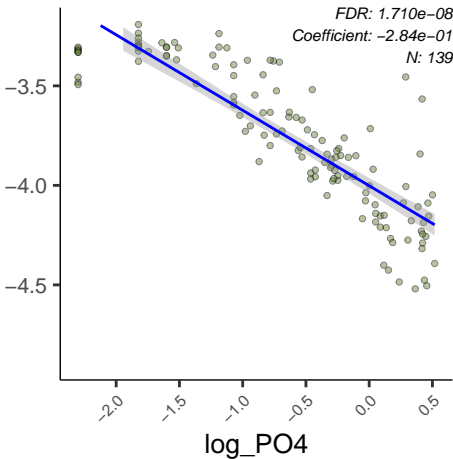
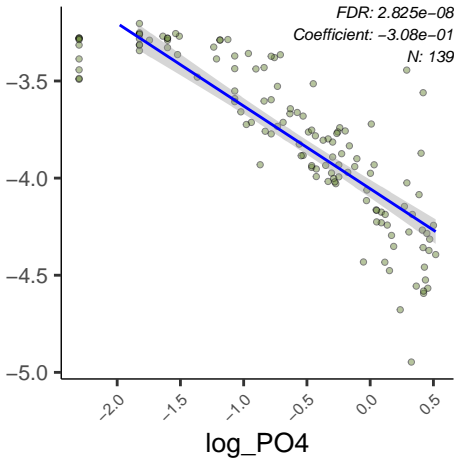


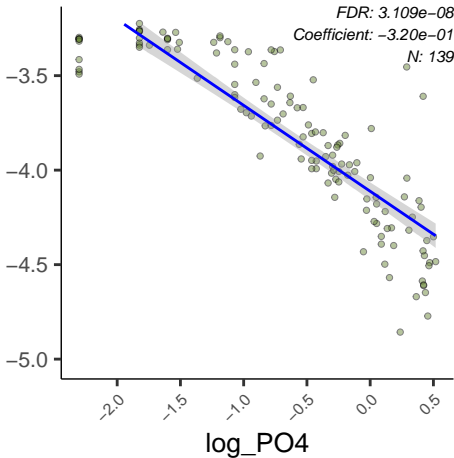
COG1117



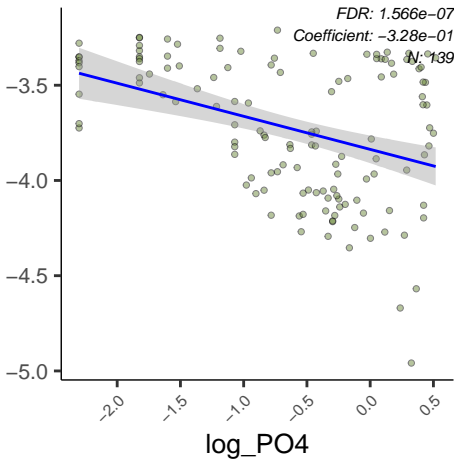
COG0581

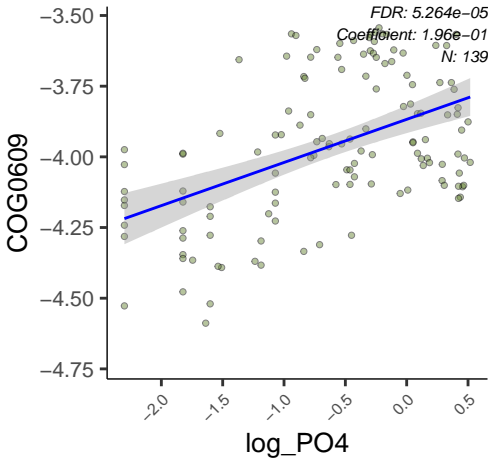


COG0573

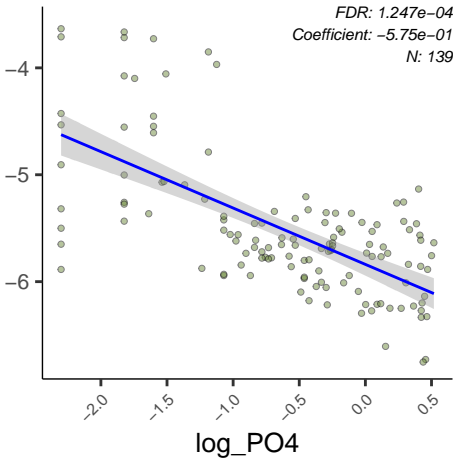


COG0704

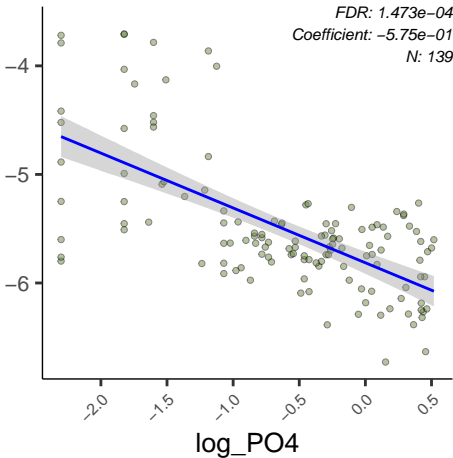




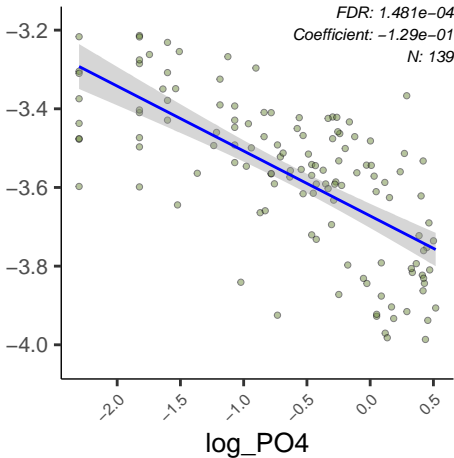
COG4107



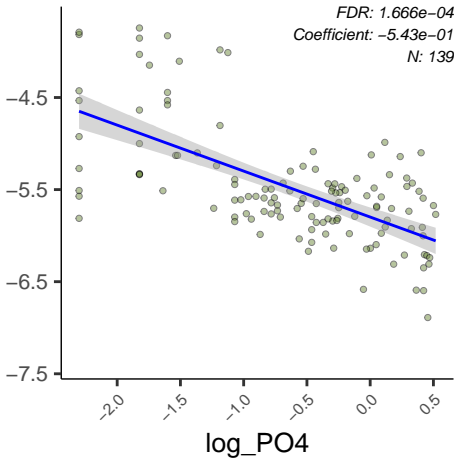
COG3627



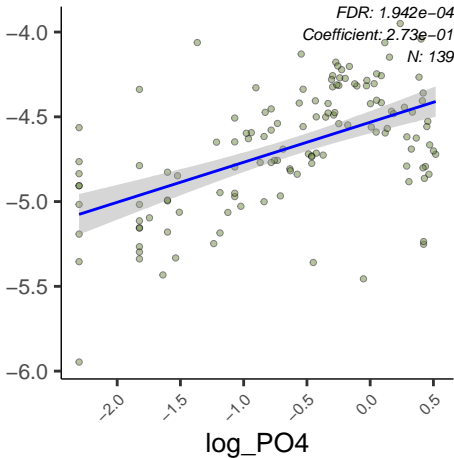
COG0248



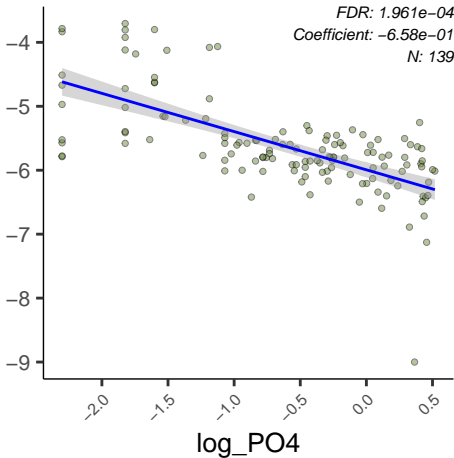
COG4778



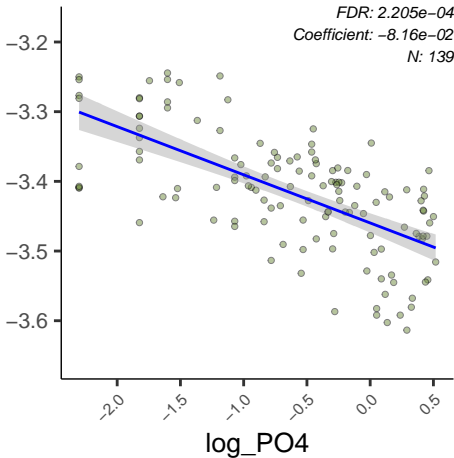
COG2375



COG3624



COG0394



COG0306

FDR: 2.255e-04

Coefficient: 1.04e-01

N: 139

-3.6

-3.8

-4.0

-2.0

-1.5

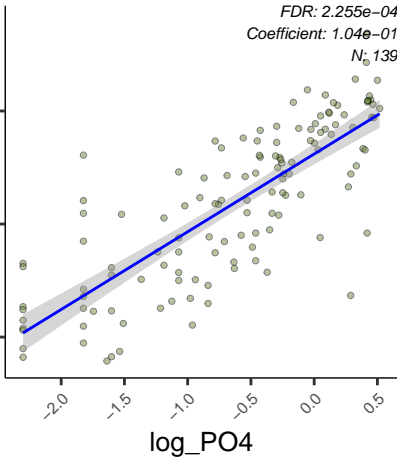
-1.0

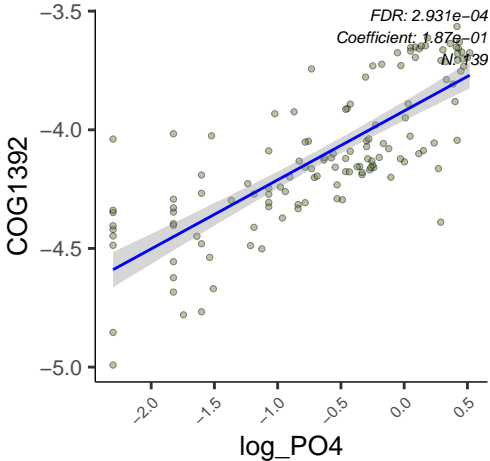
-0.5

0.0

0.5

log_PO4



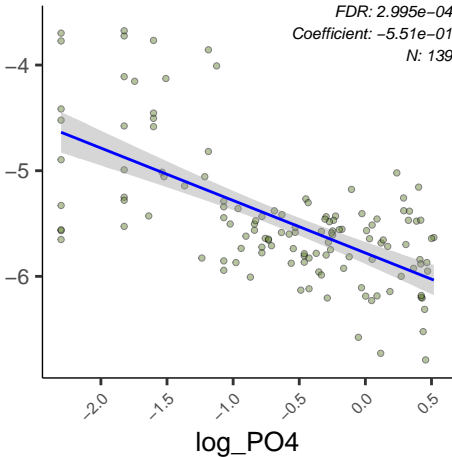


COG3626

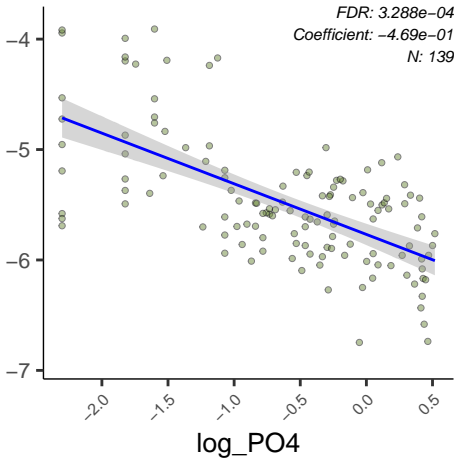
FDR: 2.995e-04

Coefficient: -5.51e-01

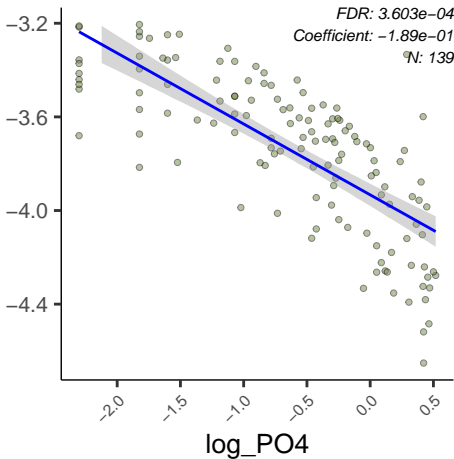
N: 139



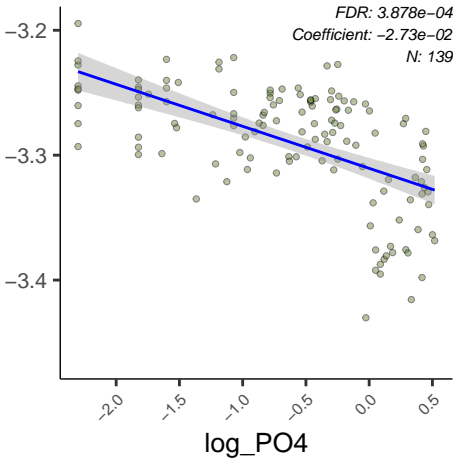
COG3709



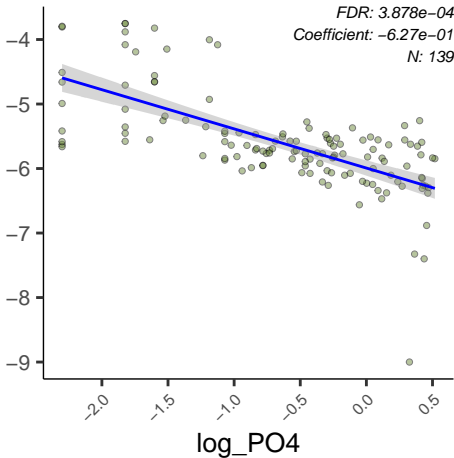
COG0855



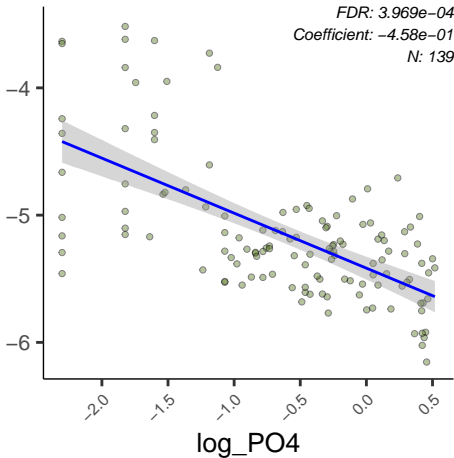
COG0103



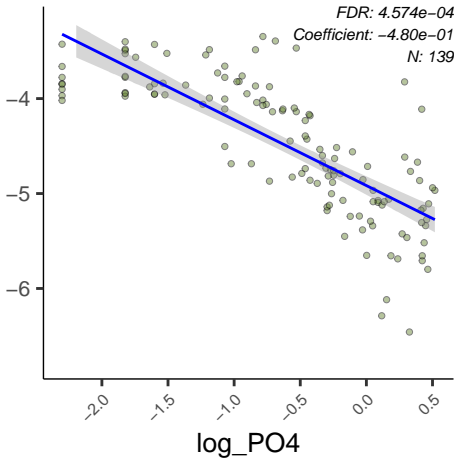
COG3625

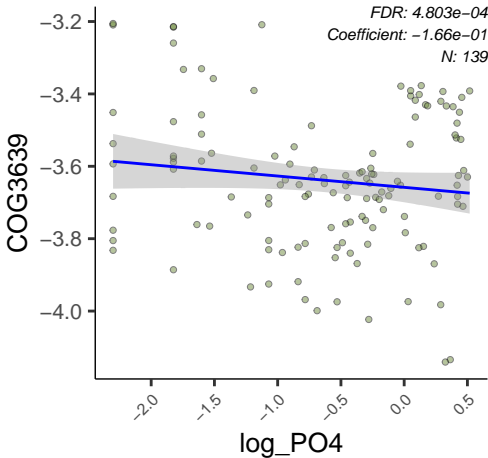


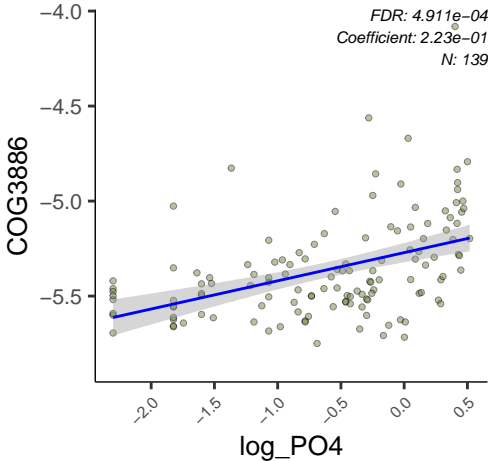
COG3454



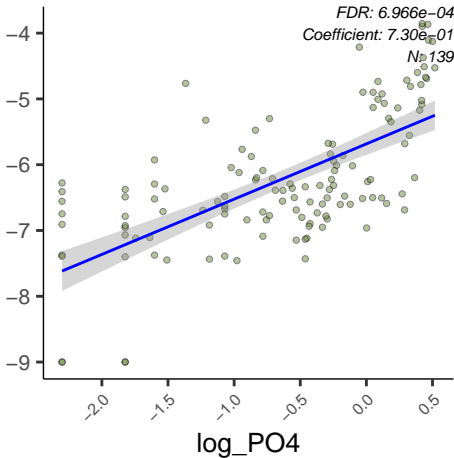
COG3484

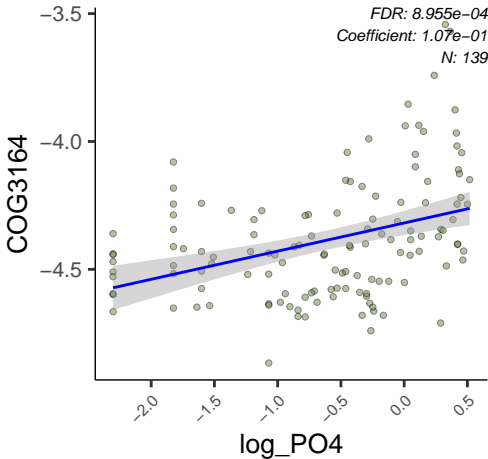




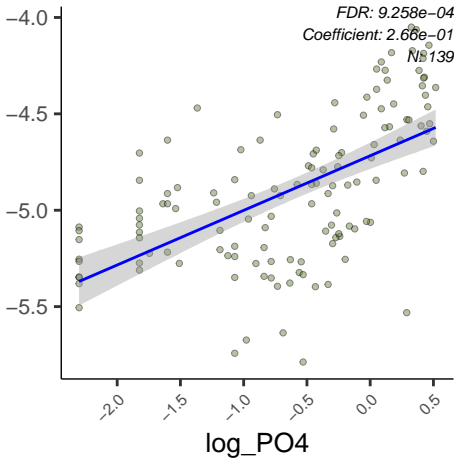


COG4832

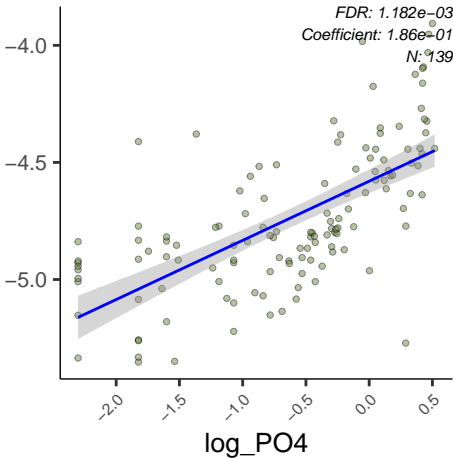




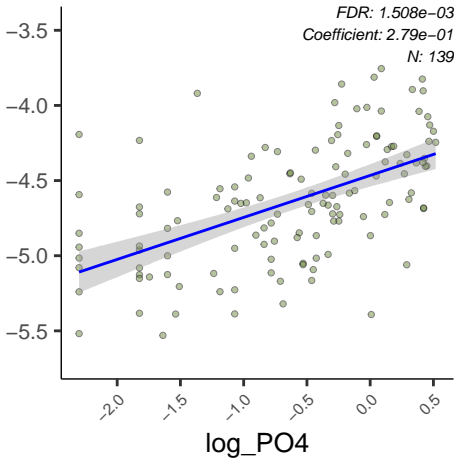
COG3655



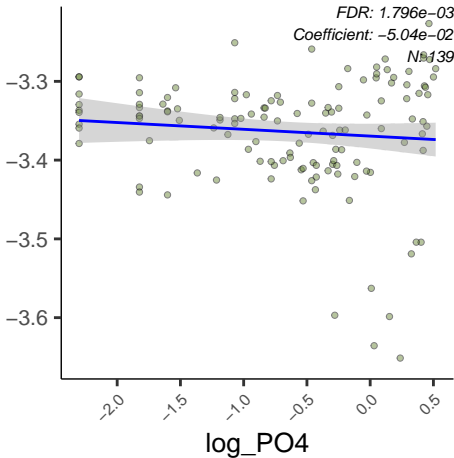
COG1887



COG3182



COG0377



COG3296

-5

-6

-7

-2.0

-1.5

-1.0

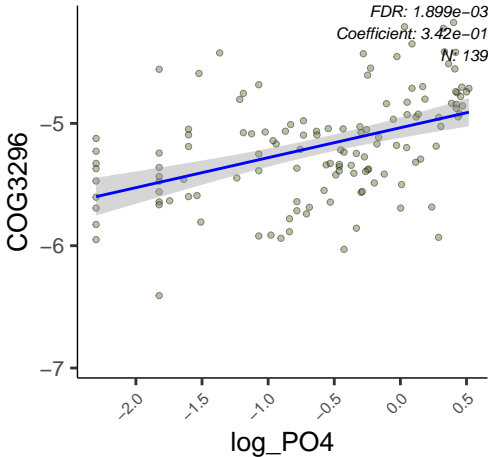
-0.5

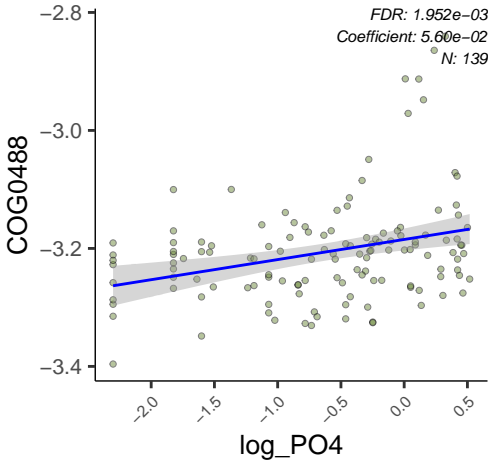
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0.5

