

COG0226

0.00075

0.00050

0.00025

0.00000

-2.0

-1.5

-1.0

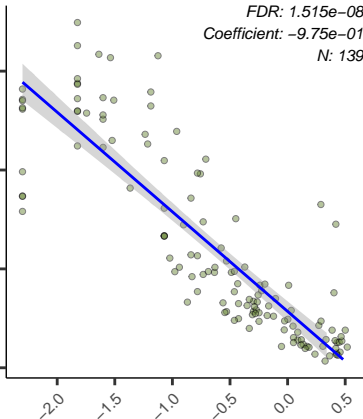
-0.5

0.0

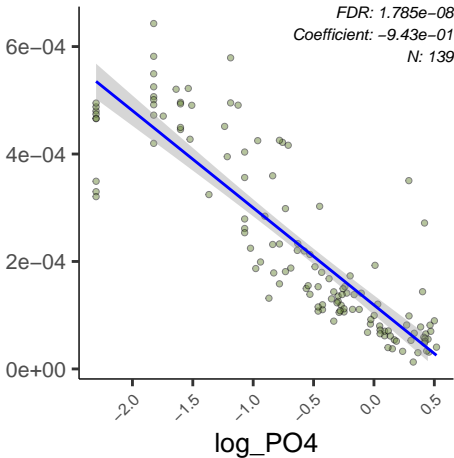
0.5

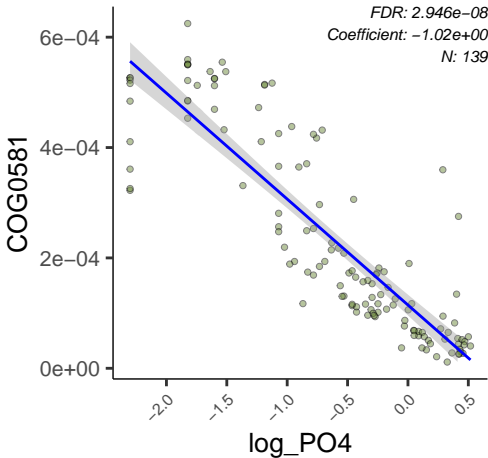
log\_PO4

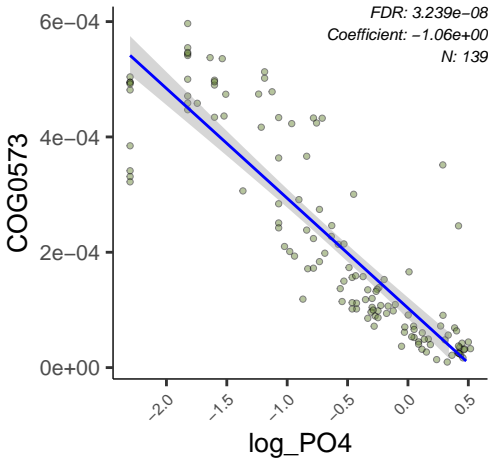
*FDR: 1.515e-08*  
*Coefficient: -9.75e-01*  
*N: 139*

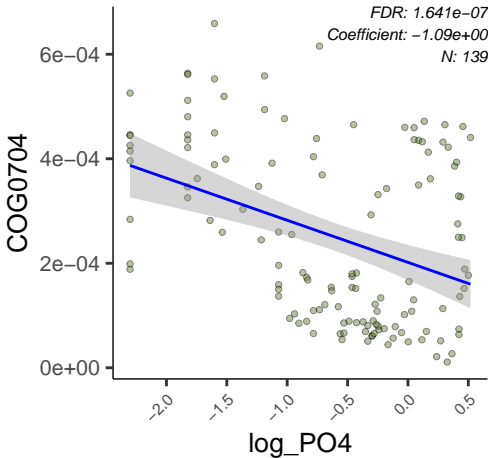


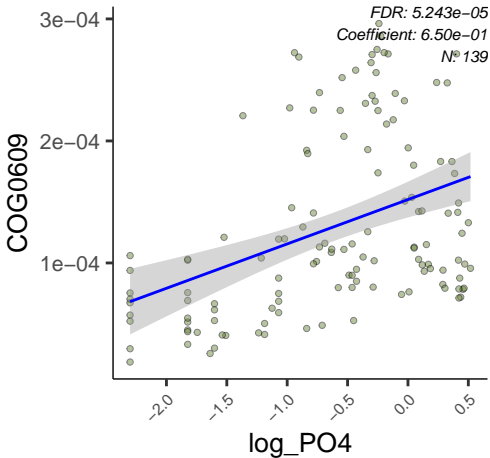
COG1117



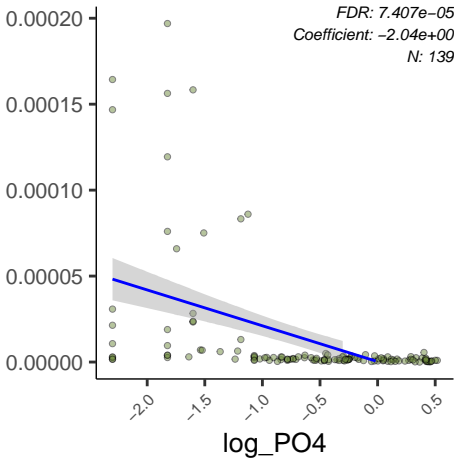








COG3624



COG3625

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

-1.0

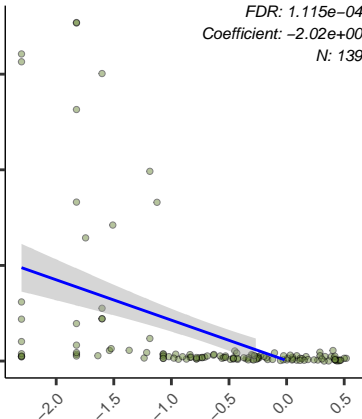
-0.5

0.0

0.5

log\_PO4

*FDR: 1.115e-04*  
*Coefficient: -2.02e+00*  
*N: 139*





COG4107

*FDR: 1.197e-04*  
*Coefficient: -1.91e+00*  
*N: 139*

2e-04

1e-04

0e+00

-2.0

-1.5

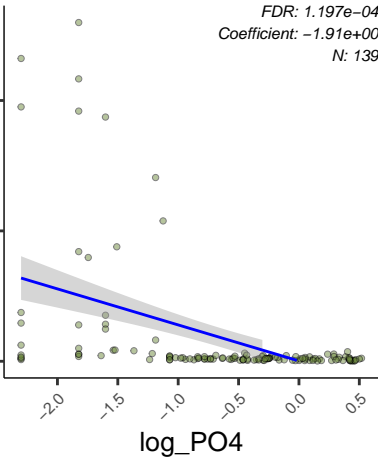
-1.0

-0.5

0.0

0.5

log\_PO4



COG0394

*FDR: 1.256e-04*  
*Coefficient: -2.71e-01*  
*N: 139*

6e-04  
5e-04  
4e-04  
3e-04  
2e-04

-2.0

-1.5

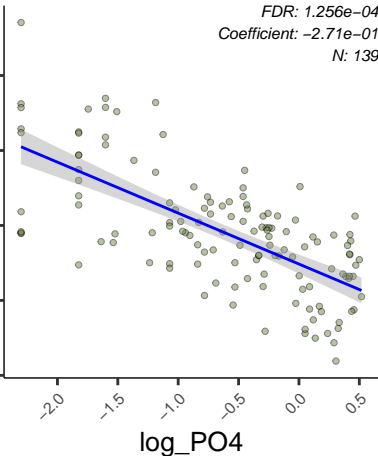
-1.0

-0.5

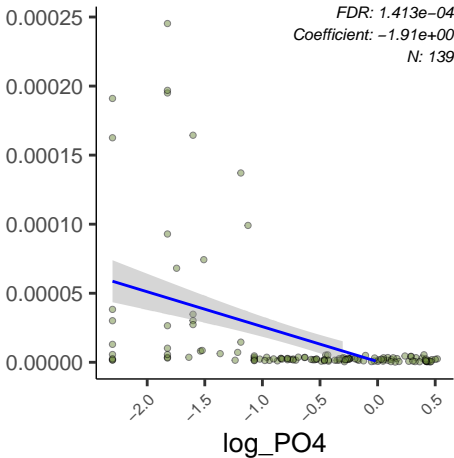
0.0

0.5

log\_PO4



COG3627



COG0248

6e-04

4e-04

2e-04

-2.0

-1.5

-1.0

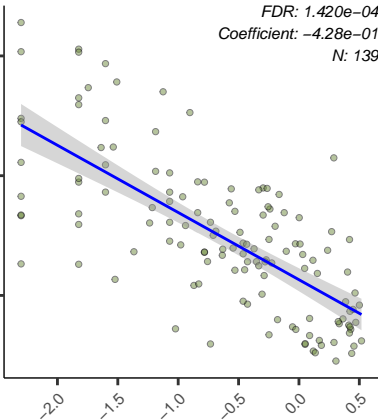
-0.5

0.0

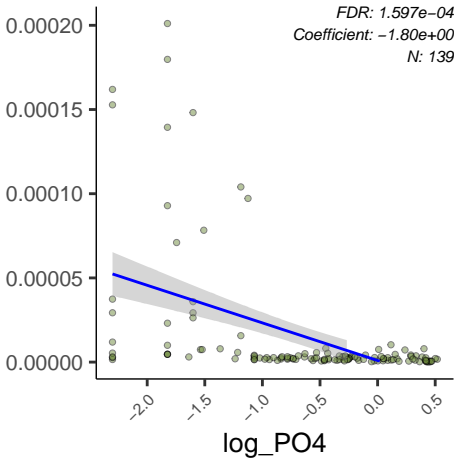
0.5

log\_PO4

*FDR: 1.420e-04*  
*Coefficient: -4.28e-01*  
*N: 139*



COG4778



COG2375

*FDR: 1.859e-04*

*Coefficient: 9.07e-01*

*N: 139*

9e-05

6e-05

3e-05

0e+00

-2.0

-1.5

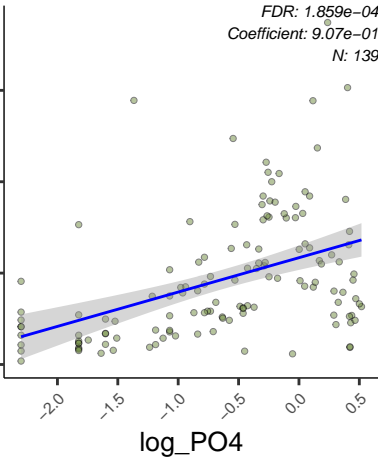
-1.0

-0.5

0.0

0.5

log\_PO4



COG0306

*FDR: 2.161e-04*  
*Coefficient: 3.45e-01*  
*N: 139*

3e-04

2e-04

1e-04

-2.0

-1.5

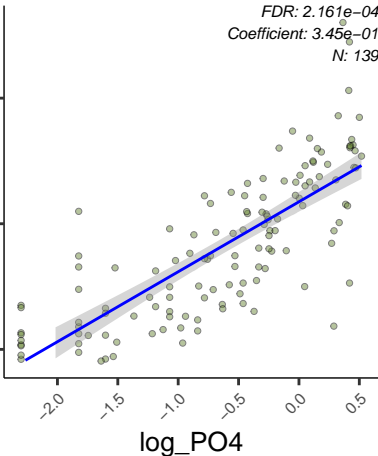
-1.0

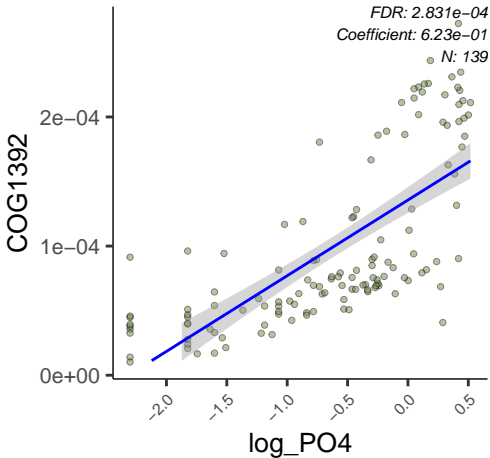
-0.5

0.0

0.5

log\_PO4

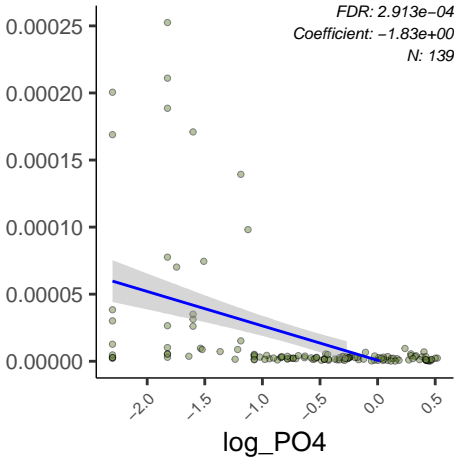






COG3626

*FDR: 2.913e-04*  
*Coefficient: -1.83e+00*  
*N: 139*



COG3709

*FDR: 3.175e-04*

*Coefficient: -1.56e+00*

*N: 139*

1e-04

5e-05

0e+00

-2.0

-1.5

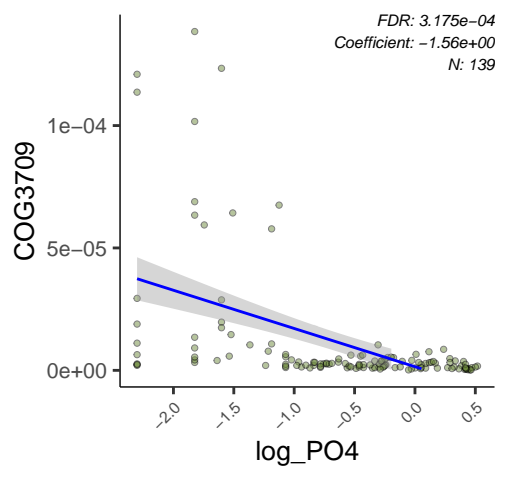
-1.0

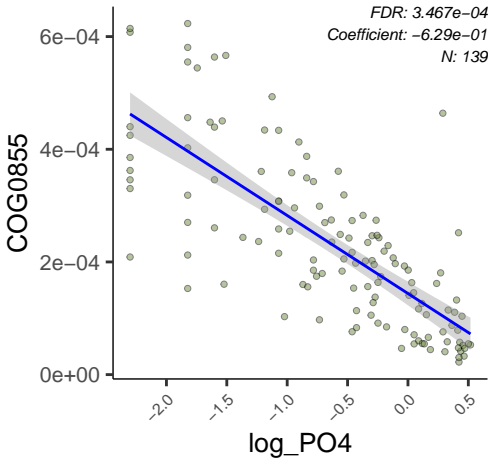
-0.5

0.0

0.5

log\_PO4





COG0103

6e-04

5e-04

4e-04

-2.0

-1.5

-1.0

-0.5

0.0

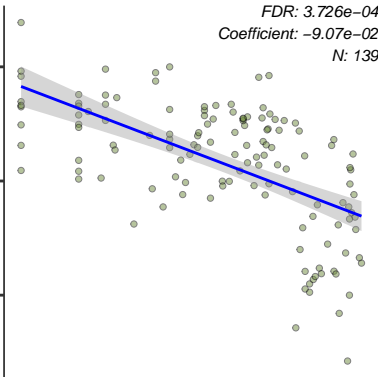
0.5

log\_PO4

*FDR: 3.726e-04*

*Coefficient: -9.07e-02*

*N: 139*



COG3454

*FDR: 3.826e-04*

*Coefficient: -1.52e+00*

*N: 139*

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

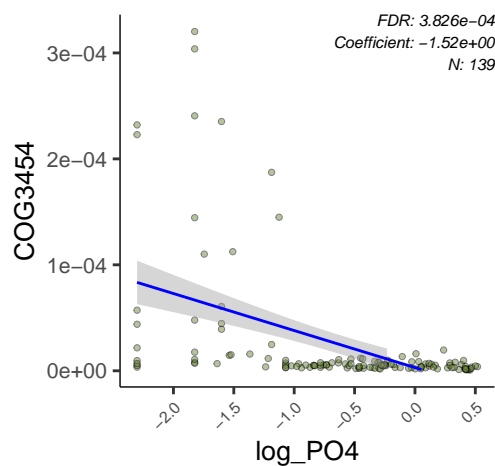
-1.0

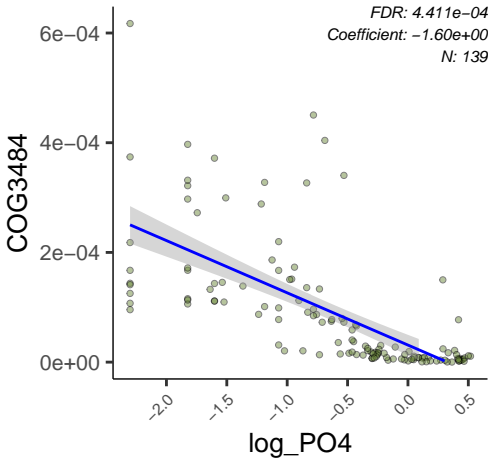
-0.5

0.0

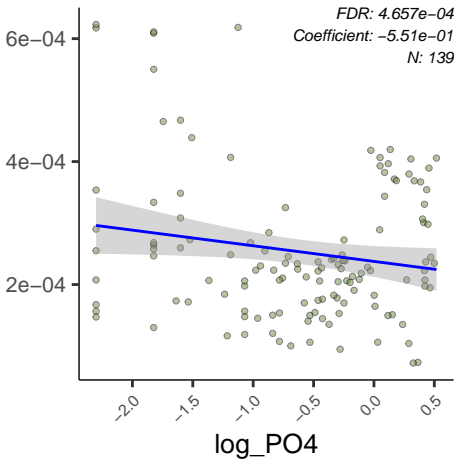
0.5

log\_PO4



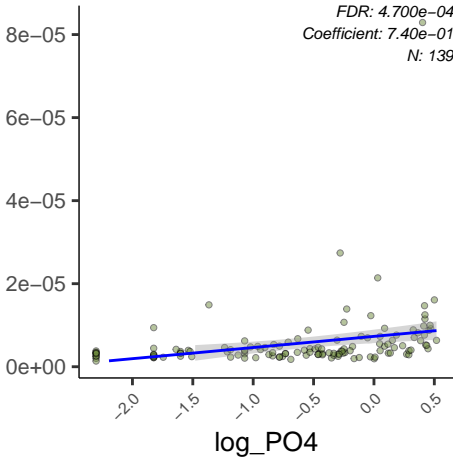


COG3639

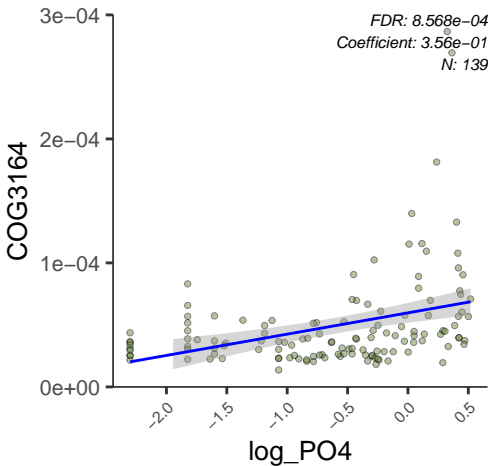


COG3886

*FDR: 4.700e-04*  
*Coefficient: 7.40e-01*  
*N: 139*







COG3655

FDR:  $8.832 \times 10^{-4}$

Coefficient:  $8.85 \times 10^{-1}$

N: 139

$7.5 \times 10^{-5}$

$5.0 \times 10^{-5}$

$2.5 \times 10^{-5}$

$0.0 \times 10^0$

-2.0

-1.5

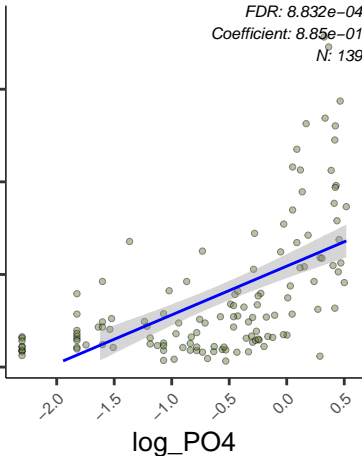
-1.0

-0.5

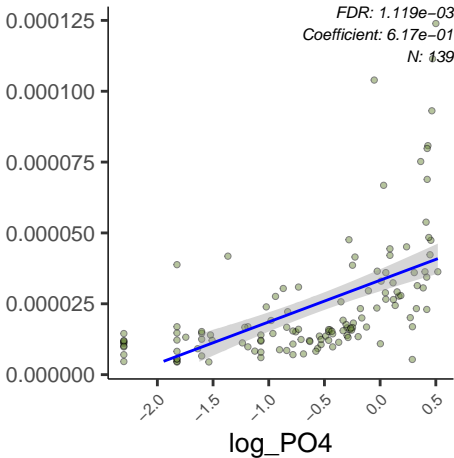
0.0

0.5

log\_PO4



COG1887



COG3182

*FDR: 1.430e-03*  
*Coefficient: 9.27e-01*  
*N: 139*

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

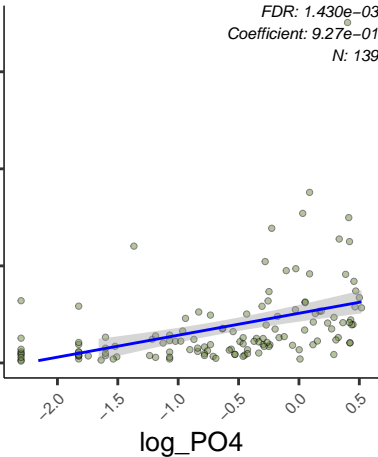
-1.0

-0.5

0.0

0.5

log\_PO4



COG4682

*FDR: 1.581e-03*  
*Coefficient: 1.63e+00*  
*N: 139*

3e-05

2e-05

1e-05

0e+00

-2.0

-1.5

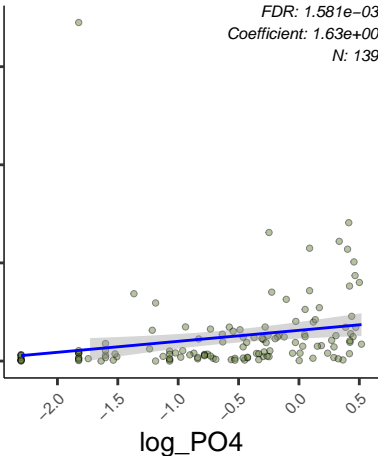
-1.0

-0.5

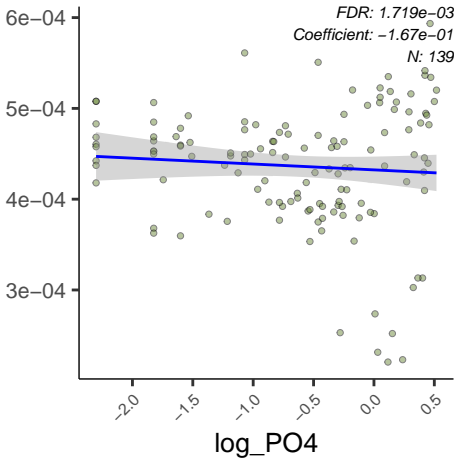
0.0

0.5

log\_PO4



COG0377



COG3296

*FDR: 1.806e-03*  
*Coefficient: 1.14e+00*  
*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

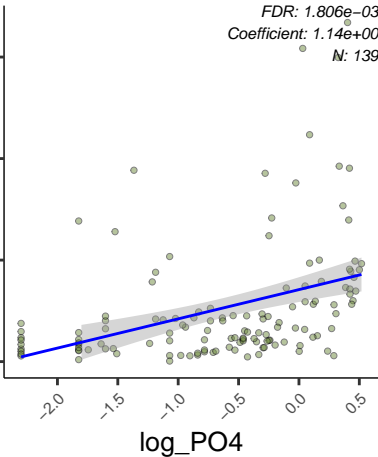
-1.0

-0.5

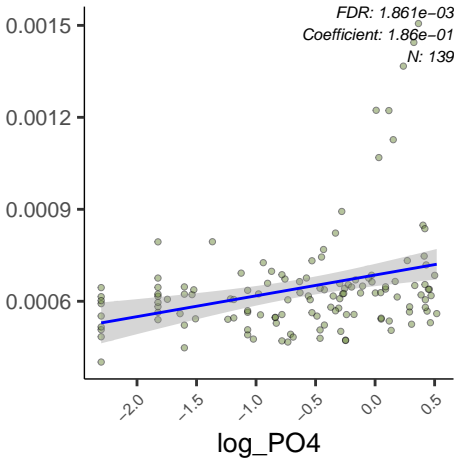
0.0

0.5

log\_PO4

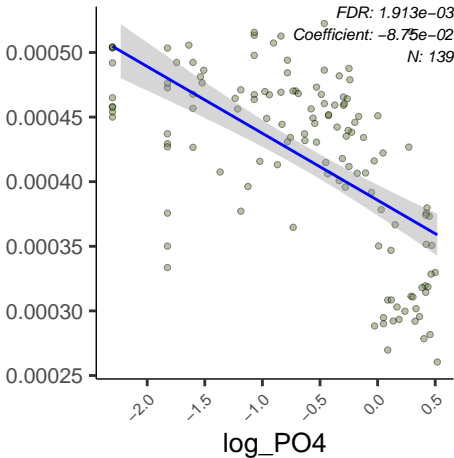


COG0488





COG1546



COG1283

*FDR: 1.966e-03*  
*Coefficient: 5.82e-01*  
*N: 139*

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

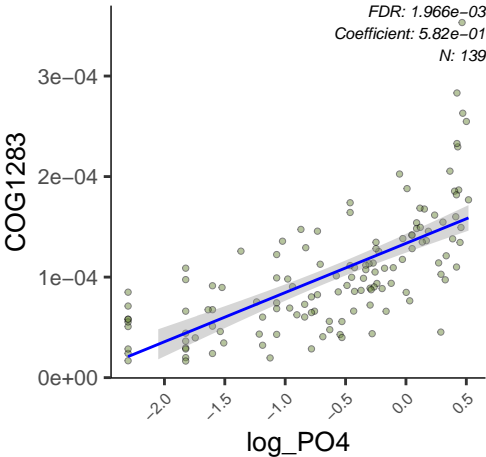
-1.0

-0.5

0.0

0.5

log\_PO4



COG4247

0.00015

0.00010

0.00005

-2.0

-1.5

-1.0

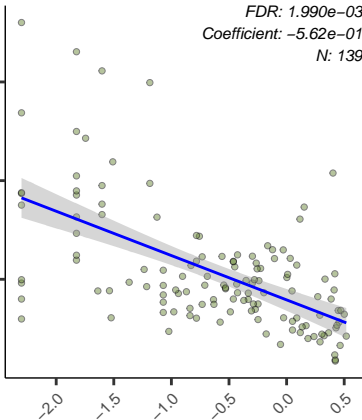
-0.5

0.0

0.5

log\_PO4

*FDR: 1.990e-03*  
*Coefficient: -5.62e-01*  
*N: 139*



COG0745

0.0020

0.0016

0.0012

-2.0

-1.5

-1.0

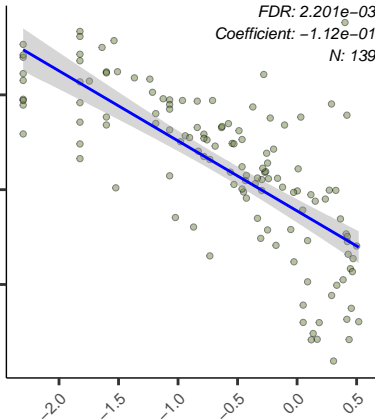
-0.5

0.0

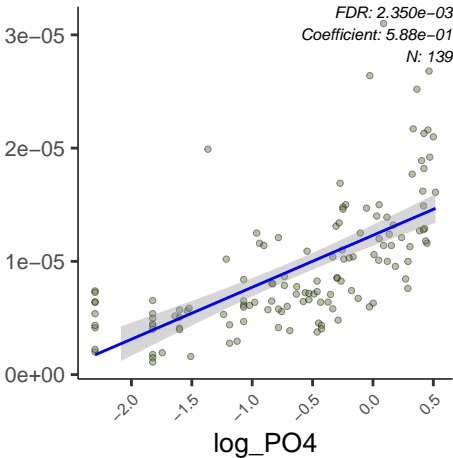
0.5

log\_PO4

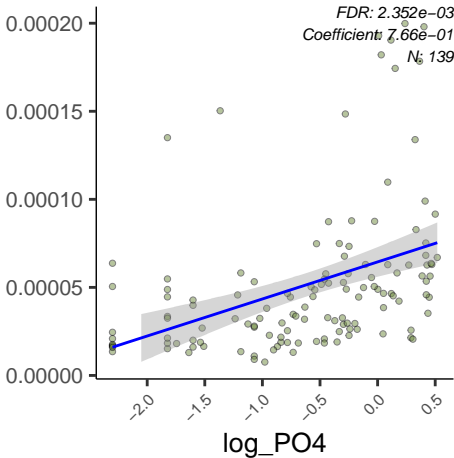
*FDR: 2.201e-03*  
*Coefficient: -1.12e-01*  
*N: 139*



