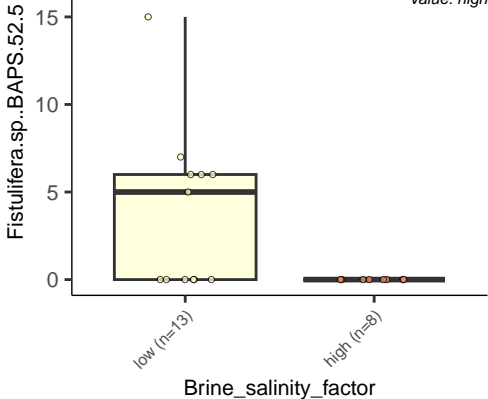


Halorubrum.californiense





Value: high



Vibrio.alginolyticus

6000

4000

2000

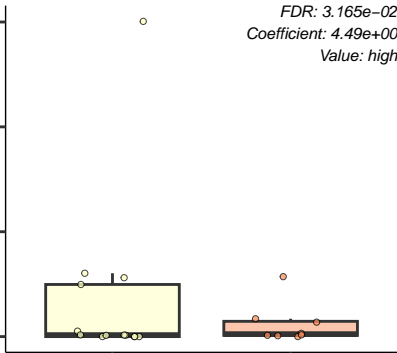
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 3.165e-02  
Coefficient: 4.49e+00  
Value: high





Candidatus.Fluvicola.riflensis

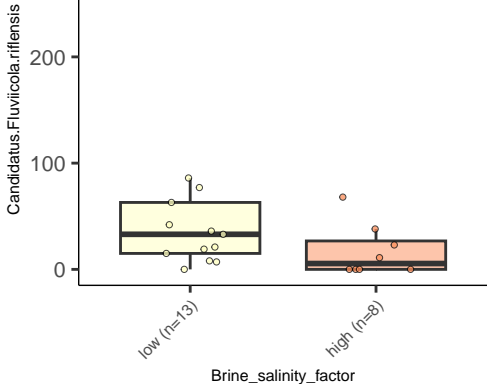
300  
200  
100  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 3.167e-02*  
*Coefficient: -1.96e+00*  
*Value: high*



Roseovarius.sp..HLSB76

*FDR: 3.171e-02*

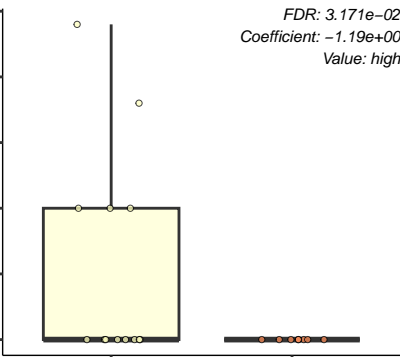
*Coefficient: -1.19e+00*

*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Haloplanus.salinus

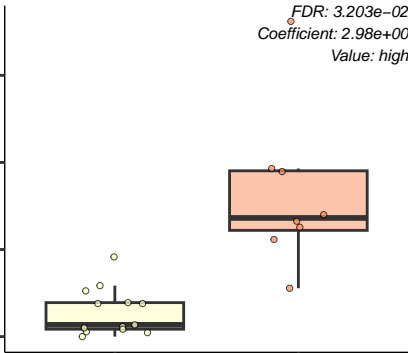
FDR:  $3.203e-02$   
Coefficient:  $2.98e+00$   
Value: high

600  
400  
200  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



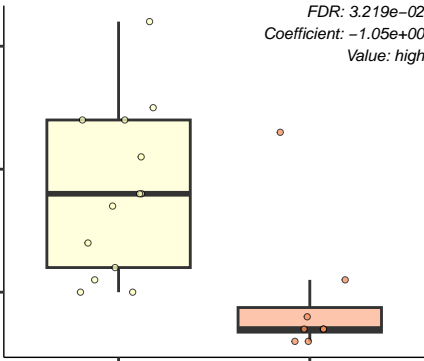
Novosphingobium.resinovorum

FDR:  $3.219 \times 10^{-2}$   
Coefficient:  $-1.05 \times 10^0$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halorubrum.halophilum

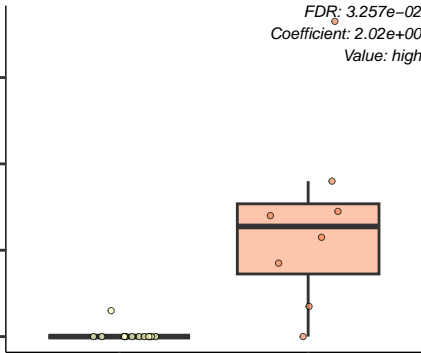
FDR: 3.257e-02  
Coefficient: 2.02e+00  
Value: high

60  
40  
20  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor



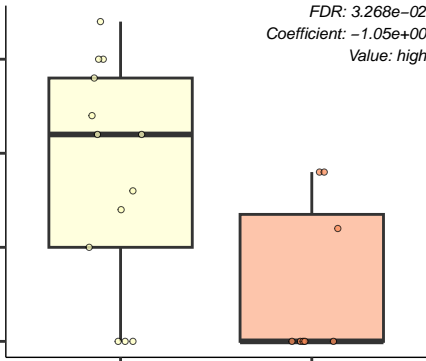
Zymomonas.mobilis.subsp..mobilis

FDR: 3.268e-02  
Coefficient: -1.05e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halobellus.rufus

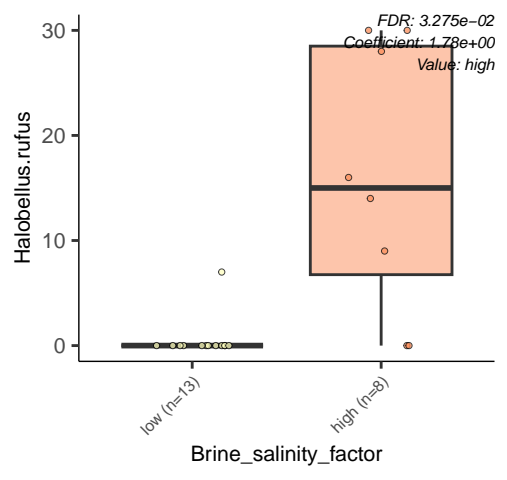
30  
20  
10  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 3.275e-02  
Coefficient: 1.78e+00  
Value: high



uncultured.Halorubrum.sp.