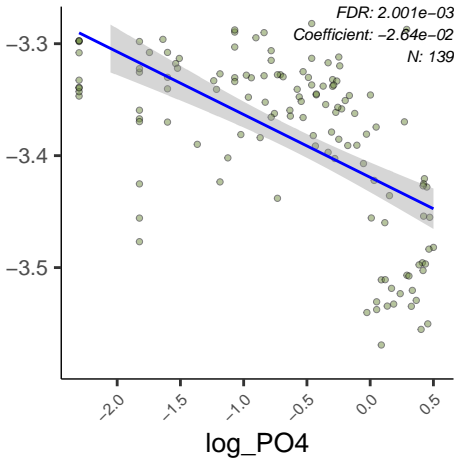
log_PO4

FDR: 1.899e-03
Coefficient: 3.42e-01
N: 139

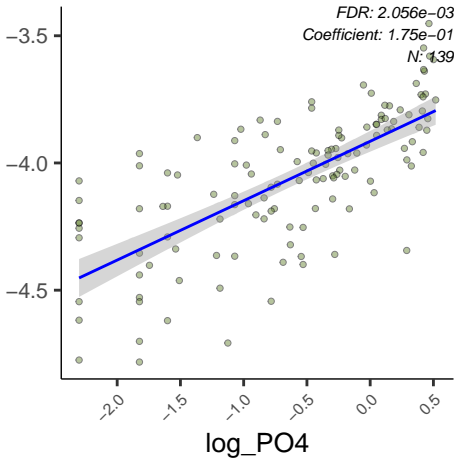




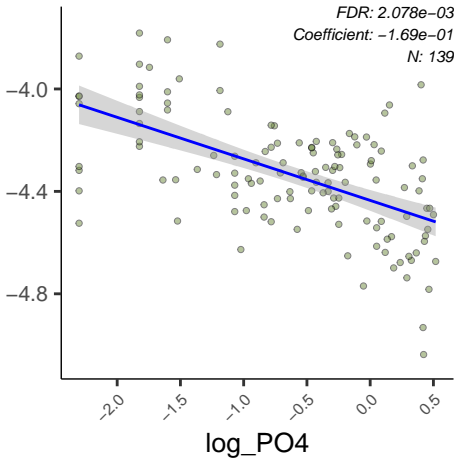
COG1546



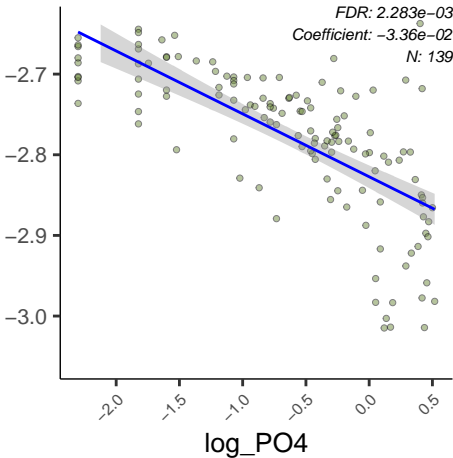
COG1283

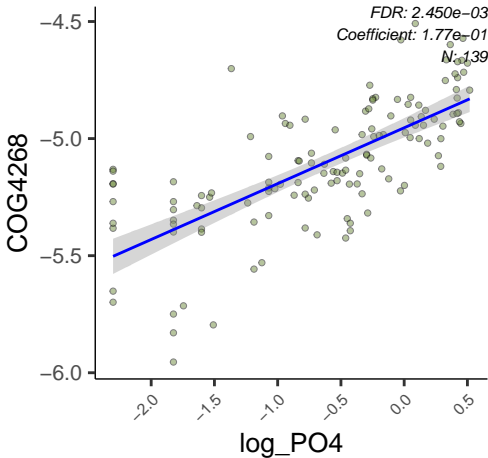


COG4247

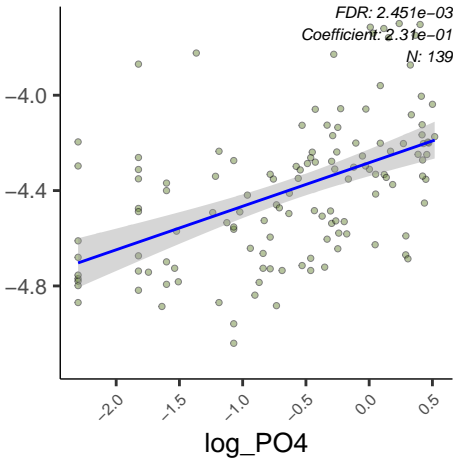


COG0745

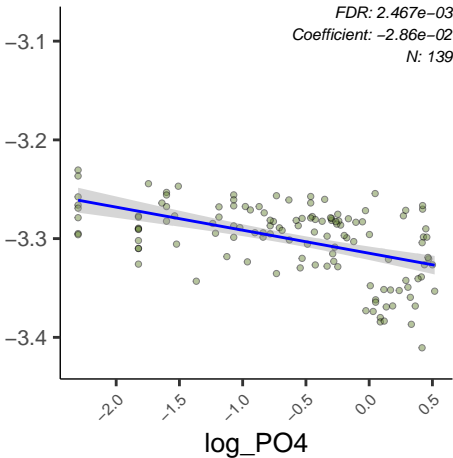




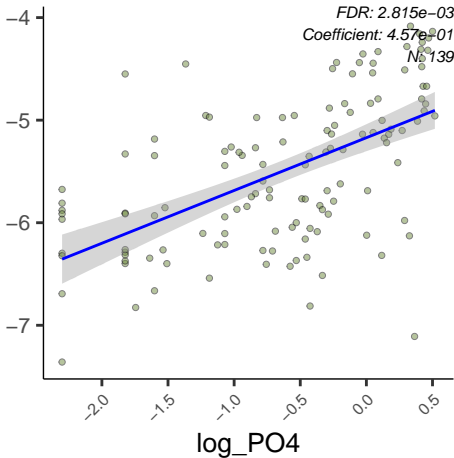
COG1349



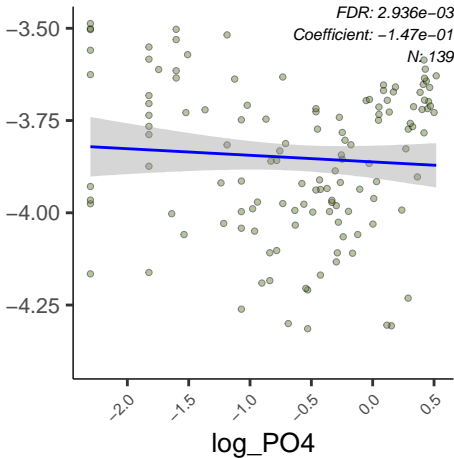
COG0105



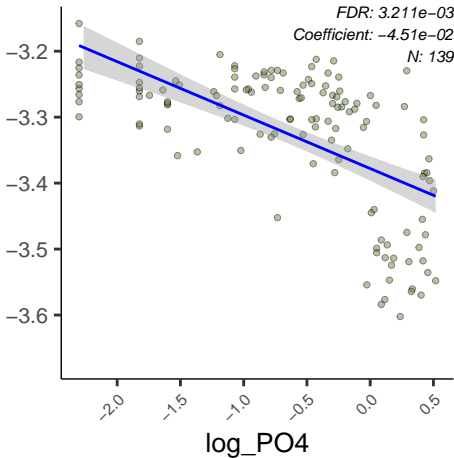
COG5421



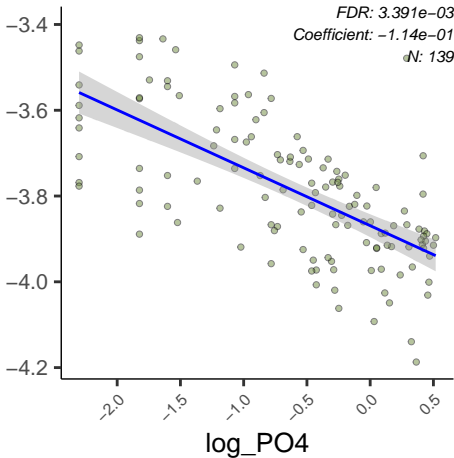
COG1597



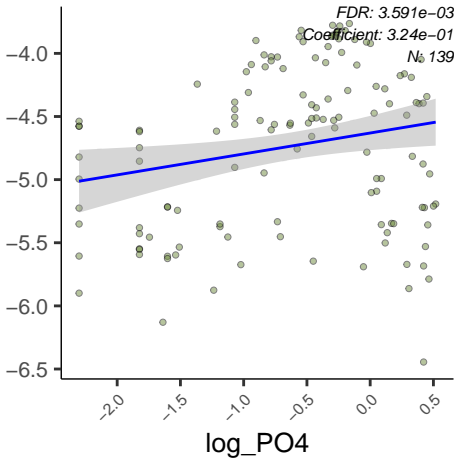
COG1403



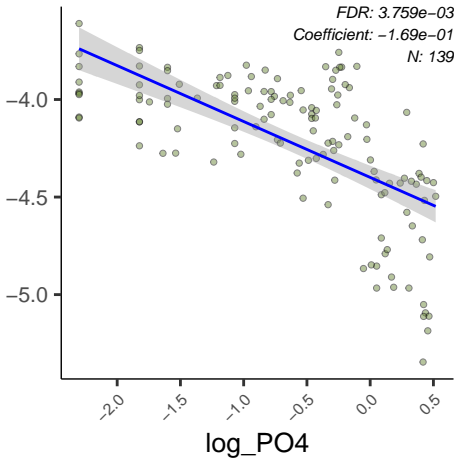
COG3638



COG4558



COG4454



COG0489

-3.10

-3.15

-3.20

-3.25

-2.0

-1.5

-1.0

-0.5

0.0

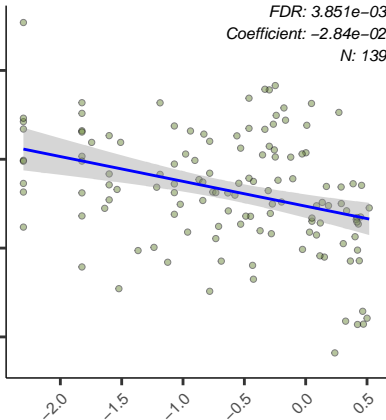
0.5

log_PO4

FDR: 3.851e-03

Coefficient: -2.84e-02

N: 139

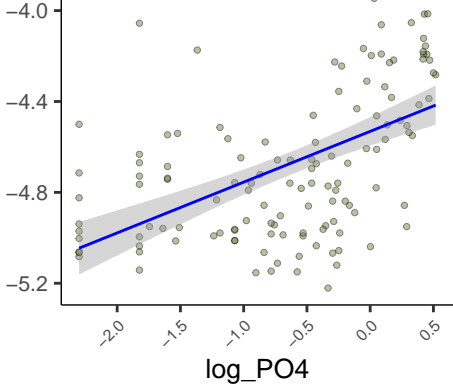


COG2716

FDR: 3.920e-03

Coefficient: 1.82e-01

N: 139

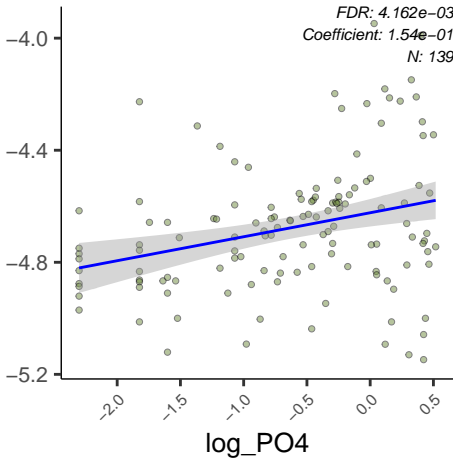


COG3138

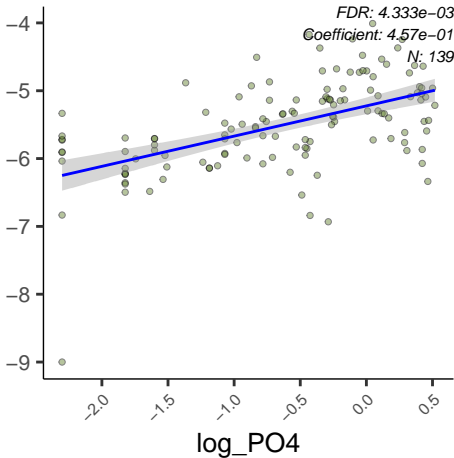
FDR: 4.162e-03

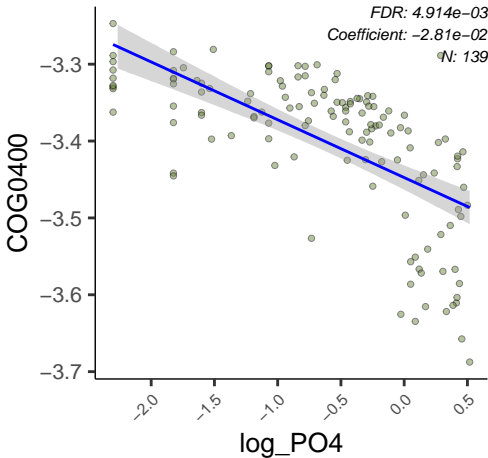
Coefficient: 1.54e-01

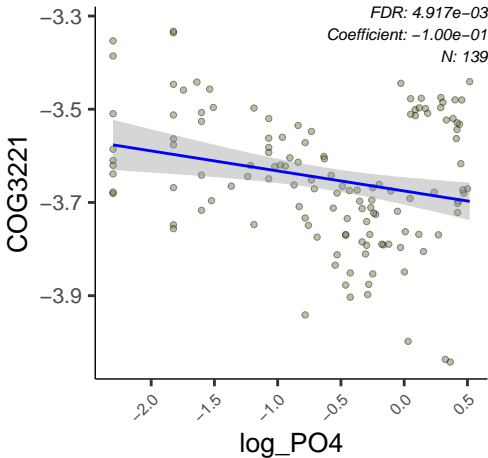
N: 139



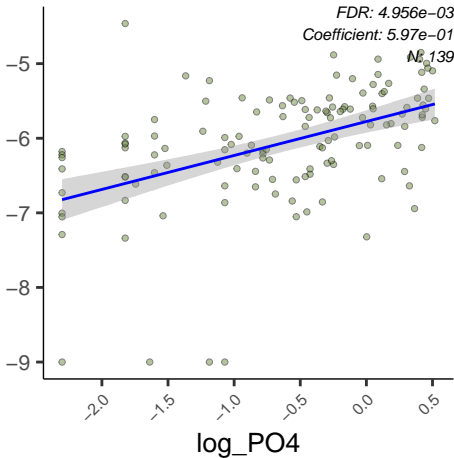
COG3489



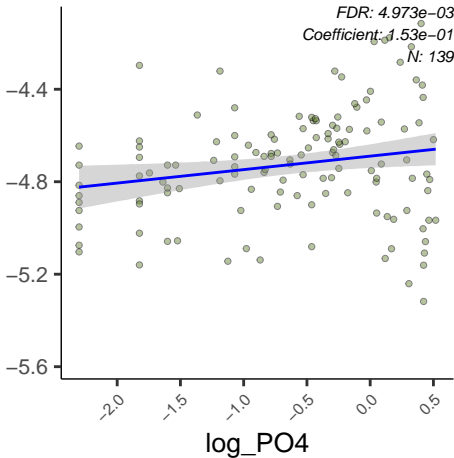


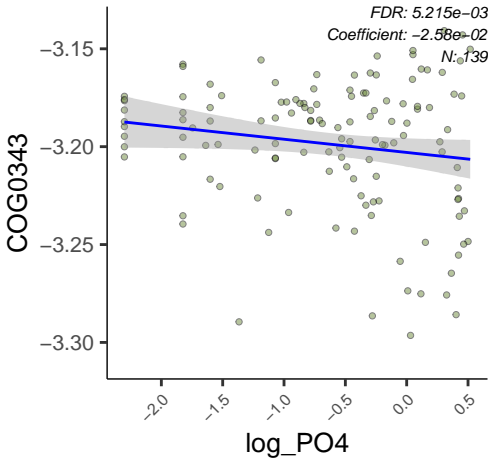


COG4682

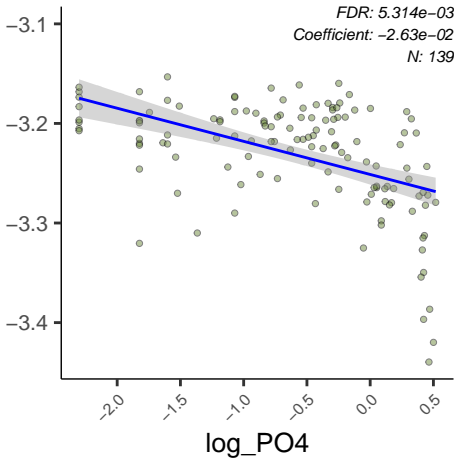


COG3724

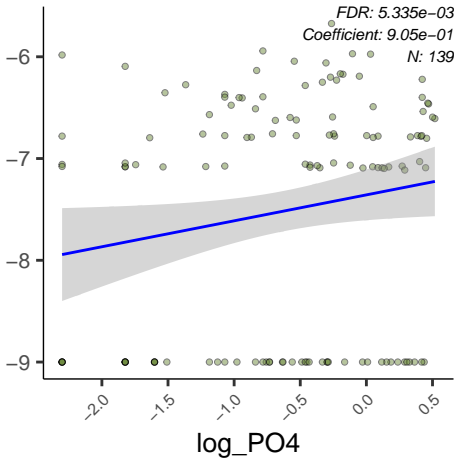




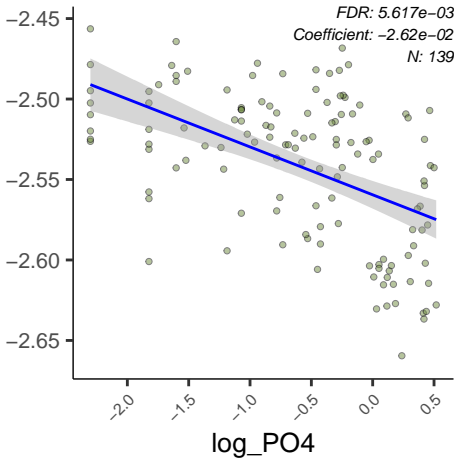
COG0169



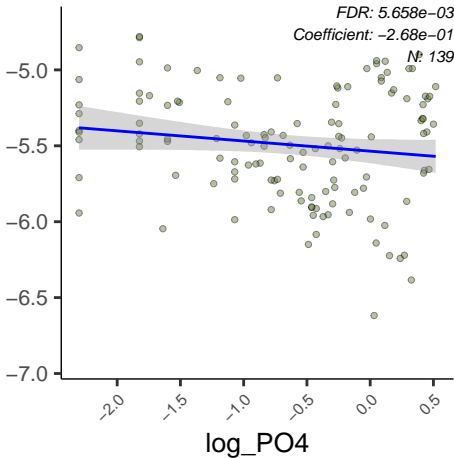
COG4794

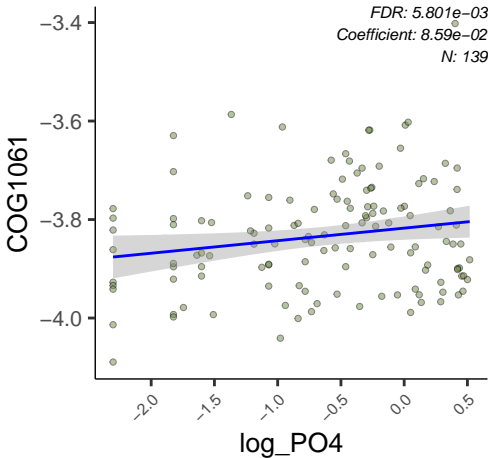


COG0438

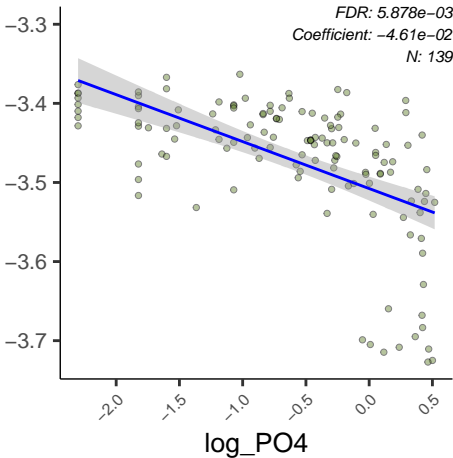


COG5379

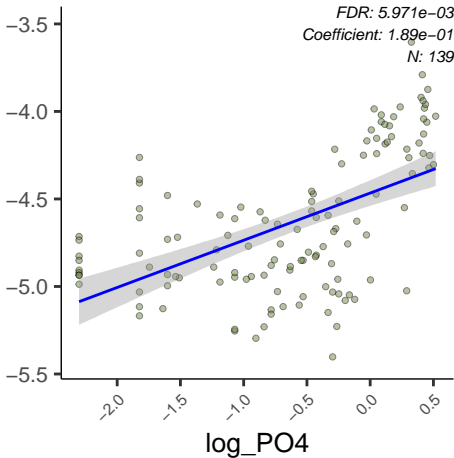




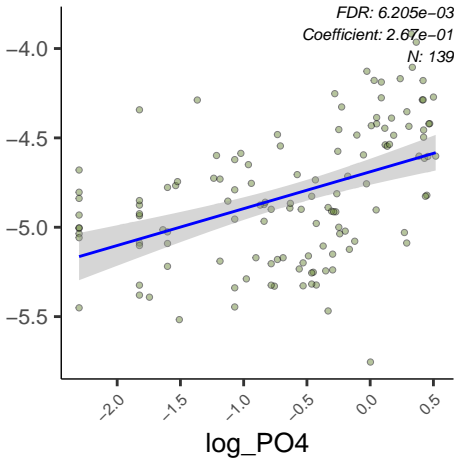
COG2947

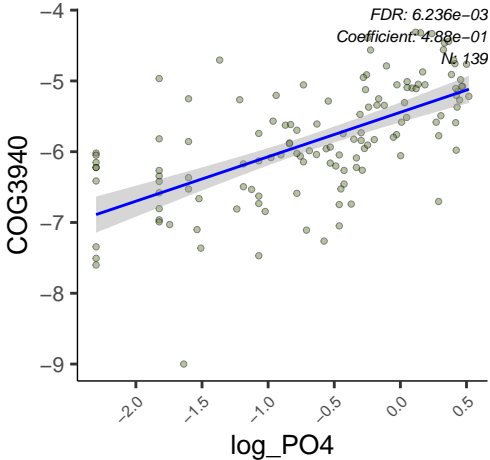


COG4579



COG2183





COG0723

-3.2

-3.3

-3.4

-2.0

-1.5

-1.0

-0.5

0.0

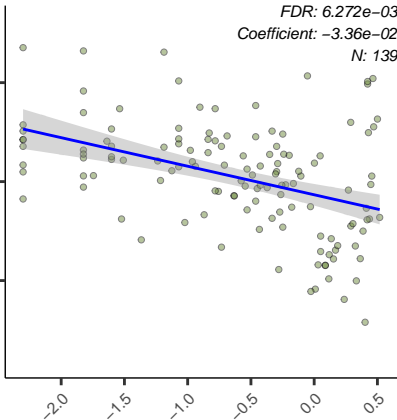
0.5

log_PO4

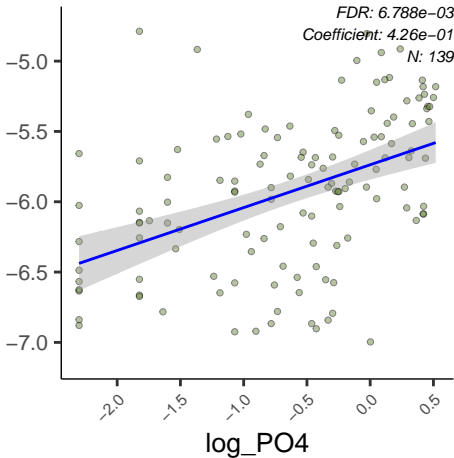
FDR: 6.272e-03

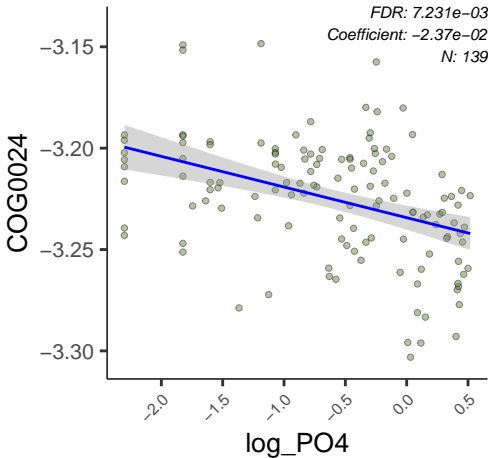
Coefficient: -3.36e-02

N: 139

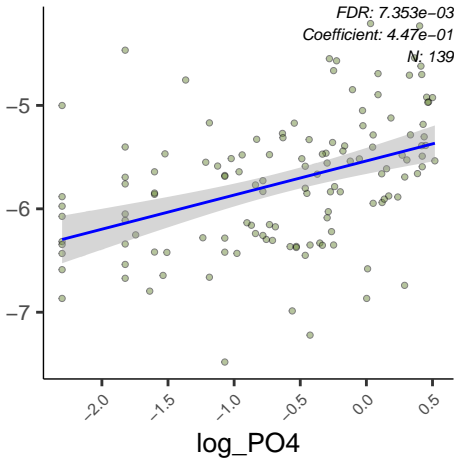


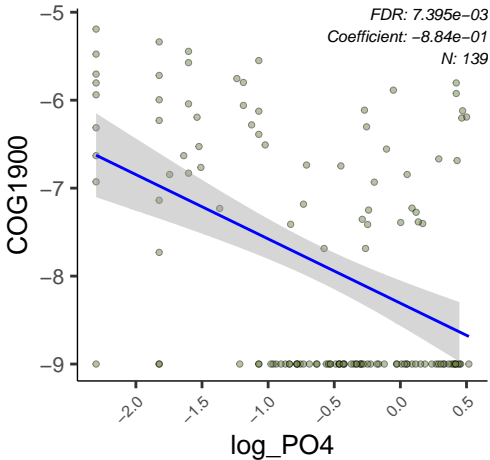
COG4275





COG3066



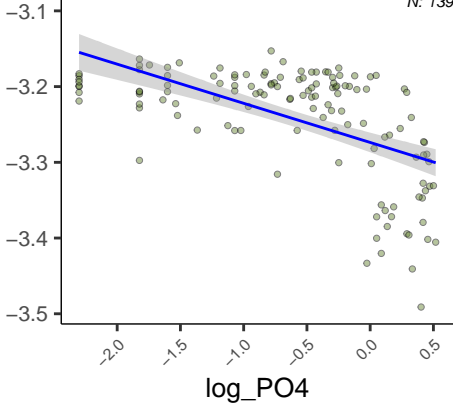


COG0755

FDR: 7.480e-03

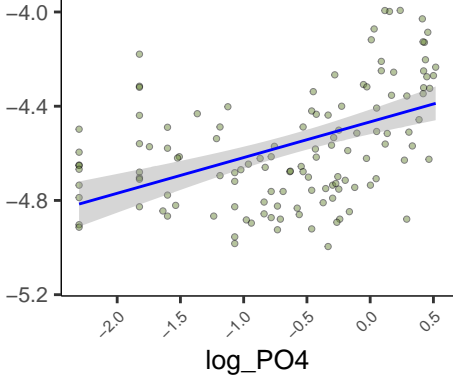
Coefficient: -2.41e-02

N: 139

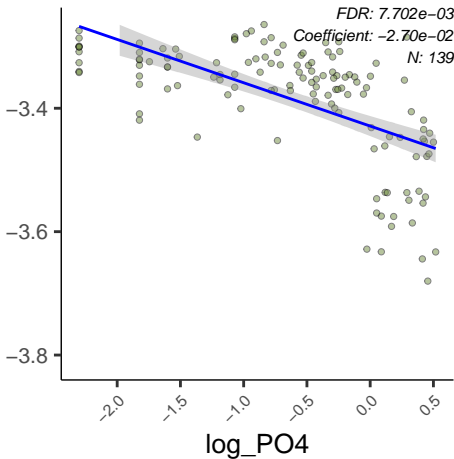


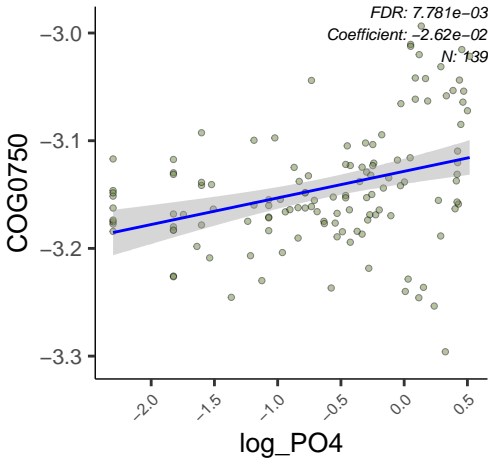
COG4137

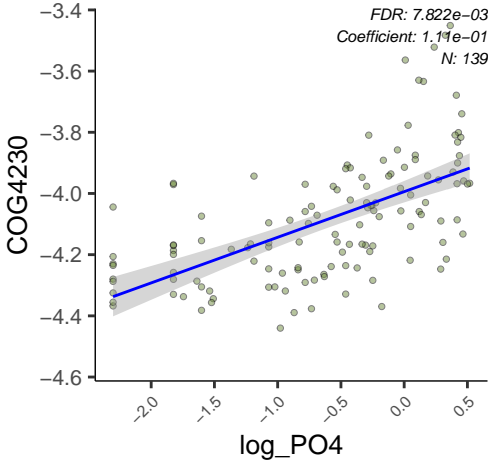
FDR: 7.522e-03
Coefficient: 1.12e-01
N: 139



COG1058

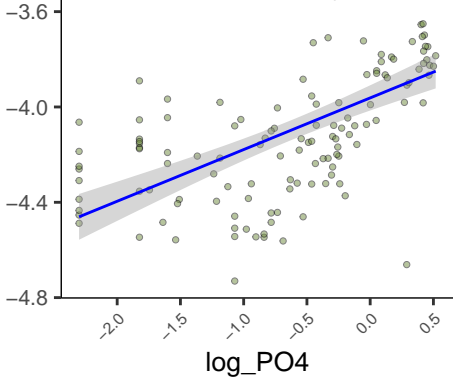




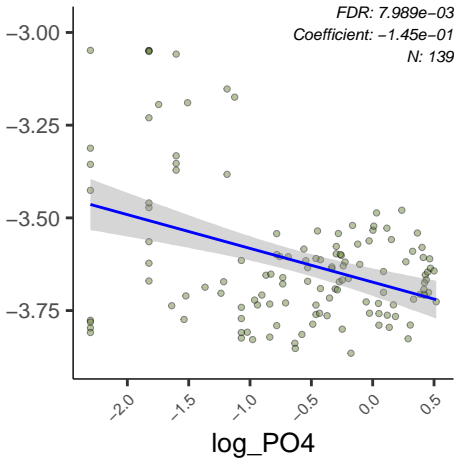


COG2095

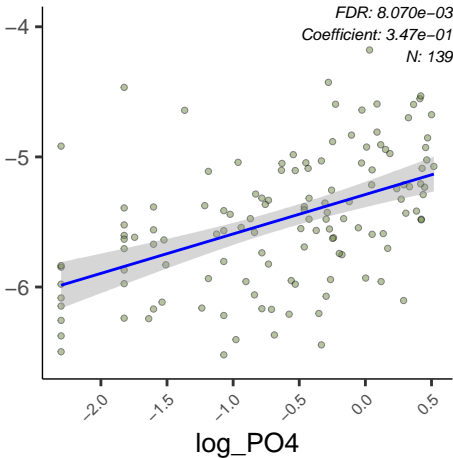
FDR: 7.872e-03
Coefficient: 1.49e-01
N: 139



COG2908



COG0676

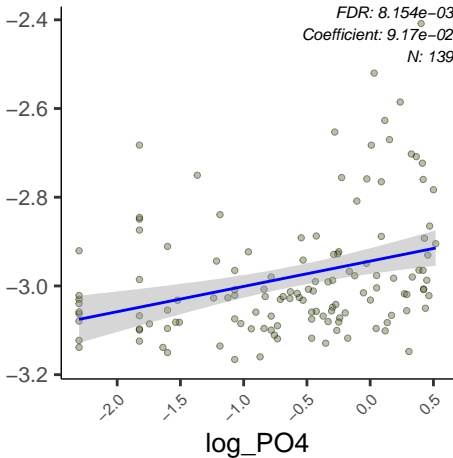


COG0583

FDR: 8.154e-03

Coefficient: 9.17e-02

N: 139



COG1760

FDR: 8.266×10^{-3}

Coefficient: 1.43×10^{-1}

N: 139

-4.0

-4.5

-5.0

-2.0

-1.5

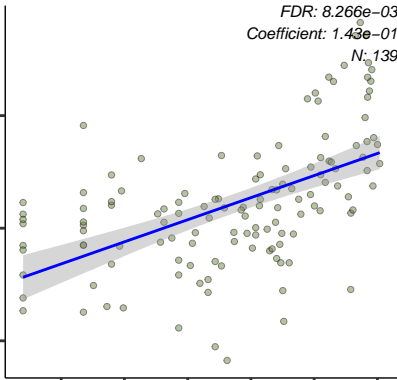
-1.0

-0.5

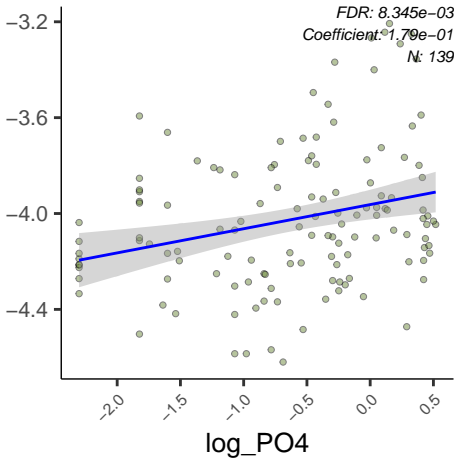
0.0

0.5

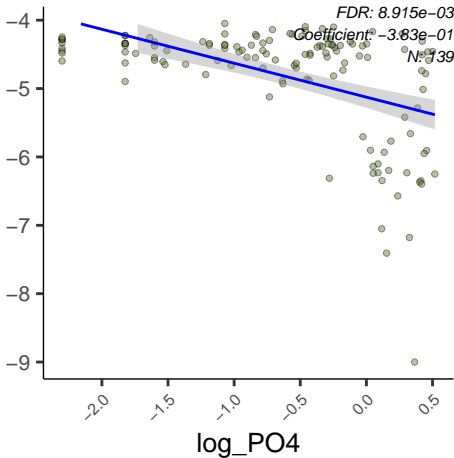
log_PO4



COG1733



COG0310



COG2329

FDR: 9.124e-03

Coefficient: 1.24e-01

N: 139

-3.50

-3.75

-4.00

-4.25

-2.0

-1.5

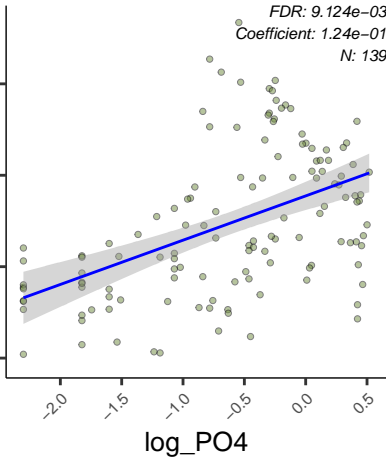
-1.0

-0.5

0.0

0.5

log_PO4



COG1672

-5
-6
-7

-2.0

-1.5

-1.0

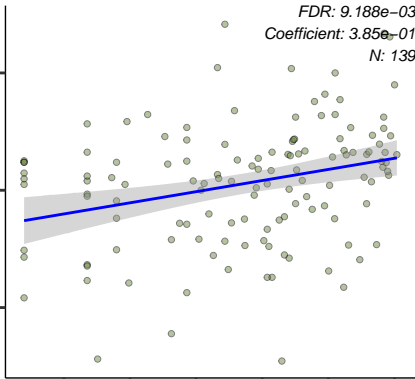
-0.5

0.0

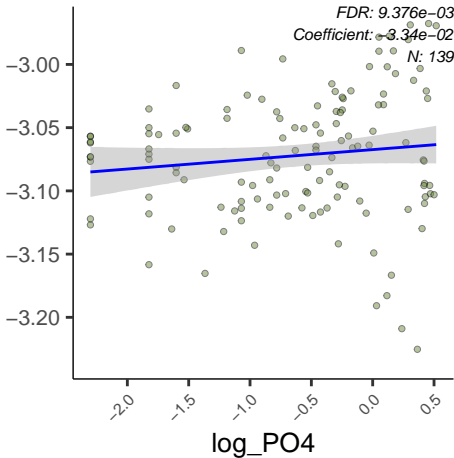
0.5

log_PO4

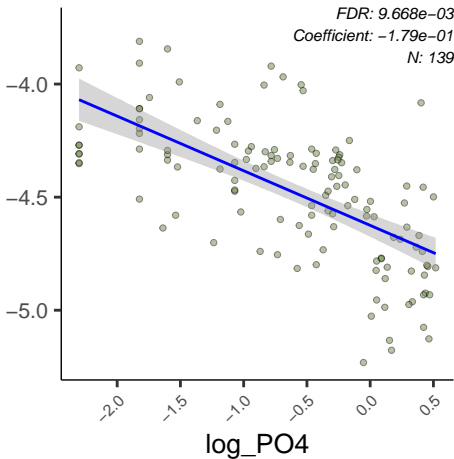
FDR: 9.188e-03
Coefficient: 3.85e-01
N: 139