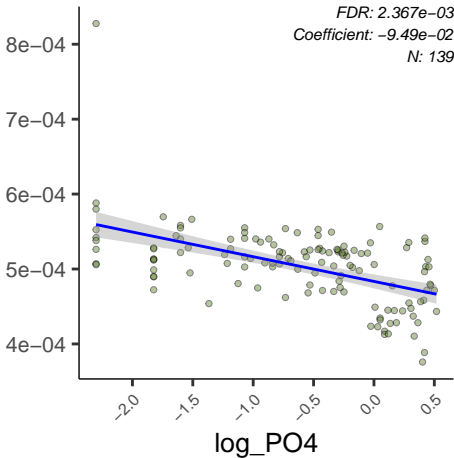
COG4268

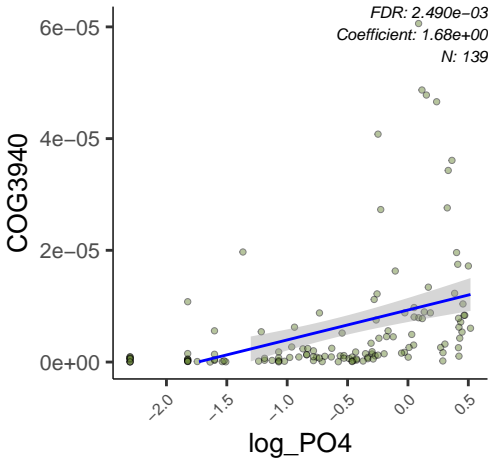


COG1349



COG0105







COG5421

*FDR: 2.699e-03*  
*Coefficient: 1.52e+00*  
*N: 139*

7.5e-05

5.0e-05

2.5e-05

0.0e+00

-2.0

-1.5

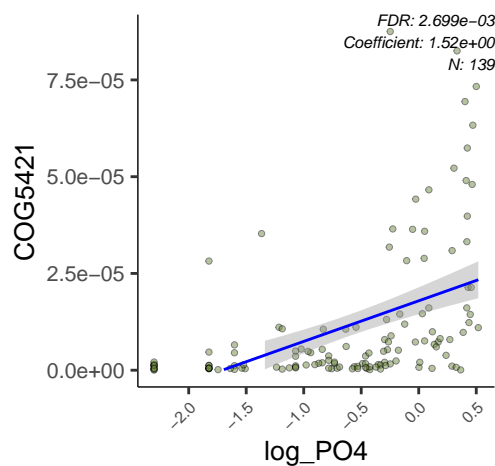
-1.0

-0.5

0.0

0.5

log\_PO4



COG4832

*FDR: 2.748e-03*  
*Coefficient: 1.78e+00*  
*N: 139*

1e-04

5e-05

0e+00

-2.0

-1.5

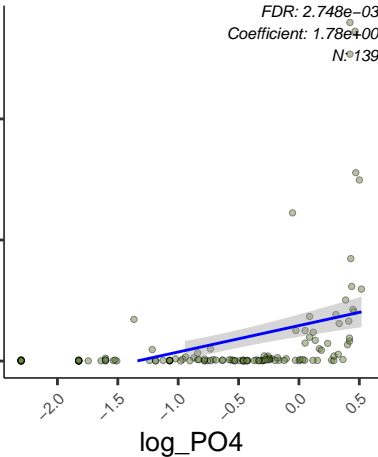
-1.0

-0.5

0.0

0.5

log\_PO4



COG1597

3e-04

2e-04

1e-04

-2.0

-1.5

-1.0

-0.5

0.0

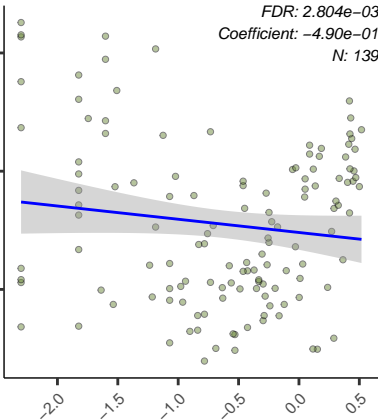
0.5

log\_PO4

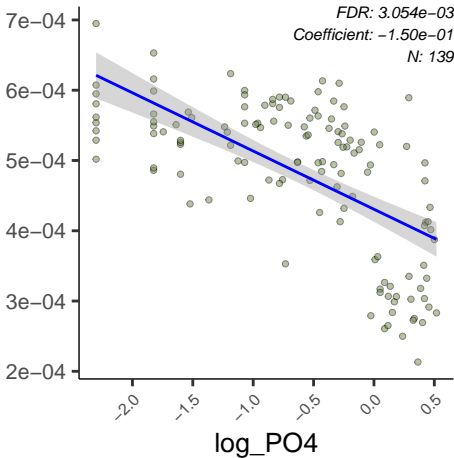
*FDR: 2.804e-03*

*Coefficient: -4.90e-01*

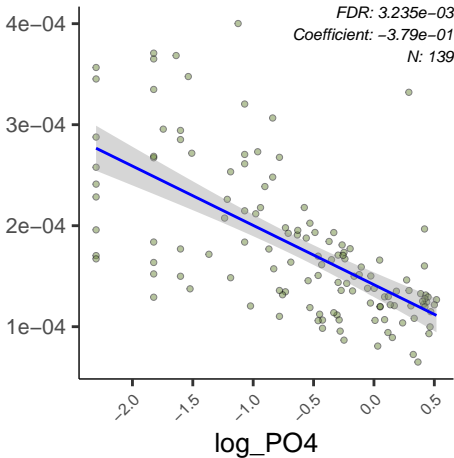
*N: 139*



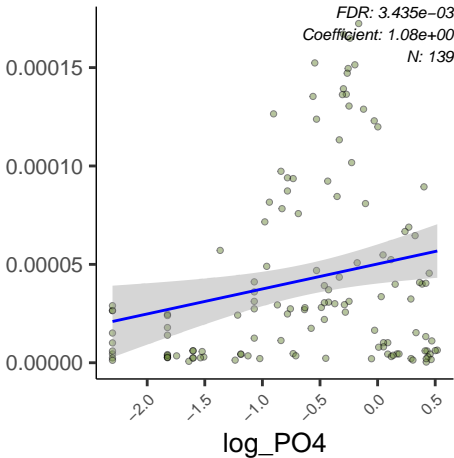
COG1403



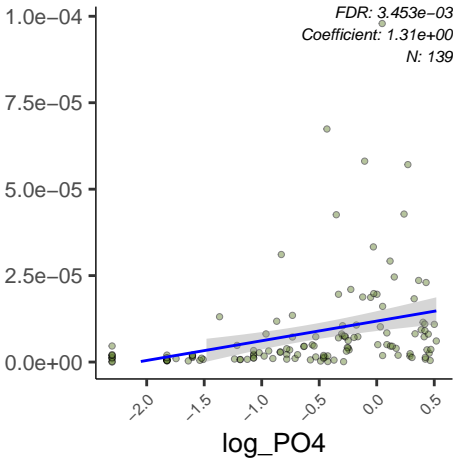
COG3638



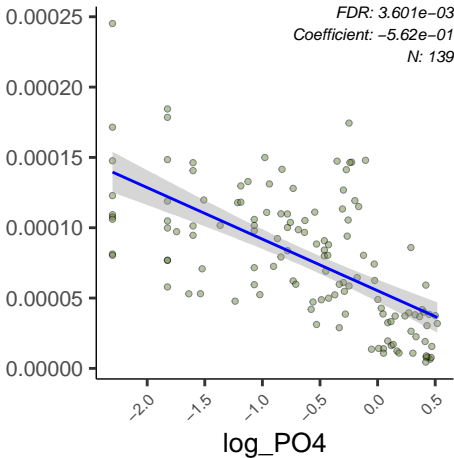
COG4558



COG3489



COG4454





COG0489

$8e-04$

$7e-04$

$6e-04$

-2.0

-1.5

-1.0

-0.5

0.0

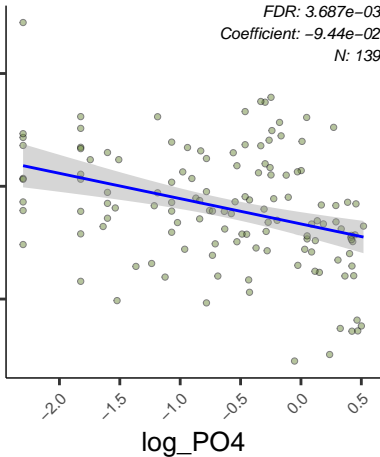
0.5

log\_PO4

*FDR: 3.687e-03*

*Coefficient: -9.44e-02*

*N: 139*



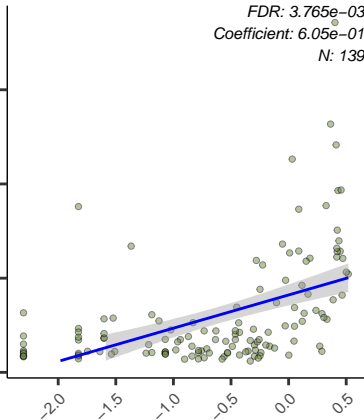
COG2716

*FDR: 3.765e-03*  
*Coefficient: 6.05e-01*  
*N: 139*

0.00015  
0.00010  
0.00005  
0.00000

-2.0 -1.5 -1.0 -0.5 0.0 0.5

log\_PO4



COG3138

*FDR: 4.014e-03*  
*Coefficient: 5.13e-01*  
*N: 139*

9e-05

6e-05

3e-05

-2.0

-1.5

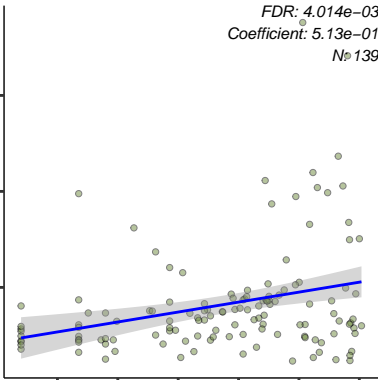
-1.0

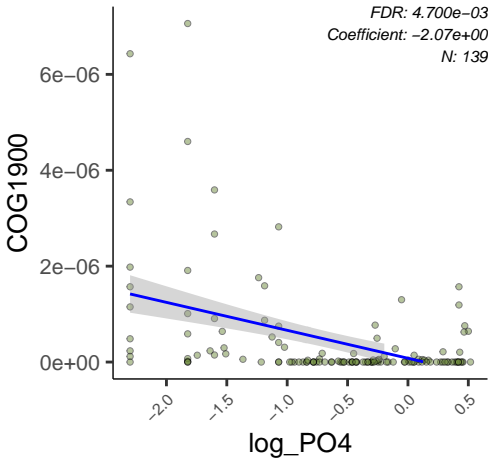
-0.5

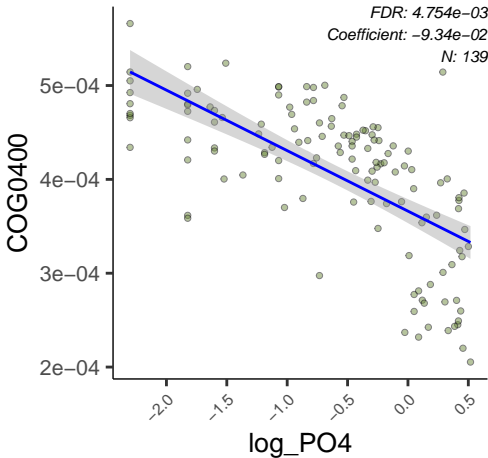
0.0

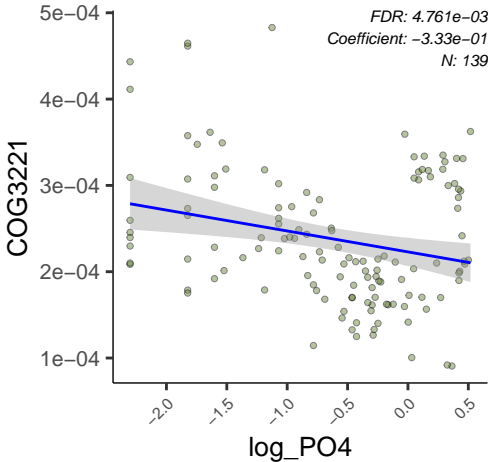
0.5

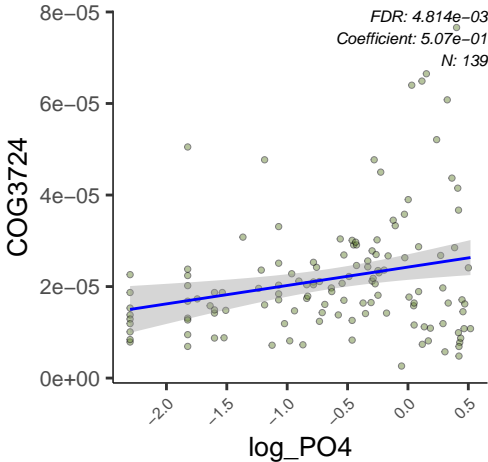
log\_PO4











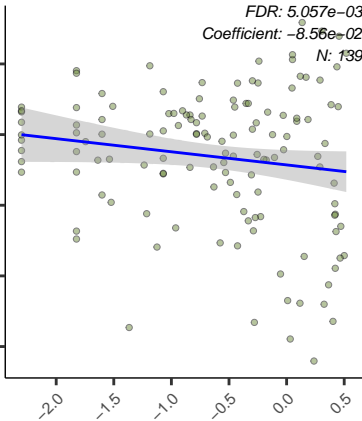
COG0343

0.00070  
0.00065  
0.00060  
0.00055  
0.00050

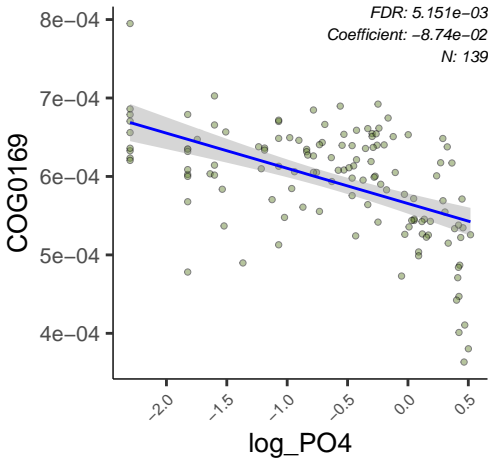
-2.0 -1.5 -1.0 -0.5 0.0 0.5

log\_PO4

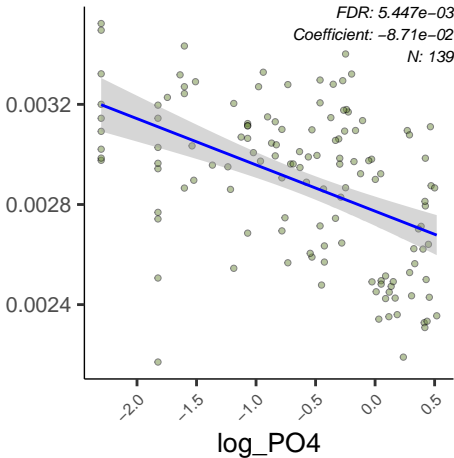
FDR:  $5.057e-03$   
Coefficient:  $-8.56e-02$   
N: 139