*FDR: 3.309e-02*  
*Coefficient: 1.59e+00*  
*Value: high*

30

20

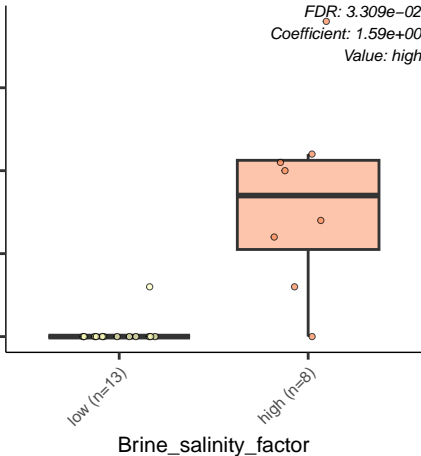
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





Celeribacter.marinus

FDR: 3.325e-02

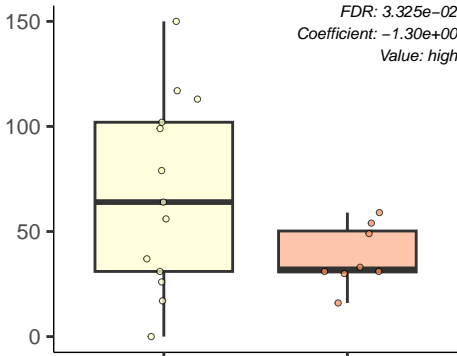
Coefficient: -1.30e+00

Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Jannaschia.sp..CCS1

600

400

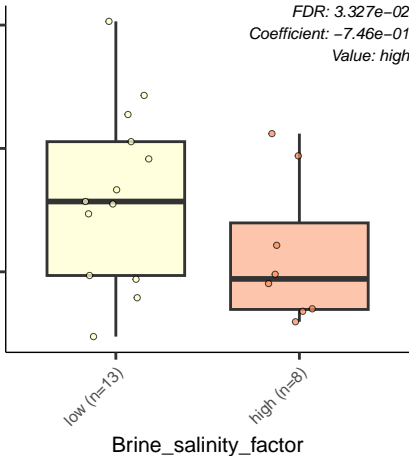
200

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $3.327e-02$   
Coefficient:  $-7.46e-01$   
Value: high



uncultured.euryarchaeote

400

200

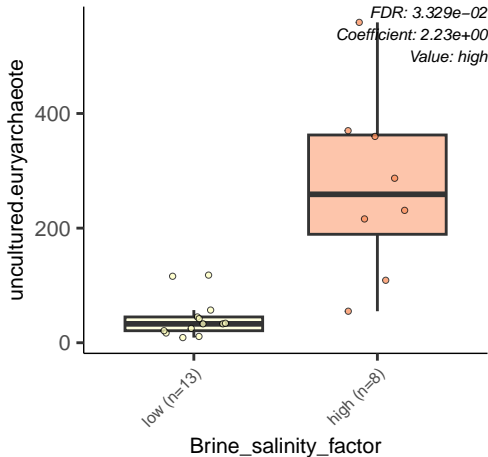
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $3.329 \times 10^{-2}$   
Coefficient:  $2.23 \times 10^0$   
Value: high



Cylindrotheca.closterium

FDR: 3.340e-02

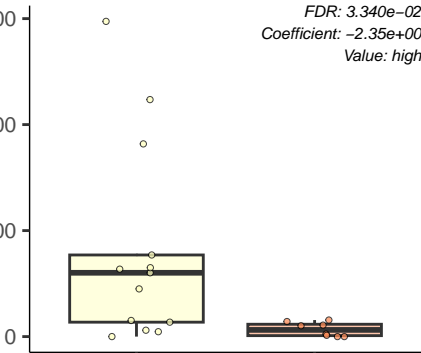
Coefficient: -2.35e+00

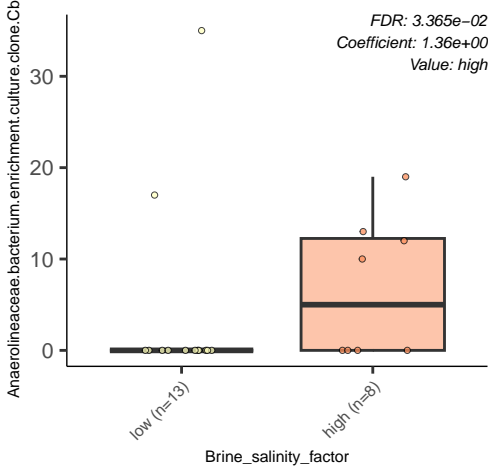
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor