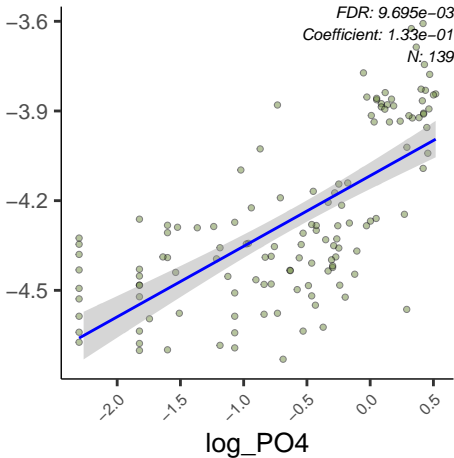
COG0484



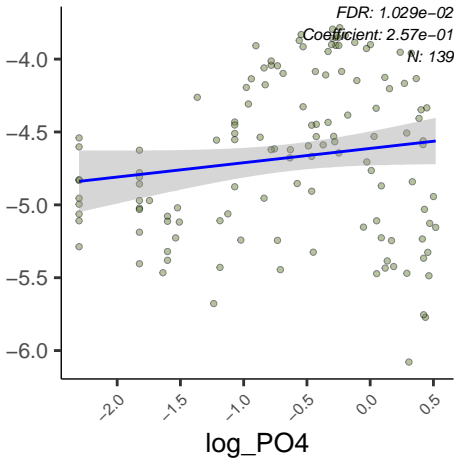
COG1942



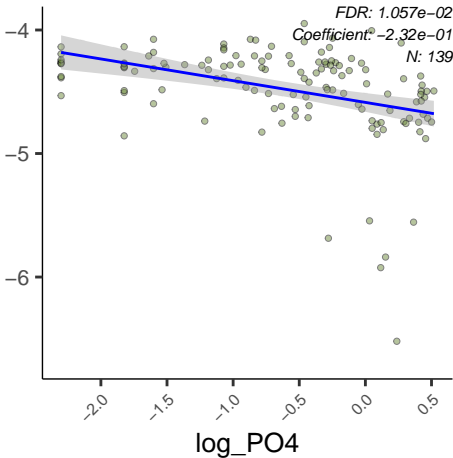
COG1368



COG4559



COG2815



COG1414

FDR: 1.078e-02
Coefficient: 1.00e-01
N: 139

-3.50

-3.75

-4.00

-4.25

-2.0

-1.5

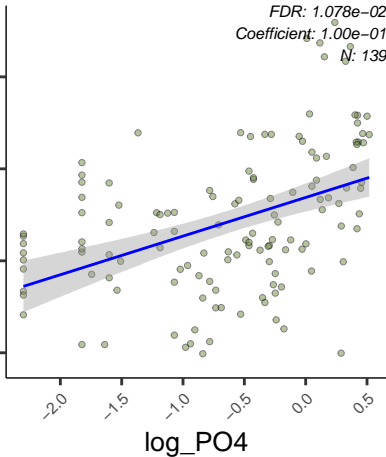
-1.0

-0.5

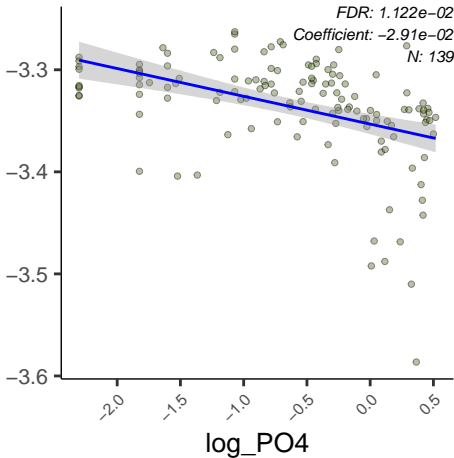
0.0

0.5

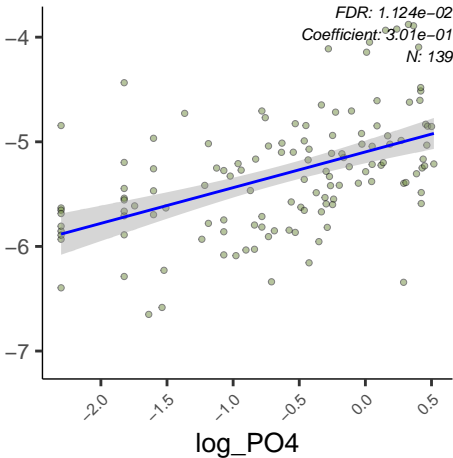
log_PO4



COG1386

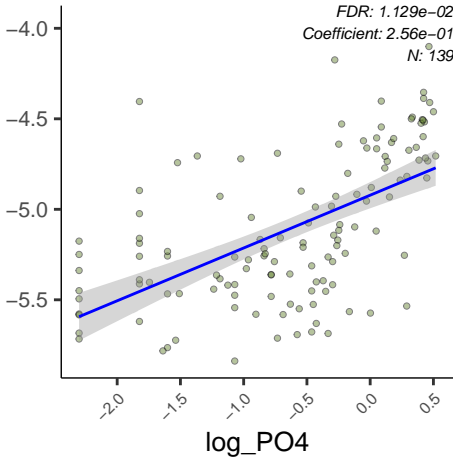


COG4807



COG3227

FDR: 1.129e-02
Coefficient: 2.56e-01
N: 139

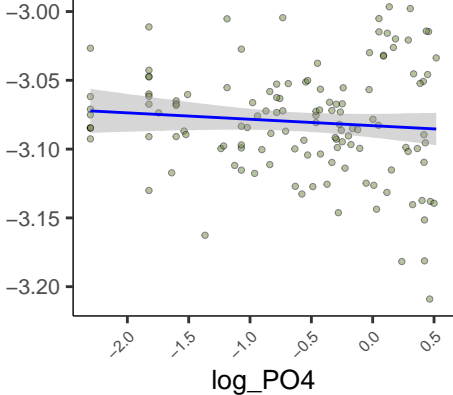


COG0439

FDR: 1.138e-02

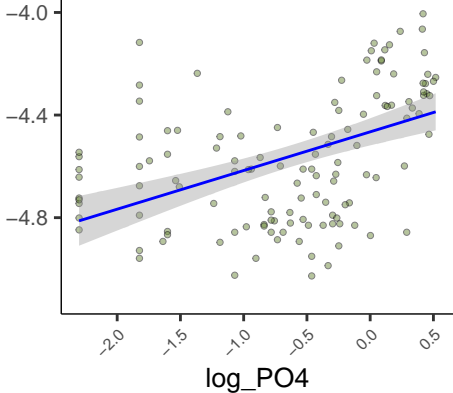
Coefficient: -2.45e-02

N: 139

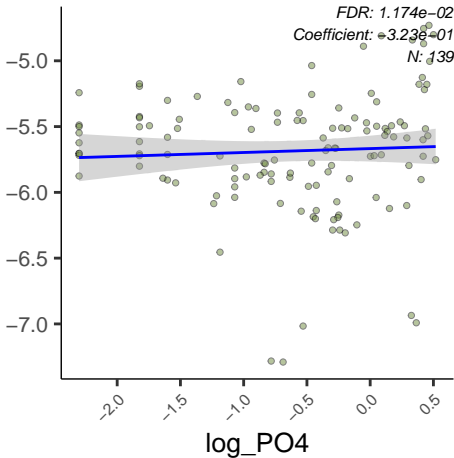


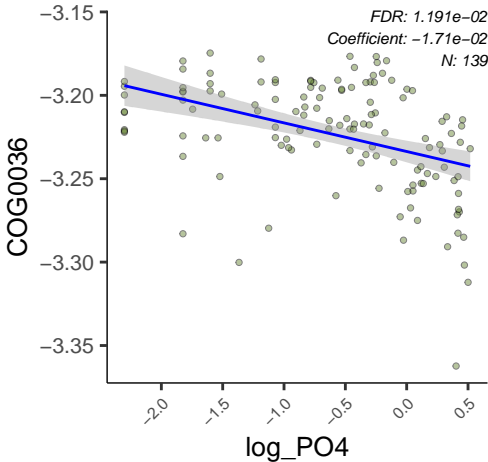
COG2269

FDR: 1.145e-02
Coefficient: 1.32e-01
N: 139



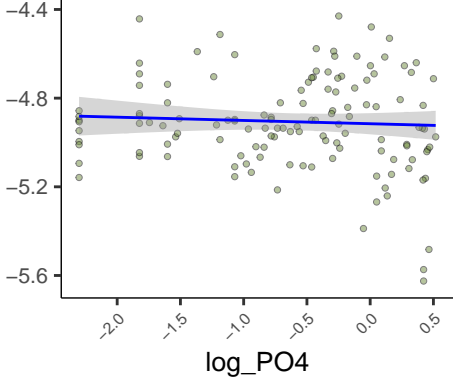
COG3584



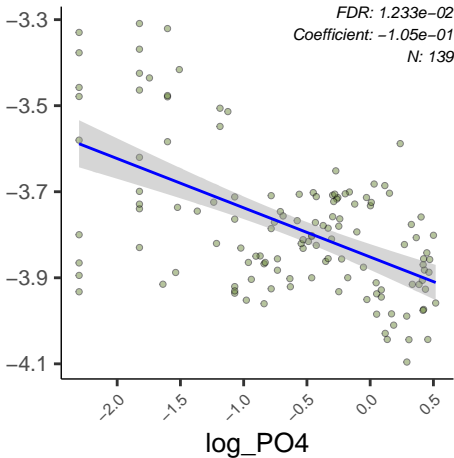


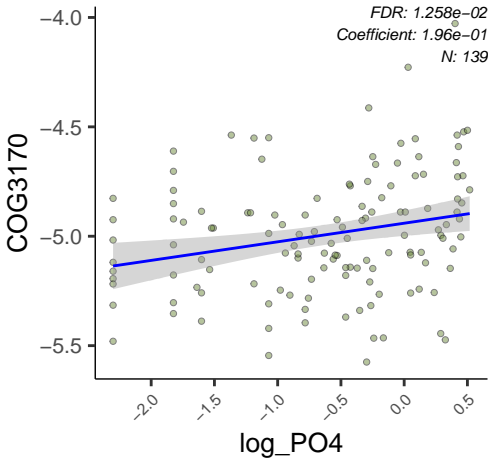
COG4569

FDR: 1.208e-02
Coefficient: 1.17e-01
N: 139

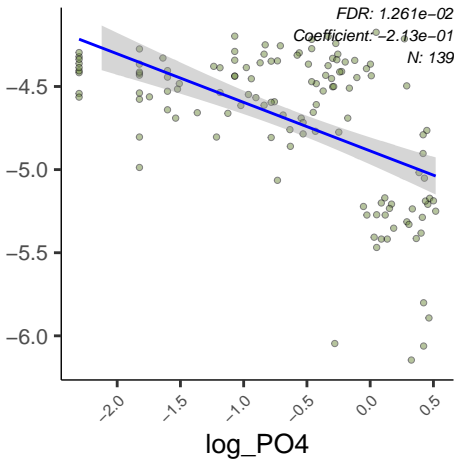


COG2062





COG1811



COG2813

FDR: 1.262e-02
Coefficient: 1.39e-01
N: 139

-4.0
-4.5

-2.0

-1.5

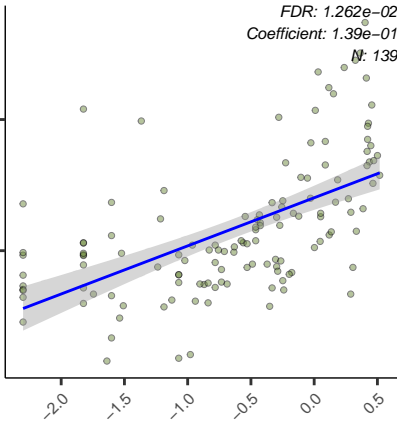
-1.0

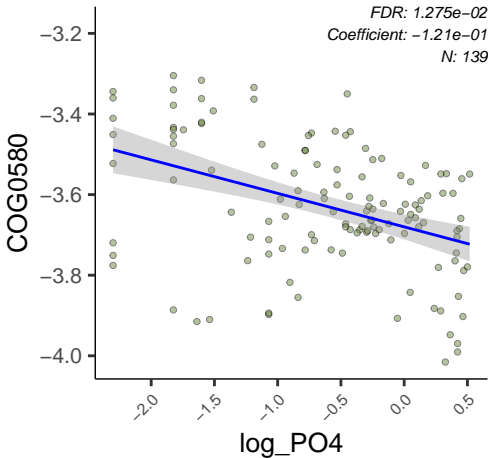
-0.5

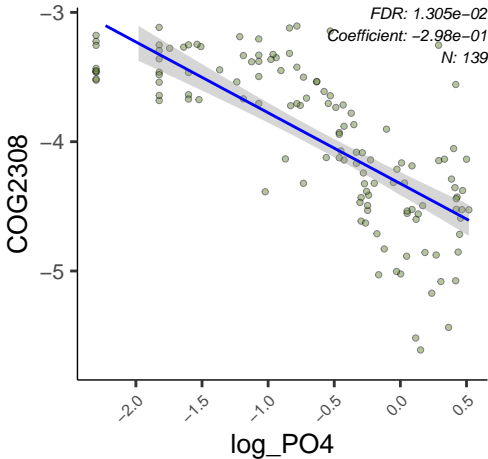
0.0

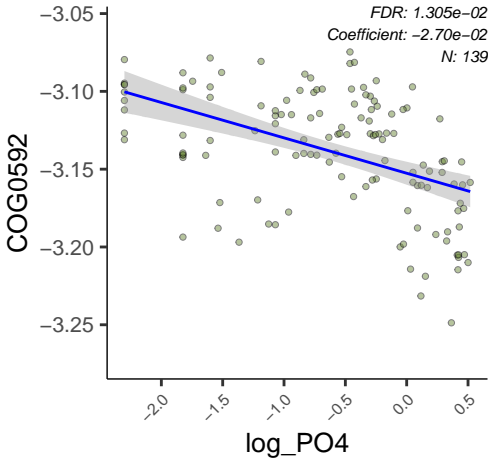
0.5

log_PO4



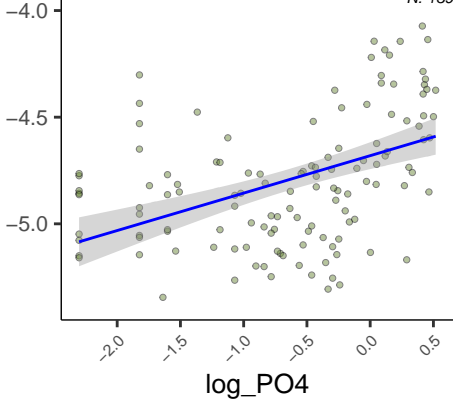




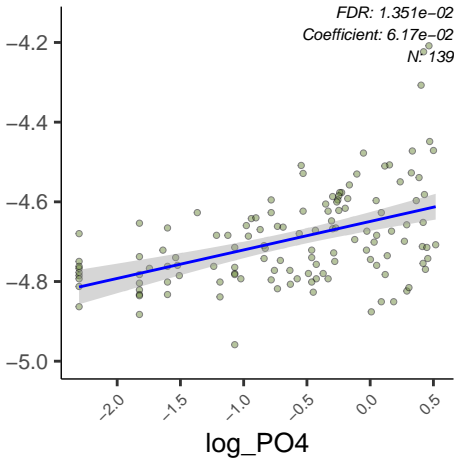


COG2921

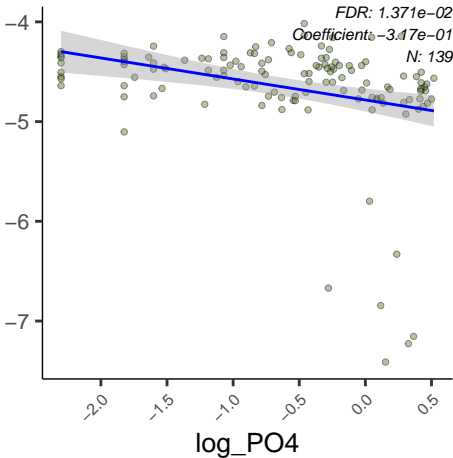
FDR: 1.348e-02
Coefficient: 1.47e-01
N: 139



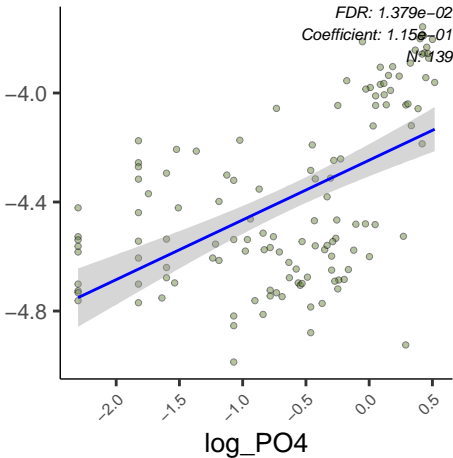
COG3440



COG3480



COG1883



COG2825

FDR: 1.392e-02

Coefficient: 7.89e-02

N: 139

-4.0

-4.2

-4.4

-4.6

-2.0

-1.5

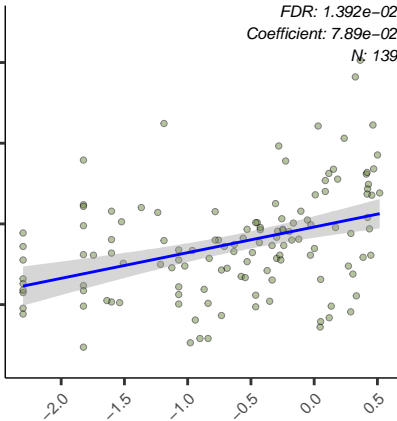
-1.0

-0.5

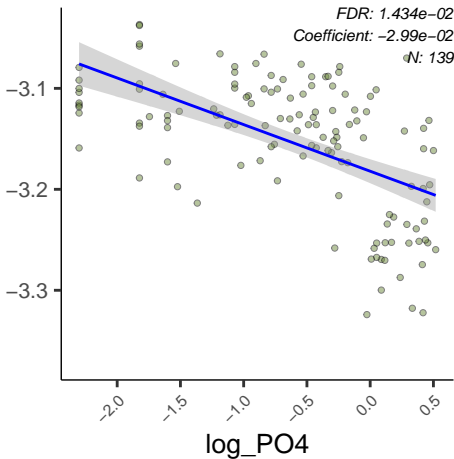
0.0

0.5

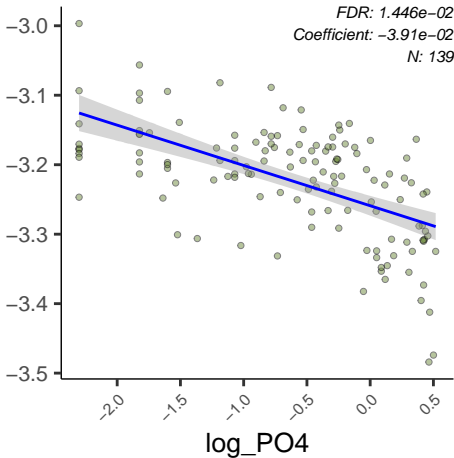
log_PO4



COG1290



COG0229



COG1442

-5

-6

-2.0

-1.5

-1.0

-0.5

0.0

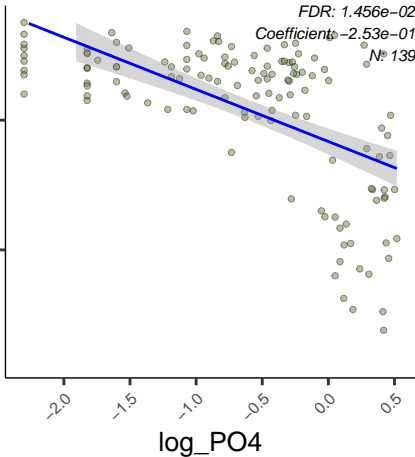
0.5

log_PO4

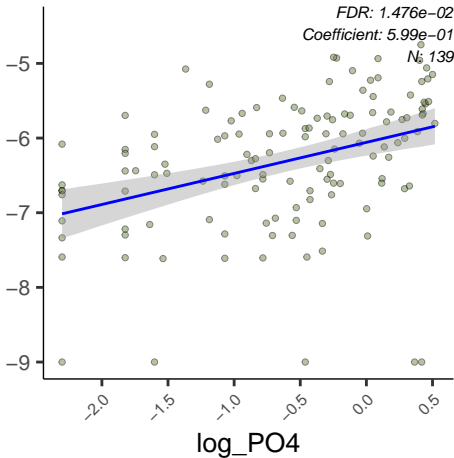
FDR: 1.456e-02

Coefficient: -2.53e-01

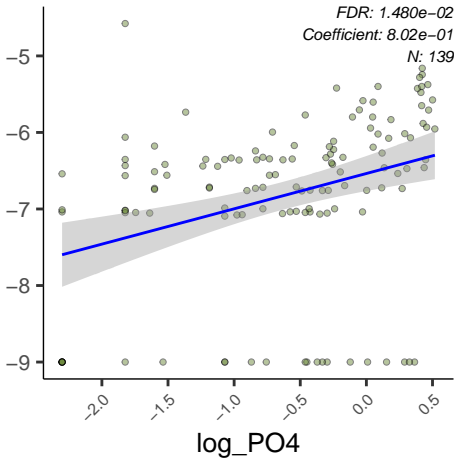
N: 139



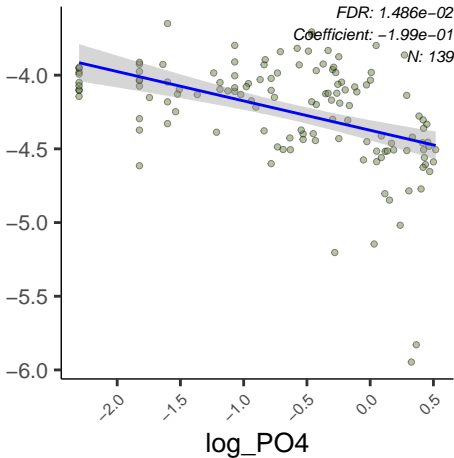
COG4138



COG2336



COG3409

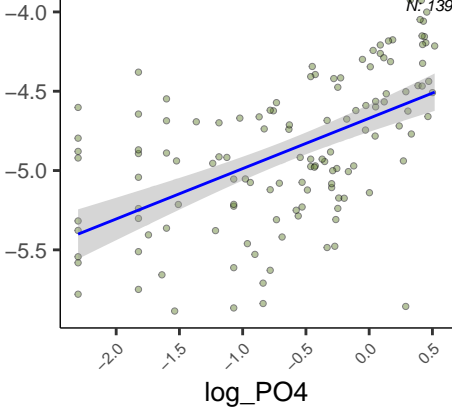


COG2922

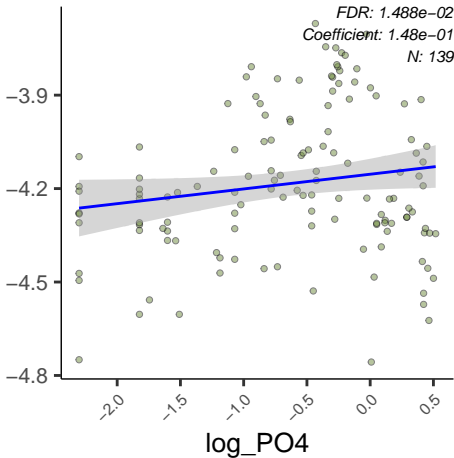
FDR: 1.486e-02

Coefficient: 2.03e-01

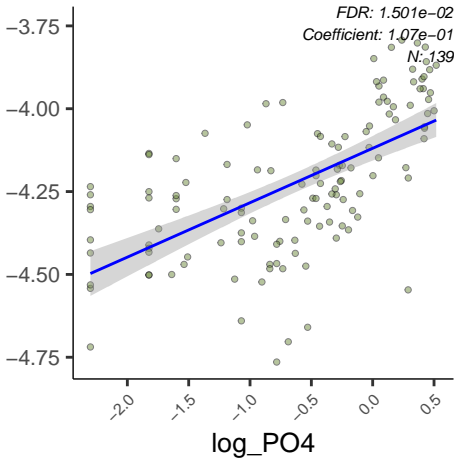
N: 139



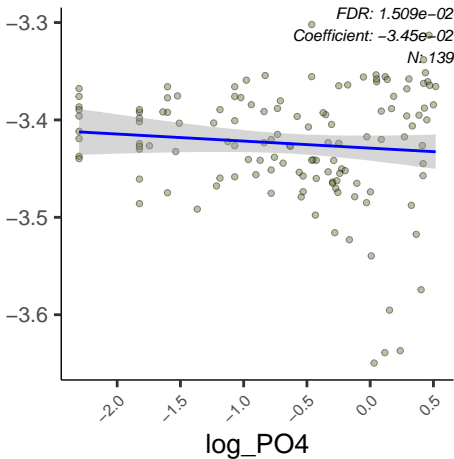
COG0748



COG3185



COG0713



COG2915

FDR: 1.517e-02
Coefficient: 1.40e-01
N: 139

-4.0

-4.5

-5.0

-2.0

-1.5

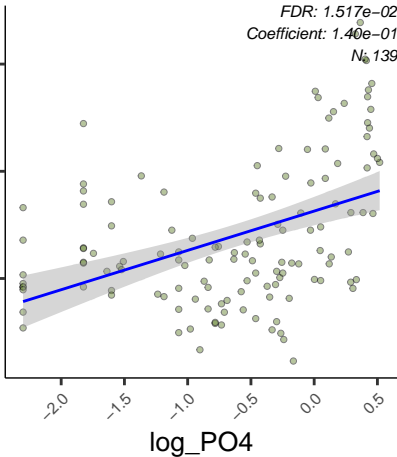
-1.0

-0.5

0.0

0.5

log_PO4



COG0524

-2.85

-2.90

-2.95

-3.00

-2.0

-1.5

-1.0

-0.5

0.0

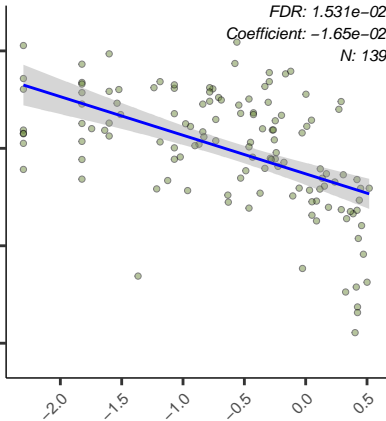
0.5

log_PO4

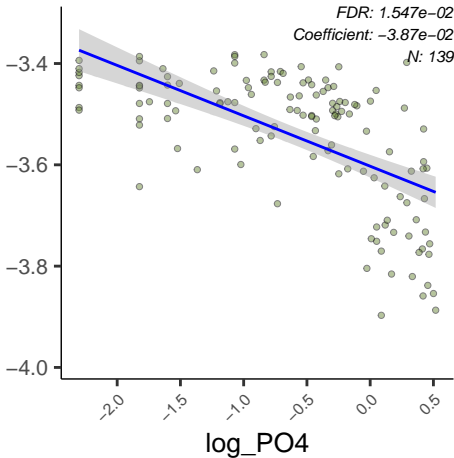
FDR: 1.531e-02

Coefficient: -1.65e-02

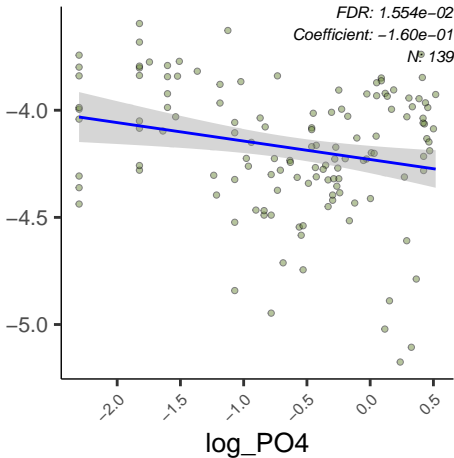
N: 139



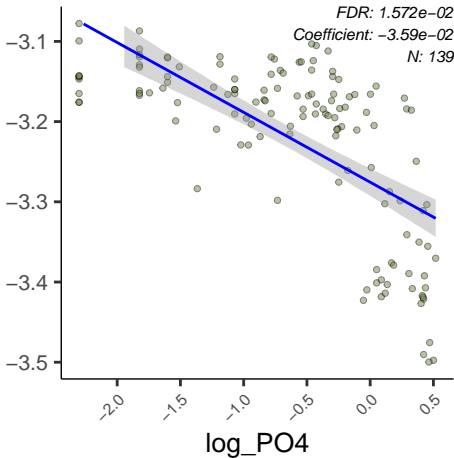
COG1268



COG3211

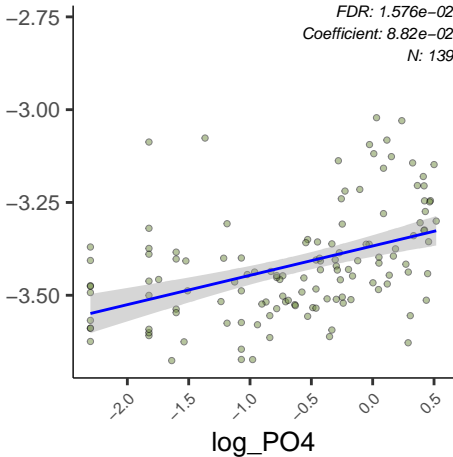


COG0413



COG1309

FDR: 1.576e-02
Coefficient: 8.82e-02
N: 139



COG3287

FDR: 1.595e-02

Coefficient: 3.35e-01

N: 139

-5
-6

-2.0

-1.5

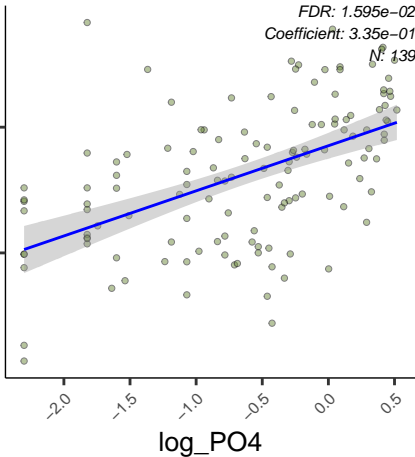
-1.0

-0.5

0.0

0.5

log_PO4



COG3707

FDR: 1.641e-02

Coefficient: 2.38e-01

N: 139

-4.0

-4.5

-5.0

-5.5

-6.0

-2.0

-1.5

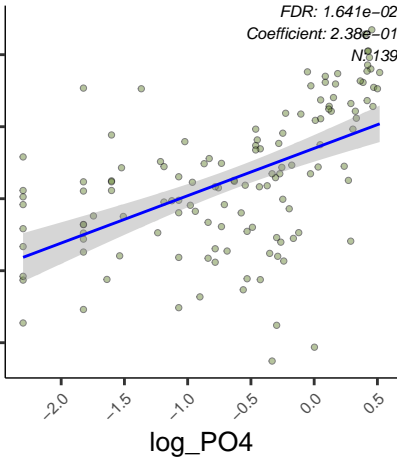
-1.0

-0.5

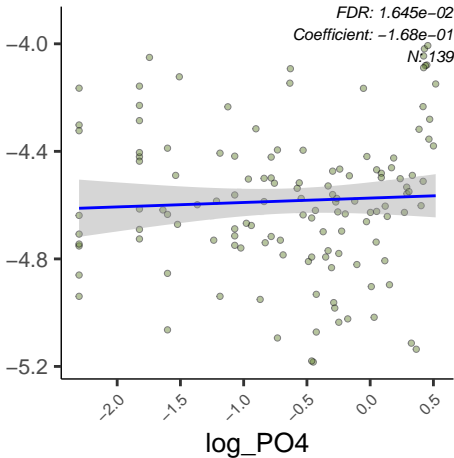
0.0

0.5

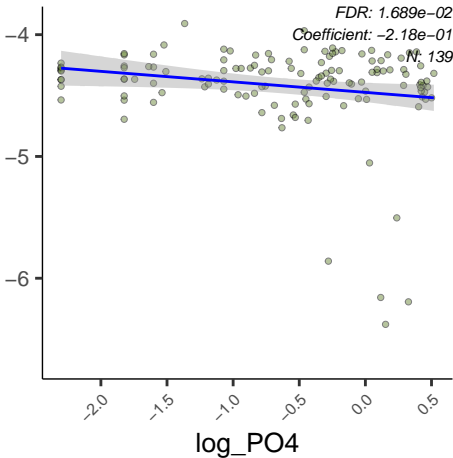
log_PO4



COG1850

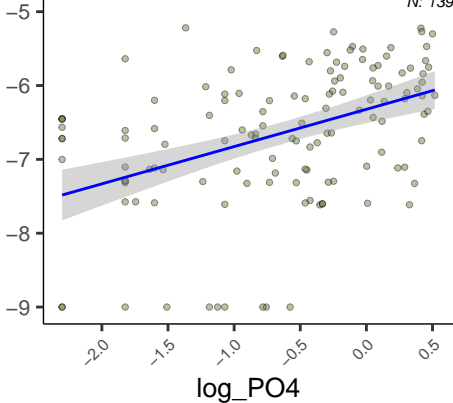


COG3336

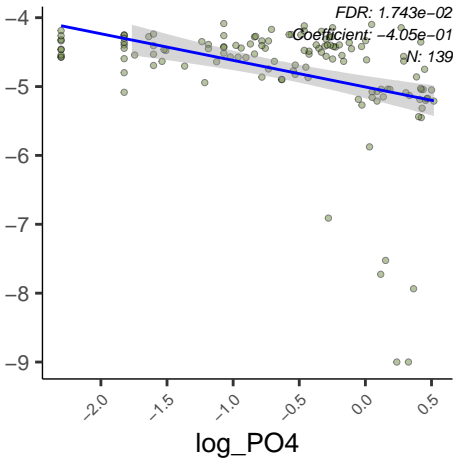


COG4397

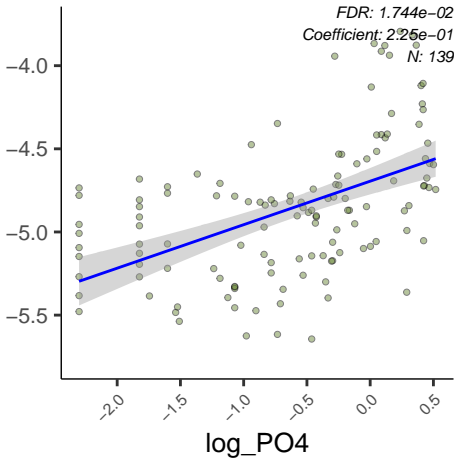
FDR: 1.704e-02
Coefficient: 6.06e-01
N: 139