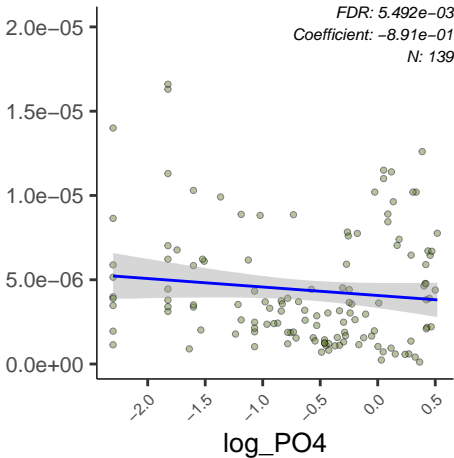




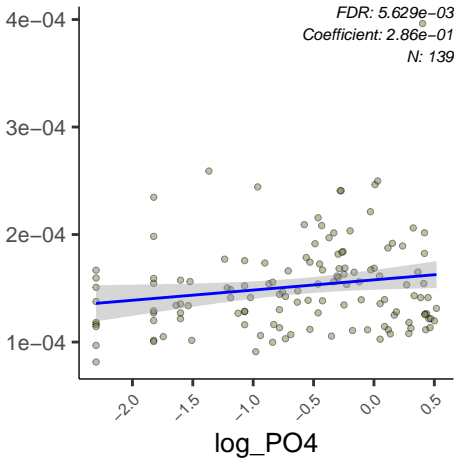
COG0438

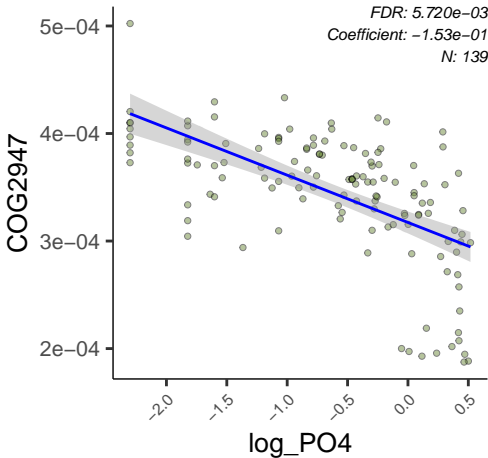


COG5379



COG1061





COG4579

*FDR: 5.806e-03*  
*Coefficient: 6.27e-01*  
*N: 139*

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

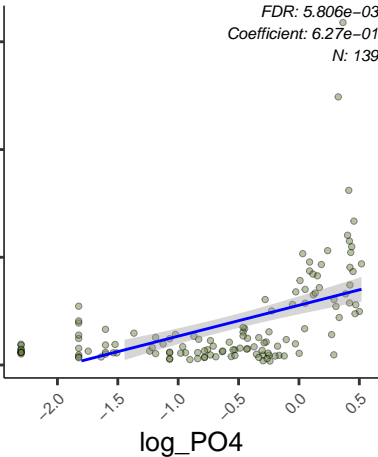
-1.0

-0.5

0.0

0.5

log\_PO4



COG2183

FDR:  $6.041\text{e-}03$

Coefficient:  $8.85\text{e-}01$

N: 139

$1\text{e-}04$

$5\text{e-}05$

$0\text{e+}00$

-2.0

-1.5

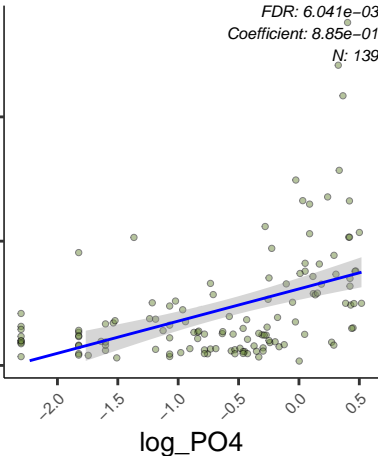
-1.0

-0.5

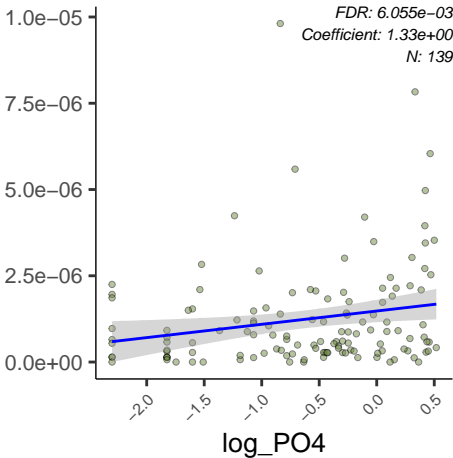
0.0

0.5

log\_PO4

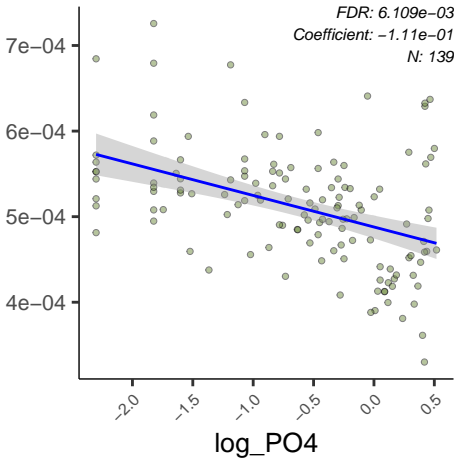


COG4634

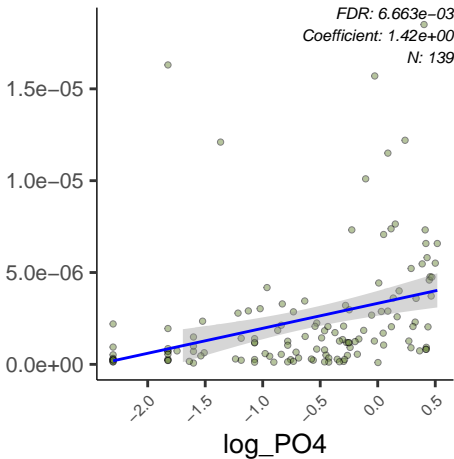




COG0723



COG4275



COG0310

*FDR: 6.956e-03*

*Coefficient: -1.16e+00*

*N: 139*

7.5e-05

5.0e-05

2.5e-05

0.0e+00

-2.0

-1.5

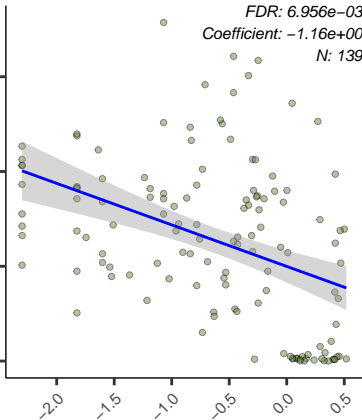
-1.0

-0.5

0.0

0.5

log\_PO4



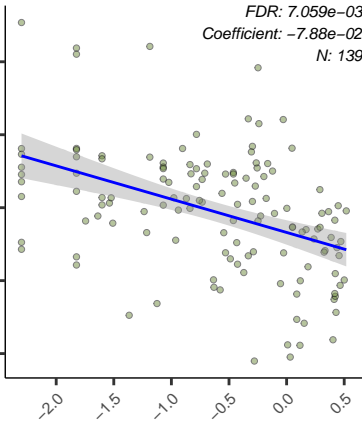
COG0024

0.00070  
0.00065  
0.00060  
0.00055  
0.00050

-2.0  
-1.5  
-1.0  
-0.5  
0.0  
0.5

log\_PO4

*FDR: 7.059e-03*  
*Coefficient: -7.88e-02*  
*N: 139*



COG4138

FDR: 7.072e-03

Coefficient: 1.84e+00

N: 139

3e-05

2e-05

1e-05

0e+00

log\_PO4

-2.0

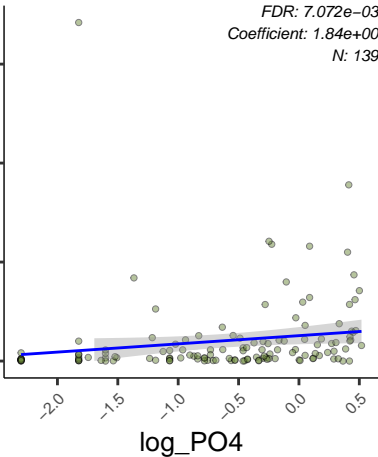
-1.5

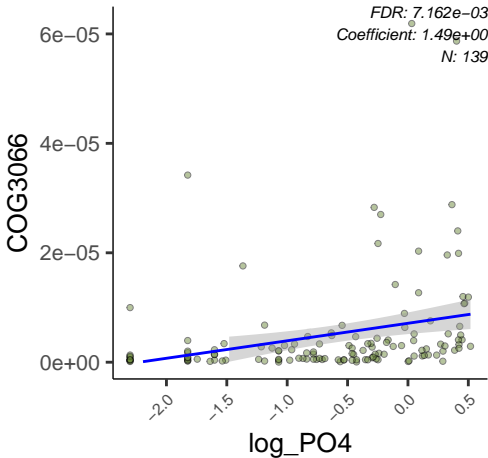
-1.0

-0.5

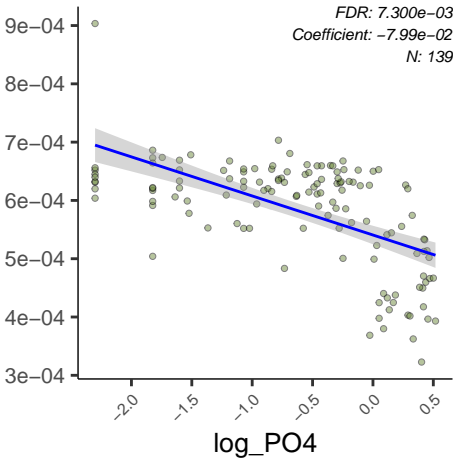
0.0

0.5

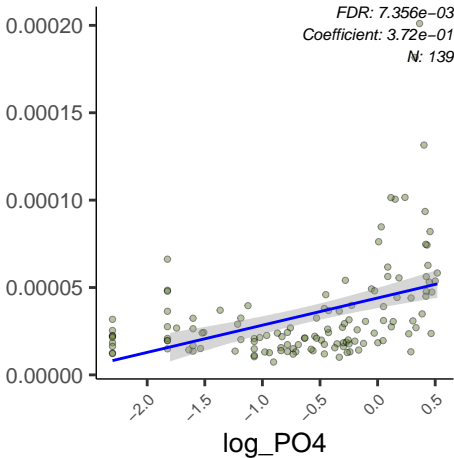




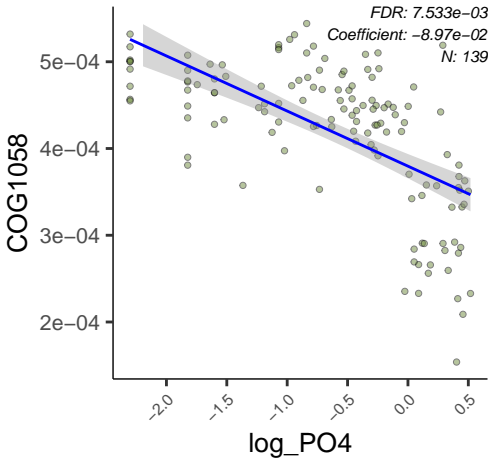
COG0755

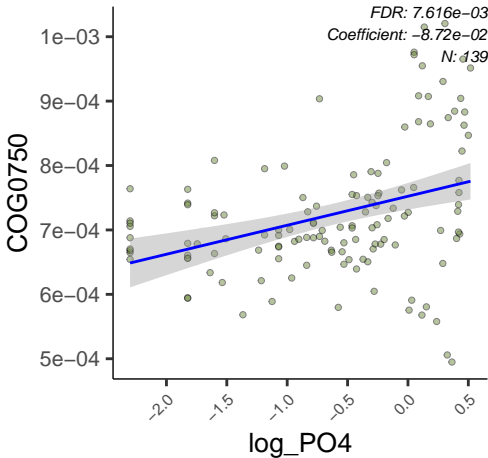


COG4137









COG4230

*FDR: 7.647e-03*  
*Coefficient: 3.67e-01*  
*N: 139*

3e-04

2e-04

1e-04

-2.0

-1.5

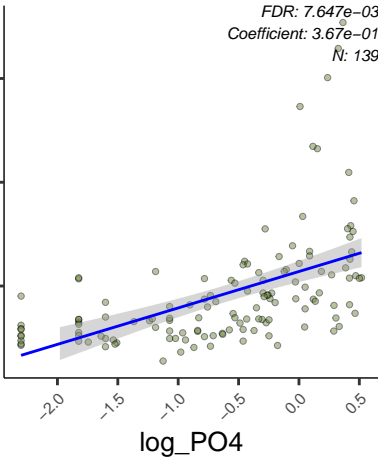
-1.0

-0.5

0.0

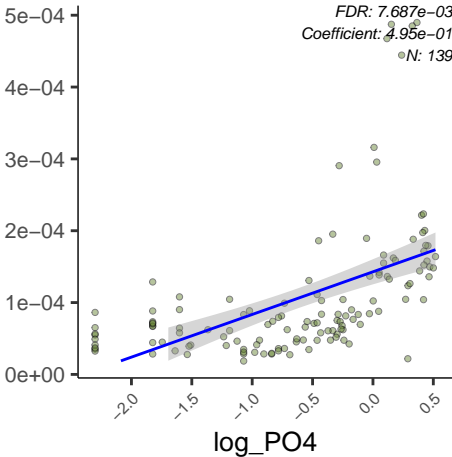
0.5

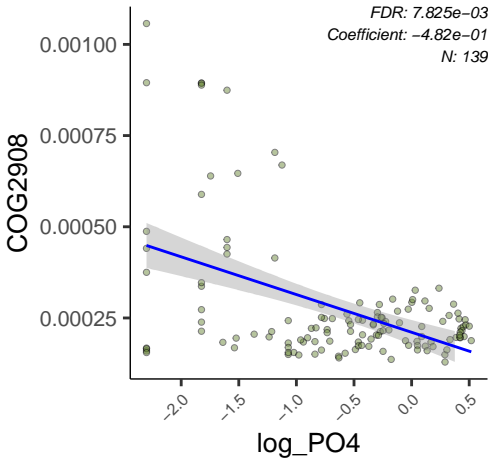
log\_PO4



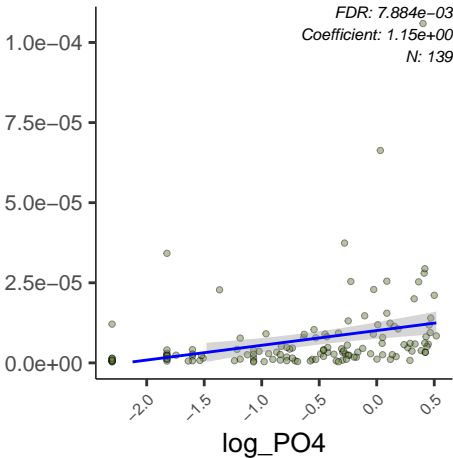
COG2095

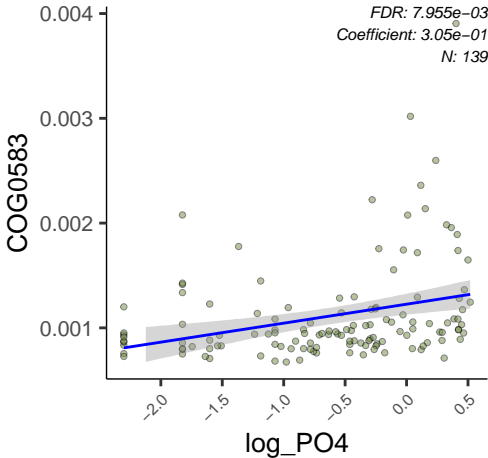
*FDR: 7.687e-03*  
*Coefficient: 4.95e-01*  
● *N: 139*