*FDR: 3.415e-02*

Coefficient:  $-1.40e+00$

Value: high



Brine\_salinity\_factor

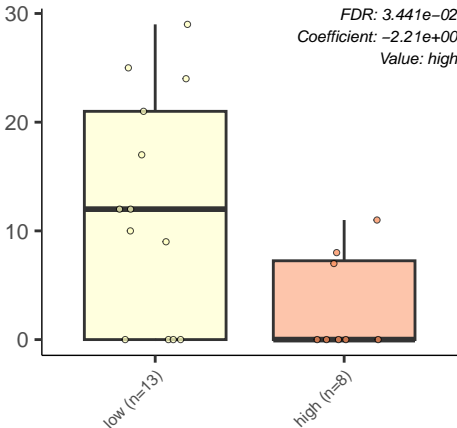
Lotharella.vacuolata

FDR: 3.441e-02  
Coefficient: -2.21e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



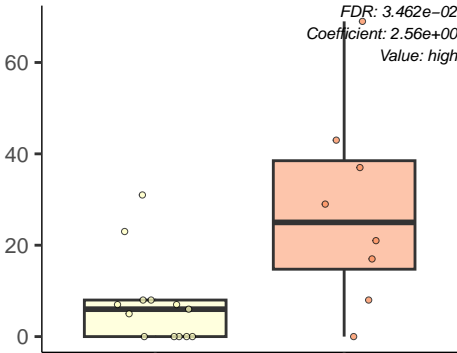
Rhodovulum.sp..JZ3A21

FDR:  $3.462e-02$   
Coefficient:  $2.56e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Thiomicrospira.aerophila

FDR:  $3.484e-02$   
Coefficient:  $2.25e+00$   
Value: high

30

20

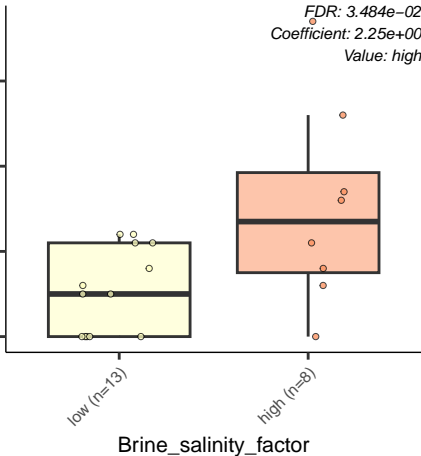
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



*Pseudomonas.koreensis*

10

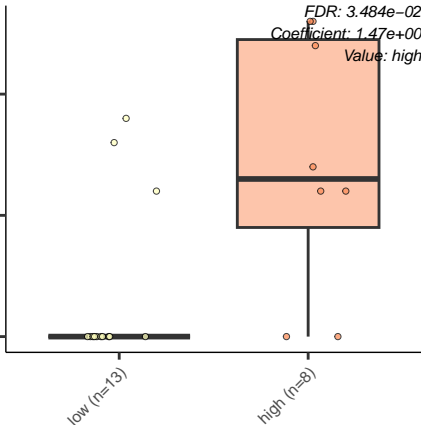
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR:  $3.484e-02$   
Coefficient:  $1.47e+00$   
Value: high



Pseudorhodobacter.ferrugineus

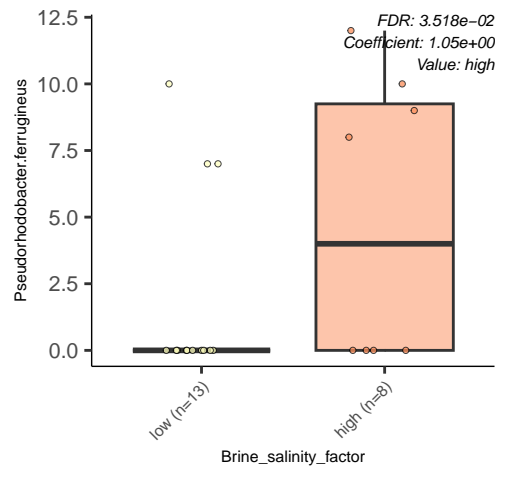
12.5  
10.0  
7.5  
5.0  
2.5  
0.0

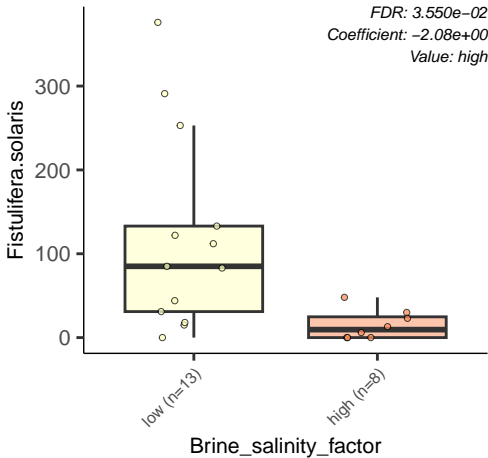
low (n=13)

high (n=8)

Brine\_salinity\_factor

*FDR: 3.518e-02*  
*Coefficient: 1.05e+00*  
*Value: high*





Haloplanus.natans

FDR:  $3.560e-02$   
Coefficient:  $3.39e+00$   
Value: high

300

200

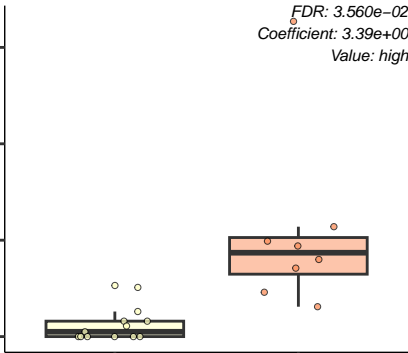
100

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





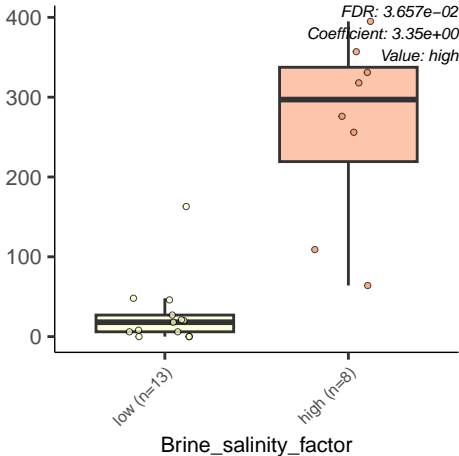
low ( $n=13$ )