COG1306



COG3275



COG3844

-3.75

-4.00

-4.25

-2.0

-1.5

-1.0

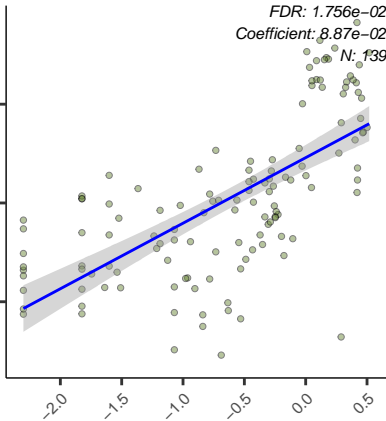
-0.5

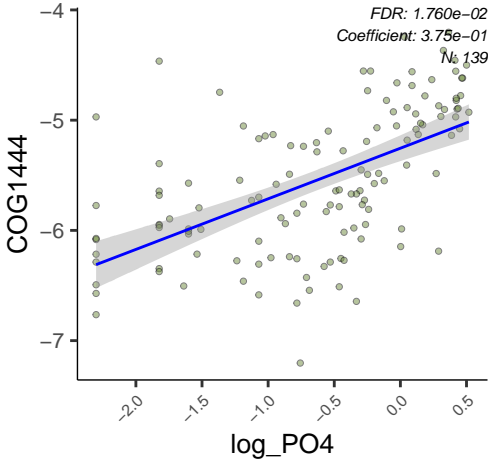
0.0

0.5

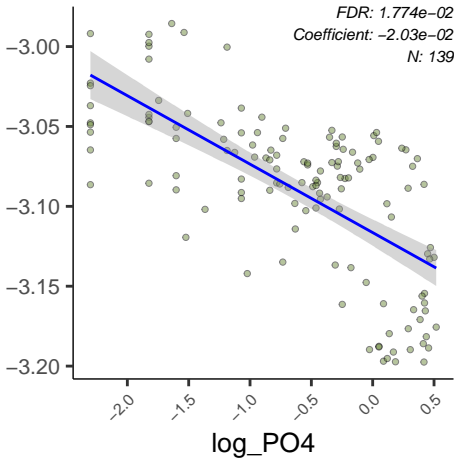
log_PO4

FDR: $1.756e-02$
Coefficient: $8.87e-02$
N: 139

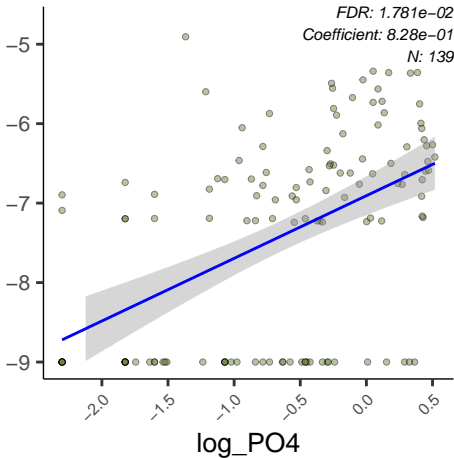


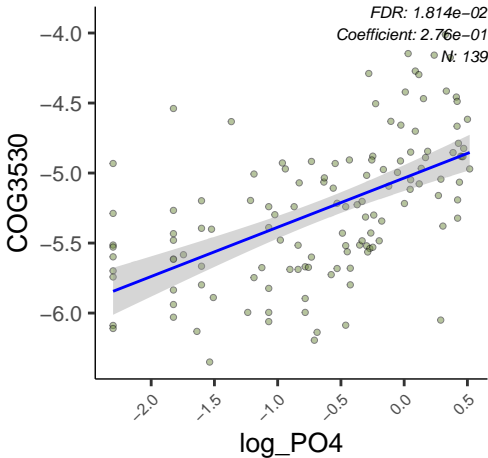


COG0057



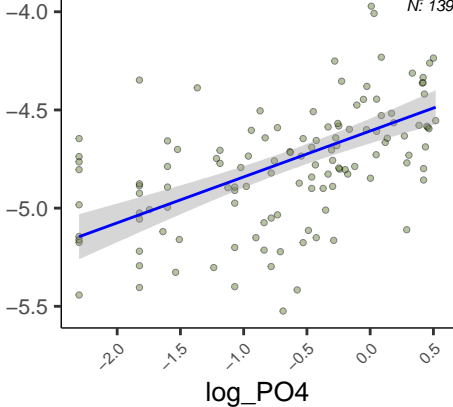
COG4334



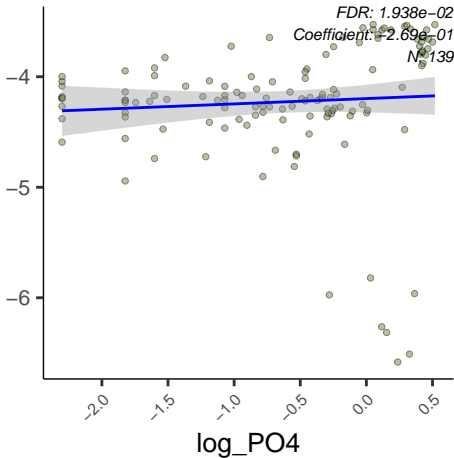


COG1739

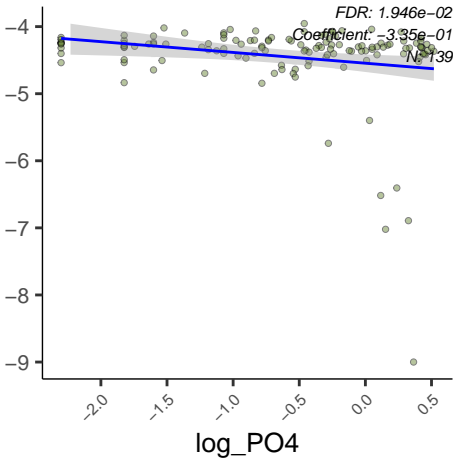
FDR: 1.916e-02
Coefficient: 1.60e-01
N: 139