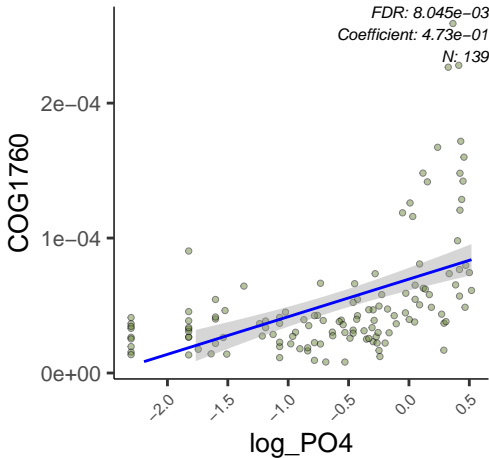




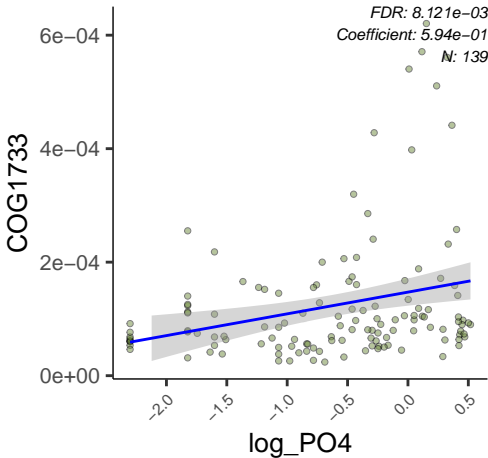
COG0676

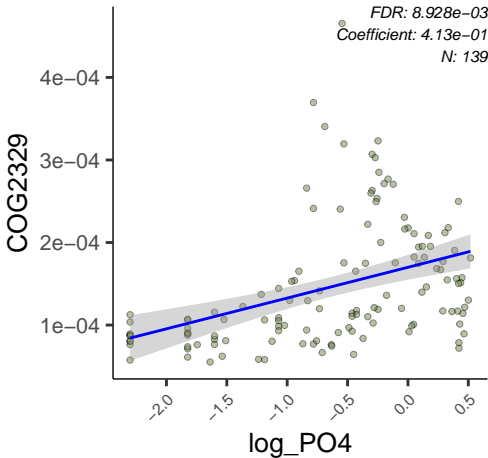












COG1672

*FDR: 9.096e-03*

*Coefficient: 1.28e+00*

*N: 139*

2e-05

1e-05

0e+00

log\_PO4

-2.0

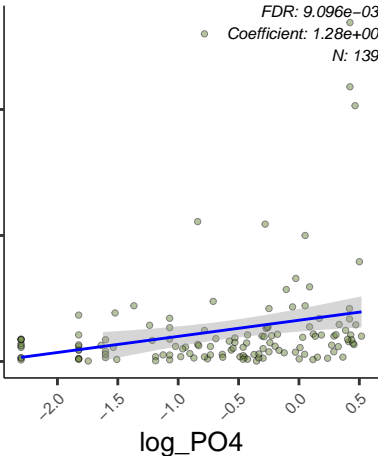
-1.5

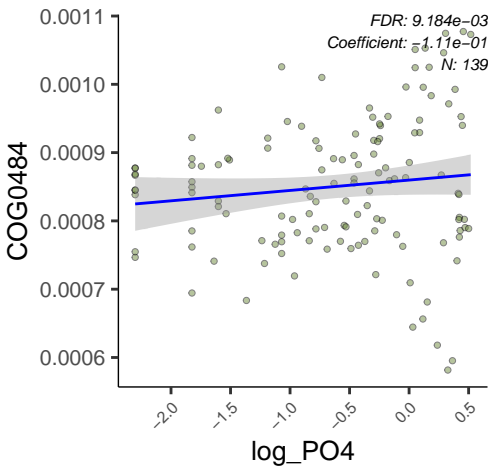
-1.0

-0.5

0.0

0.5





COG1942

*FDR: 9.471e-03*

*Coefficient: -5.95e-01*

*N: 139*

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

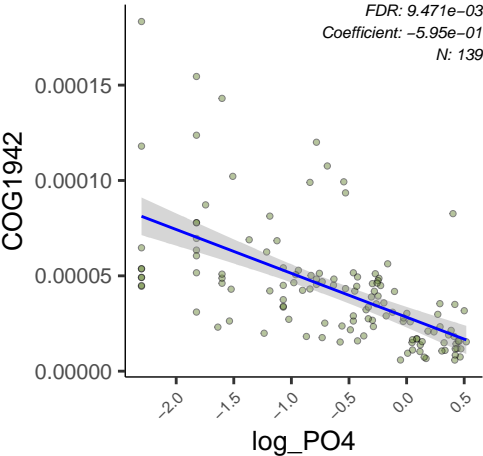
-1.0

-0.5

0.0

0.5

log\_PO4



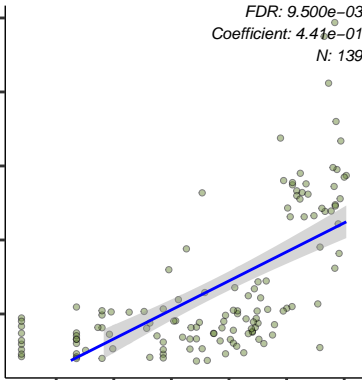
COG1368

*FDR: 9.500e-03*  
*Coefficient: 4.41e-01*  
*N: 139*

0.00025  
0.00020  
0.00015  
0.00010  
0.00005

-2.0  
-1.5  
-1.0  
-0.5  
0.0  
0.5

log\_PO4



COG4559

*FDR: 1.011e-02*  
*Coefficient: 8.54e-01*  
*N: 139*

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

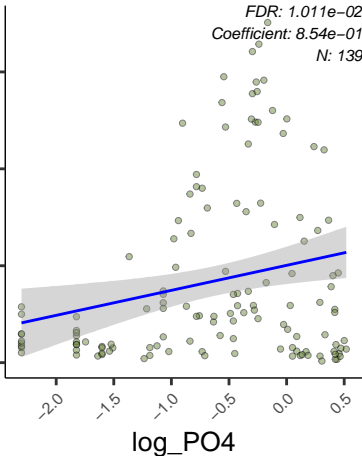
-1.0

-0.5

0.0

0.5

log\_PO4



COG2815

FDR: 1.038e-02  
Coefficient: -7.72e-01  
N: 139

9e-05

6e-05

3e-05

0e+00

-2.0

-1.5

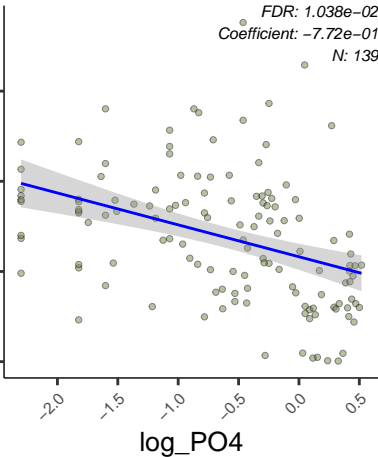
-1.0

-0.5

0.0

0.5

log\_PO4





COG1414

4e-04

3e-04

2e-04

1e-04

-2.0

-1.5

-1.0

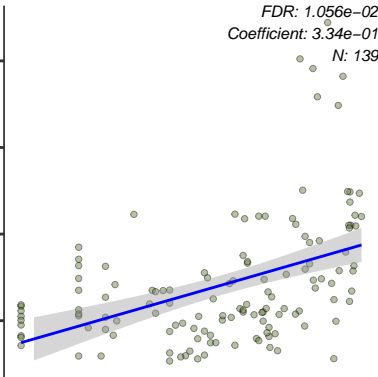
-0.5

0.0

0.5

log\_PO4

FDR: 1.056e-02  
Coefficient: 3.34e-01  
N: 139



COG1847

FDR: 1.078e-02  
Coefficient: -9.62e-01  
N: 139

9e-05

6e-05

3e-05

0e+00

-2.0

-1.5

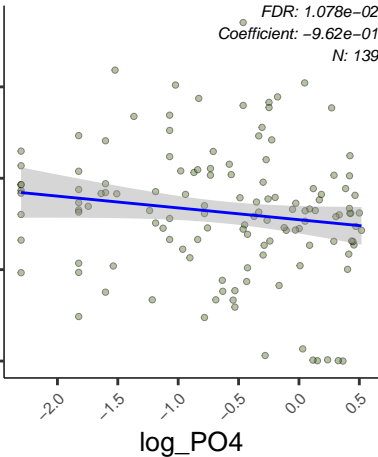
-1.0

-0.5

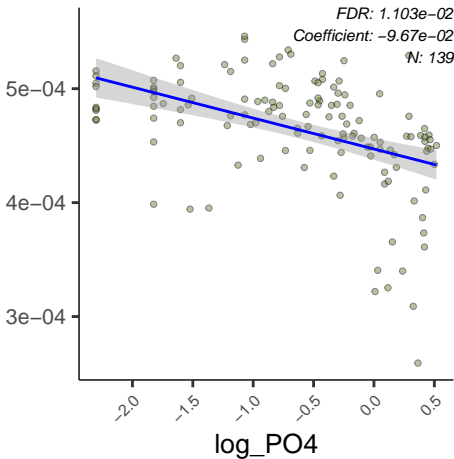
0.0

0.5

log\_PO4



COG1386



COG4807

*FDR: 1.108e-02*  
*Coefficient: 1.00e+00*  
*N: 139*

1e-04

5e-05

0e+00

log\_PO4

-2.0

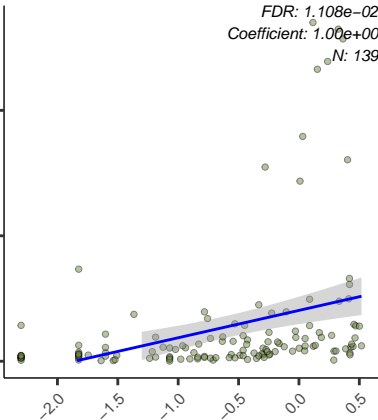
-1.5

-1.0

-0.5

0.0

0.5



COG3227

*FDR: 1.109e-02*  
*Coefficient: 8.49e-01*  
*N: 139*

9e-05

6e-05

3e-05

0e+00

-2.0

-1.5

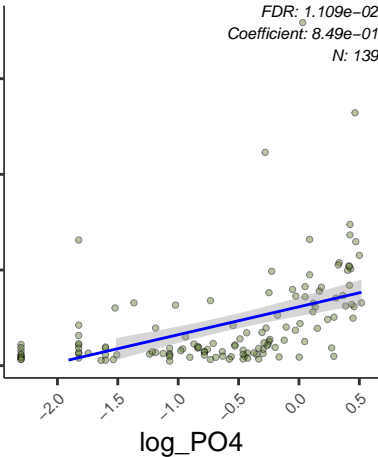
-1.0

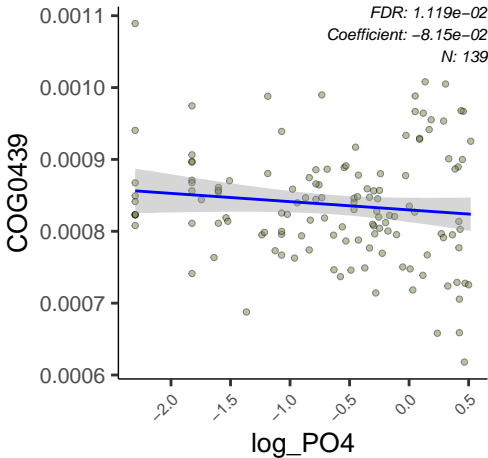
-0.5

0.0

0.5

log\_PO4





COG2269

*FDR: 1.124e-02*  
*Coefficient: 4.38e-01*  
*N: 139*

0.00016

0.00012

0.00008

0.00004

-2.0

-1.5

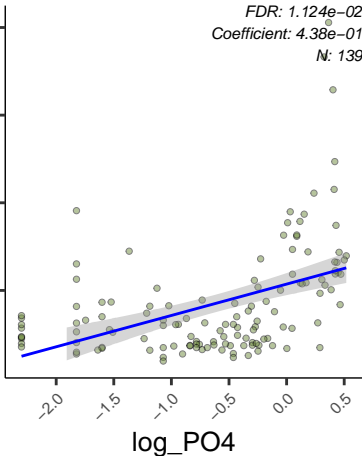
-1.0

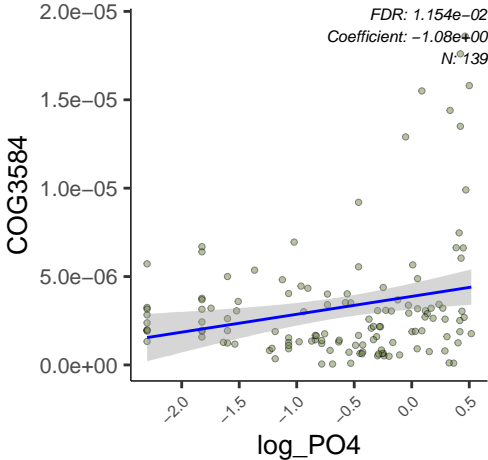
-0.5

0.0

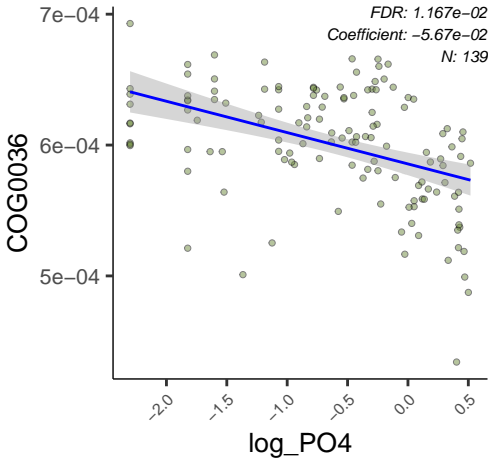
0.5

log\_PO4









COG4569

*FDR: 1.181e-02*  
*Coefficient: 3.89e-01*  
*N: 139*

8e-05  
6e-05  
4e-05  
2e-05  
0e+00

-2.0

-1.5

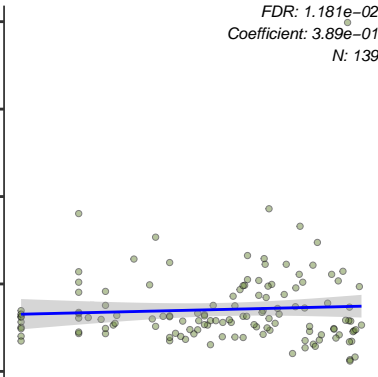
-1.0

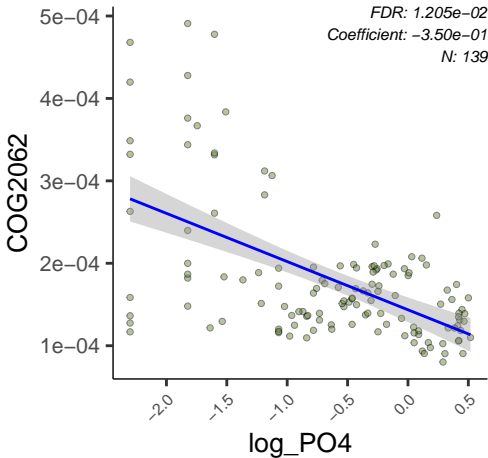
-0.5

0.0

0.5

log\_PO4





COG3170

*FDR: 1.231e-02*  
*Coefficient: 6.50e-01*  
*N: 139*

7.5e-05

5.0e-05

2.5e-05

0.0e+00

-2.0

-1.5

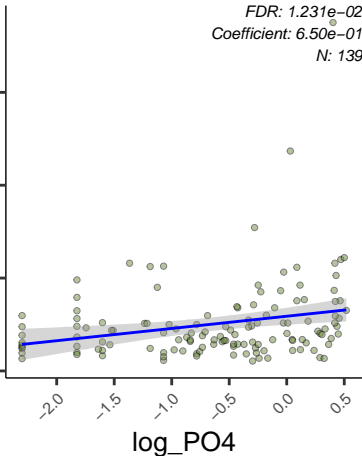
-1.0

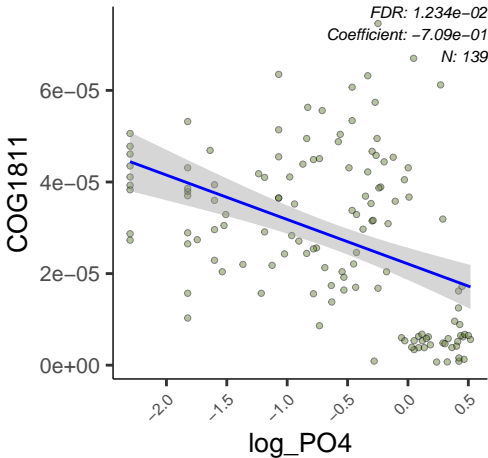
-0.5

0.0

0.5

log\_PO4





COG2813

*FDR: 1.234e-02*  
*Coefficient: 4.62e-01*  
*N: 139*

0.00020

0.00015

0.00010

0.00005

-2.0

-1.5

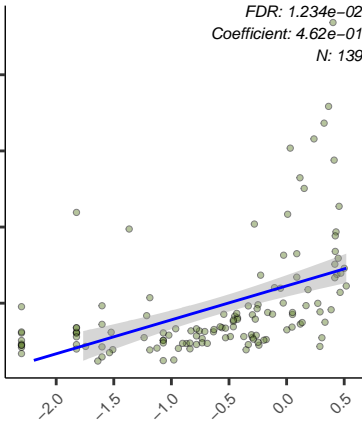
-1.0

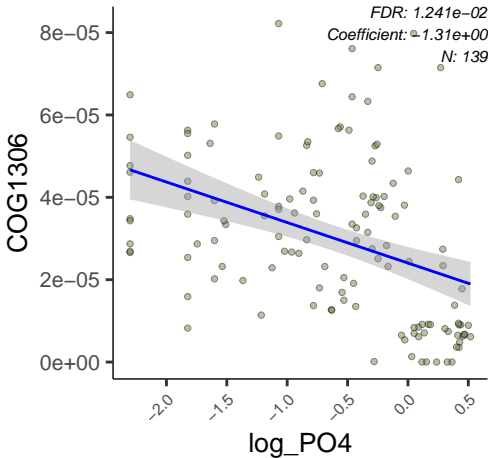
-0.5

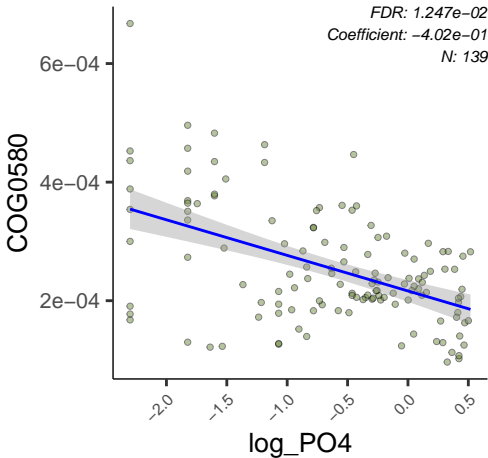
0.0

0.5

log\_PO4









COG3112

FDR:  $1.266e-02$   
Coefficient:  $1.90e+00$   
N: 139

$4e-05$

$2e-05$

$0e+00$

-2.0

-1.5

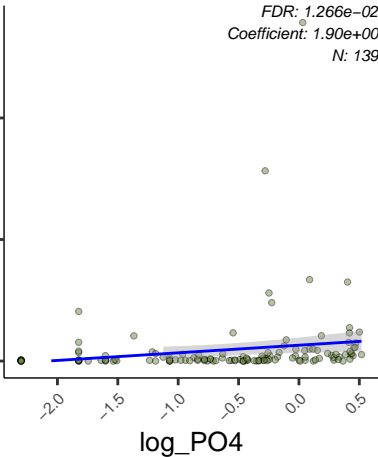
-1.0

-0.5

0.0

0.5

log\_PO4



COG2308

*FDR: 1.279e-02*

*Coefficient: -9.89e-01*

*N: 139*

8e-04  
6e-04  
4e-04  
2e-04  
0e+00

-2.0

-1.5

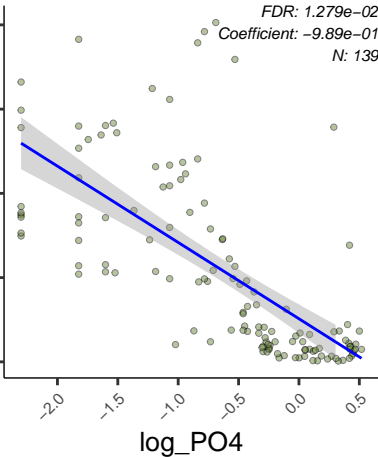
-1.0

-0.5

0.0

0.5

log\_PO4



COG0592

*FDR: 1.280e-02*  
*Coefficient: -8.98e-02*  
*N: 139*

8e-04

7e-04

6e-04

-2.0

-1.5

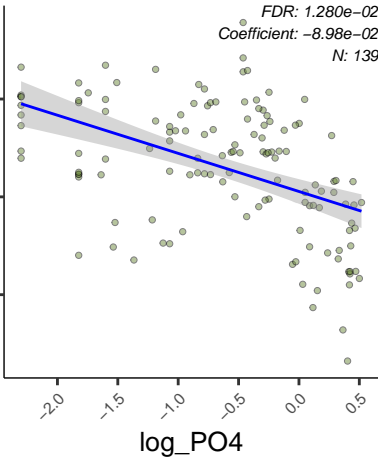
-1.0

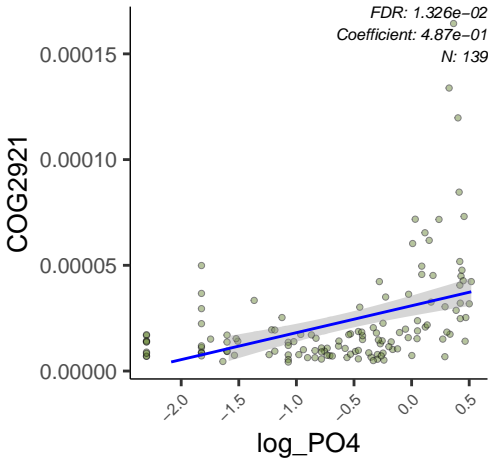
-0.5

0.0

0.5

log\_PO4





COG3440

*FDR: 1.327e-02*  
*Coefficient: 2.05e-01*  
*N: 139*

6e-05

4e-05

2e-05

-2.0

-1.5

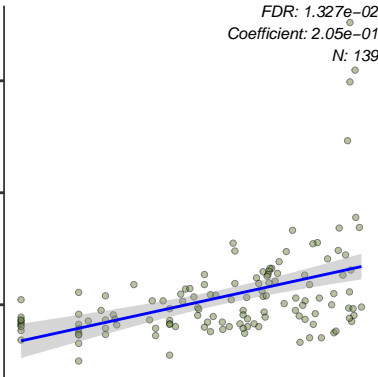
-1.0

-0.5

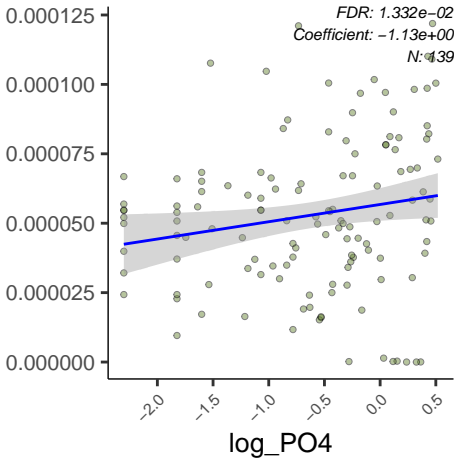
0.0

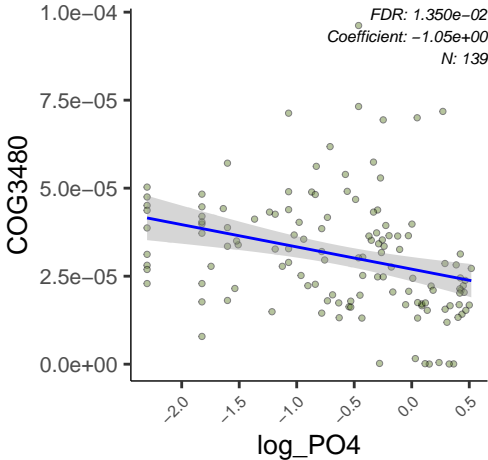
0.5

log\_PO4



COG3872





COG1883

FDR: 1.352e-02

Coefficient: 3.82e-01

N: 139

0.00015

0.00010

0.00005

-2.0

-1.5

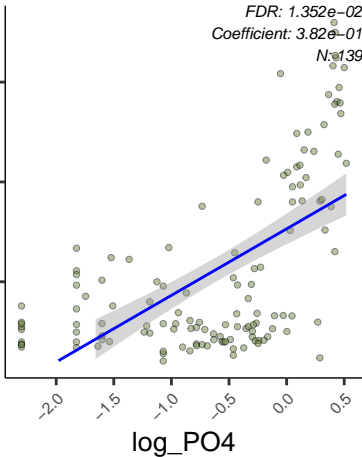
-1.0

-0.5

0.0

0.5

log\_PO4





COG2336

FDR: 1.387e-02  
Coefficient: 1.25e+00  
N: 139

2e-05

1e-05

0e+00

-2.0

-1.5

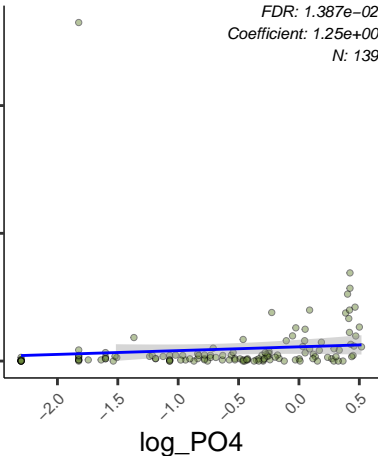
-1.0

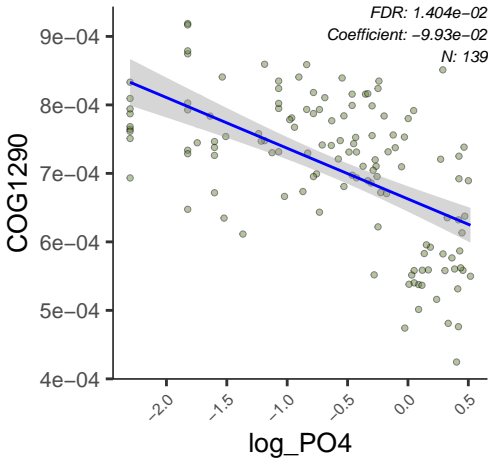
-0.5

0.0

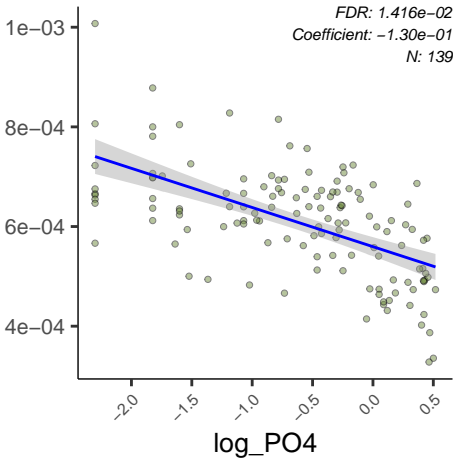
0.5

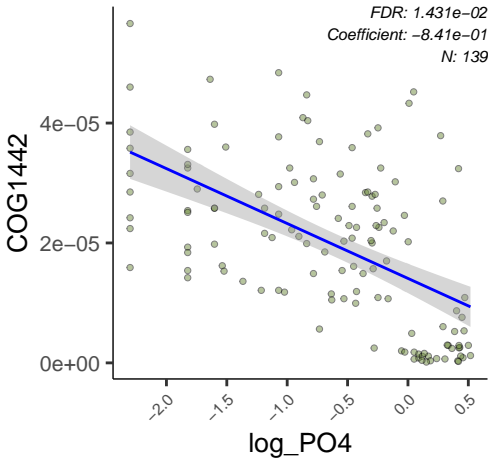
log\_PO4





COG0229





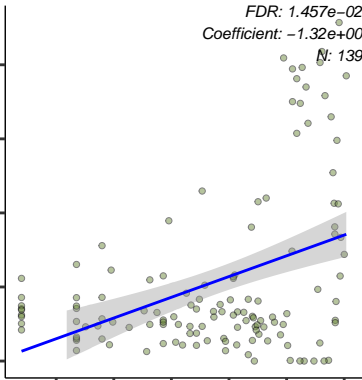
COG2178

0.00020  
0.00015  
0.00010  
0.00005  
0.00000

-2.0 -1.5 -1.0 -0.5 0.0 0.5

log\_PO4

*FDR: 1.457e-02*  
*Coefficient: -1.32e+00*  
*N: 139*



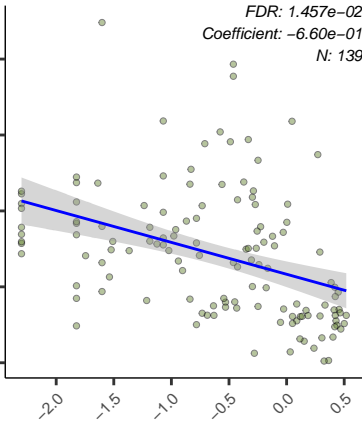
COG3409

0.00020  
0.00015  
0.00010  
0.00005  
0.00000

-2.0 -1.5 -1.0 -0.5 0.0 0.5

log\_PO4

*FDR: 1.457e-02*  
*Coefficient: -6.60e-01*  
*N: 139*



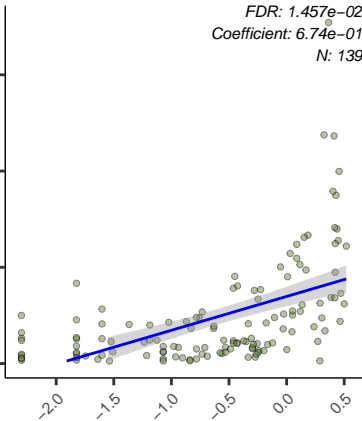
COG2922

*FDR: 1.457e-02*  
*Coefficient: 6.74e-01*  
*N: 139*

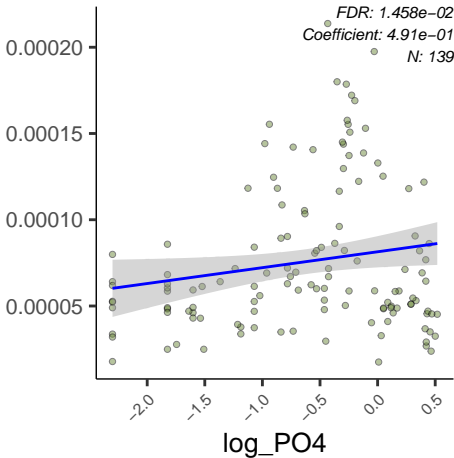
0.00015  
0.00010  
0.00005  
0.00000

-2.0 -1.5 -1.0 -0.5 0.0 0.5

log\_PO4



COG0748





COG3185

*FDR: 1.470e-02*

*Coefficient: 3.57e-01*

*N: 139*

0.00015

0.00010

0.00005

-2.0

-1.5

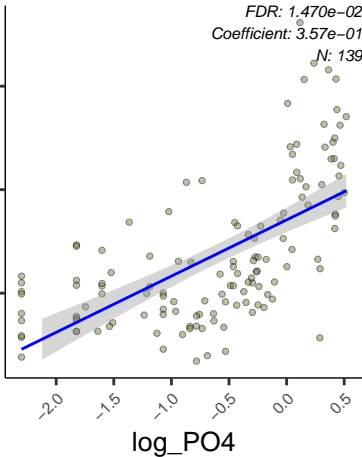
-1.0

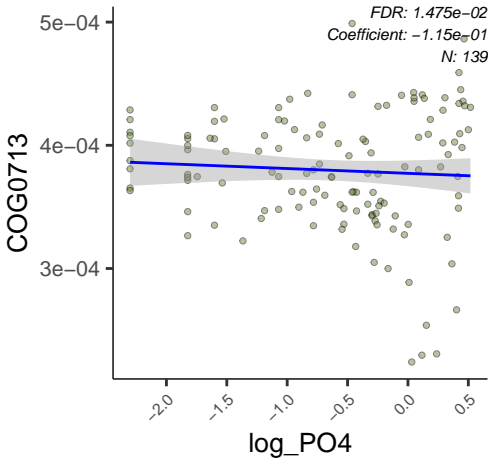
-0.5

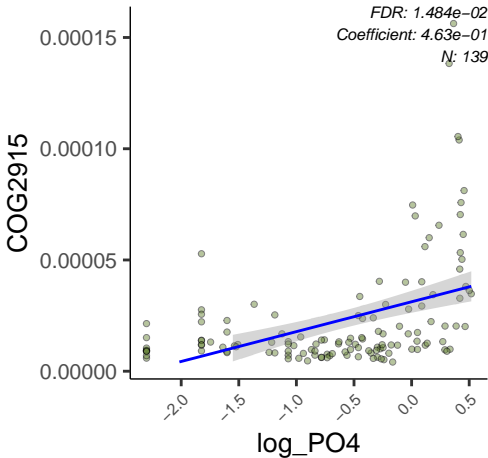
0.0

0.5

log\_PO4







COG0524

*FDR: 1.496e-02*

*Coefficient: -5.47e-02*

*N: 139*

0.0014

0.0013

0.0012

0.0011

0.0010

-2.0

-1.5

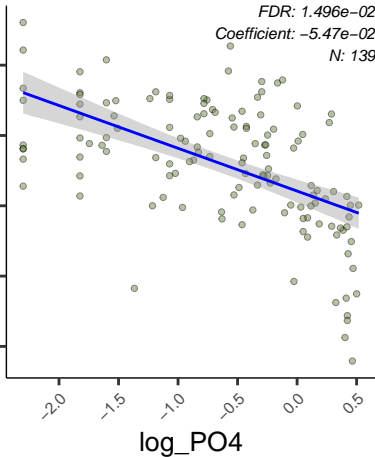
-1.0

-0.5

0.0

0.5

log\_PO4



COG1268

*FDR: 1.513e-02*

*Coefficient: -1.29e-01*

*N: 139*

4e-04

3e-04

2e-04

1e-04

-2.0

-1.5

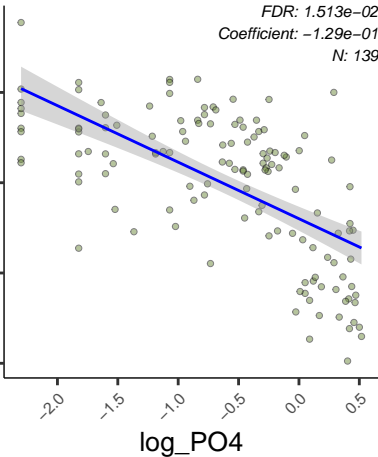
-1.0

-0.5

0.0

0.5

log\_PO4



COG1623

*FDR: 1.513e-02*  
*Coefficient: -1.41e+00*  
*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

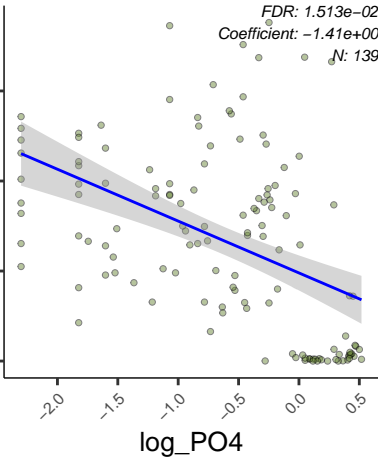
-1.0

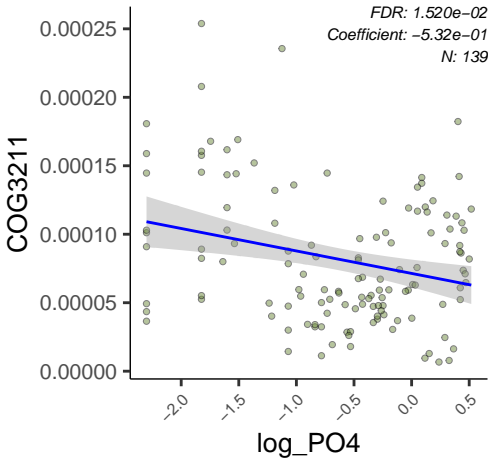
-0.5

0.0

0.5

log\_PO4





COG0413

*FDR: 1.536e-02*

*Coefficient: -1.19e-01*

*N: 139*

8e-04

7e-04

6e-04

5e-04

4e-04

3e-04

-2.0

-1.5

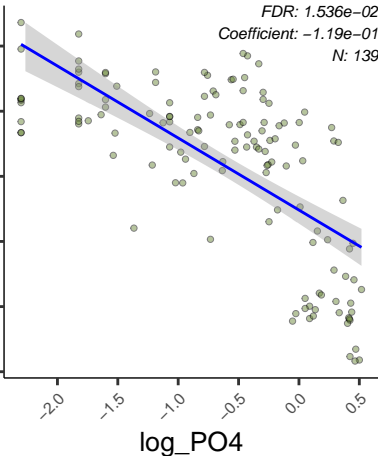
-1.0

-0.5

0.0

0.5

log\_PO4





COG1309

*FDR: 1.541e-02*  
*Coefficient: 2.93e-01*  
*N: 139*

0.0015

0.0010

0.0005

-2.0

-1.5

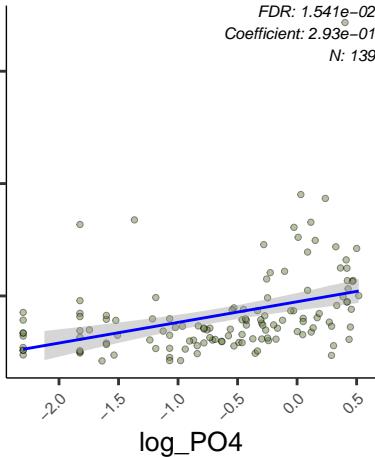
-1.0

-0.5

0.0

0.5

log\_PO4



COG3287

*FDR: 1.562e-02*

*Coefficient: 1.11e+00*

*N: 139*

6e-05

4e-05

2e-05

0e+00

log\_PO4

-2.0

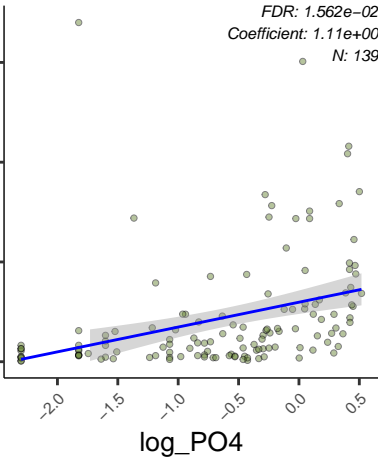
-1.5

-1.0

-0.5

0.0

0.5



COG3707

*FDR: 1.610e-02*

*Coefficient: 7.89e-01*

*N: 139*

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

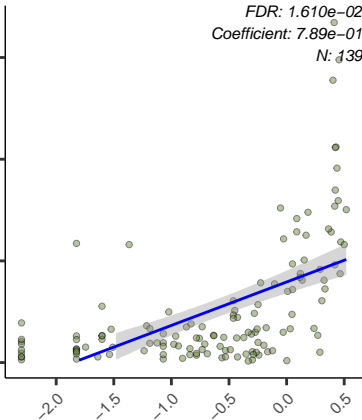
-1.0

-0.5

0.0

0.5

log\_PO4



COG2344

*FDR: 1.610e-02*  
*Coefficient: -9.68e-01*  
*N: 139*

9e-05

6e-05

3e-05

0e+00

-2.0

-1.5

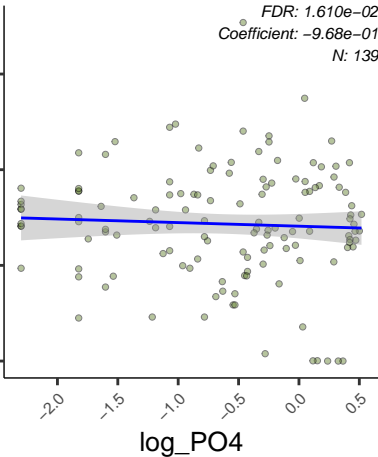
-1.0

-0.5

0.0

0.5

log\_PO4



COG1850

1.0e-04

7.5e-05

5.0e-05

2.5e-05

-2.0

-1.5

-1.0

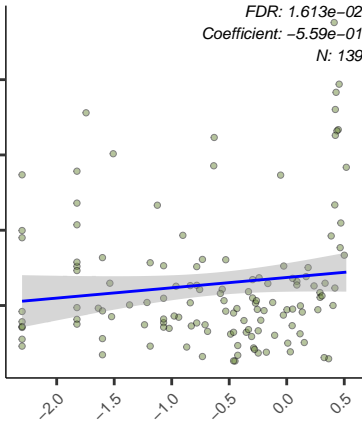
-0.5

0.0

0.5

log\_PO4

FDR: 1.613e-02  
Coefficient: -5.59e-01  
N: 139



COG4334

*FDR: 1.637e-02*  
*Coefficient: 1.33e+00*  
*N: 139*

1.5e-05

1.0e-05

5.0e-06

0.0e+00

-2.0

-1.5

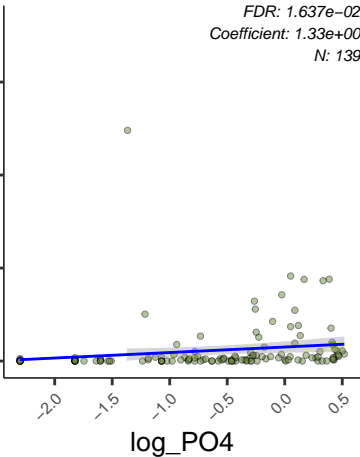
-1.0

-0.5

0.0

0.5

log\_PO4



COG4794

*FDR: 1.648e-02*  
*Coefficient: 1.11e+00*  
*N: 139*

2.0e-06

1.5e-06

1.0e-06

5.0e-07

0.0e+00

-2.0

-1.5

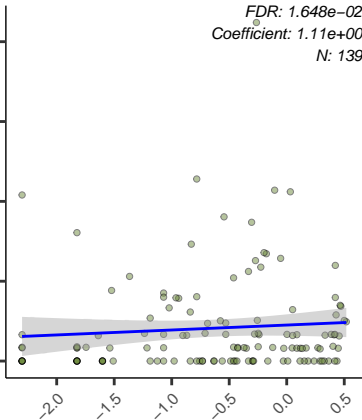
-1.0

-0.5

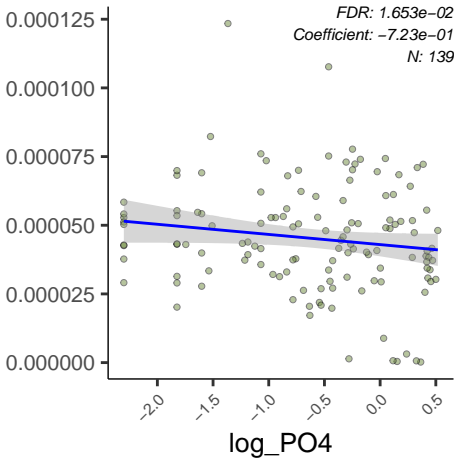
0.0

0.5

log\_PO4



COG3336





COG2900

*FDR: 1.685e-02*  
*Coefficient: 1.46e+00*  
*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