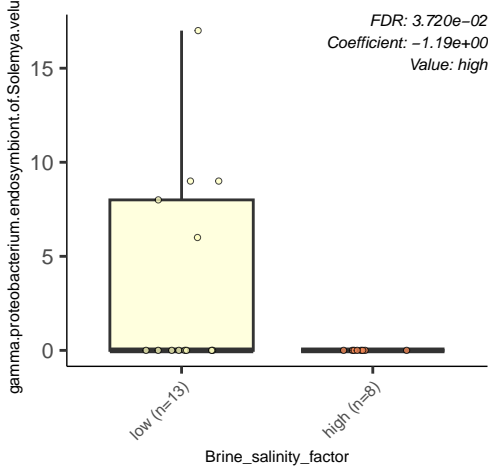
high ( $n=8$ )

Brine\_salinity\_factor

FDR: 3.630e-02  
Coefficient: 3.54e+00  
Value: high

Acetohalobium.arabaticum







Newhousia.imbricata

FDR: 3.738e-02

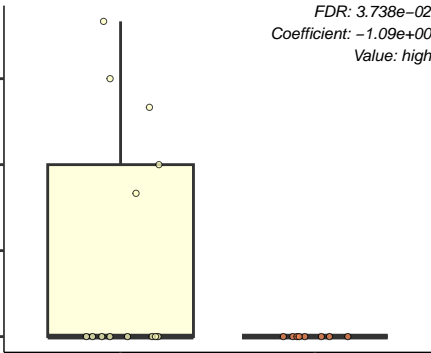
Coefficient: -1.09e+00

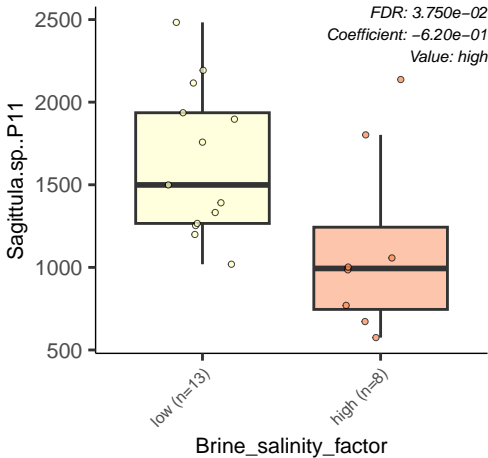
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor





Bernardetia.litoralis

*FDR: 3.751e-02*

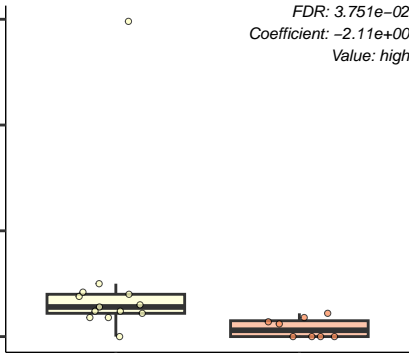
*Coefficient: -2.11e+00*

*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Nonlabens.sediminis

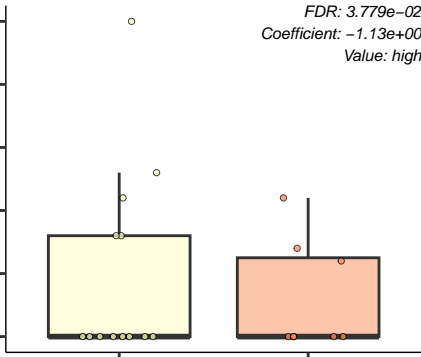
25  
20  
15  
10  
5  
0

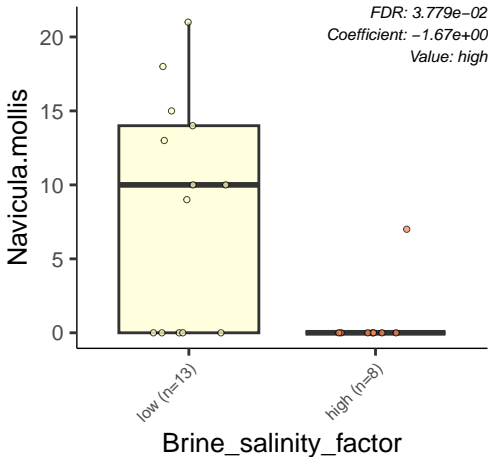
*FDR: 3.779e-02*  
*Coefficient: -1.13e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