COG1260

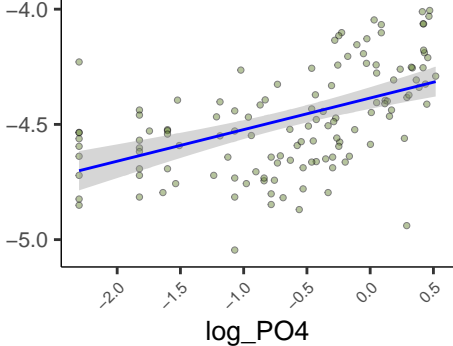


COG1847



COG3267

FDR: 1.946e-02
Coefficient: 1.27e-01
N: 139

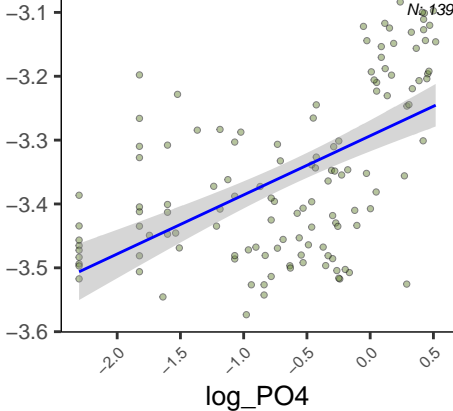


COG1902

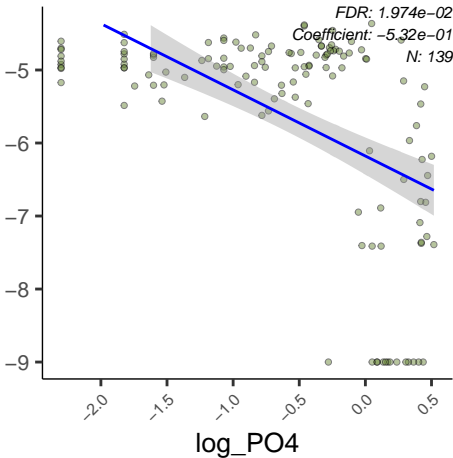
FDR: 1.968e-02

Coefficient: 5.62e-02

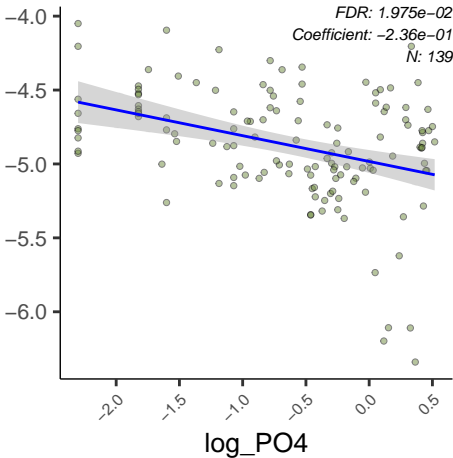
N: 139



COG3730



COG1877



COG1120

FDR: 1.983e-02
Coefficient: 1.14e-01
N: 139

-4.0
-4.5

-2.0

-1.5

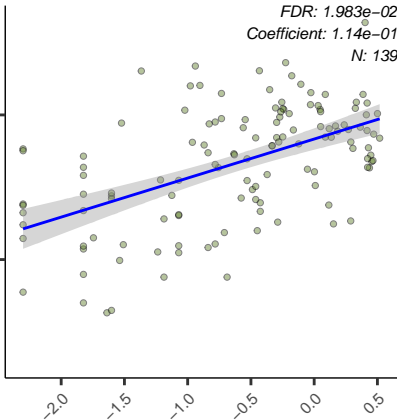
-1.0

-0.5

0.0

0.5

log_PO4



COG0107

-3.1

-3.2

-3.3

-3.4

-2.0

-1.5

-1.0

-0.5

0.0

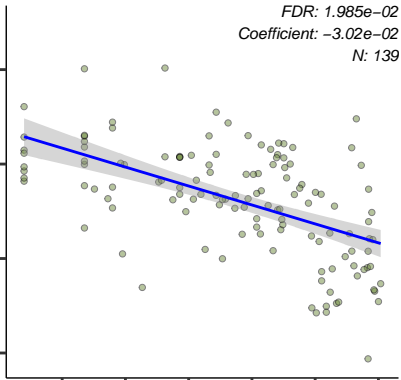
0.5

log_PO4

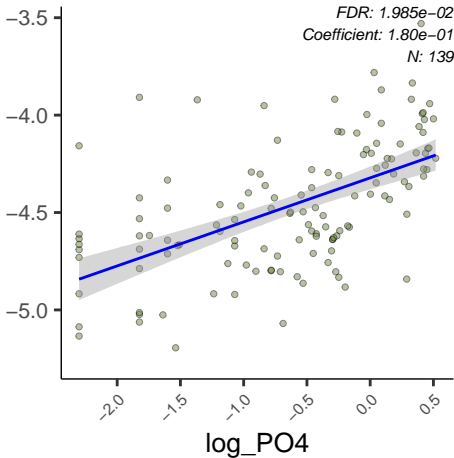
FDR: 1.985e-02

Coefficient: -3.02e-02

N: 139



COG3712



COG4704

FDR: 2.005e-02

Coefficient: 8.32e-02

N: 139

-4.0

-4.2

-4.4

-4.6

-2.0

-1.5

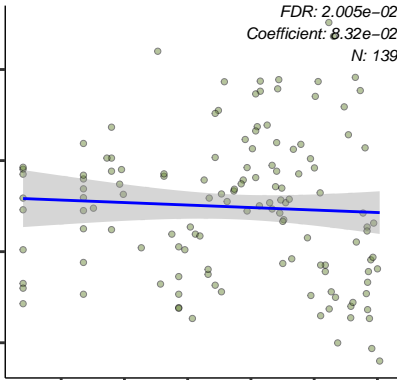
-1.0

-0.5

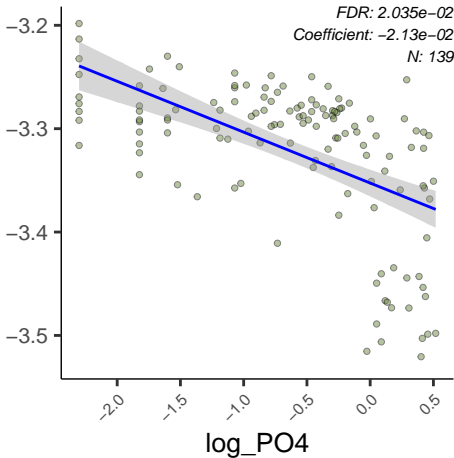
0.0

0.5

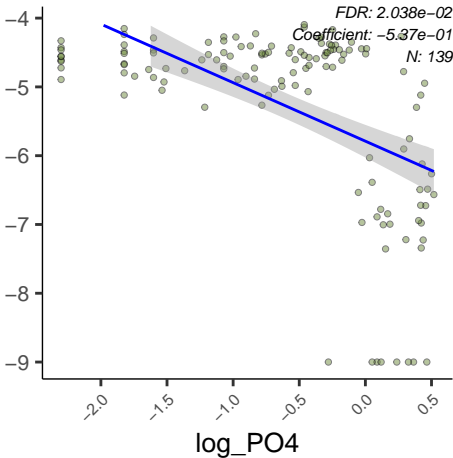
log_PO4



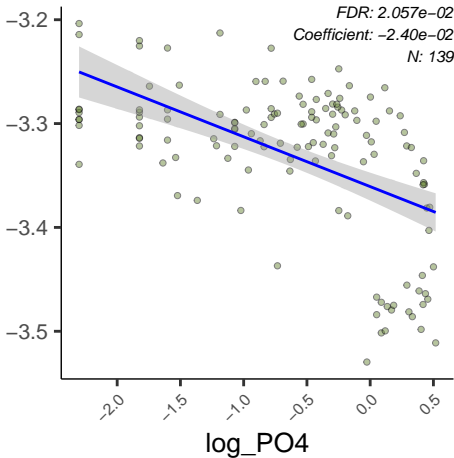
COG0359

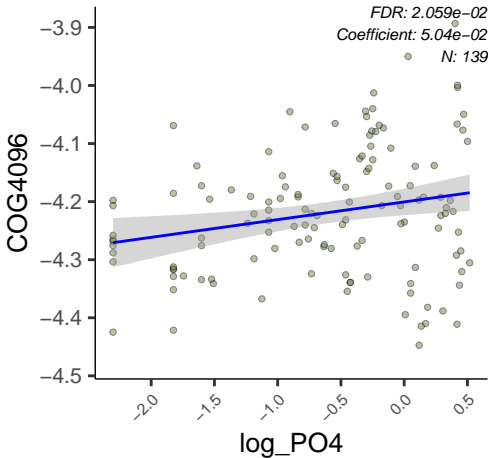


COG3732

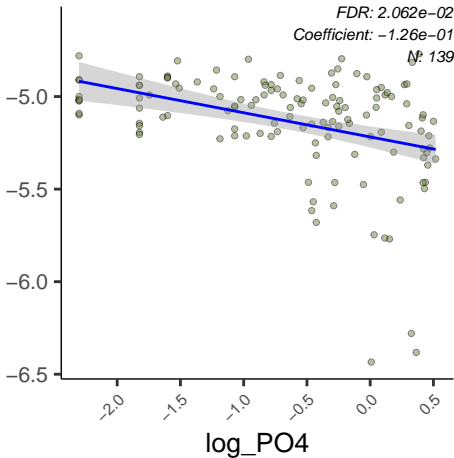


COG0254

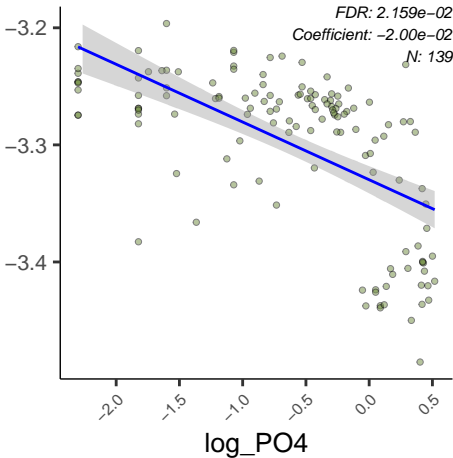




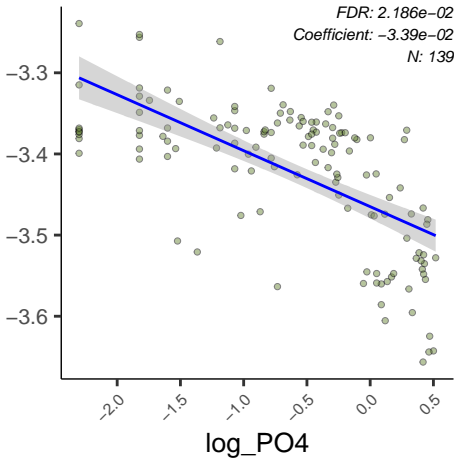
COG4246



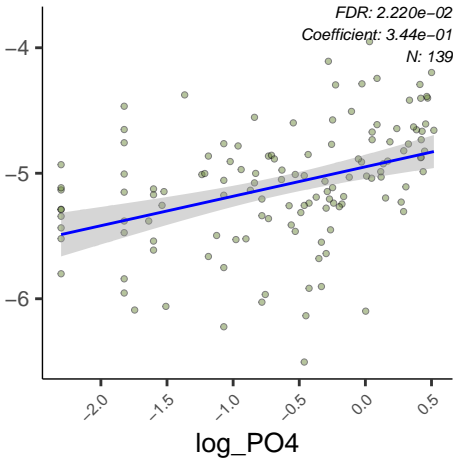
COG0284



COG1758



COG2905

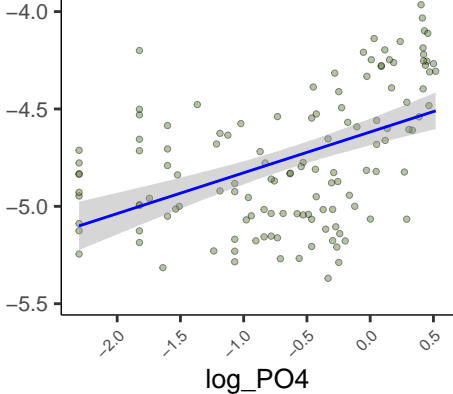


COG3079

FDR: 2.224e-02

Coefficient: 1.40e-01

N: 139



COG1534

FDR: 2.282e-02

Coefficient: 1.09e-01

N: 139

-4.0

-4.5

-5.0

-2.0

-1.5

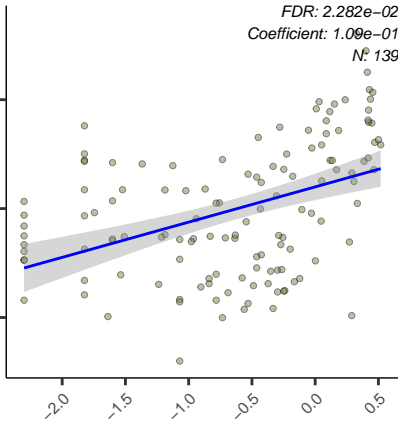
-1.0

-0.5

0.0

0.5

log_PO4



COG0452

-3.2

-3.3

-2.0

-1.5

-1.0

-0.5

0.0

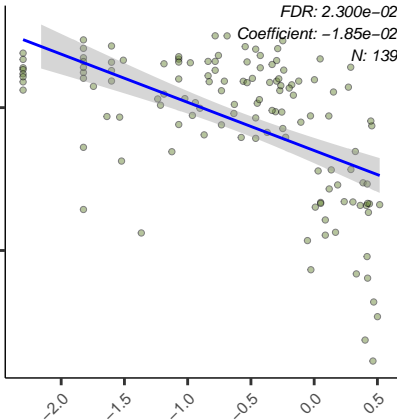
0.5

log_PO4

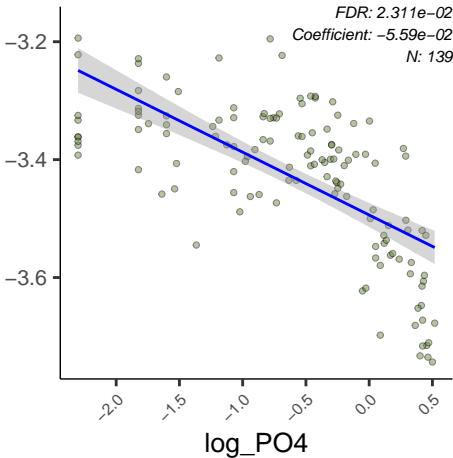
FDR: 2.300e-02

Coefficient: $-1.85e-02$

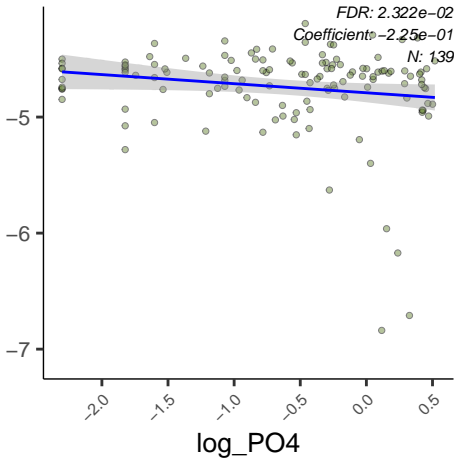
N: 139

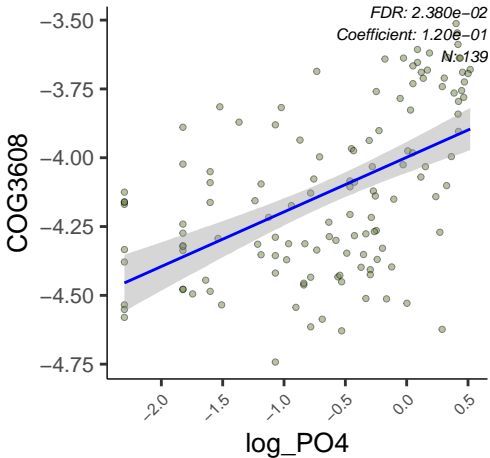


COG5470

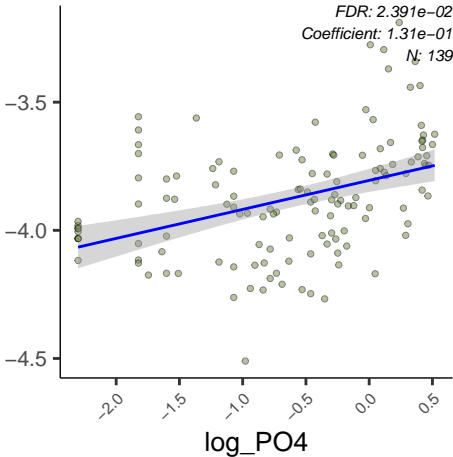


COG3662





COG1802

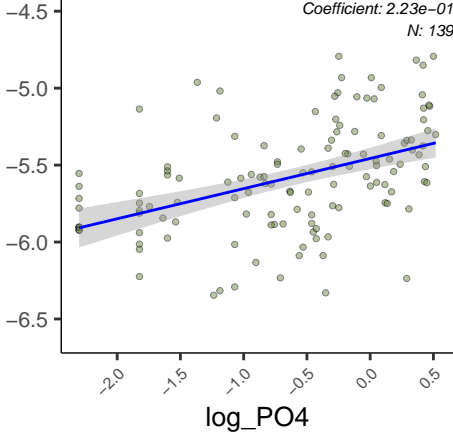


COG3236

FDR: 2.496e-02

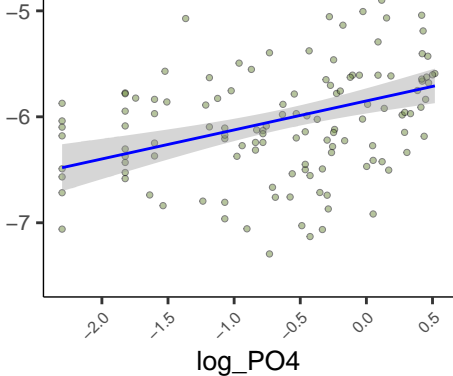
Coefficient: 2.23e-01

N: 139



COG3266

FDR: 2.496e-02
Coefficient: 3.42e-01
N: 139



COG2515

-3.75

-4.00

-4.25

-2.0

-1.5

-1.0

-0.5

0.0

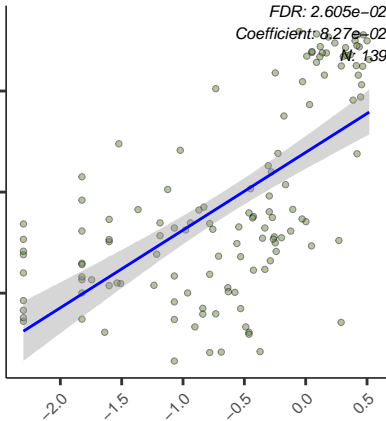
0.5

log_PO4

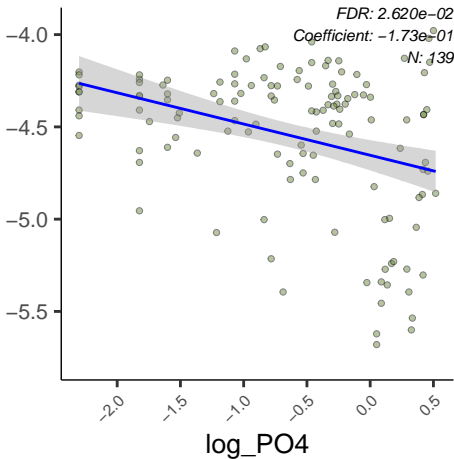
FDR: 2.605e-02

Coefficient: 8.27e-02

N: 139



COG3033

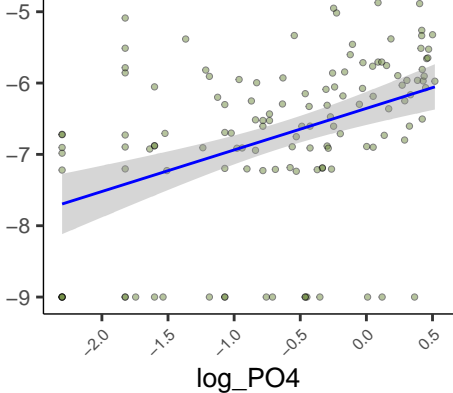


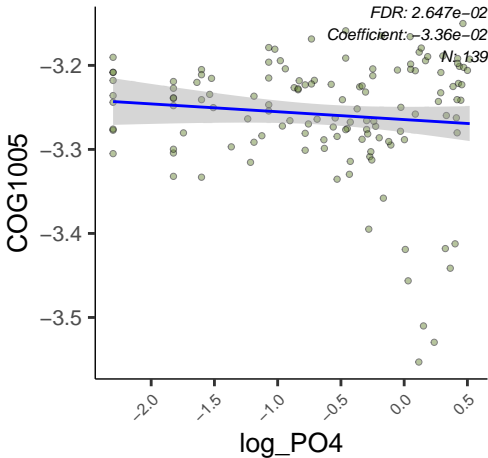
COG3112

FDR: 2.620e-02

Coefficient: 8.37e-01