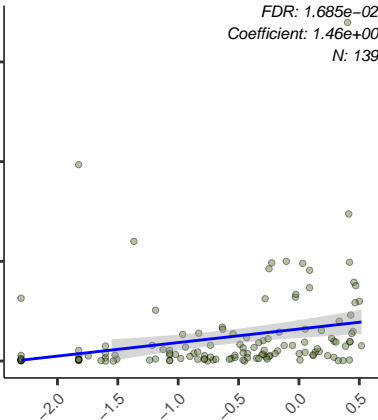
-1.0

-0.5

0.0

0.5

log\_PO4



COG3275

*FDR: 1.714e-02*  
*Coefficient: 7.48e-01*  
*N: 139*

0.00015  
0.00010  
0.00005  
0.00000

-2.0

-1.5

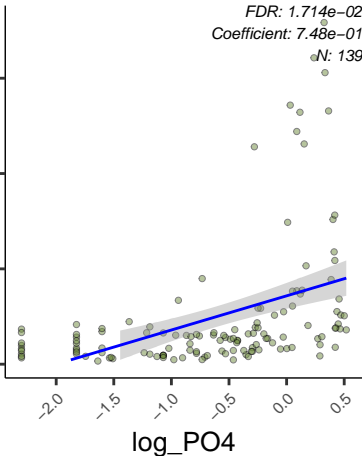
-1.0

-0.5

0.0

0.5

log\_PO4



COG3844

FDR: 1.723e-02  
Coefficient: 2.95e-01  
N: 139

2e-04

1e-04

-2.0

-1.5

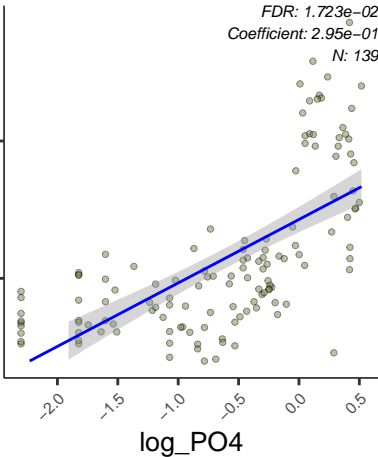
-1.0

-0.5

0.0

0.5

log\_PO4



COG1444

FDR: 1.730e-02  
Coefficient: 1.25e+00  
N: 139

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

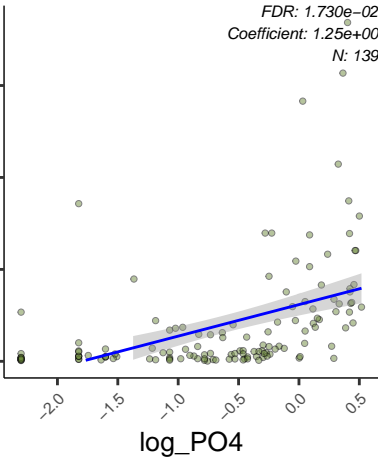
-1.0

-0.5

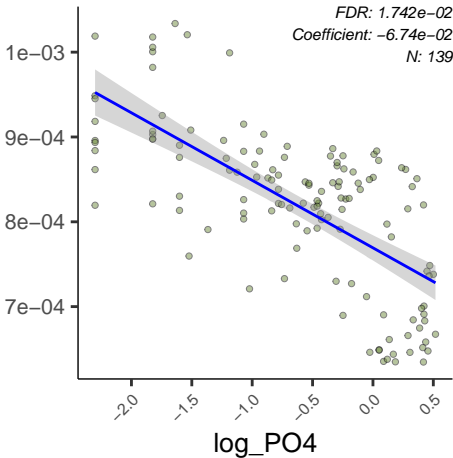
0.0

0.5

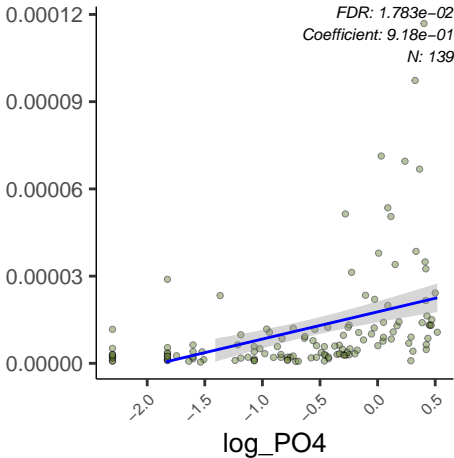
log\_PO4



COG0057



COG3530



COG5508

*FDR: 1.793e-02*  
*Coefficient: 1.58e+00*  
*N: 139*

8e-06

6e-06

4e-06

2e-06

0e+00

-2.0

-1.5

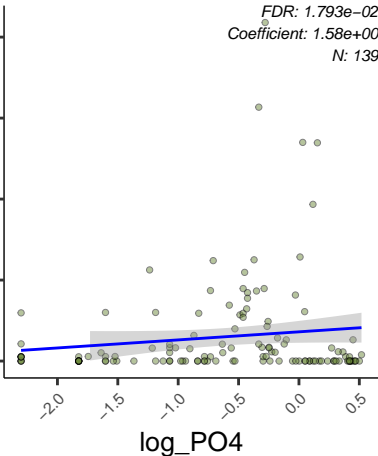
-1.0

-0.5

0.0

0.5

log\_PO4



COG1739

*FDR: 1.883e-02*

*Coefficient: 5.32e-01*

*N: 139*

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

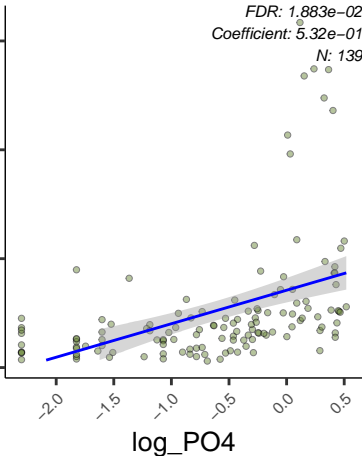
-1.0

-0.5

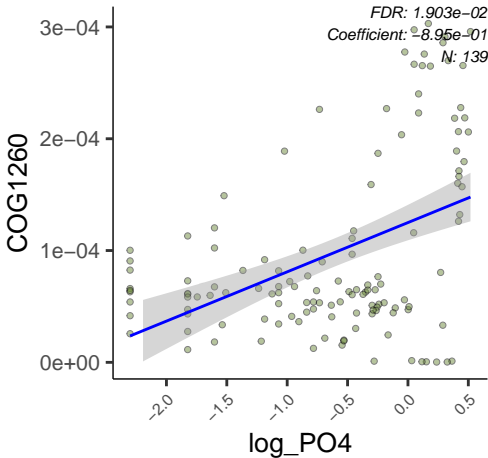
0.0

0.5

log\_PO4







COG3267

FDR: 1.911e-02  
Coefficient: 4.23e-01  
N: 139

2e-04

1e-04

0e+00

-2.0

-1.5

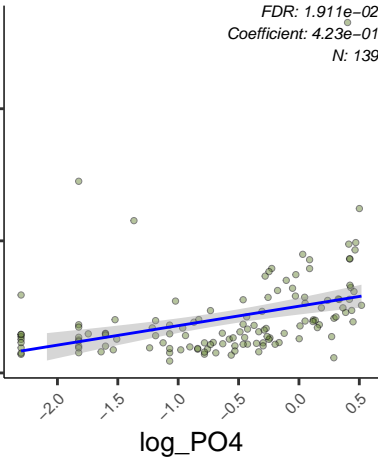
-1.0

-0.5

0.0

0.5

log\_PO4



COG1902

*FDR: 1.933e-02*  
*Coefficient: 1.87e-01*  
*N: 139*

8e-04

6e-04

4e-04

-2.0

-1.5

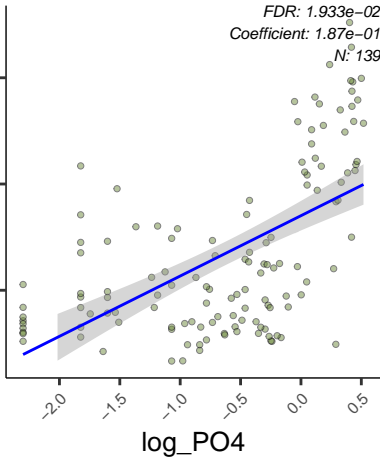
-1.0

-0.5

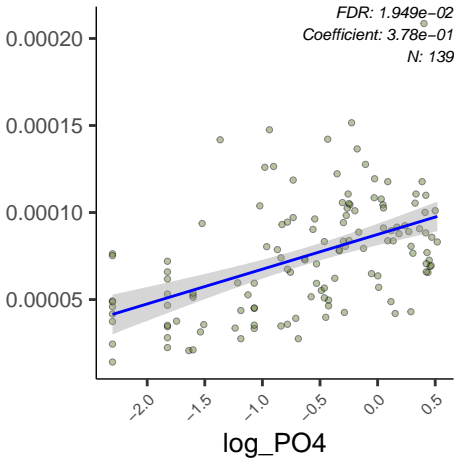
0.0

0.5

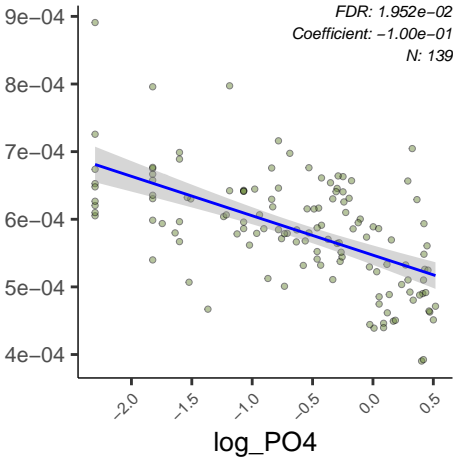
log\_PO4



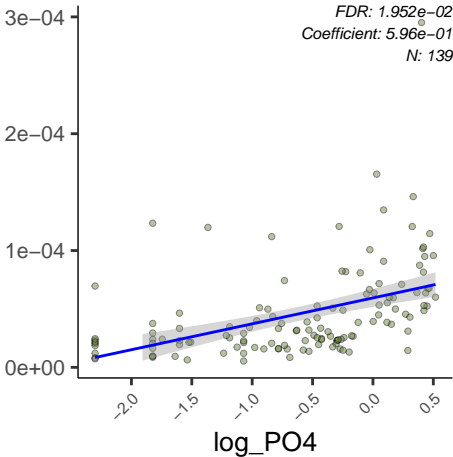
COG1120



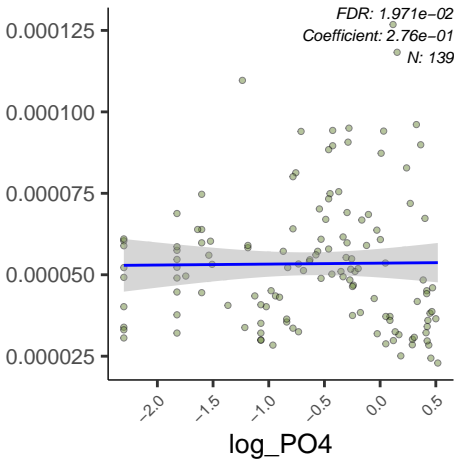
COG0107



COG3712



COG4704



COG0359

*FDR: 2.000e-02*

*Coefficient: -7.07e-02*

*N: 139*

6e-04

5e-04

4e-04

3e-04

-2.0

-1.5

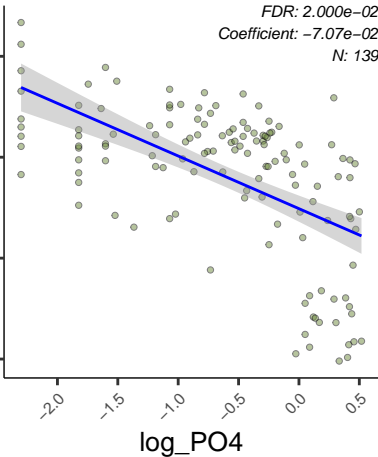
-1.0

-0.5

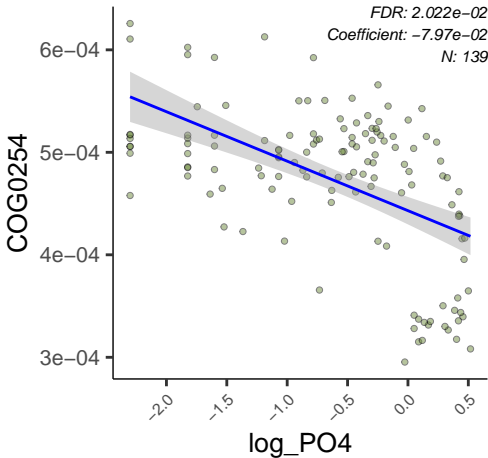
0.0

0.5

log\_PO4







COG4246

2.5e-05  
2.0e-05  
1.5e-05  
1.0e-05  
5.0e-06  
0.0e+00

-2.0

-1.5

-1.0

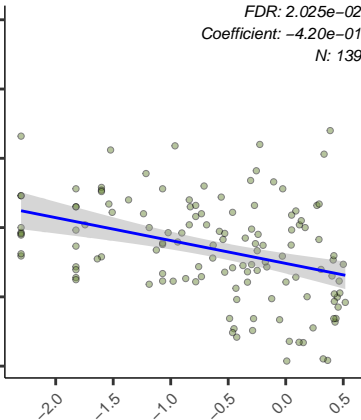
-0.5

0.0

0.5

log\_PO4

*FDR: 2.025e-02*  
*Coefficient: -4.20e-01*  
*N: 139*



COG0284

6e-04

5e-04

4e-04

-2.0

-1.5

-1.0

-0.5

0.0

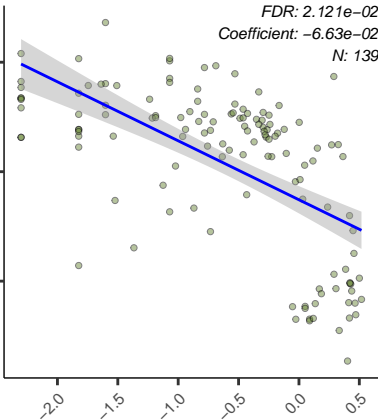
0.5

log\_PO4

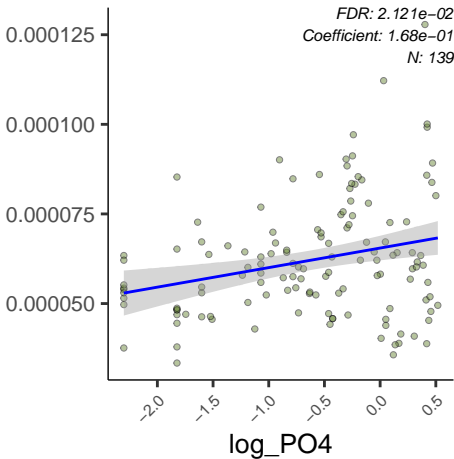
*FDR: 2.121e-02*

*Coefficient: -6.63e-02*

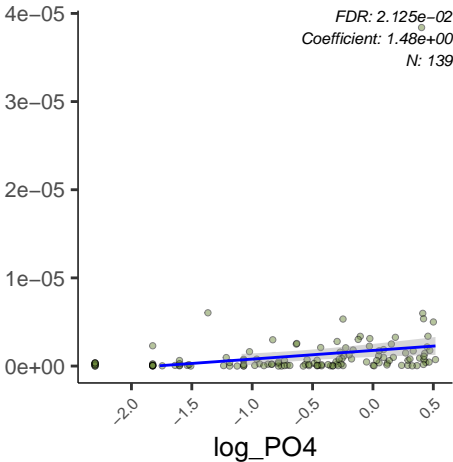
*N: 139*



COG4096



COG4397



COG1758

*FDR: 2.139e-02*

*Coefficient: -1.13e-01*

*N: 139*

5e-04

4e-04

3e-04

-2.0

-1.5

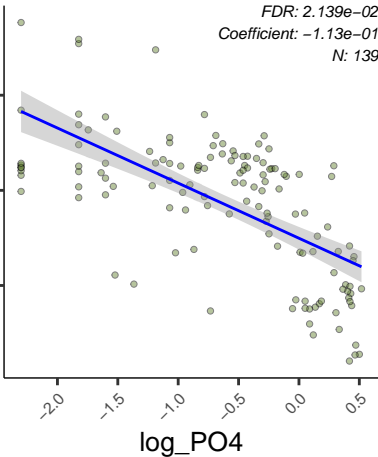
-1.0

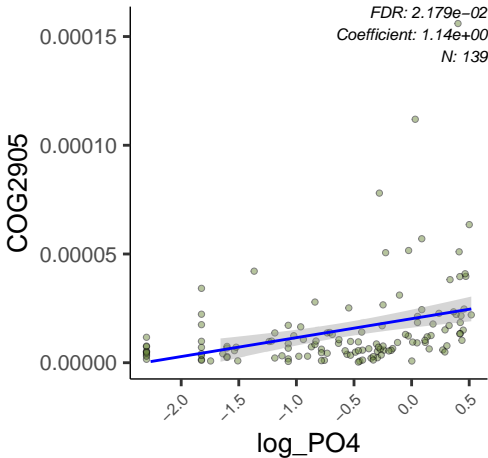
-0.5

0.0

0.5

log\_PO4





COG3079

*FDR: 2.180e-02*  
*Coefficient: 4.65e-01*  
*N: 139*

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

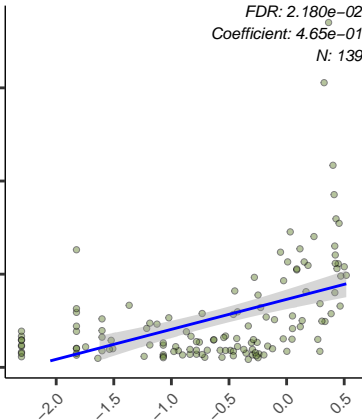
-1.0

-0.5

0.0

0.5

log\_PO4





COG4568

*FDR: 2.225e-02*  
*Coefficient: 1.73e+00*  
*N: 139*

1.5e-05

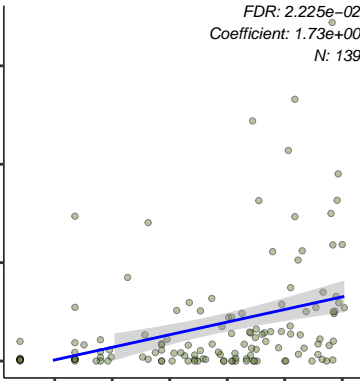
1.0e-05

5.0e-06

0.0e+00

-2.0 -1.5 -1.0 -0.5 0.0 0.5

log\_PO4



COG1534

*FDR: 2.234e-02*  
*Coefficient: 3.61e-01*  
*N: 139*

0.00020

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

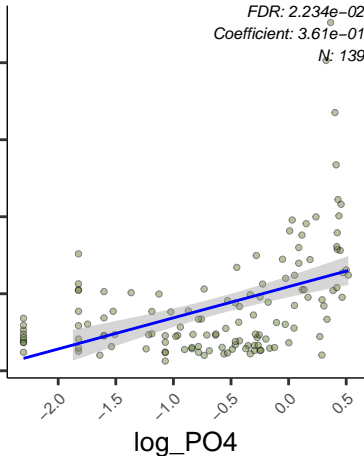
-1.0

-0.5

0.0

0.5

log\_PO4



COG3730

*FDR: 2.245e-02*

*Coefficient: -1.33e+00*

*N: 139*

4e-05

3e-05

2e-05

1e-05

0e+00

-2.0

-1.5

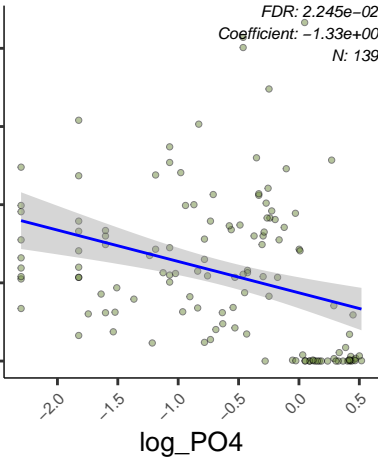
-1.0

-0.5

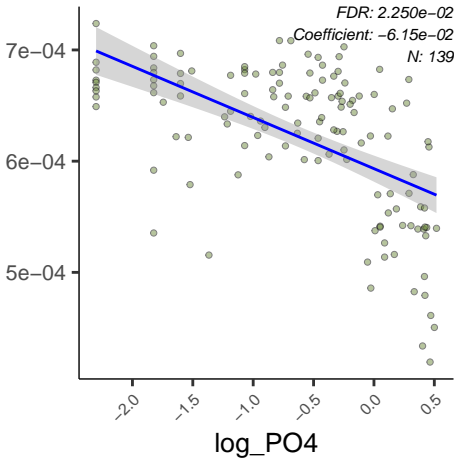
0.0

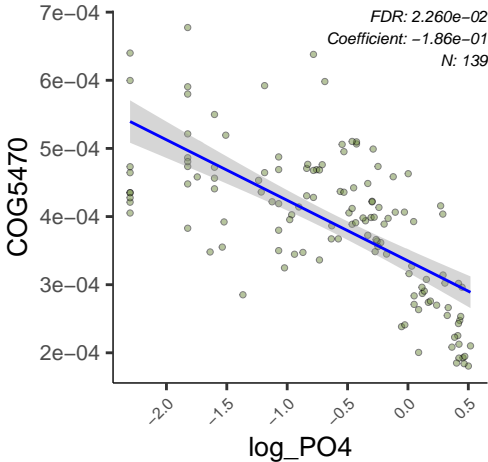
0.5

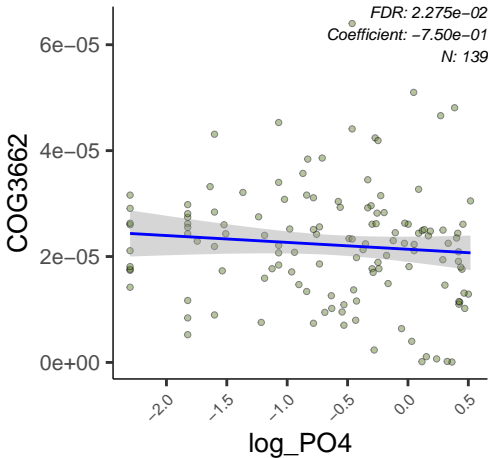
log\_PO4

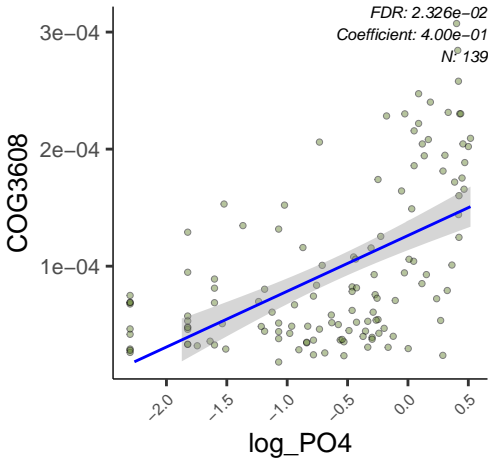


COG0452









COG1802

*FDR: 2.337e-02*  
*Coefficient: 4.34e-01*  
*N: 139*

6e-04

4e-04

2e-04

-2.0

-1.5

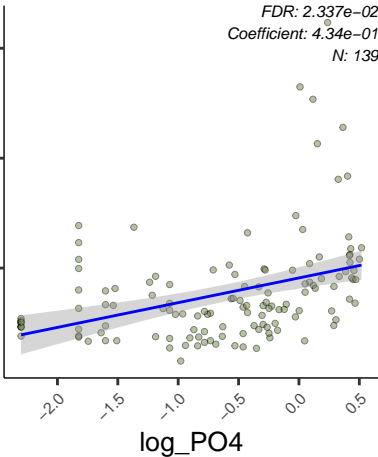
-1.0

-0.5

0.0

0.5

log\_PO4





COG1969

FDR:  $2.396e-02$   
Coefficient:  $1.39e+00$   
N: 139

$3e-05$

$2e-05$

$1e-05$

$0e+00$

-2.0

-1.5

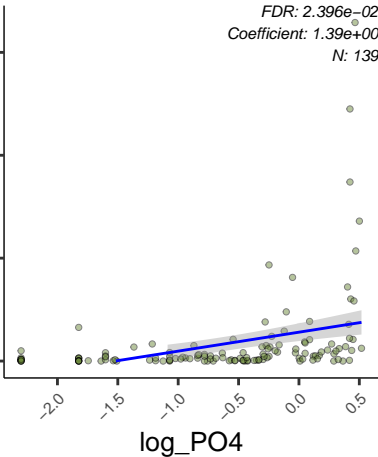
-1.0

-0.5

0.0

0.5

log\_PO4



COG3266

FDR:  $2.434 \times 10^{-2}$   
Coefficient:  $1.14 \times 10^0$   
N: 139

$4 \times 10^{-5}$   
 $3 \times 10^{-5}$   
 $2 \times 10^{-5}$   
 $1 \times 10^{-5}$   
 $0 \times 10^0$

-2.0

-1.5

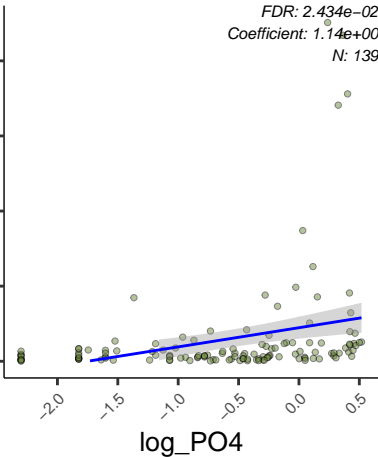
-1.0

-0.5

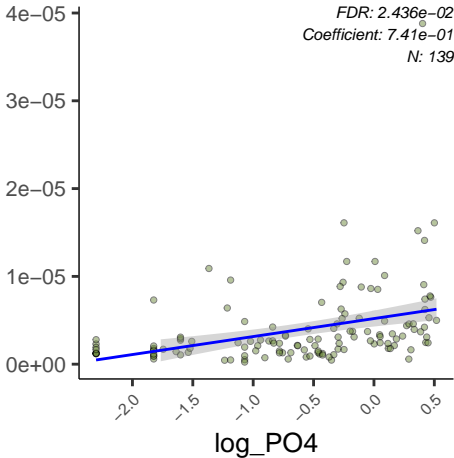
0.0

0.5

log\_PO4



COG3236



COG2515

FDR: 2.540e-02  
Coefficient: 2.75e-01  
N: 139

2e-04

1e-04

-2.0

-1.5

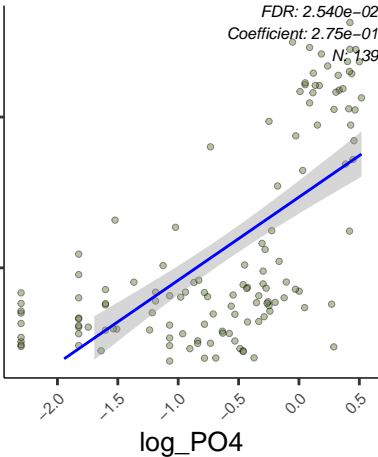
-1.0

-0.5

0.0

0.5

log\_PO4



COG3033

FDR:  $2.554e-02$   
Coefficient:  $-5.76e-01$   
N: 139

$9e-05$

$6e-05$

$3e-05$

$0e+00$

-2.0

-1.5

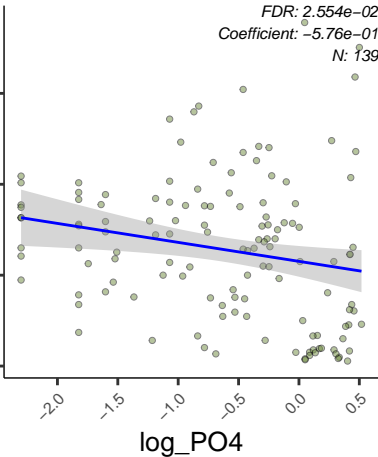
-1.0

-0.5

0.0

0.5

log\_PO4

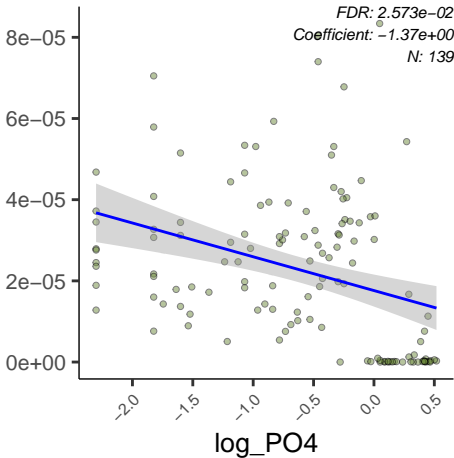


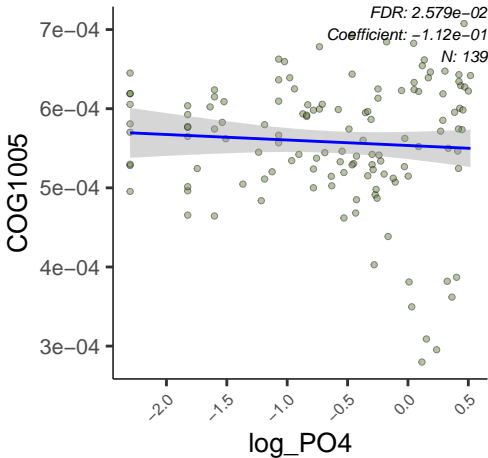
COG3732

*FDR: 2.573e-02*

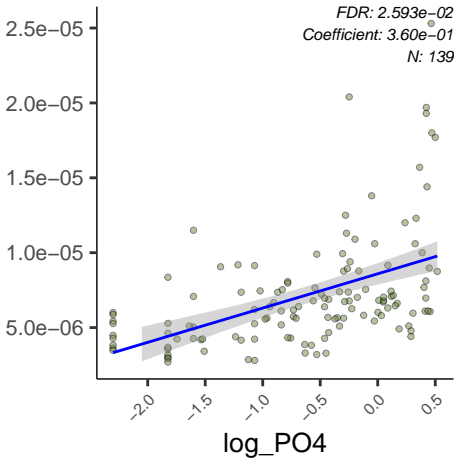
*Coefficient: -1.37e+00*

*N: 139*

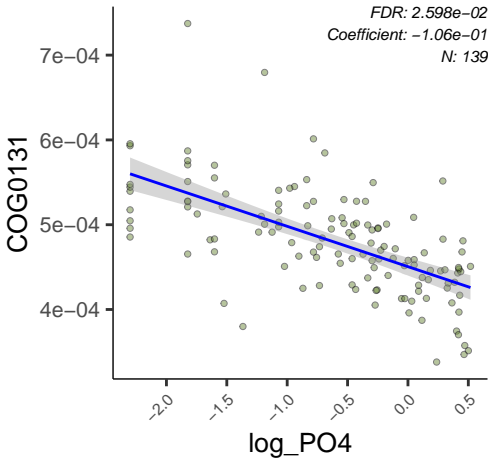




COG3586







COG1167

*FDR: 2.619e-02*  
*Coefficient: 2.40e-01*  
*N: 139*

3e-04

2e-04

1e-04

-2.0

-1.5

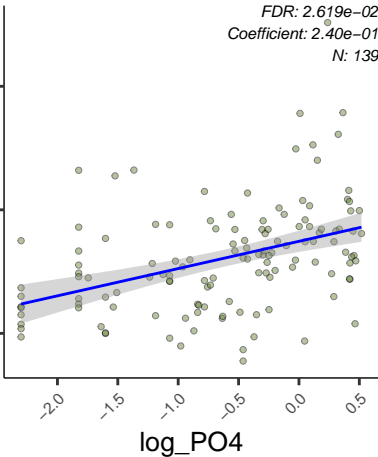
-1.0

-0.5

0.0

0.5

log\_PO4



COG4594

*FDR: 2.622e-02*  
*Coefficient: 1.65e+00*  
*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