Halovirus.HRTV.7

*FDR: 3.810e-02*  
*Coefficient: 1.09e+00*  
*Value: high*

400

300

200

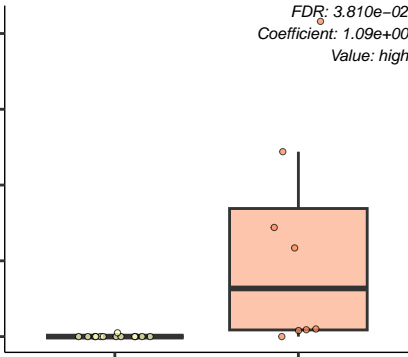
100

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



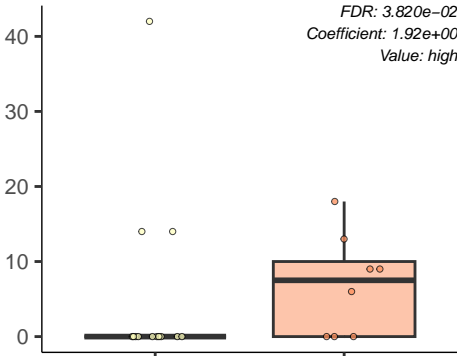
Sulfurovum.sp..NBC37.1

FDR:  $3.820e-02$   
Coefficient:  $1.92e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



gamma.proteobacterium.HdN1

*FDR: 3.834e-02*  
*Coefficient: 1.99e+00*  
*Value: high*

30

20

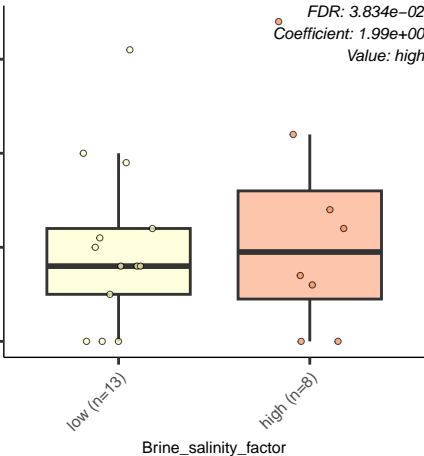
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor





uncultured.bacterium.GRIST08

*FDR: 3.853e-02*  
*Coefficient: -1.45e+00*  
*Value: high*

40

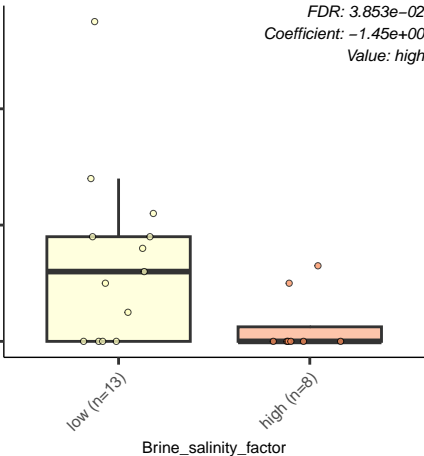
20

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halomicroarcula.salina

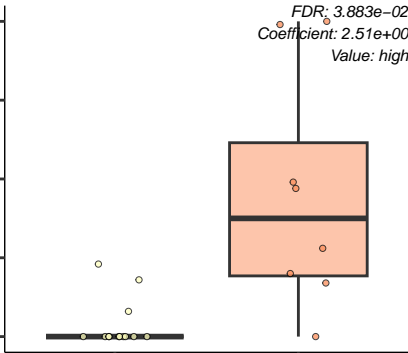
100  
75  
50  
25  
0

low (n=13)

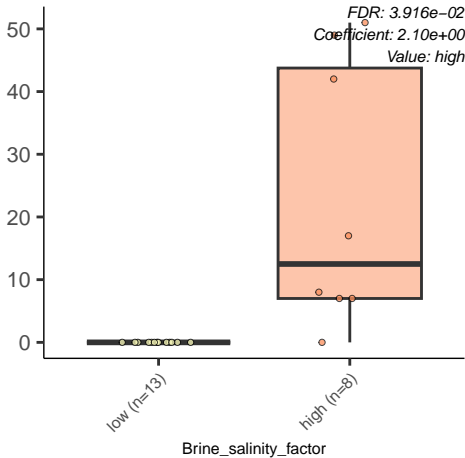
high (n=8)

Brine\_salinity\_factor

FDR:  $3.883e-02$   
Coefficient:  $2.51e+00$   
Value: high



Halobacteriaceae.archaeon.SHR3



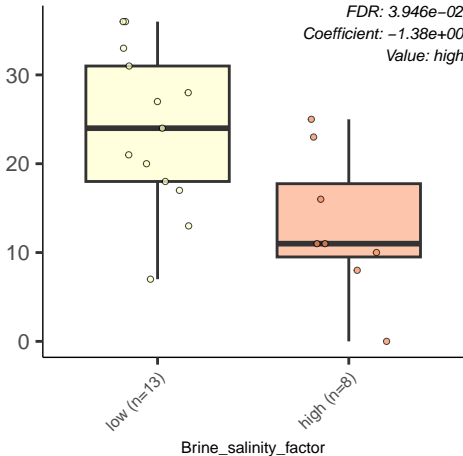
Burkholderia.cepacia.complex

FDR:  $3.946e-02$   
Coefficient:  $-1.38e+00$   
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



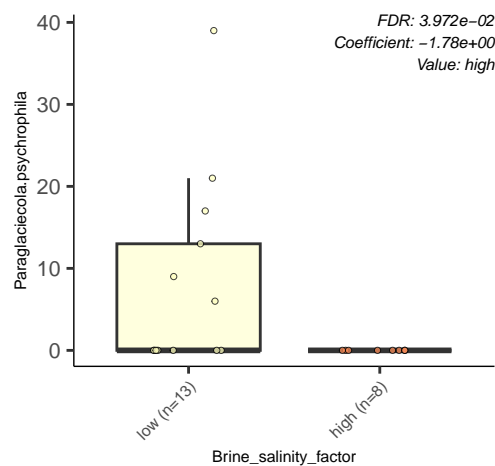
Paraglaecicola.psychrophila

*FDR: 3.972e-02*  
*Coefficient: -1.78e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Halorubrum.tebenquichense