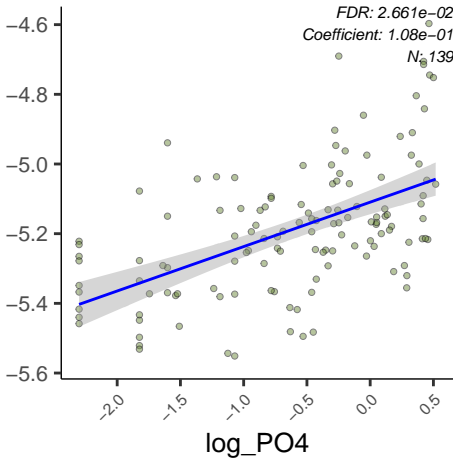
N: 139





COG3586

FDR: 2.661e-02
Coefficient: 1.08e-01
N: 139



COG0131

-3.2

-3.3

-3.4

-2.0

-1.5

-1.0

-0.5

0.0

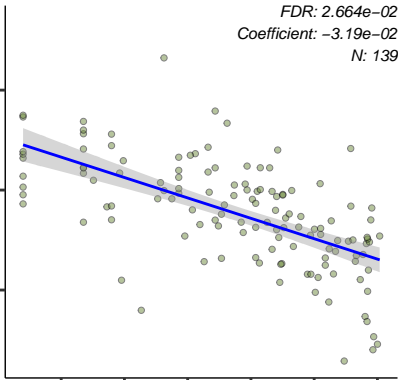
0.5

log_PO4

FDR: 2.664e-02

Coefficient: -3.19e-02

N: 139



COG1167

FDR: 2.685e-02

Coefficient: 7.22e-02

N: 139

-3.6

-3.8

-4.0

-2.0

-1.5

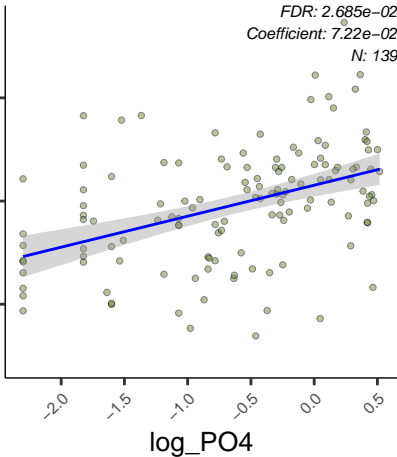
-1.0

-0.5

0.0

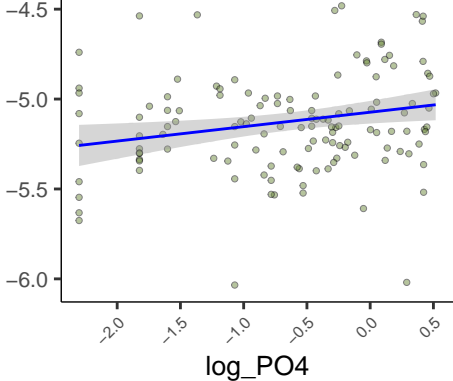
0.5

log_PO4

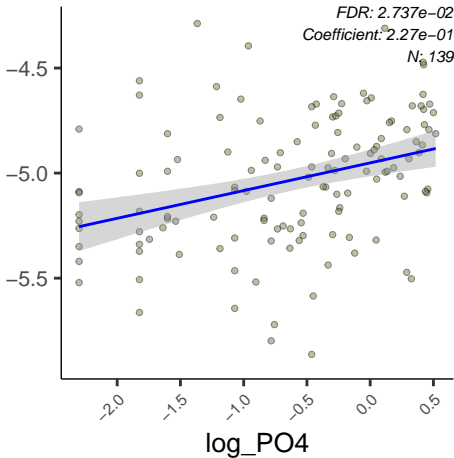


COG4539

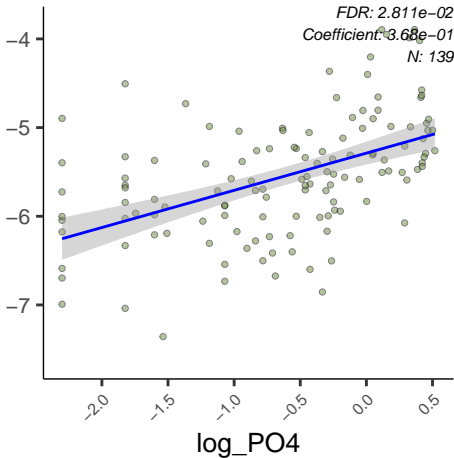
FDR: 2.729×10^{-2}
Coefficient: 1.82×10^{-1}
N: 139

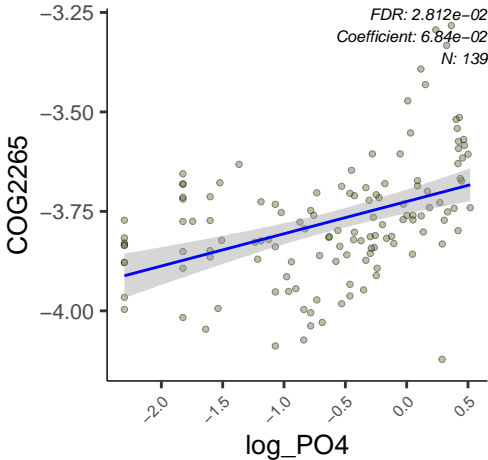


COG5525

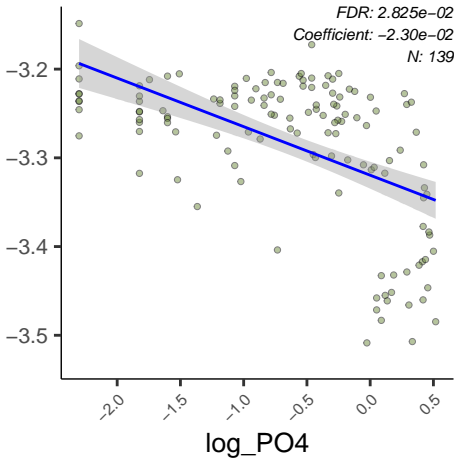


COG3129

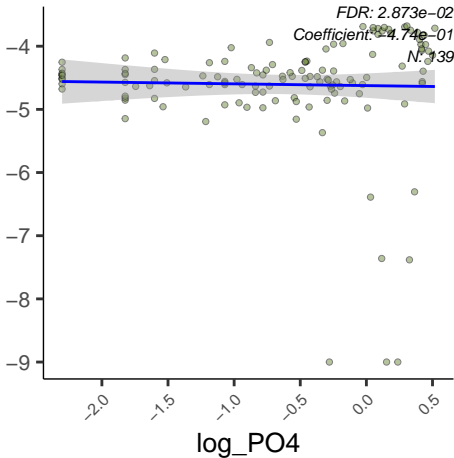




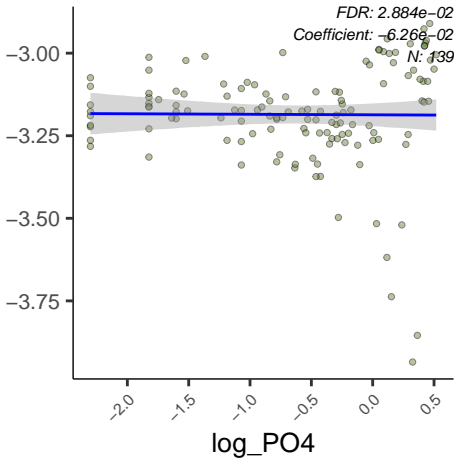
COG0331



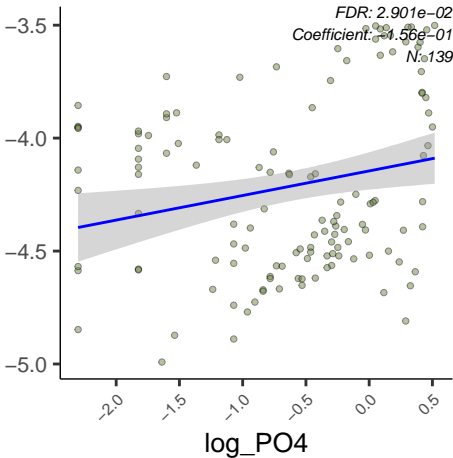
COG2178



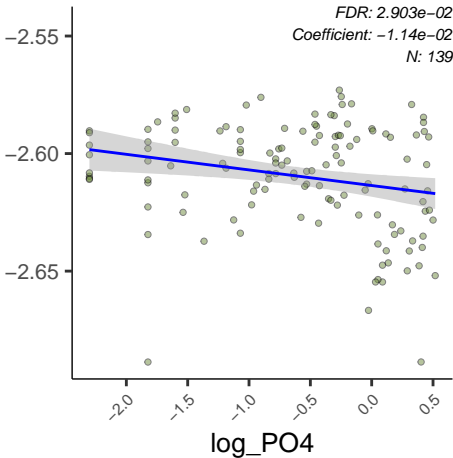
COG2114



COG1819



COG0526

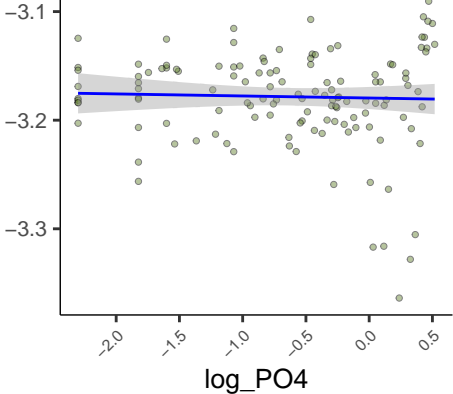


COG0558

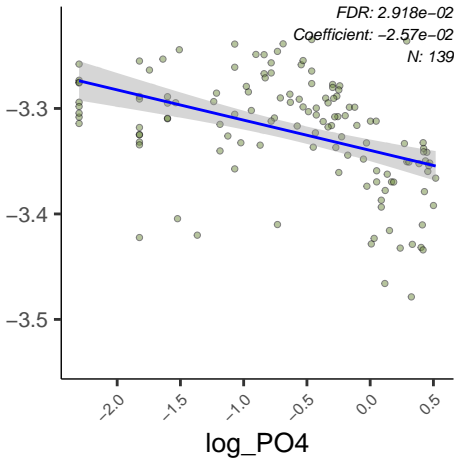
FDR: 2.914e-02

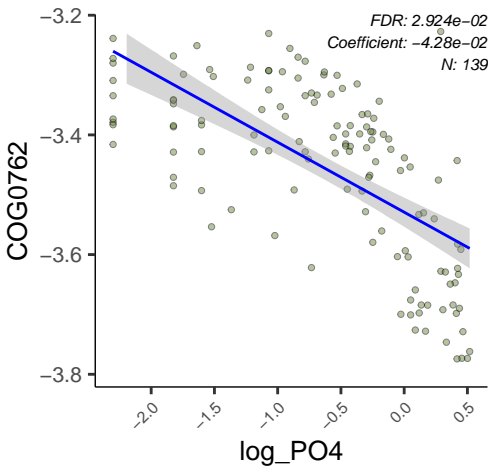
Coefficient: -2.47e-02

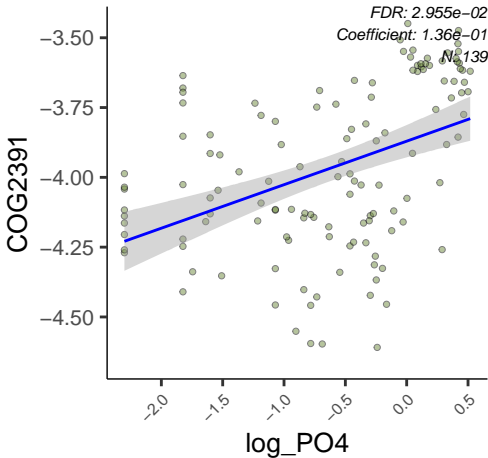
N: 139



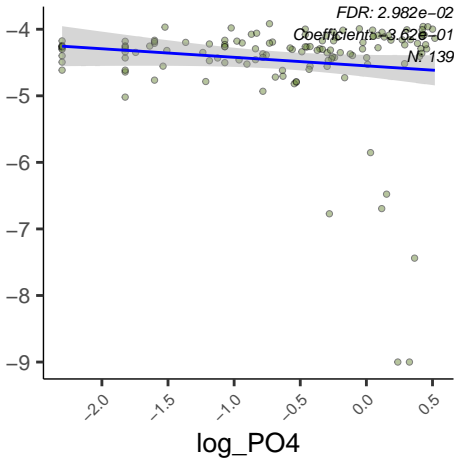
COG1354



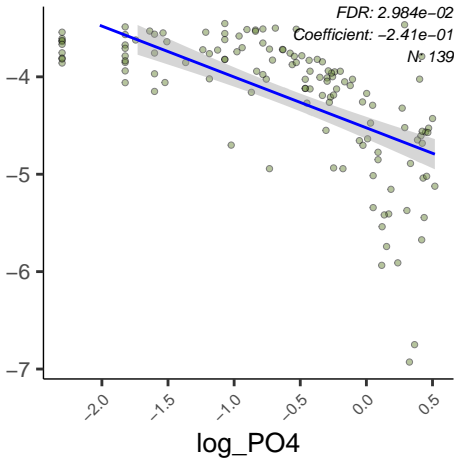




COG3872

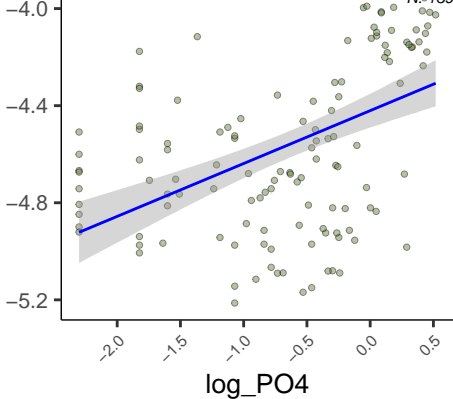


COG3769

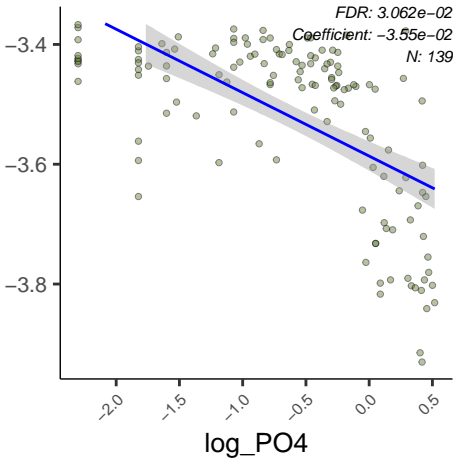


COG1246

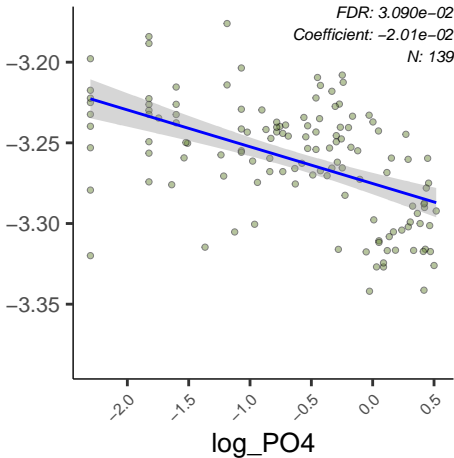
FDR: 3.037e-02
Coefficient: 1.43e-01
N: 139



COG0785



COG0099

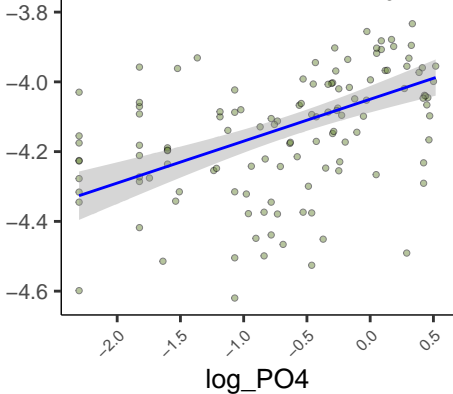


COG2838

FDR: $3.101e-02$

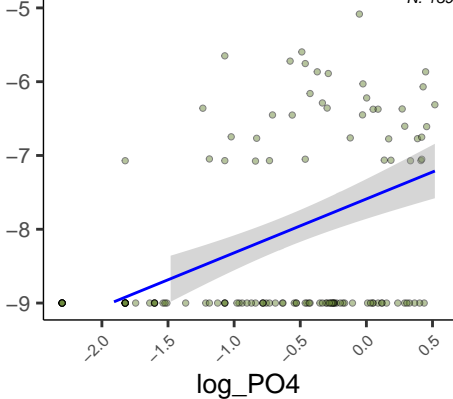
Coefficient: $9.12e-02$

N: 139

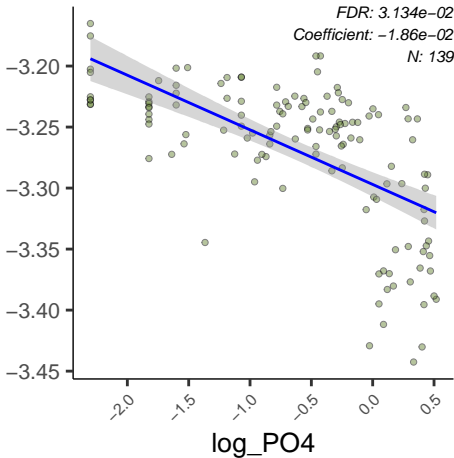


COG2451

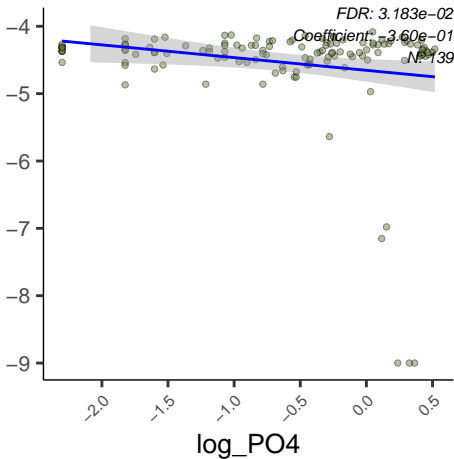
FDR: 3.127×10^{-2}
Coefficient: 6.87×10^{-1}
N: 139



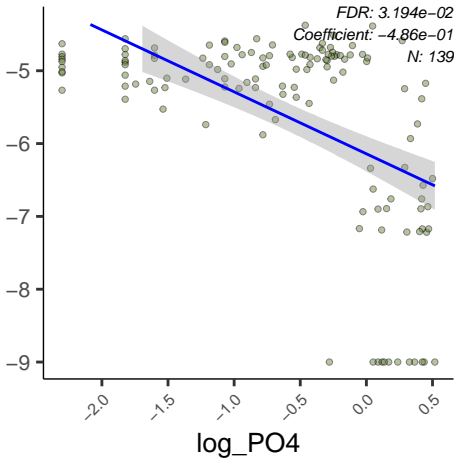
COG0576



COG2344



COG3731



COG0308

FDR: 3.201e-02

Coefficient: 4.62e-02

N: 139

-3.0

-3.1

-3.2

-3.3

-3.4

-3.5

-2.0

-1.5

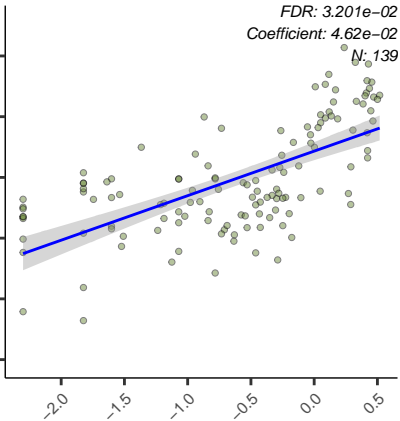
-1.0

-0.5

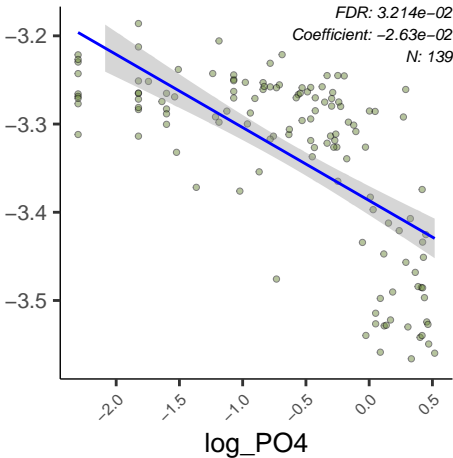
0.0

0.5

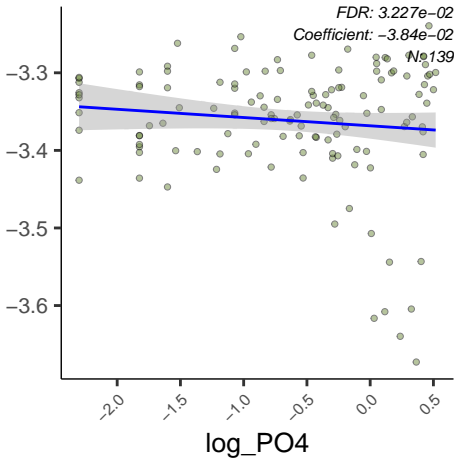
log_PO4



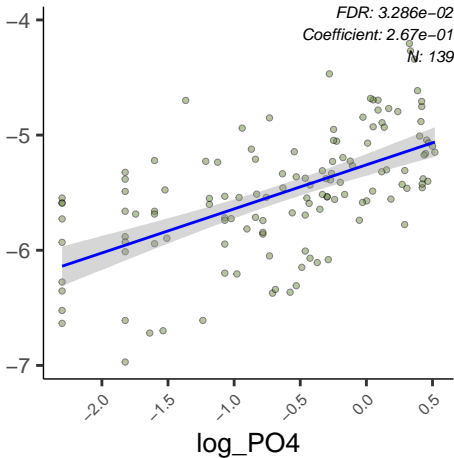
COG0717



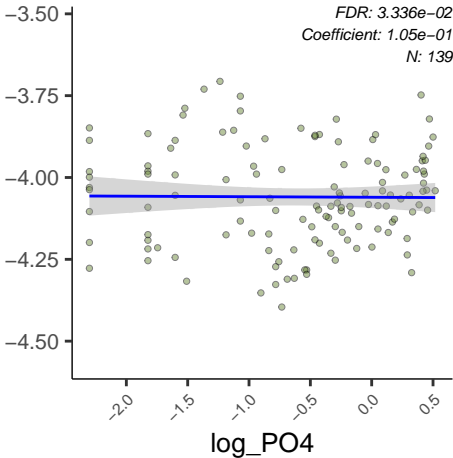
COG0852



COG4564

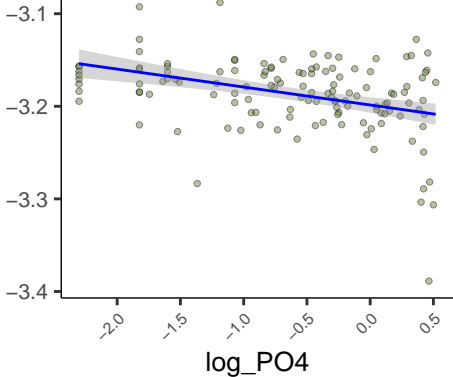


COG2374

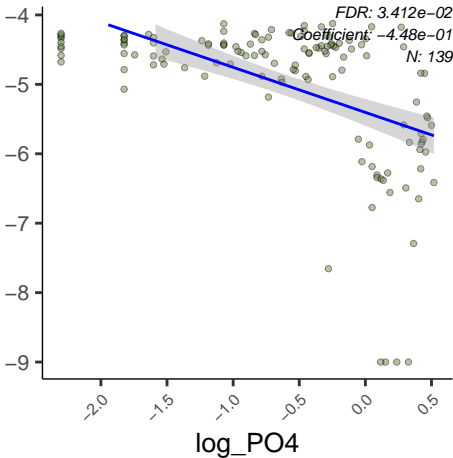


COG0190

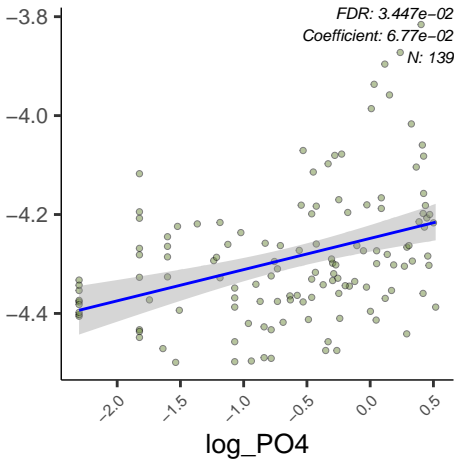
FDR: 3.357e-02
Coefficient: -2.19e-02
N: 139