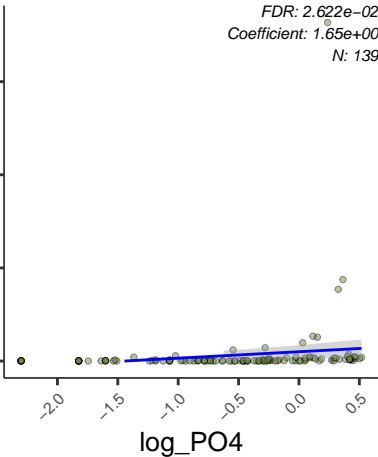
-1.0

-0.5

0.0

0.5

log\_PO4



COG4539

*FDR: 2.659e-02*  
*Coefficient: 6.04e-01*  
*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

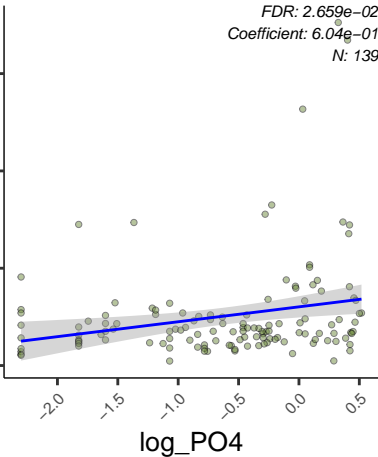
-1.0

-0.5

0.0

0.5

log\_PO4

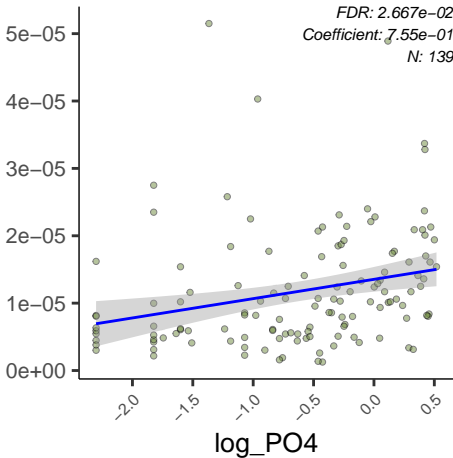


COG5525

*FDR: 2.667e-02*

*Coefficient: 7.55e-01*

*N: 139*



COG4263

*FDR: 2.677e-02*  
*Coefficient: 1.19e+00*  
*N: 139*

4e-05

3e-05

2e-05

1e-05

0e+00

-2.0

-1.5

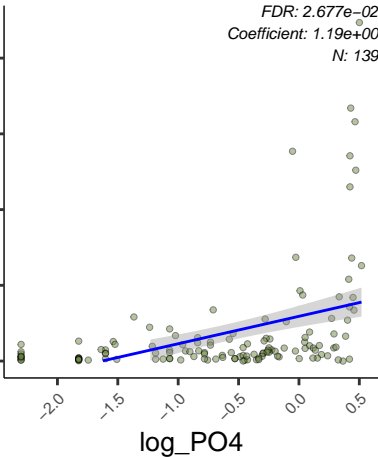
-1.0

-0.5

0.0

0.5

log\_PO4



COG3068

*FDR: 2.721e-02*  
*Coefficient: 1.37e+00*  
*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