40

20

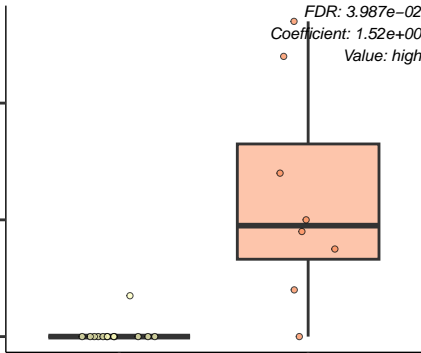
0

low (n=13)

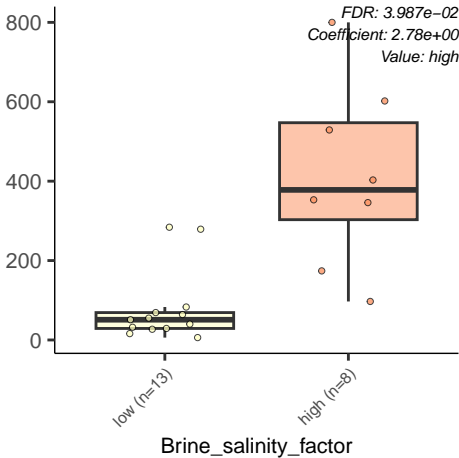
high (n=8)

Brine\_salinity\_factor

FDR:  $3.987e-02$   
Coefficient:  $1.52e+00$   
Value: high



Haloterrigena.turkmenica



Paracoccus.zhejiangensis

FDR: 4.046e-02  
Coefficient: -6.76e-01  
Value: high

600

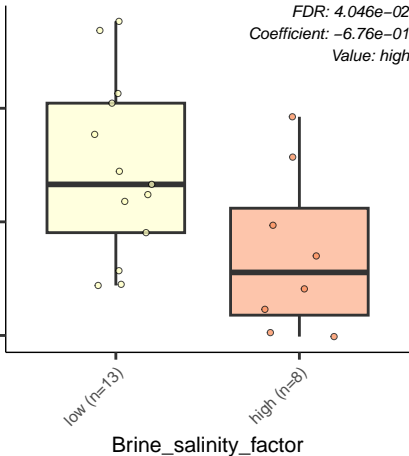
400

200

low (n=13)

high (n=8)

Brine\_salinity\_factor





Azoarcus.sp..KH32C

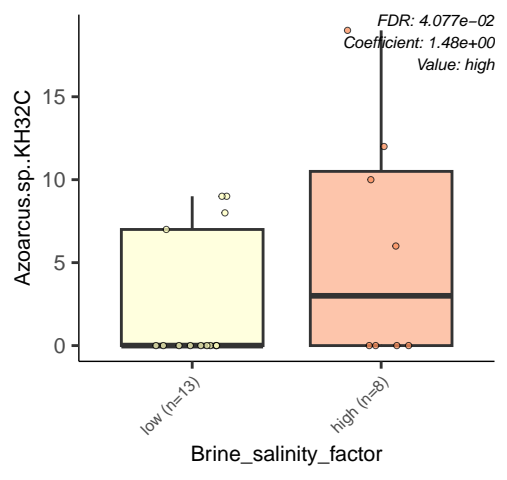
15  
10  
5  
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 4.077e-02  
Coefficient: 1.48e+00  
Value: high



Archangium.gephyra

FDR:  $4.173e-02$

Coefficient:  $-1.18e+00$

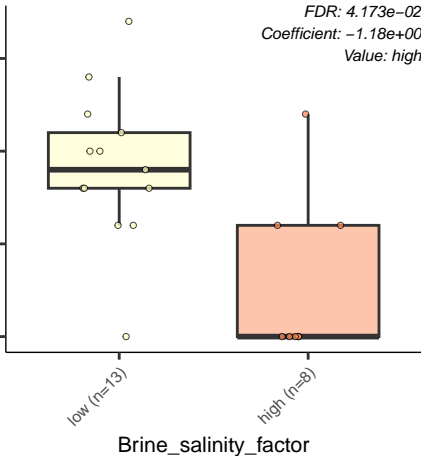
Value: high

low (n=13)

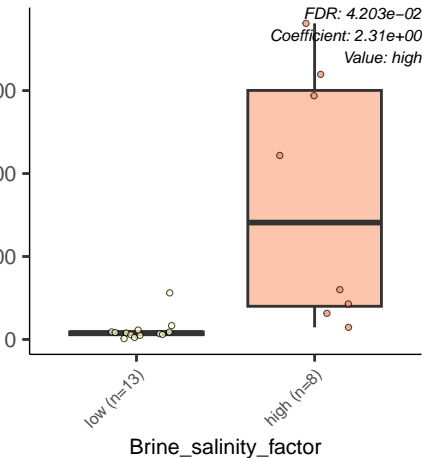
high (n=8)

Brine\_salinity\_factor

15  
10  
5  
0



Halorhabdus.tiamatea



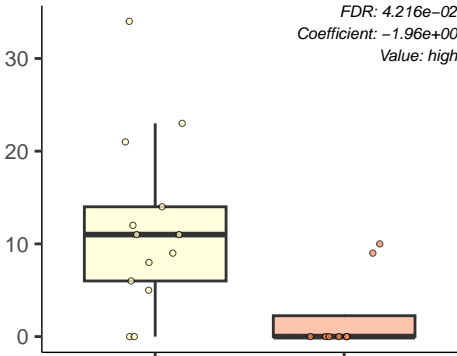
Formosa.sp..Hel1\_33\_131

*FDR: 4.216e-02*  
*Coefficient: -1.96e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