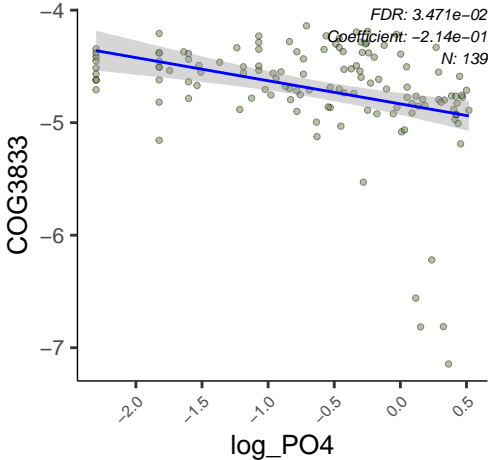


COG1623

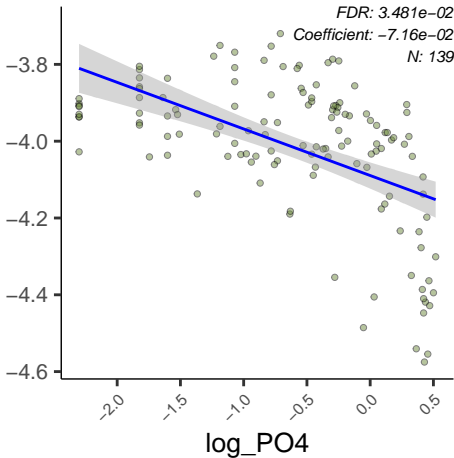


COG2938





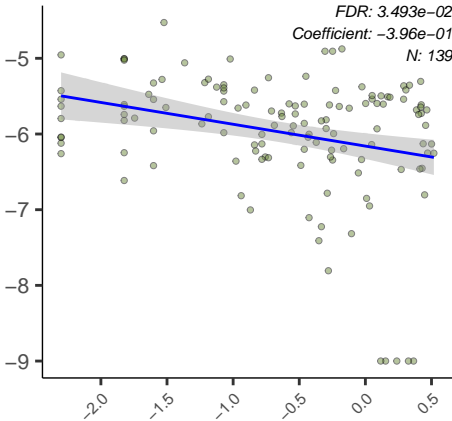
COG4091



COG4819

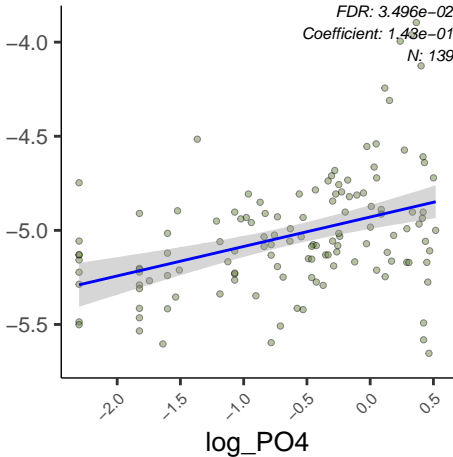
log_PO4

FDR: 3.493e-02
Coefficient: -3.96e-01
N: 139

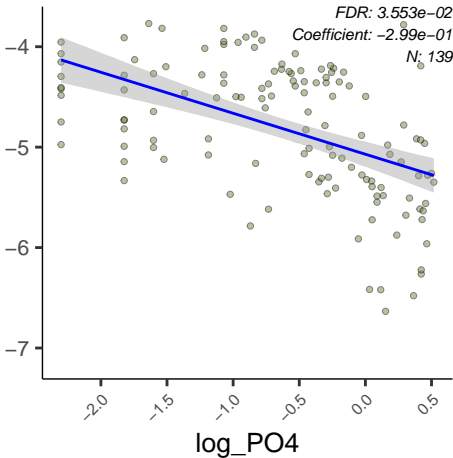


COG3487

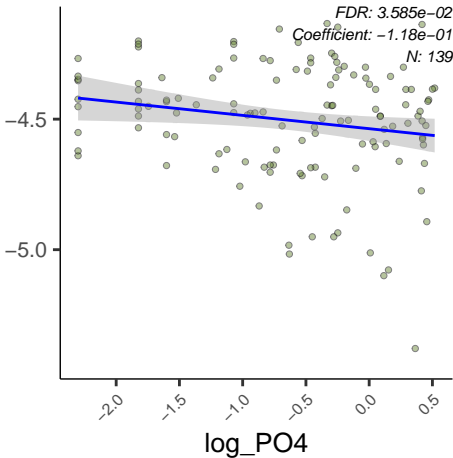
FDR: $3.496e-02$
Coefficient: $1.43e-01$
N: 139



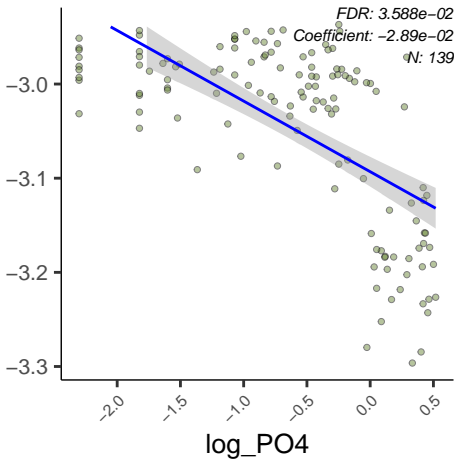
COG1787



COG2182

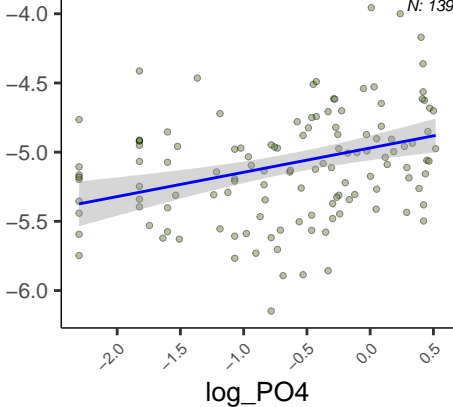


COG3288

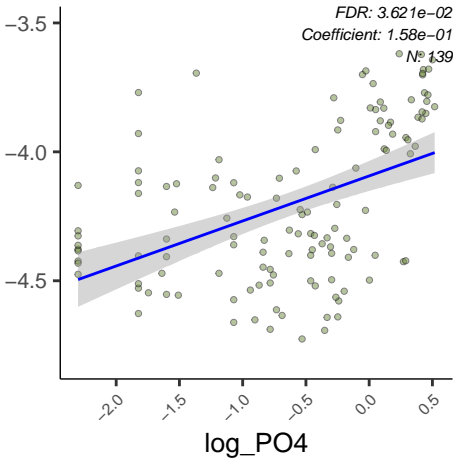


COG3345

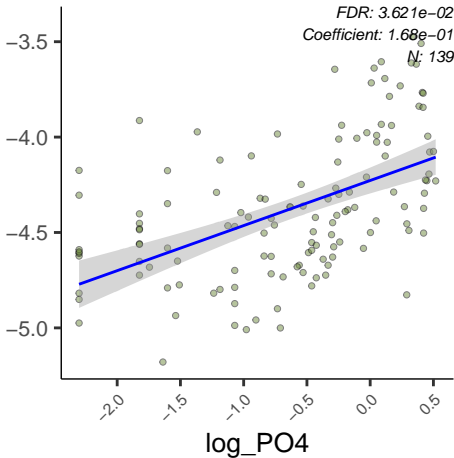
FDR: 3.609e-02
Coefficient: 2.31e-01
N: 139



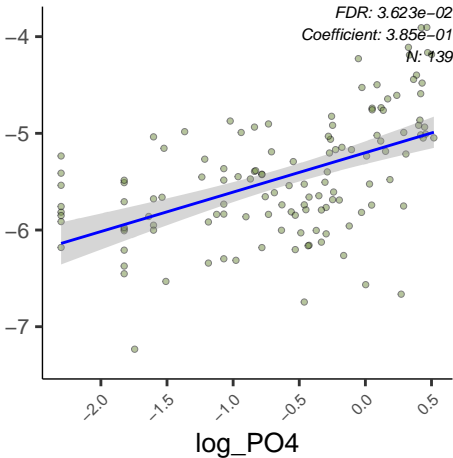
COG2186



COG3279

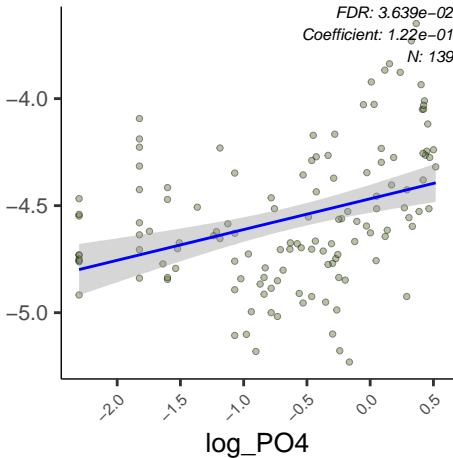


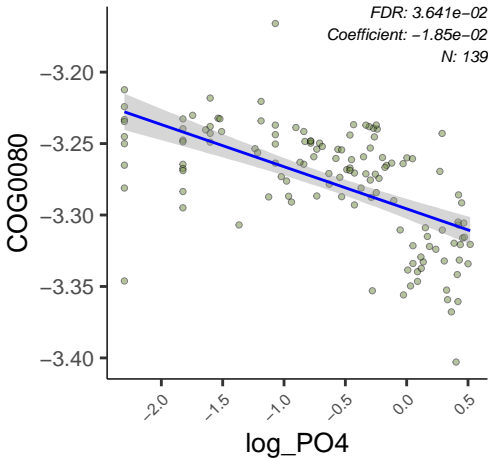
COG2852



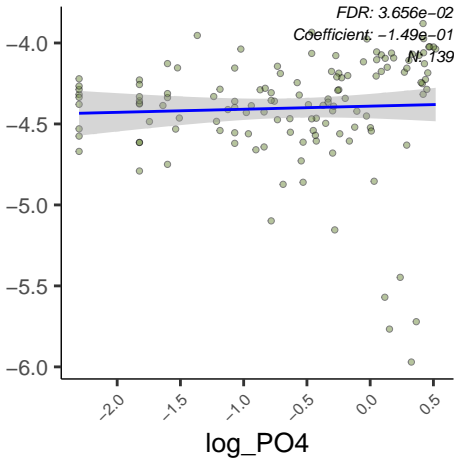
COG2878

FDR: 3.639e-02
Coefficient: 1.22e-01
N: 139

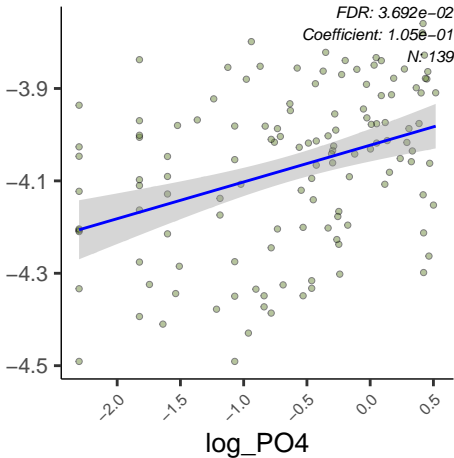




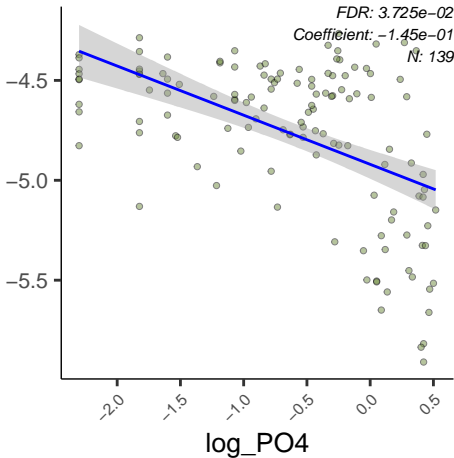
COG1716



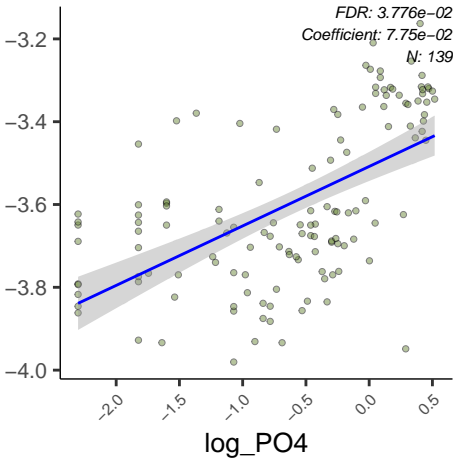
COG1820



COG4843



COG1670

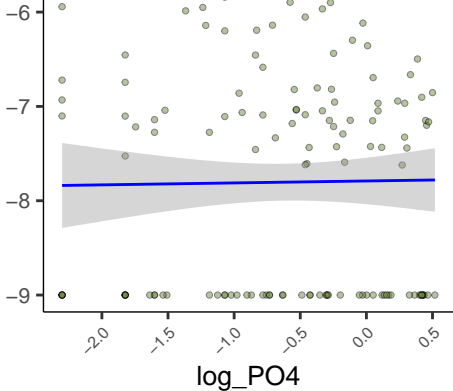


COG4189

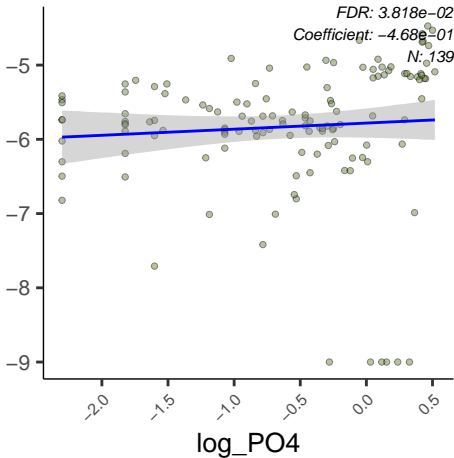
FDR: 3.796e-02

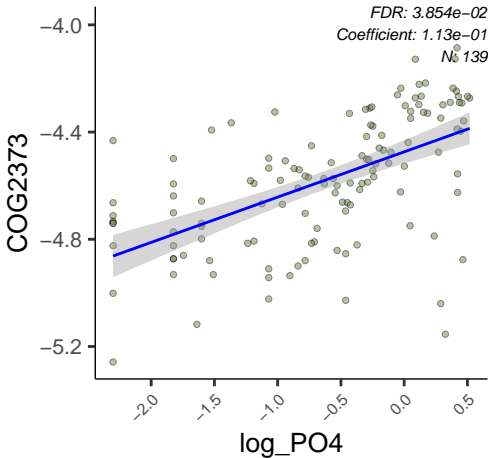
Coefficient: 7.37e-01

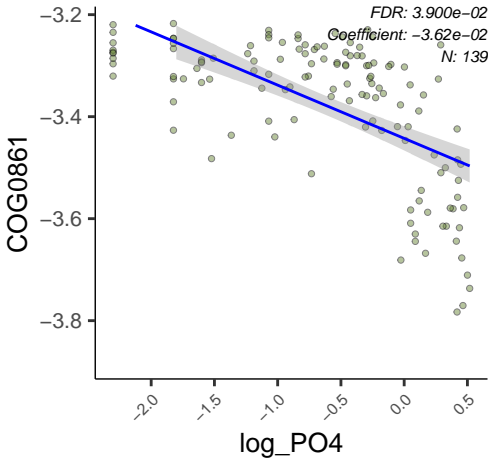
N: 139

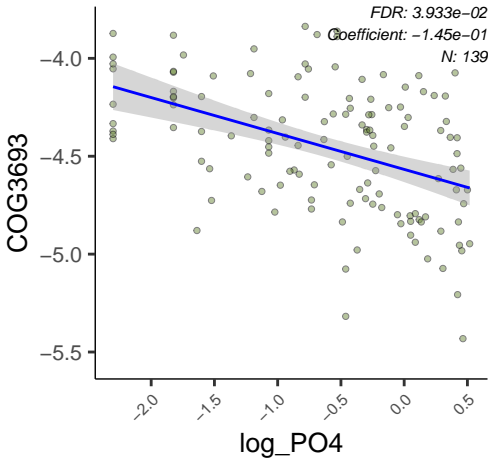


COG4752







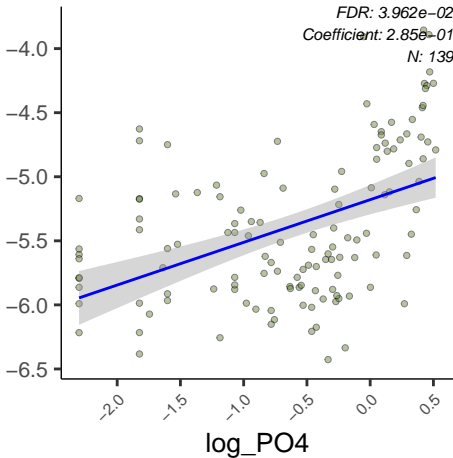


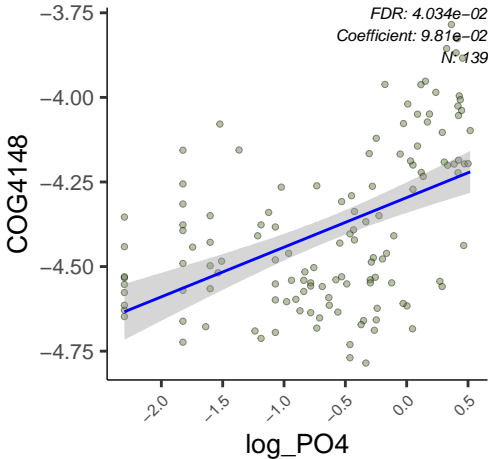
COG3677

FDR: 3.962e-02

Coefficient: 2.85e-01

N: 139

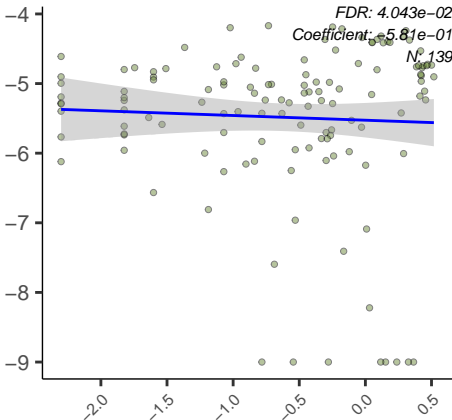




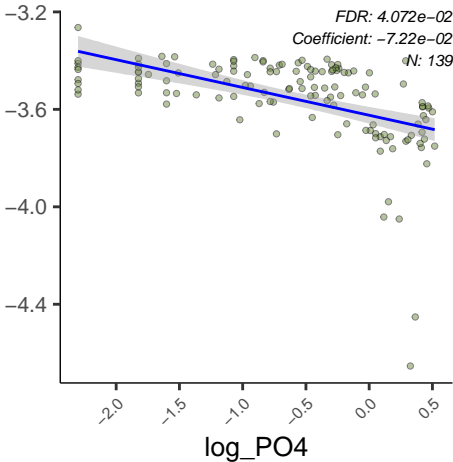
COG5427

log_PO4

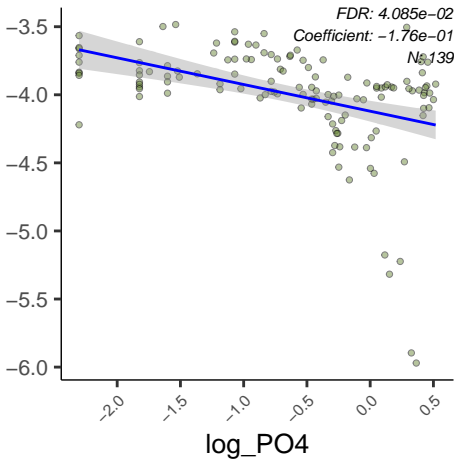
FDR: 4.043e-02
Coefficient: -5.81e-01
N: 139