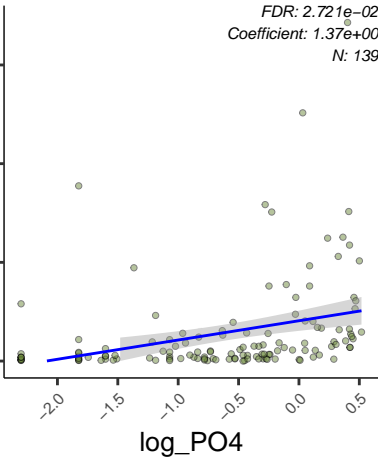
-1.0

-0.5

0.0

0.5

log\_PO4



COG2265

*FDR: 2.738e-02*  
*Coefficient: 2.27e-01*  
*N: 139*

5e-04

4e-04

3e-04

2e-04

1e-04

-2.0

-1.5

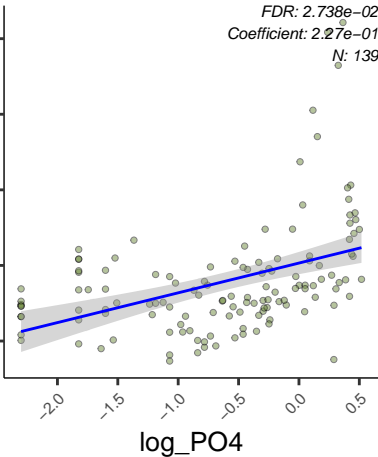
-1.0

-0.5

0.0

0.5

log\_PO4





COG1877

*FDR: 2.749e-02*

*Coefficient: -7.85e-01*

*N: 139*

7.5e-05

5.0e-05

2.5e-05

0.0e+00

-2.0

-1.5

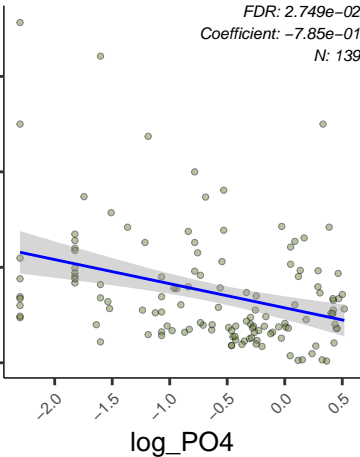
-1.0

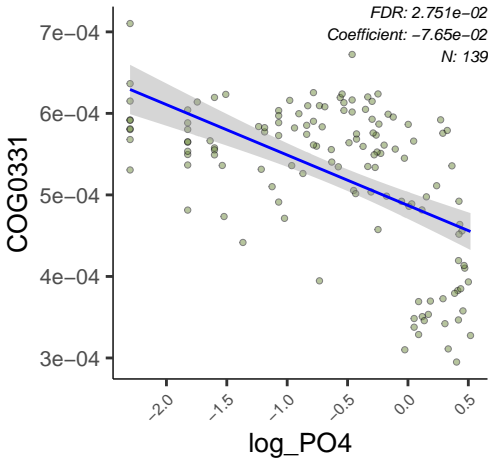
-0.5

0.0

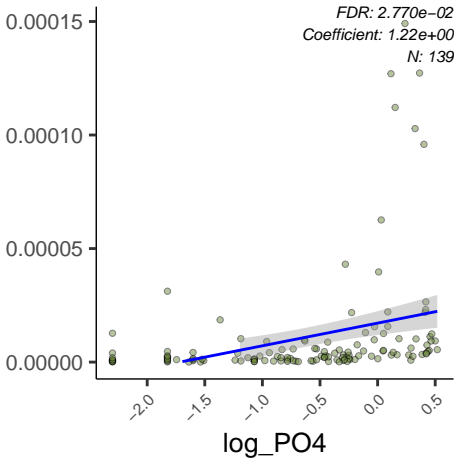
0.5

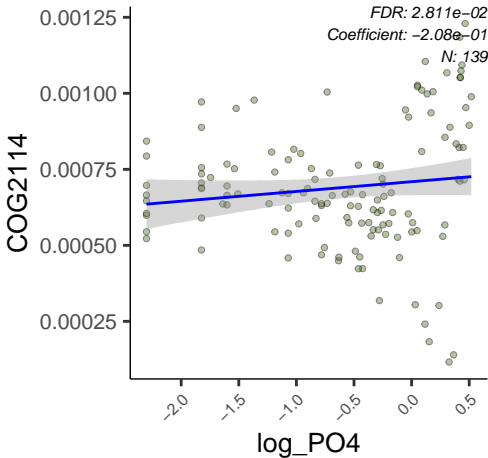
log\_PO4





COG3129





COG1819

FDR: 2.828e-02

Coefficient: -5.20e-01

N: 139

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

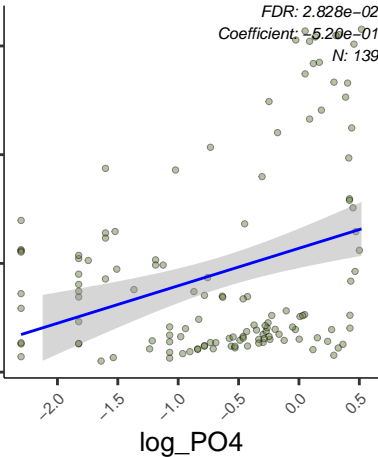
-1.0

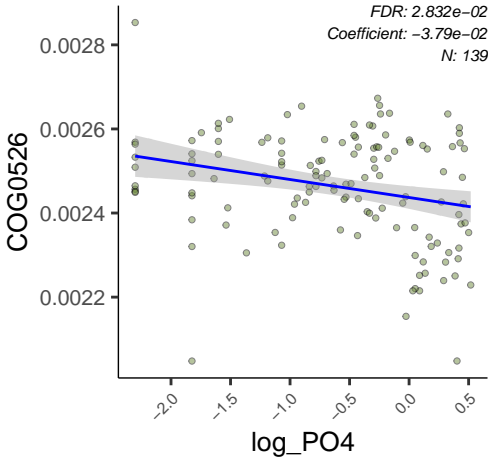
-0.5

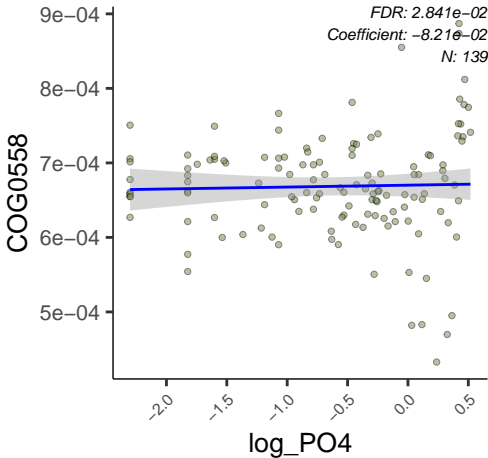
0.0

0.5

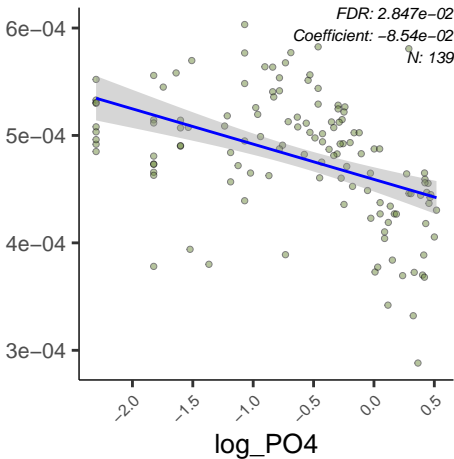
log\_PO4



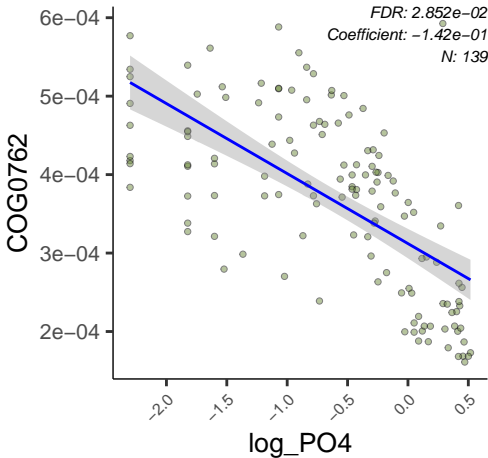




COG1354







COG4034

*FDR: 2.857e-02*

*Coefficient: -1.38e+00*

*N: 139*

9e-06

6e-06

3e-06

0e+00

-2.0

-1.5

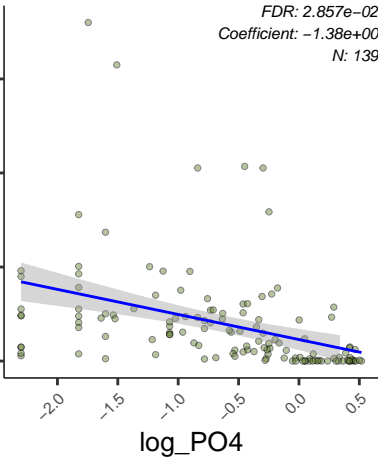
-1.0

-0.5

0.0

0.5

log\_PO4



COG2391

FDR: 2.883e-02  
Coefficient: 4.53e-01  
N: 139

3e-04

2e-04

1e-04

-2.0

-1.5

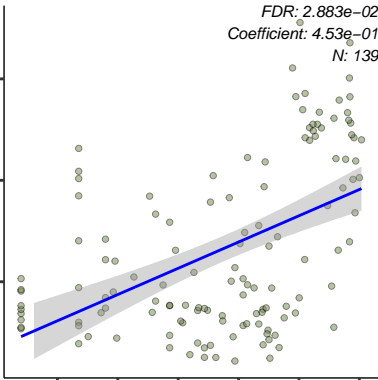
-1.0

-0.5

0.0

0.5

log\_PO4



COG3769

*FDR: 2.921e-02*

*Coefficient: -8.00e-01*

*N: 139*

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

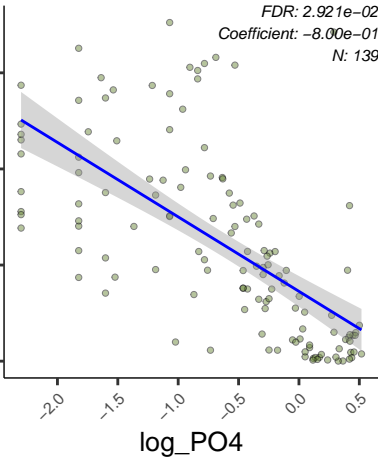
-1.0

-0.5

0.0

0.5

log\_PO4



COG1246

*FDR: 2.964e-02*  
*Coefficient: 4.74e-01*  
*N: 139*

0.00012

0.00008

0.00004

0.00000

-2.0

-1.5

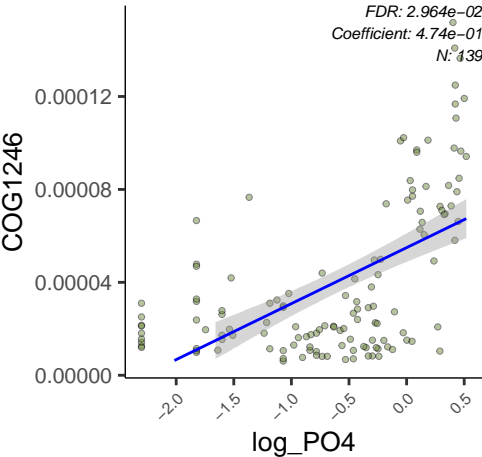
-1.0

-0.5

0.0

0.5

log\_PO4



COG0785

*FDR: 2.982e-02*

*Coefficient: -1.18e-01*

*N: 139*

4e-04

3e-04

2e-04

-2.0

-1.5

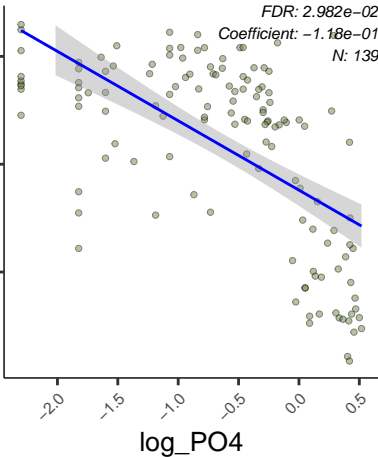
-1.0

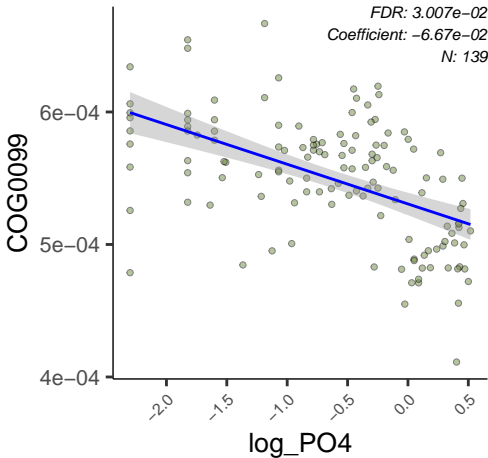
-0.5

0.0

0.5

log\_PO4





COG2838

0.00020

0.00015

0.00010

0.00005

-2.0

-1.5

-1.0

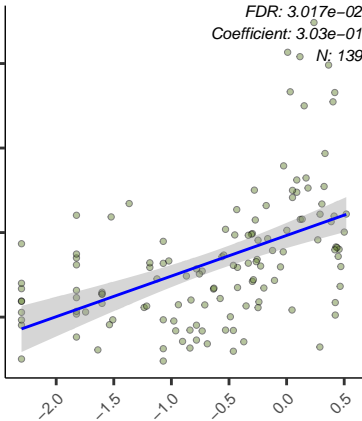
-0.5

0.0

0.5

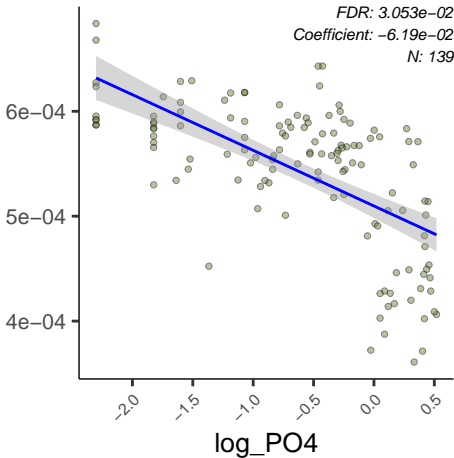
log\_PO4

*FDR: 3.017e-02*  
*Coefficient: 3.03e-01*  
*N: 139*





COG0576



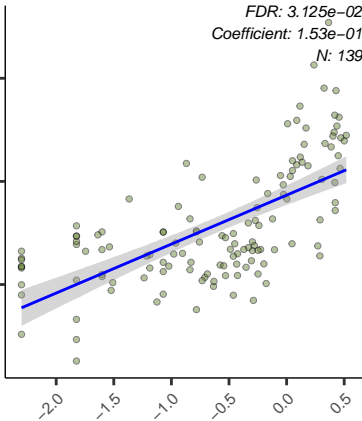
COG0308

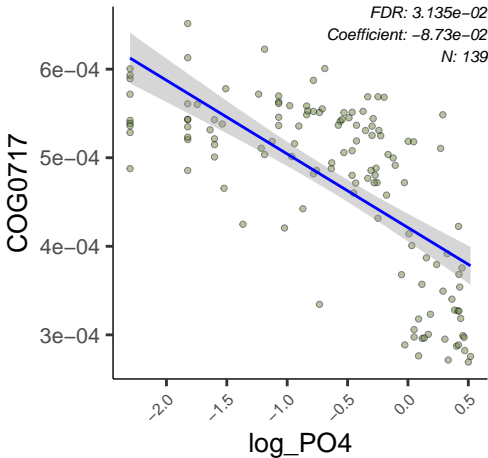
0.00100  
0.00075  
0.00050

-2.0 -1.5 -1.0 -0.5 0.0 0.5

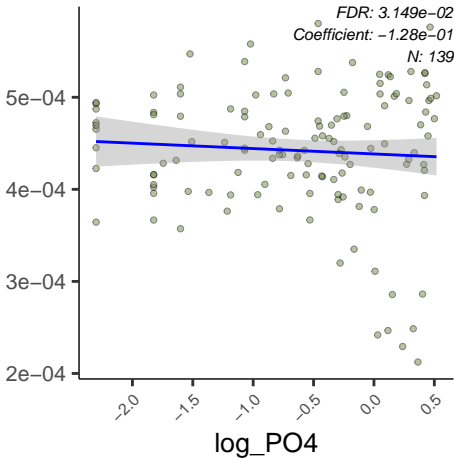
log\_PO4

*FDR: 3.125e-02*  
*Coefficient: 1.53e-01*  
*N: 139*

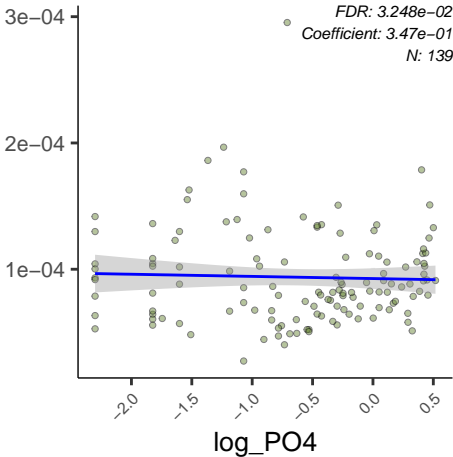


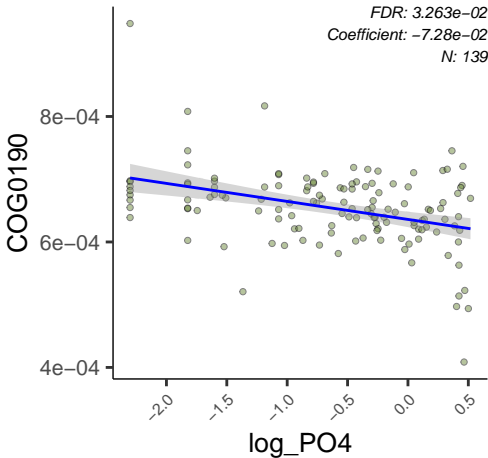


COG0852



COG2374





COG3833

*FDR: 3.372e-02*

*Coefficient: -7.11e-01*

*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

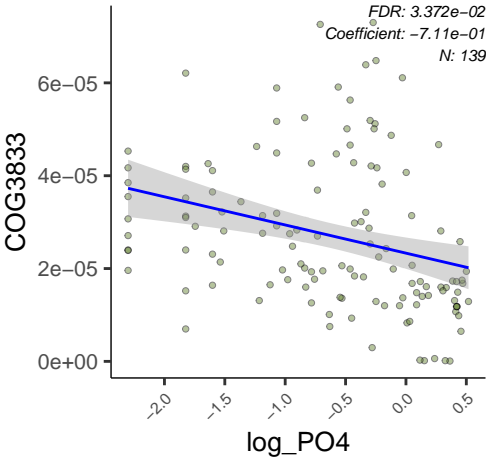
-1.0

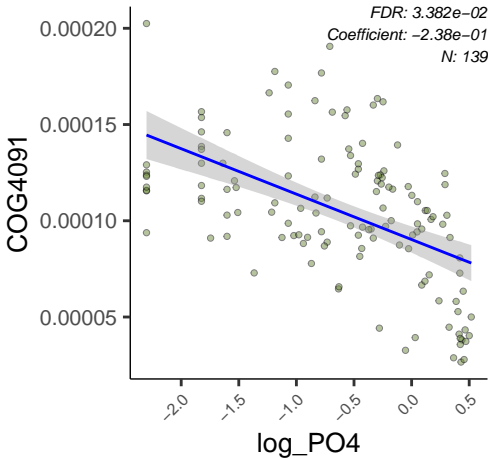
-0.5

0.0

0.5

log\_PO4







COG3487

1e-04

5e-05

0e+00

*FDR: 3.398e-02*

*Coefficient: 4.76e-01*

*N: 139*

-2.0

-1.5

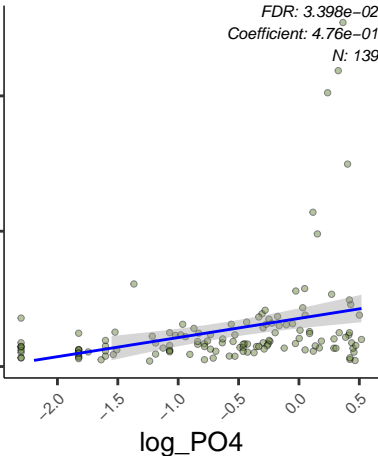
-1.0

-0.5

0.0

0.5

log\_PO4



COG1787

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

-1.0

-0.5

0.0

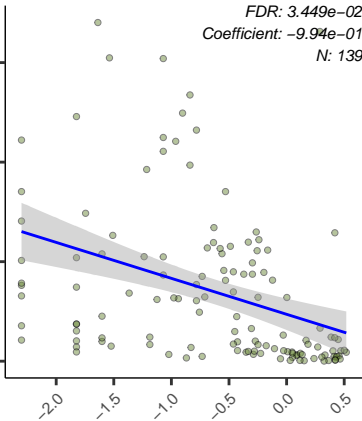
0.5

log\_PO4

FDR: 3.449e-02

Coefficient: -9.94e-01

N: 139



COG2182

FDR:  $3.487\text{e-}02$

Coefficient:  $-3.92\text{e-}01$

N: 139

$6\text{e-}05$

$4\text{e-}05$

$2\text{e-}05$

-2.0

-1.5

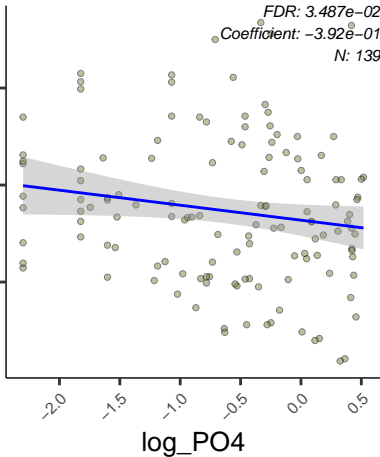
-1.0

-0.5

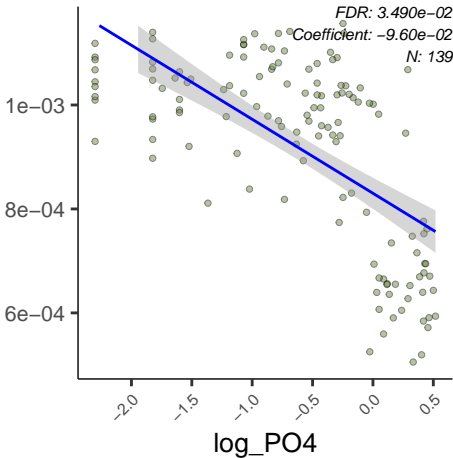
0.0

0.5

log\_PO4

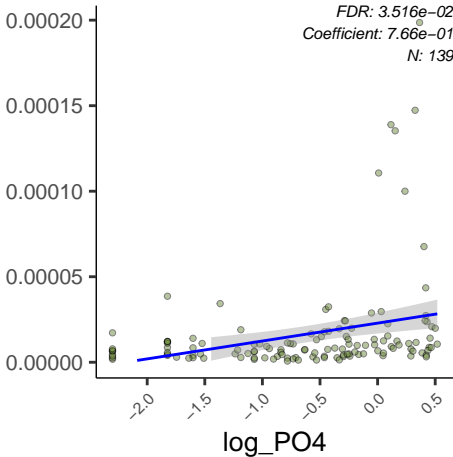


COG3288



COG3345

*FDR: 3.516e-02*  
*Coefficient: 7.66e-01*  
*N: 139*



COG2186

*FDR: 3.526e-02*  
*Coefficient: 5.25e-01*  
*N: 139*

3e-04

2e-04

1e-04

-2.0

-1.5

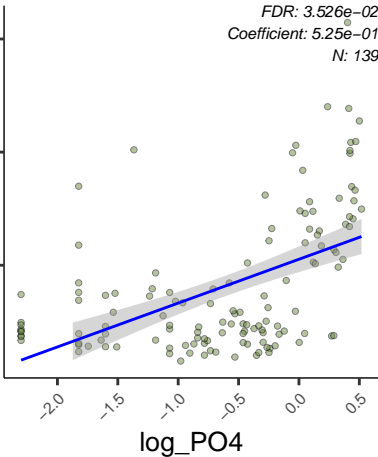
-1.0

-0.5

0.0

0.5

log\_PO4



COG3057

*FDR: 3.526e-02*  
*Coefficient: 1.60e+00*  
*N: 139*

4e-05

3e-05

2e-05

1e-05

0e+00

-2.0

-1.5

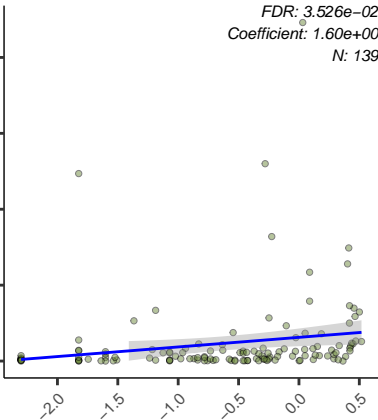
-1.0

-0.5

0.0

0.5

log\_PO4

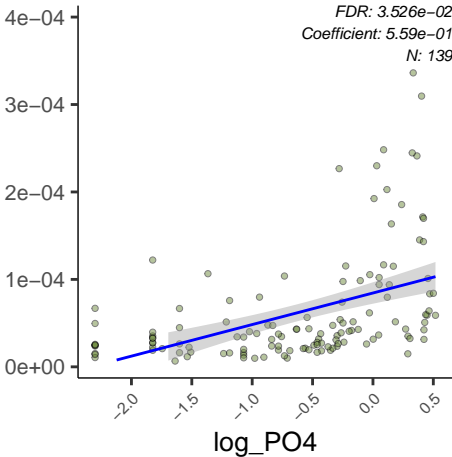


COG3279

*FDR: 3.526e-02*

*Coefficient: 5.59e-01*

*N: 139*





COG2852

*FDR: 3.530e-02*  
*Coefficient: 1.28e+00*  
*N: 139*

1e-04

5e-05

0e+00

-2.0

-1.5

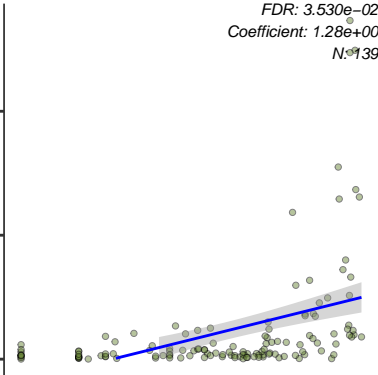
-1.0

-0.5

0.0

0.5

log\_PO4



COG2878

*FDR: 3.545e-02*  
*Coefficient: 4.06e-01*  
*N: 139*

0.00020

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

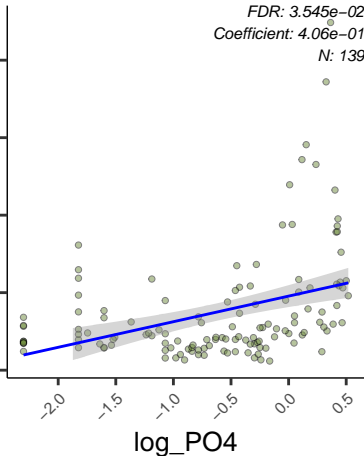
-1.0

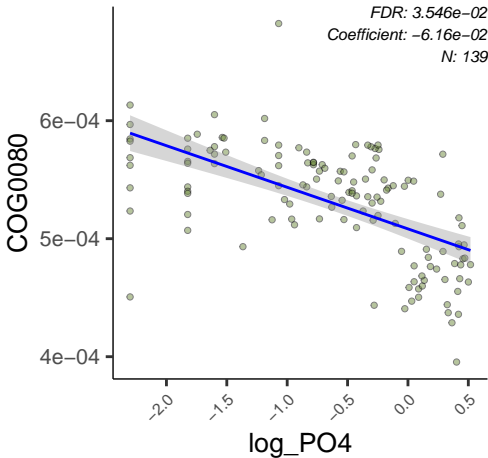
-0.5

0.0

0.5

log\_PO4





COG1716

$1e-04$

$5e-05$

$0e+00$

-2.0

-1.5

-1.0

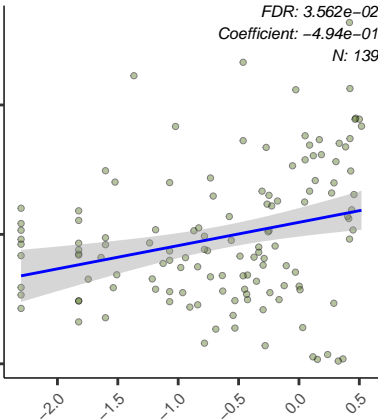
-0.5

0.0

0.5

log\_PO4

FDR:  $3.562e-02$   
Coefficient:  $-4.94e-01$   
N: 139



COG1820

0.00015

0.00010

0.00005

-2.0

-1.5

-1.0

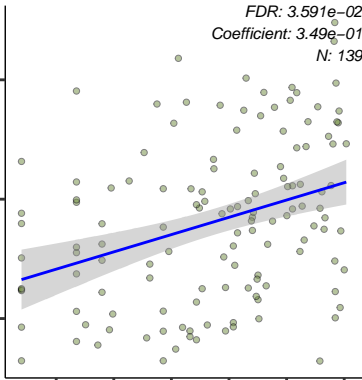
-0.5

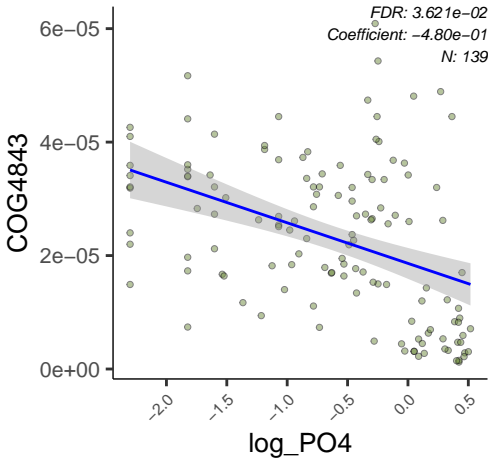
0.0

0.5

log\_PO4

*FDR: 3.591e-02*  
*Coefficient: 3.49e-01*  
*N: 139*





COG4752

*FDR: 3.651e-02*  
*Coefficient: -1.26e+00*  
*N: 139*

3e-05

2e-05

1e-05

0e+00

-2.0

-1.5

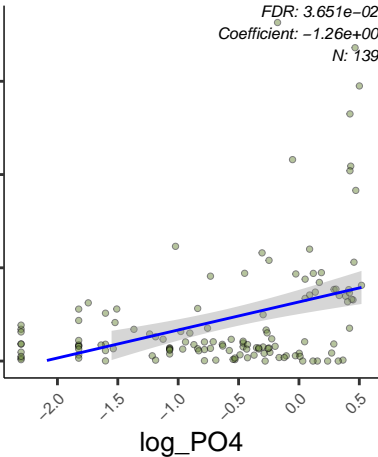
-1.0

-0.5

0.0

0.5

log\_PO4



COG1670

*FDR: 3.671e-02*  
*Coefficient: 2.58e-01*  
*N: 139*

6e-04

4e-04

2e-04

-2.0

-1.5

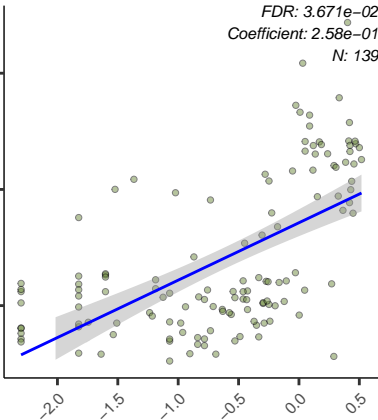
-1.0

-0.5

0.0

0.5

log\_PO4





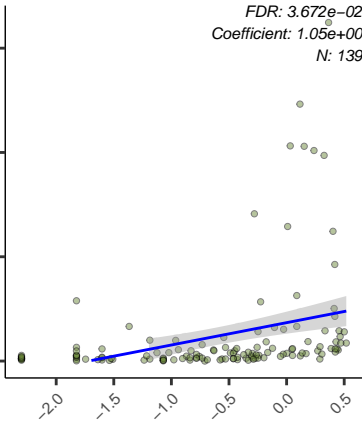
COG4628

*FDR: 3.672e-02*  
*Coefficient: 1.05e+00*  
*N: 139*

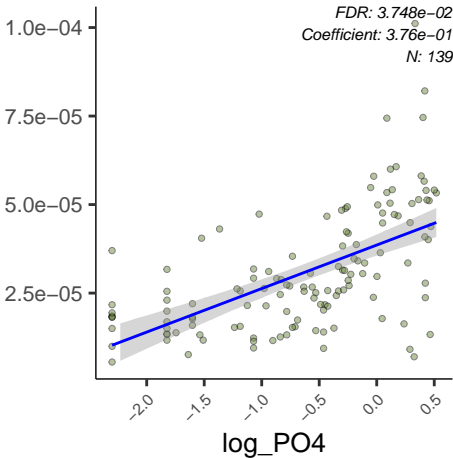
0.00015  
0.00010  
0.00005  
0.00000

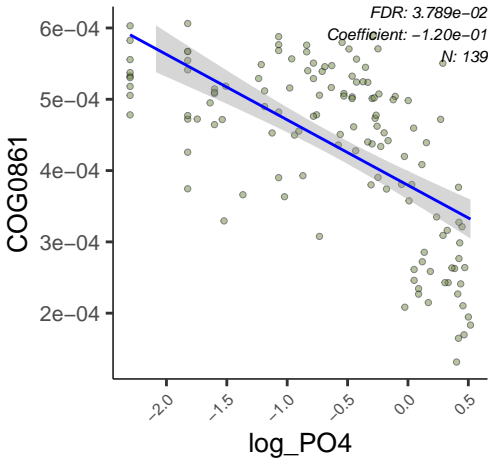
-2.0  
-1.5  
-1.0  
-0.5  
0.0  
0.5

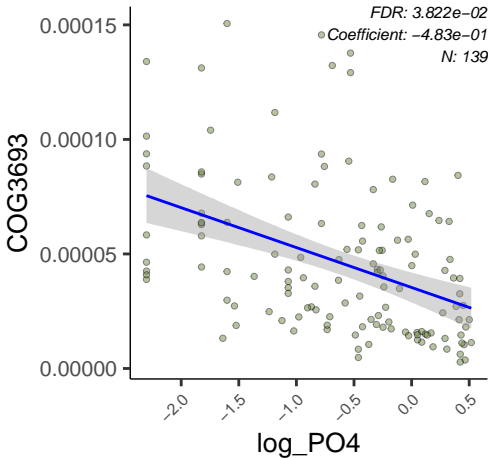
log\_PO4



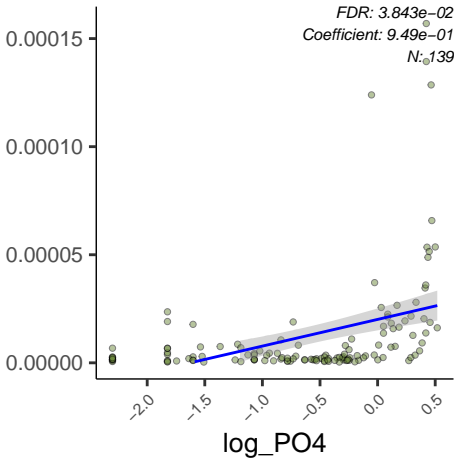
COG2373



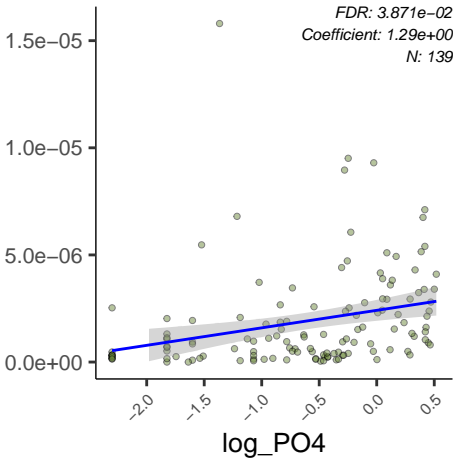




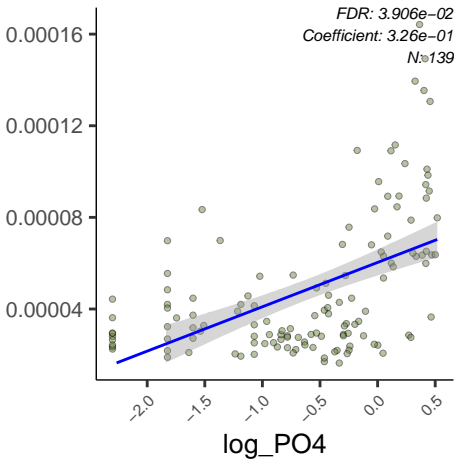
COG3677



COG4922



COG4148



COG4689

*FDR: 3.929e-02*

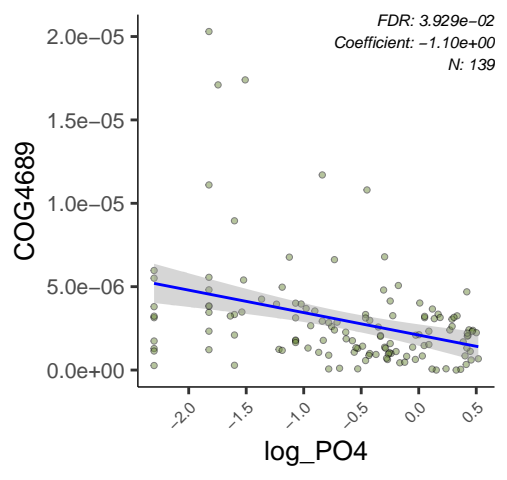
*Coefficient: -1.10e+00*

*N: 139*

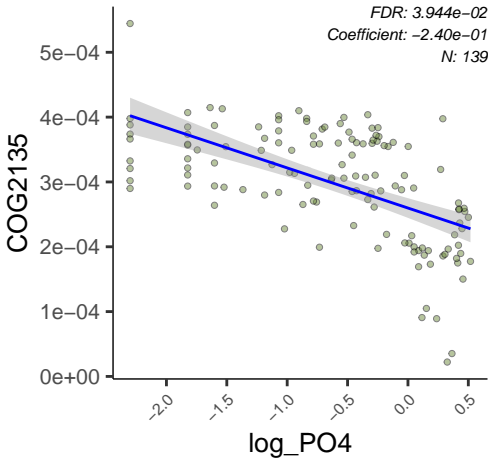
2.0e-05  
1.5e-05  
1.0e-05  
5.0e-06  
0.0e+00

-2.0 -1.5 -1.0 -0.5 0.0 0.5

log\_PO4







COG4564

*FDR: 3.952e-02*  
*Coefficient: 8.88e-01*  
*N: 139*

7.5e-05

5.0e-05

2.5e-05

0.0e+00

-2.0

-1.5

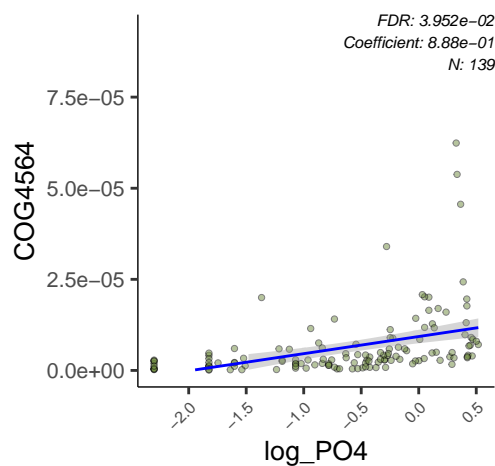
-1.0

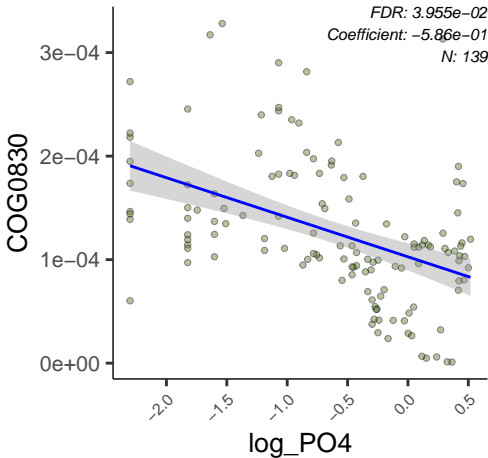
-0.5

0.0

0.5

log\_PO4





COG5026

*FDR: 3.969e-02*

*Coefficient: -1.50e+00*

*N: 139*

2.0e-06

1.5e-06

1.0e-06

5.0e-07

0.0e+00

-2.0

-1.5

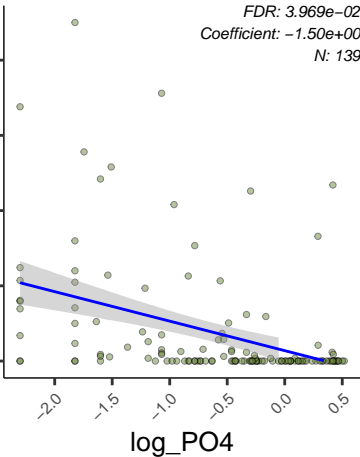
-1.0

-0.5

0.0

0.5

log\_PO4



COG2833

*FDR: 3.994e-02*  
*Coefficient: 6.07e-01*  
*N: 139*

1e-04

5e-05

0e+00

-2.0

-1.5

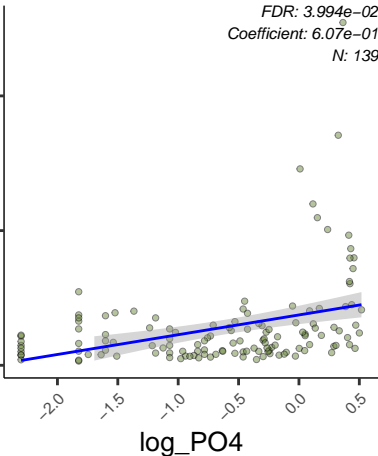
-1.0

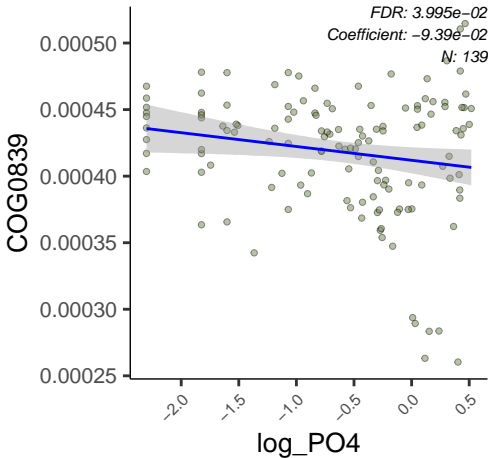
-0.5

0.0

0.5

log\_PO4





COG2983

*FDR: 3.999e-02*  
*Coefficient: 3.04e-01*  
*N: 139*

0.00015

0.00010

0.00005

-2.0

-1.5

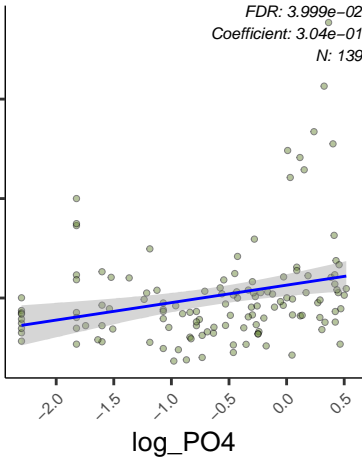
-1.0

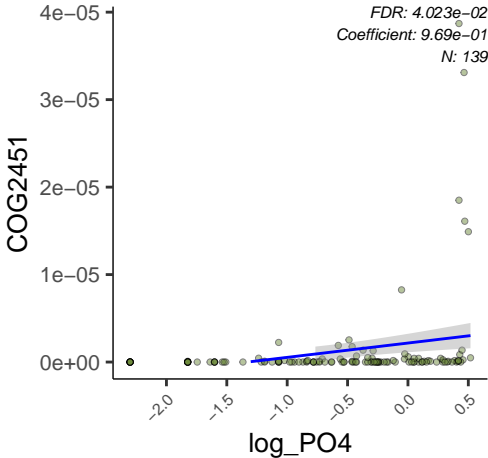
-0.5

0.0

0.5

log\_PO4







COG2826

*FDR: 4.035e-02*  
*Coefficient: 9.61e-01*  
*N: 139*

4e-04

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

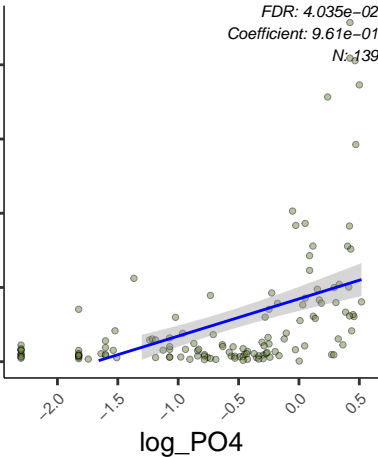
-1.0

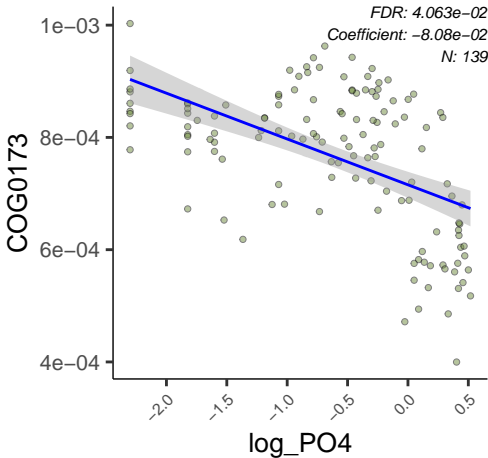
-0.5

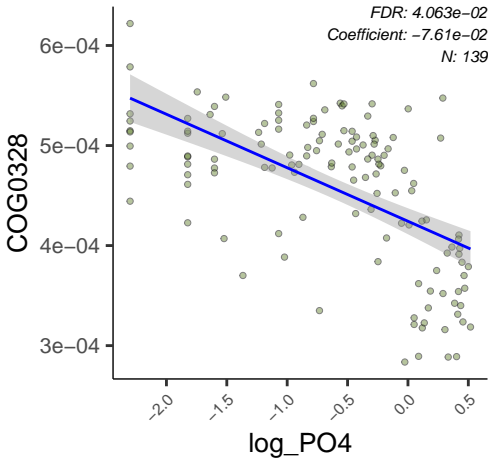
0.0

0.5

log\_PO4







COG3460

*FDR: 4.111e-02*  
*Coefficient: 3.07e-01*  
*N: 139*

7.5e-05

5.0e-05

2.5e-05

-2.0

-1.5

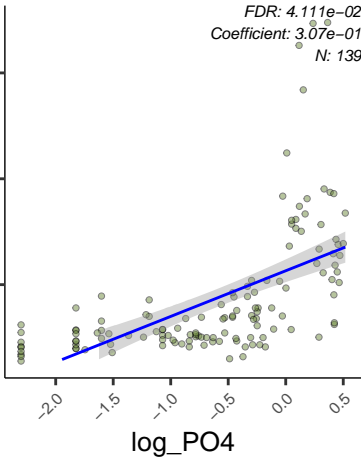
-1.0

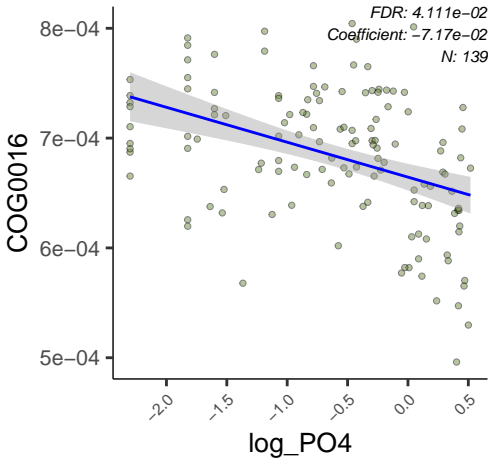
-0.5

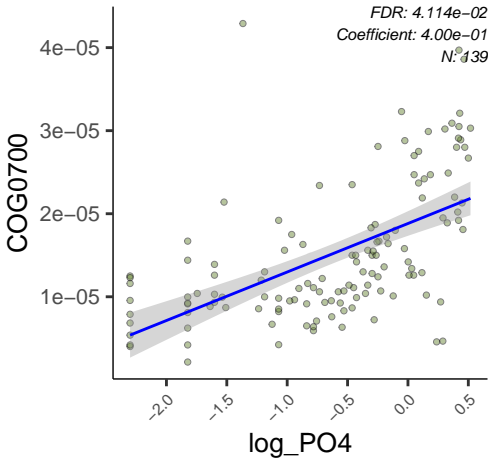
0.0

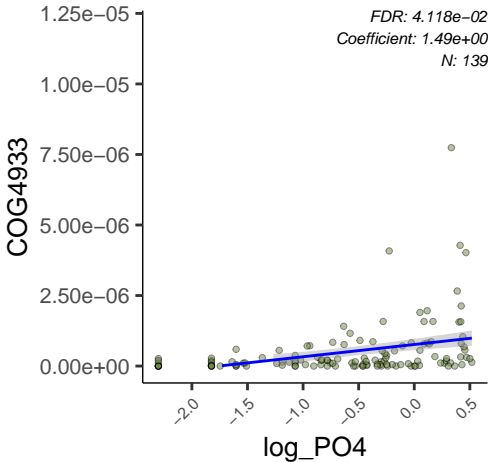
0.5

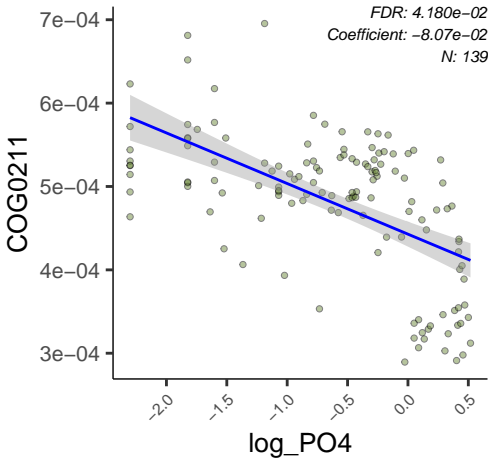
log\_PO4





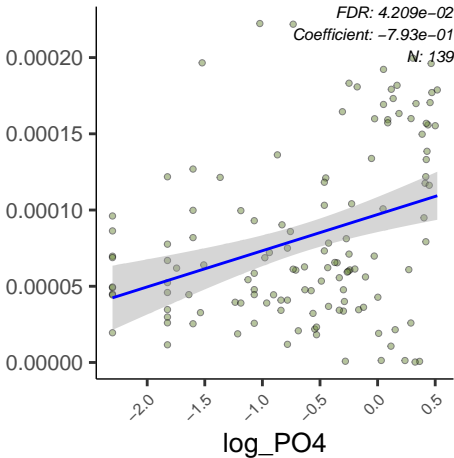








COG0311



COG1965

*FDR: 4.212e-02*  
*Coefficient: 5.61e-01*  
*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