Erythrobacter.seohaensis

FDR: 4.271e-02  
Coefficient: 1.13e+00  
Value: high

75

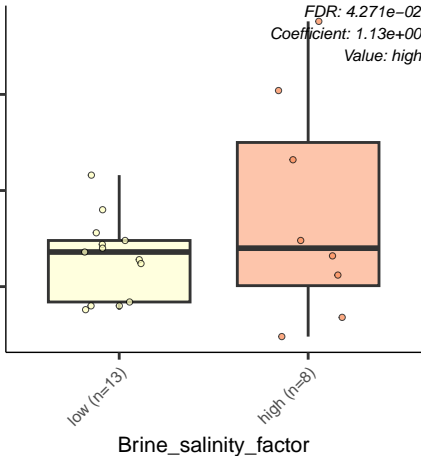
50

25

low (n=13)

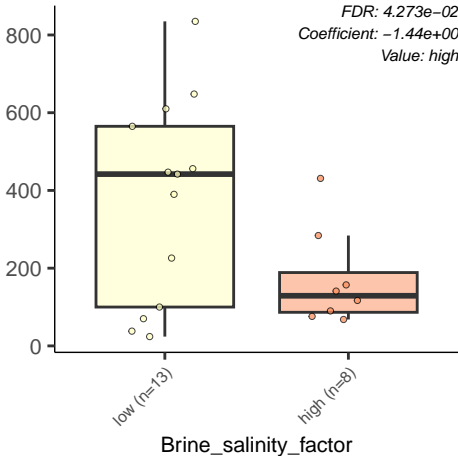
high (n=8)

Brine\_salinity\_factor



Phaeobacter.piscinae

FDR:  $4.273e-02$   
Coefficient:  $-1.44e+00$   
Value: high



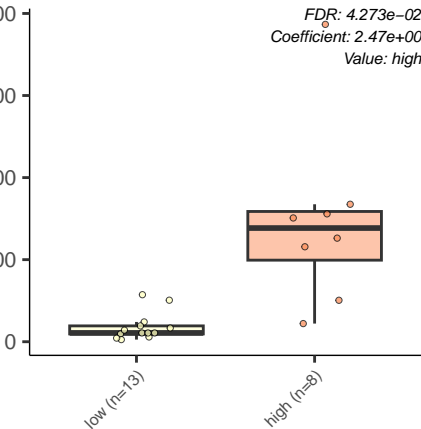
Halorientalis.sp..IM1011

FDR: 4.273e-02  
Coefficient: 2.47e+00  
Value: high

low (n=13)

high (n=8)

Brine\_salinity\_factor



Nonlabens.spongiae

FDR: 4.303e-02

Coefficient: -1.79e+00

Value: high

200

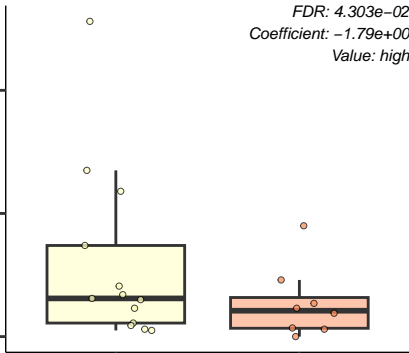
100

0

low (n=13)

high (n=8)

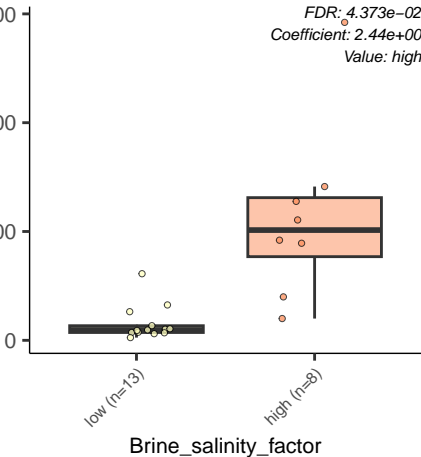
Brine\_salinity\_factor





Haloferax.mediterranei

*FDR: 4.373e-02*  
*Coefficient: 2.44e+00*  
*Value: high*



Desulfuromonas.sp..DDH964

100

50

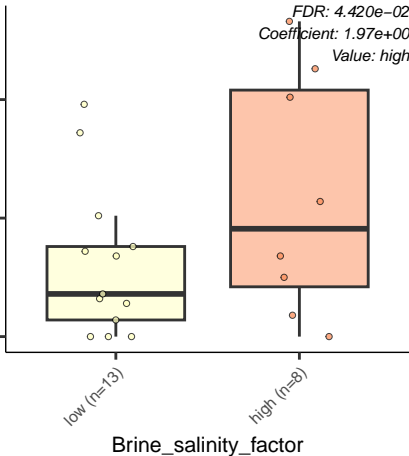
0

low (n=13)

high (n=8)

Brine\_salinity\_factor

FDR: 4.420e-02  
Coefficient: 1.97e+00  
Value: high



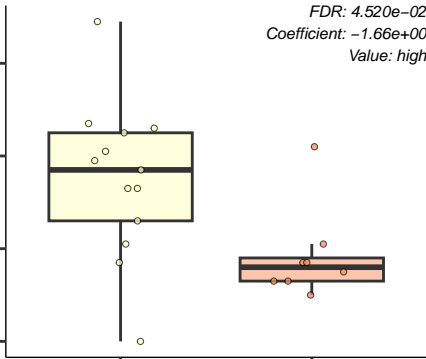
Candidatus.Filomicrobium.marinum

*FDR: 4.520e-02*  
*Coefficient: -1.66e+00*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor



uncultured.Desulfotignum.sp.