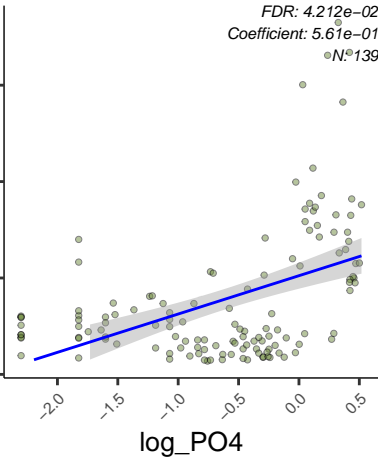
-1.0

-0.5

0.0

0.5

log\_PO4



COG3656

FDR: 4.290e-02  
Coefficient: 1.08e+00  
N: 139

4e-05

2e-05

0e+00

-2.0

-1.5

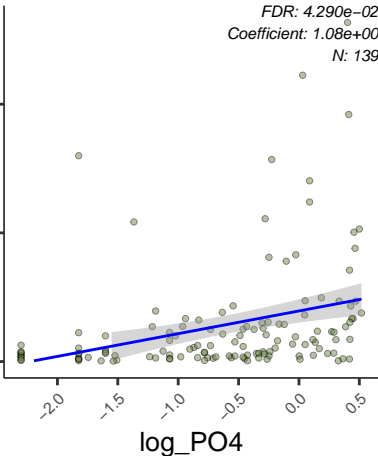
-1.0

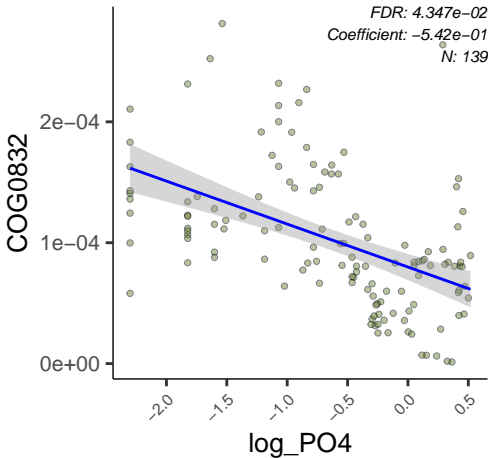
-0.5

0.0

0.5

log\_PO4





COG3708

*FDR: 4.400e-02*

*Coefficient: 1.01e+00*

*N: 139*

6e-05

4e-05

2e-05

0e+00

-2.0

-1.5

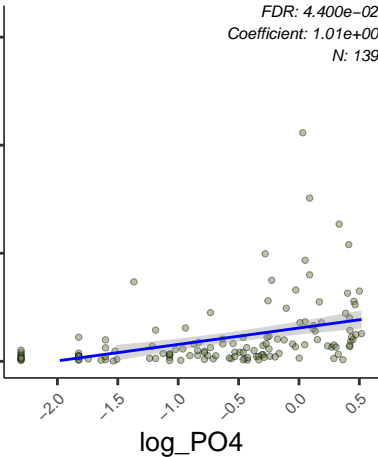
-1.0

-0.5

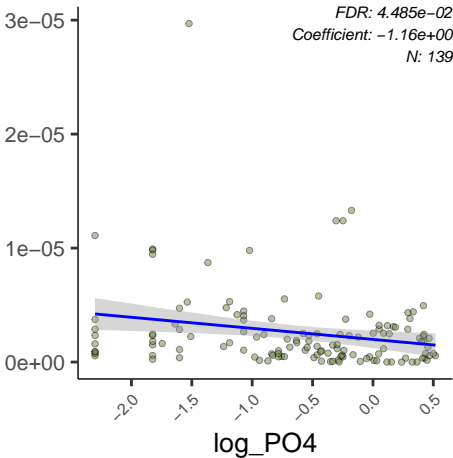
0.0

0.5

log\_PO4



COG4819



COG5427

*FDR: 4.532e-02*

*Coefficient: -1.75e+00*

*N: 139*

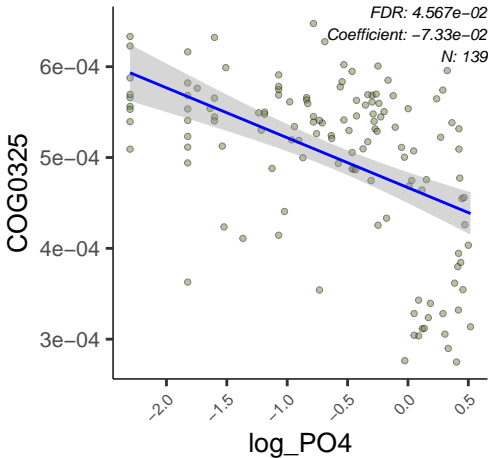
6e-05

4e-05

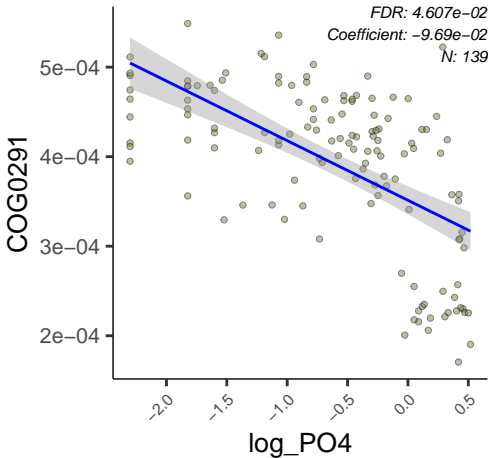
2e-05

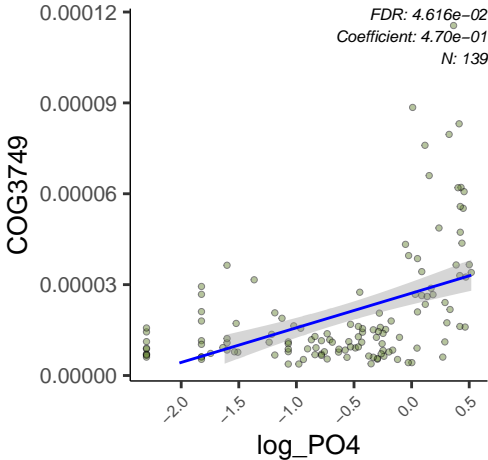
0e+00

log\_PO4

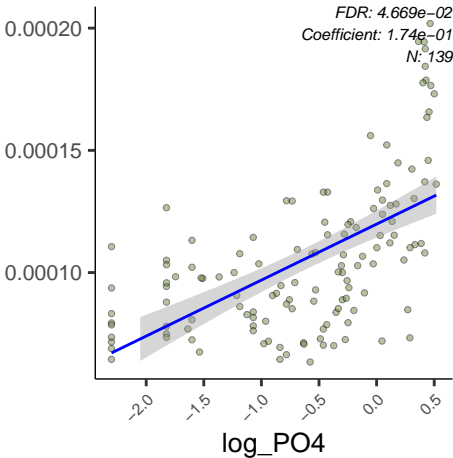








COG2137



COG1737

*FDR: 4.673e-02*  
*Coefficient: 4.08e-01*  
*N: 139*

3e-04

2e-04

1e-04

0e+00

-2.0

-1.5

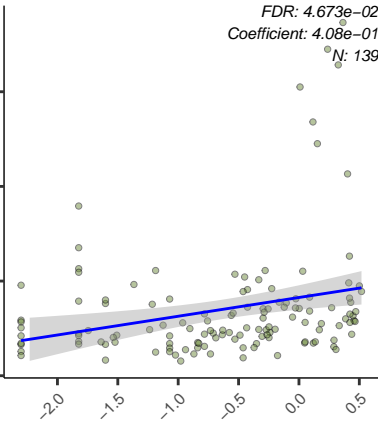
-1.0

-0.5

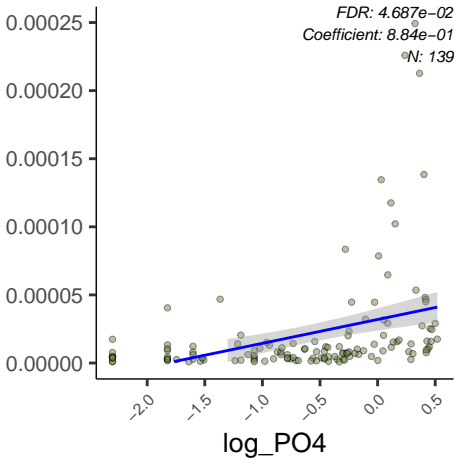
0.0

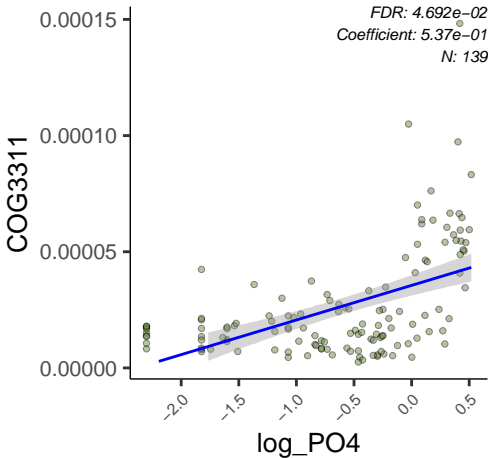
0.5

log\_PO4



COG2824





COG2202

*FDR: 4.706e-02*  
*Coefficient: 6.01e-01*  
*N: 139*

0.0015

0.0010

0.0005

0.0000

-2.0

-1.5

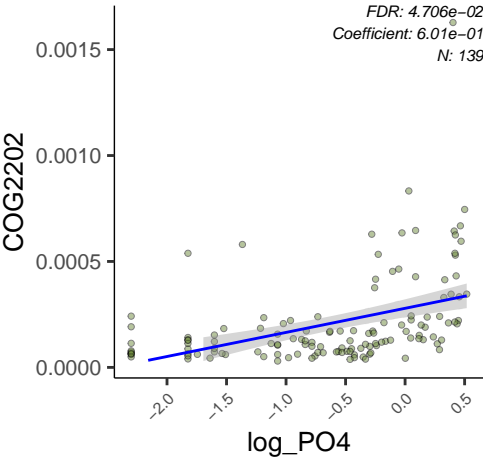
-1.0

-0.5

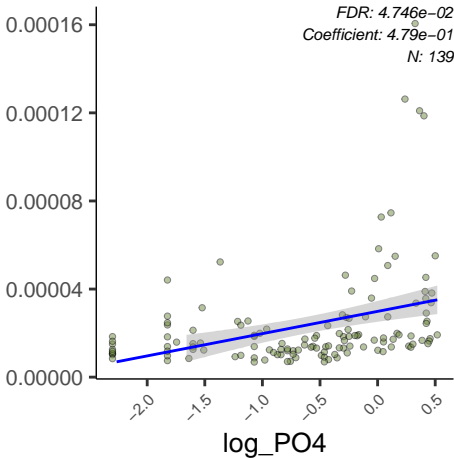
0.0

0.5

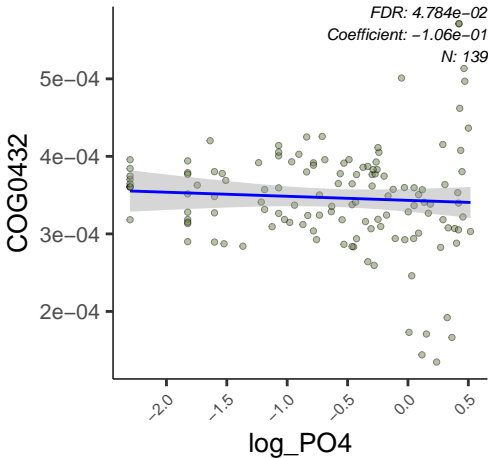
log\_PO4



COG2981







COG2969

*FDR: 4.791e-02*  
*Coefficient: 4.01e-01*  
*N: 139*

0.00015

0.00010

0.00005

0.00000

-2.0

-1.5

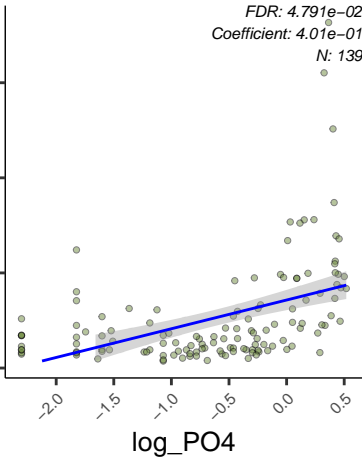
-1.0

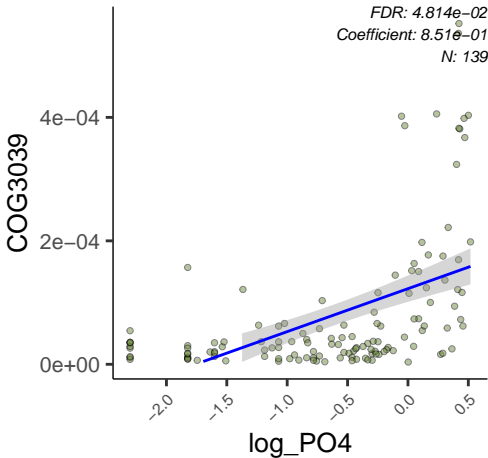
-0.5

0.0

0.5

log\_PO4





COG3187

FDR:  $4.827e-02$   
Coefficient:  $9.65e-01$   
N: 139

$6e-05$

$4e-05$

$2e-05$

$0e+00$

-2.0

-1.5

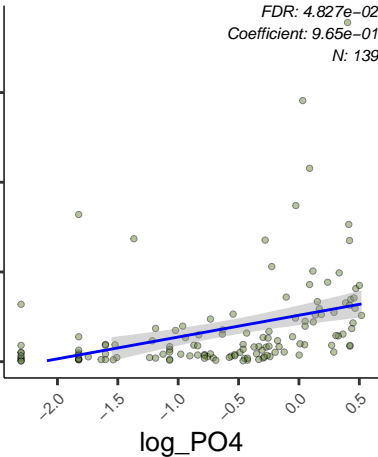
-1.0

-0.5

0.0

0.5

log\_PO4



COG3784

*FDR: 4.836e-02*  
*Coefficient: 9.43e-01*  
*N: 139*

5e-05

4e-05

3e-05

2e-05

1e-05

0e+00

-2.0

-1.5

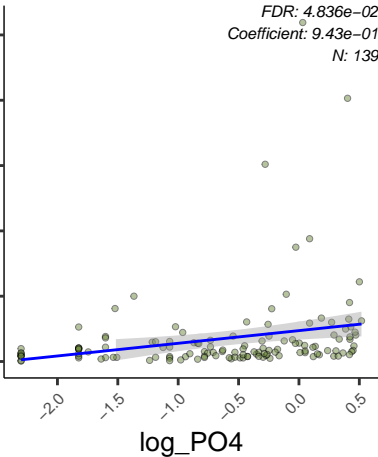
-1.0

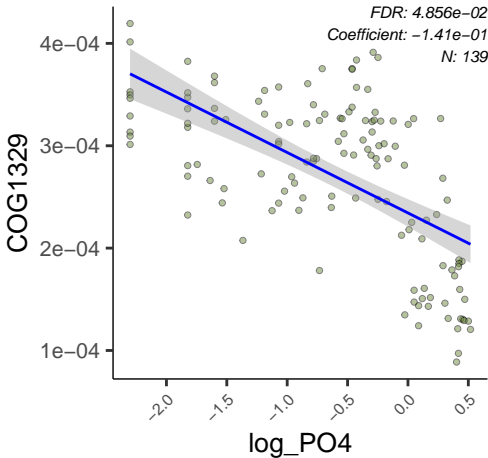
-0.5

0.0

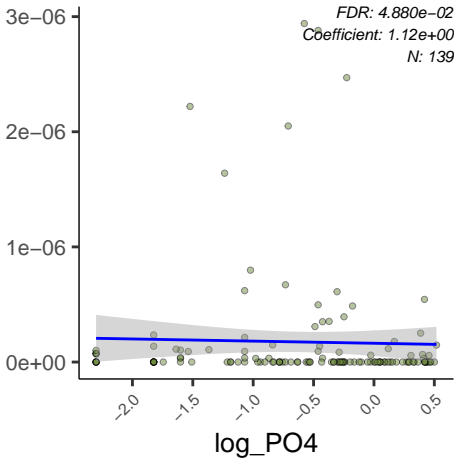
0.5

log\_PO4

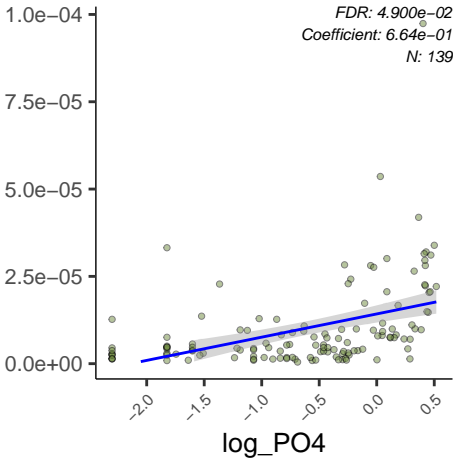




COG4044



COG3117





COG1757

4e-04

3e-04

2e-04

1e-04

-2.0

-1.5

-1.0

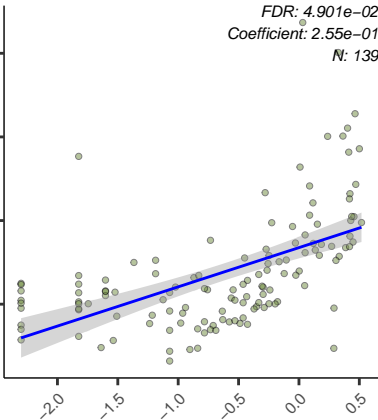
-0.5

0.0

0.5

log\_PO4

FDR: 4.901e-02  
Coefficient: 2.55e-01  
N: 139



COG4953

FDR:  $4.901\text{e-}02$   
Coefficient:  $3.82\text{e-}01$   
N: 139

$4\text{e-}05$

$3\text{e-}05$

$2\text{e-}05$

$1\text{e-}05$

-2.0

-1.5

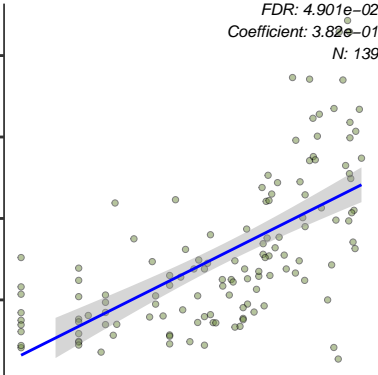
-1.0

-0.5

0.0

0.5

log\_PO4



COG2938

*FDR: 4.905e-02*  
*Coefficient: 2.25e-01*  
*N: 139*

0.00012

0.00008

0.00004

-2.0

-1.5

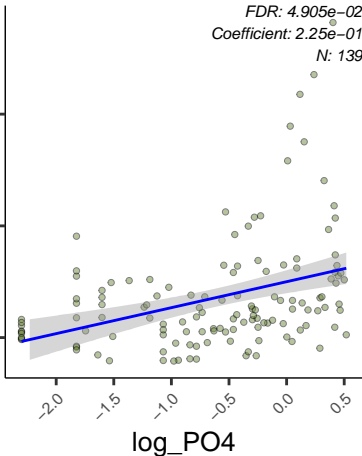
-1.0

-0.5

0.0

0.5

log\_PO4



COG3203

*FDR: 4.910e-02*  
*Coefficient: 4.62e-01*  
*N: 139*

9e-05

6e-05

3e-05

0e+00

-2.0

-1.5

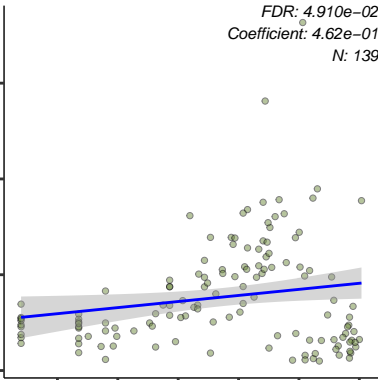
-1.0

-0.5

0.0

0.5

log\_PO4



COG2761

*FDR: 4.910e-02*  
*Coefficient: 2.63e-01*  
*N: 139*

2e-04

1e-04

-2.0

-1.5

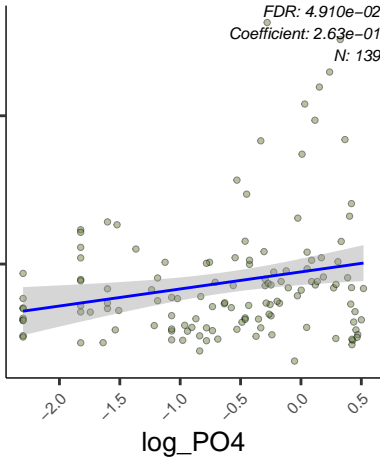
-1.0

-0.5

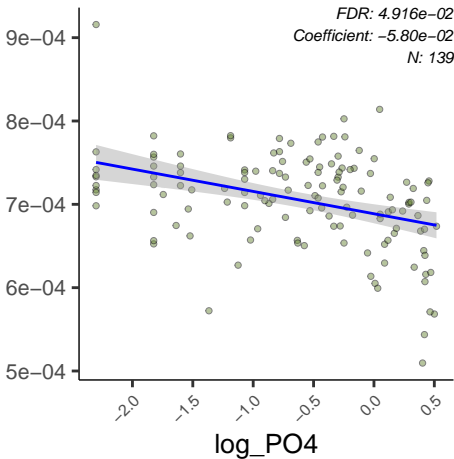
0.0

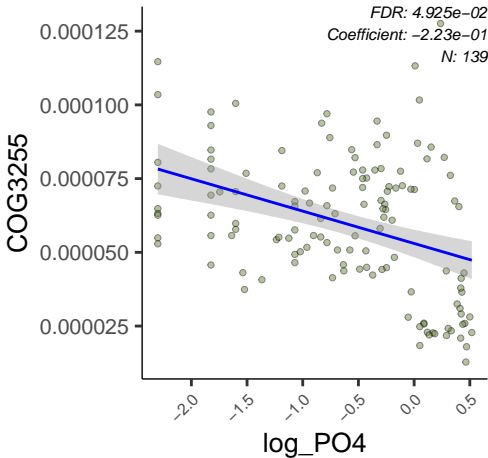
0.5

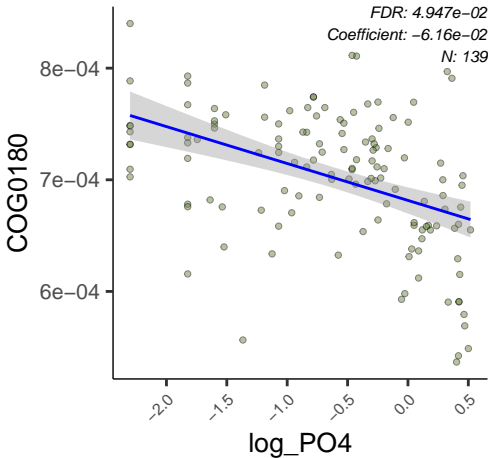
log\_PO4



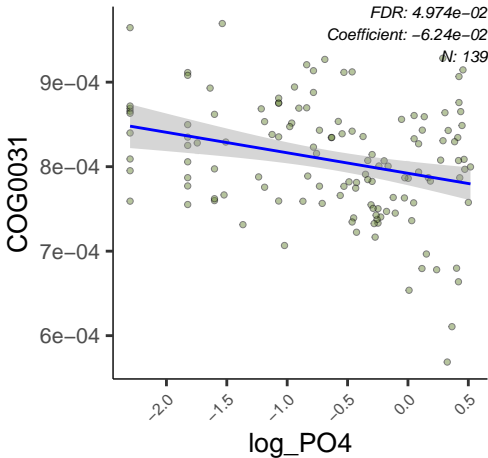
COG0533











COG3106

*FDR: 4.986e-02*  
*Coefficient: 1.08e+00*  
*N: 139*