*FDR: 4.520e-02*  
*Coefficient: 2.34e+00*  
*Value: high*

20

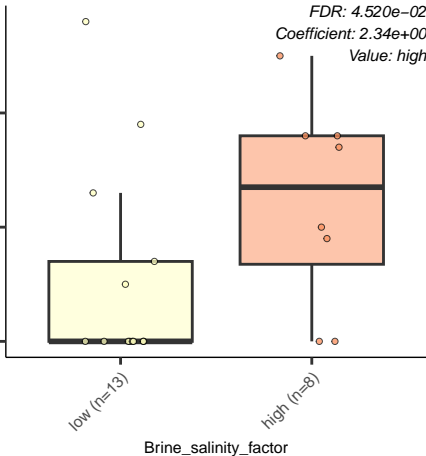
10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



Lacinutrix.sp..5H.3.7.4

FDR: 4.591e-02

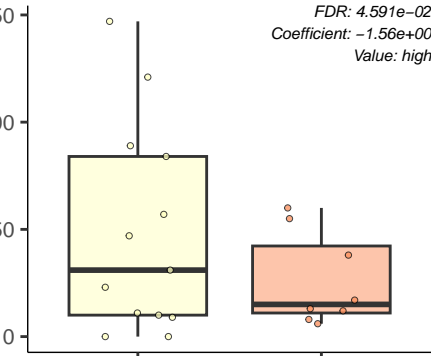
Coefficient: -1.56e+00

Value: high

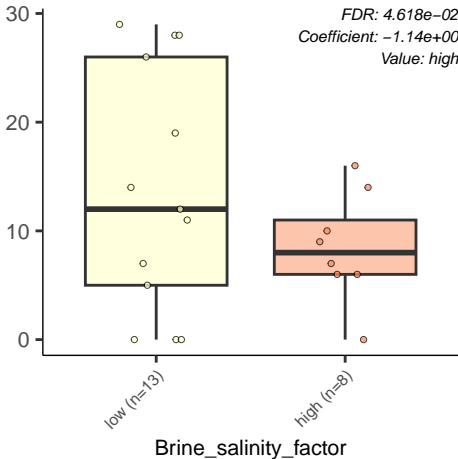
low (n=13)

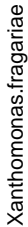
high (n=8)

Brine\_salinity\_factor



Spingopyxis.sp..113P3





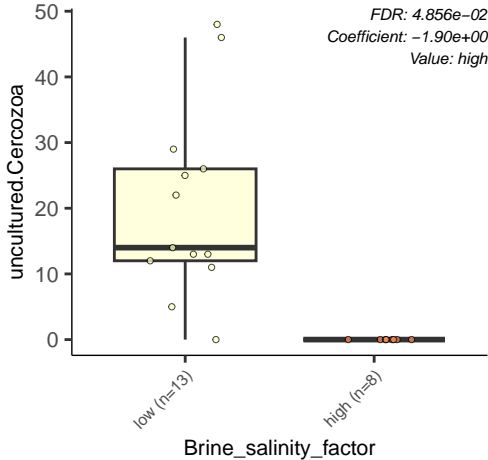
*FDR: 4.713e-02*

Coefficient:  $-1.18e+00$

Value: high



Brine\_salinity\_factor





Navicula.ramosissima

FDR:  $4.862e-02$

Coefficient:  $-1.73e+00$

Value: high

40

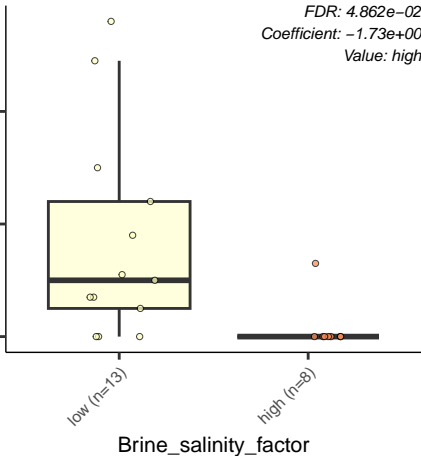
20

0

low (n=13)

high (n=8)

Brine\_salinity\_factor



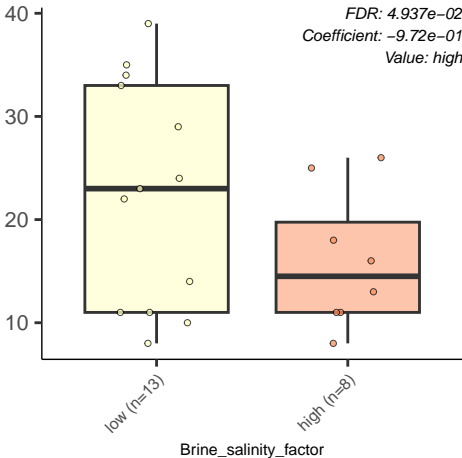
Spingomonas.asaccharolytica

*FDR: 4.937e-02*  
*Coefficient: -9.72e-01*  
*Value: high*

low (n=13)

high (n=8)

Brine\_salinity\_factor





Formosa.sp..Hel3\_A1\_48

FDR: 4.975e-02

Coefficient: -1.33e+00

Value: high

20

10

0

low (n=13)

high (n=8)

Brine\_salinity\_factor