COG2135



COG0830

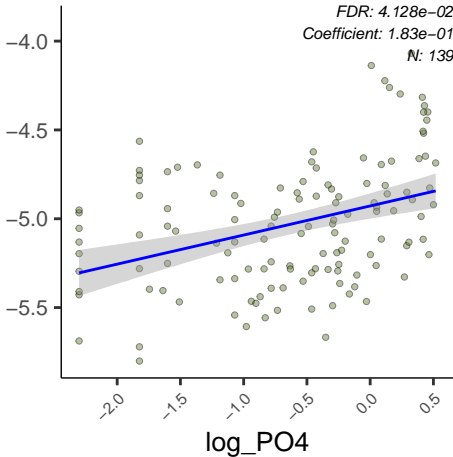


COG2833

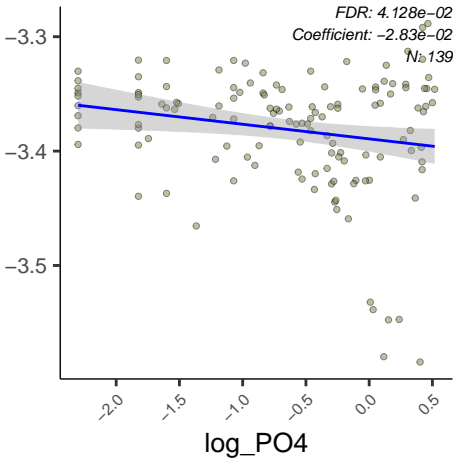
FDR: 4.128e-02

Coefficient: 1.83e-01

N: 139



COG0839

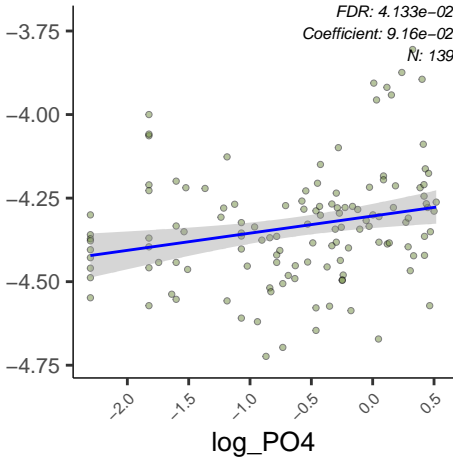


COG2983

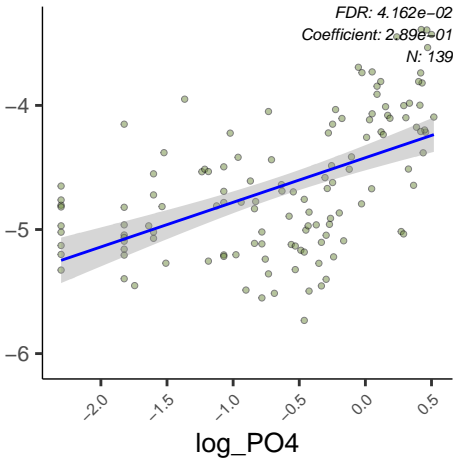
FDR: 4.133e-02

Coefficient: 9.16e-02

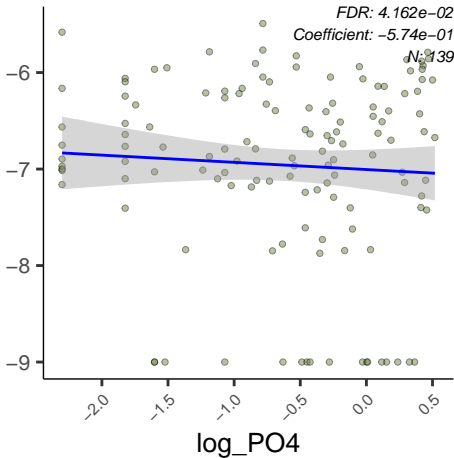
N: 139



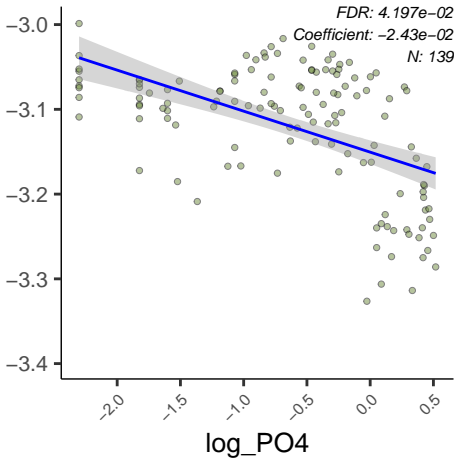
COG2826



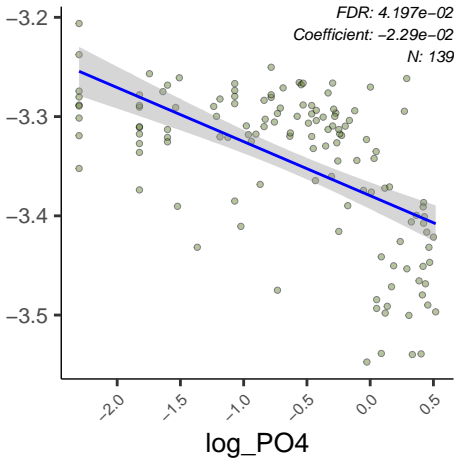
COG4986



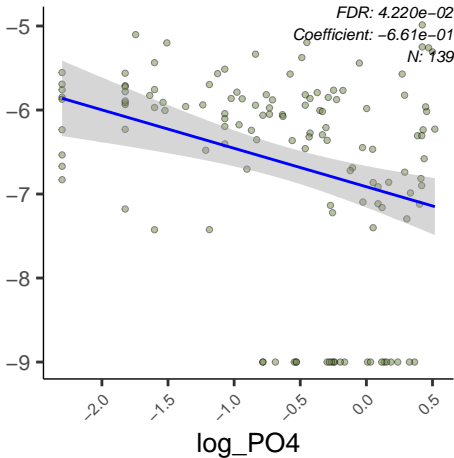
COG0173



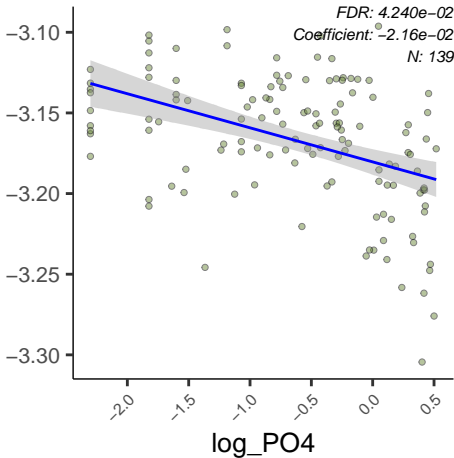
COG0328



COG1059



COG0016



COG3460

-4.25

-4.50

-4.75

-5.00

-2.0

-1.5

-1.0

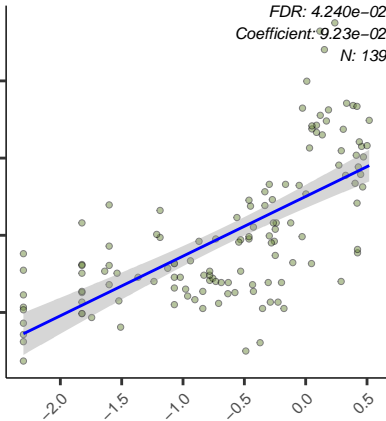
-0.5

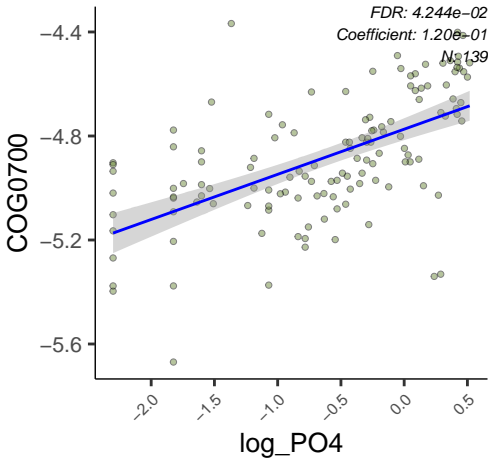
0.0

0.5

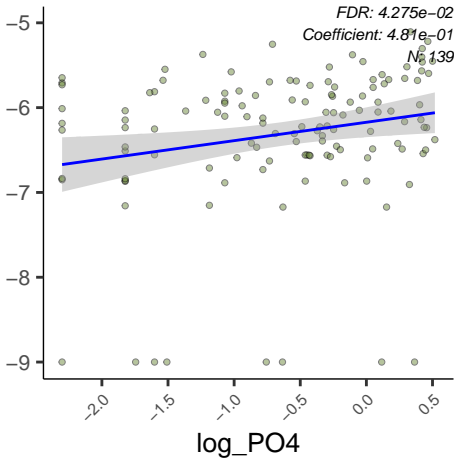
log_PO4

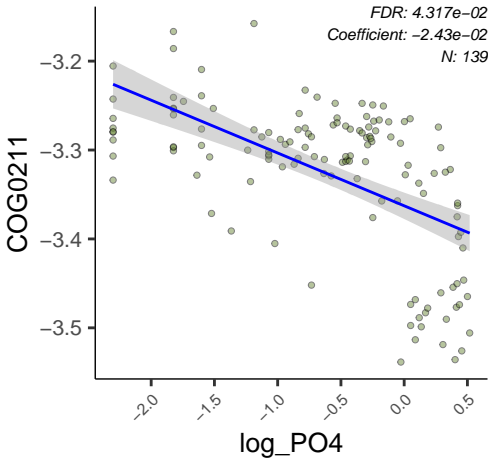
FDR: 4.240e-02
Coefficient: 9.23e-02
N: 139



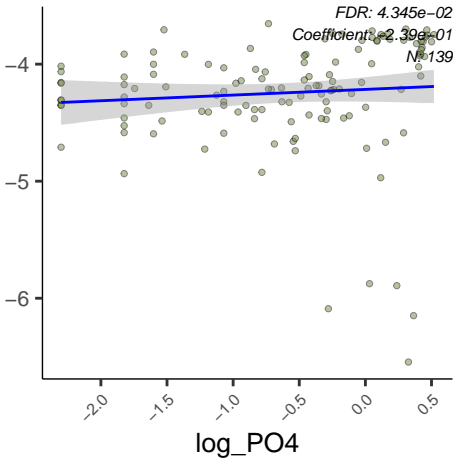


COG4634



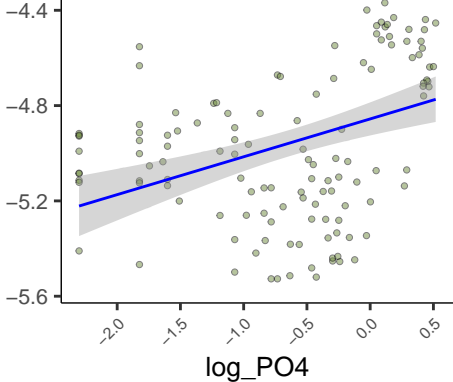


COG0311

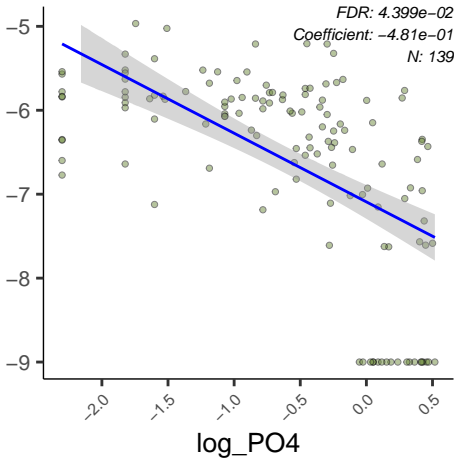


COG1965

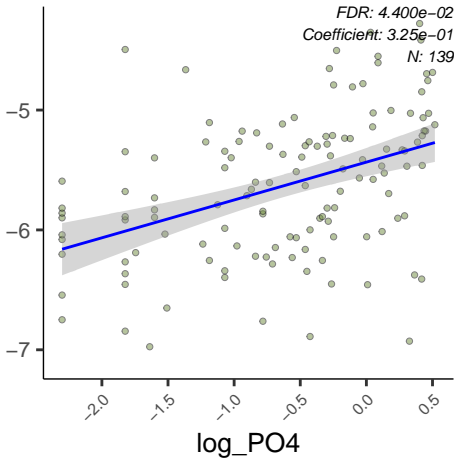
FDR: 4.347e-02
Coefficient: 1.69e-01
N: 139



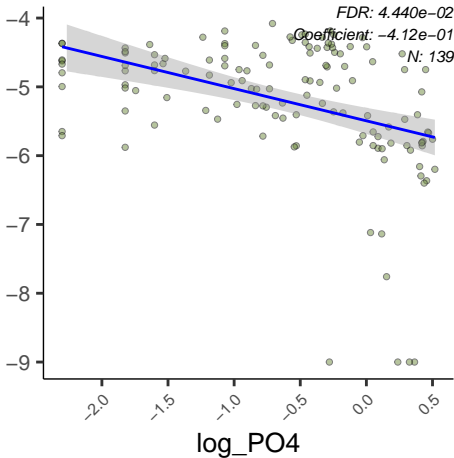
COG4034



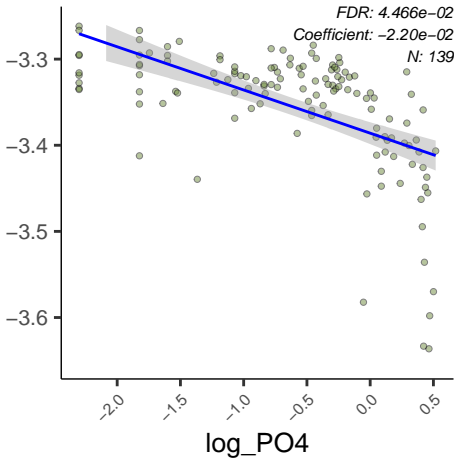
COG3656



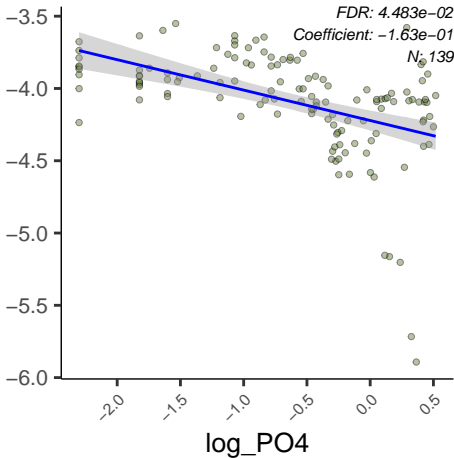
COG4945



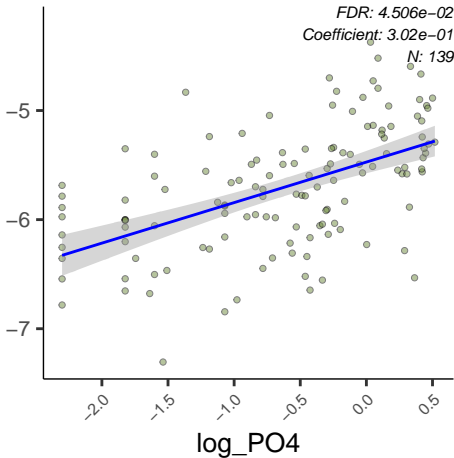
COG2154



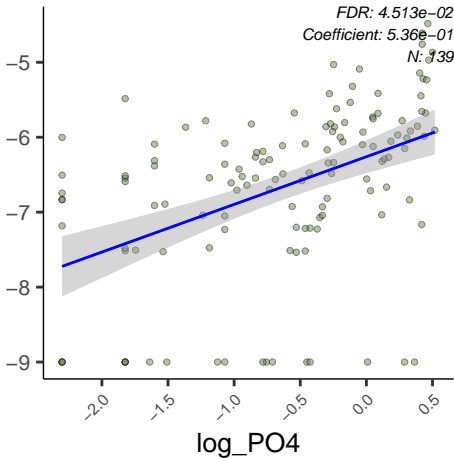
COG0832



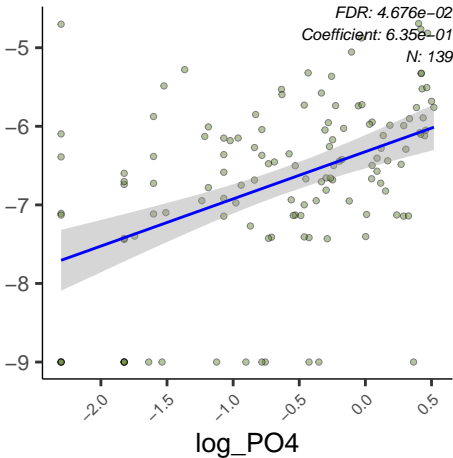
COG3708



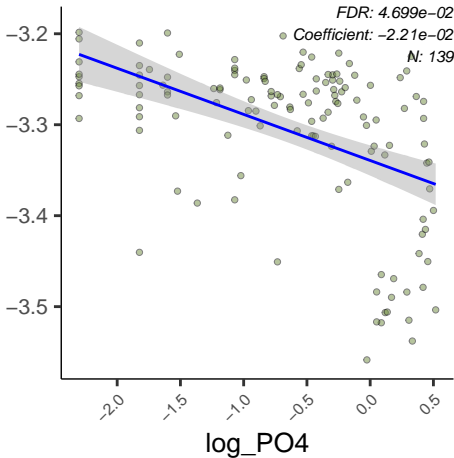
COG1969



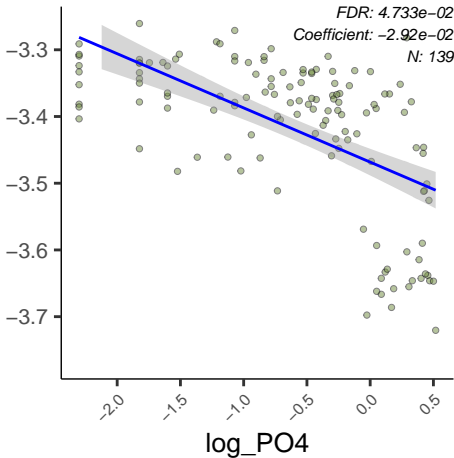
COG5516



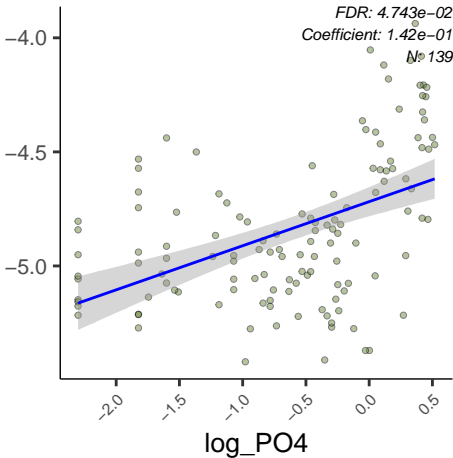
COG0325



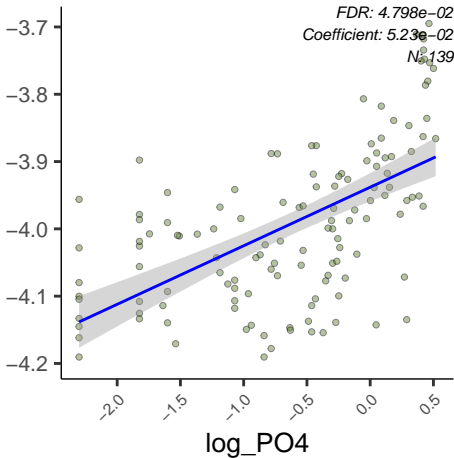
COG0291



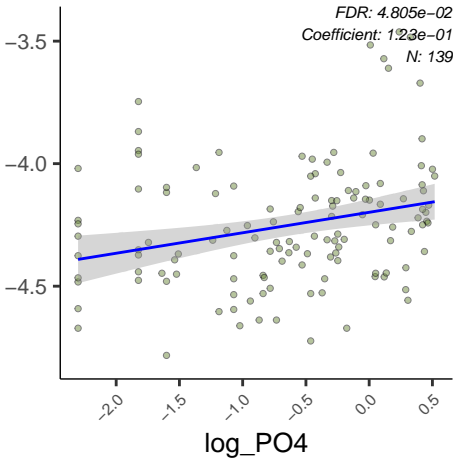
COG3749

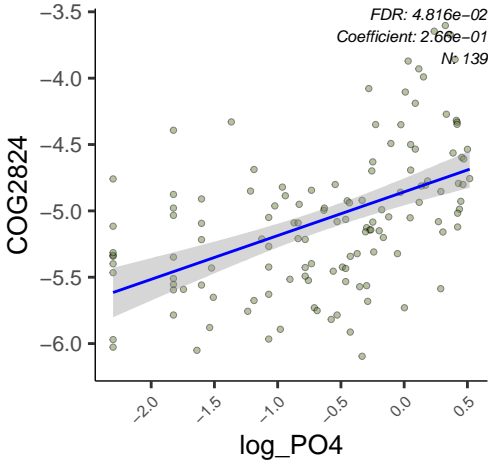


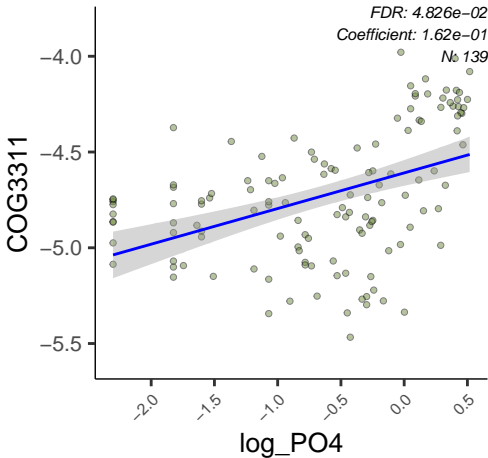
COG2137



COG1737







COG2202

FDR: 4.842e-02

Coefficient: 1.81e-01

N: 139

-3.0

-3.5

-4.0

-4.5

-2.0

-1.5

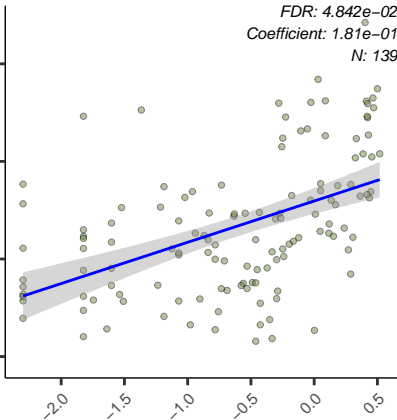
-1.0

-0.5

0.0

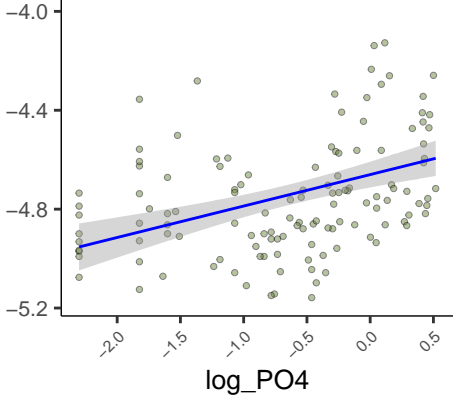
0.5

log_PO4

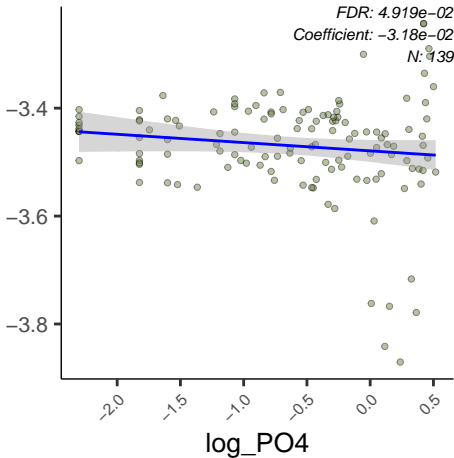


COG2981

FDR: 4.885e-02
Coefficient: 1.44e-01
N: 139

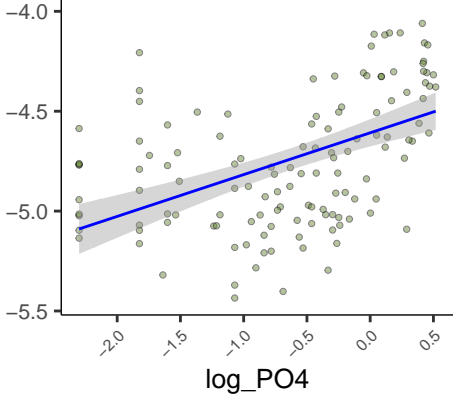


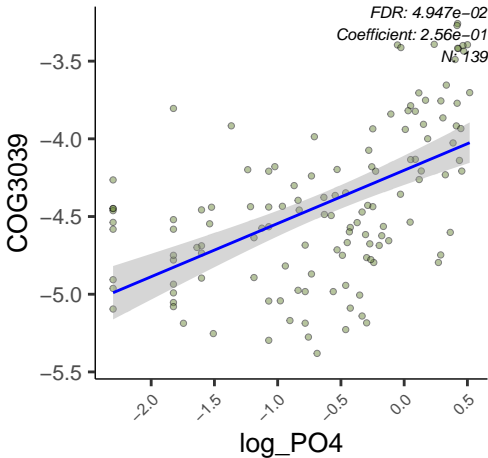
COG0432



COG2969

FDR: 4.921×10^{-2}
Coefficient: 1.21×10^{-1}
N: 139





COG3784

-5

-6

-7

-2.0

-1.5

-1.0

-0.5

0.0

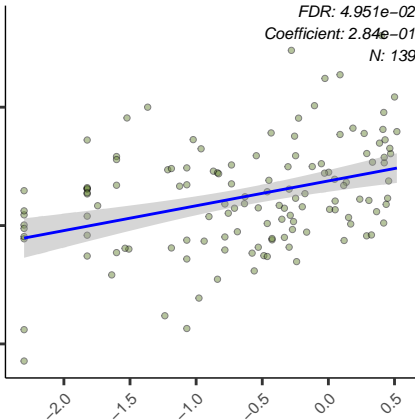
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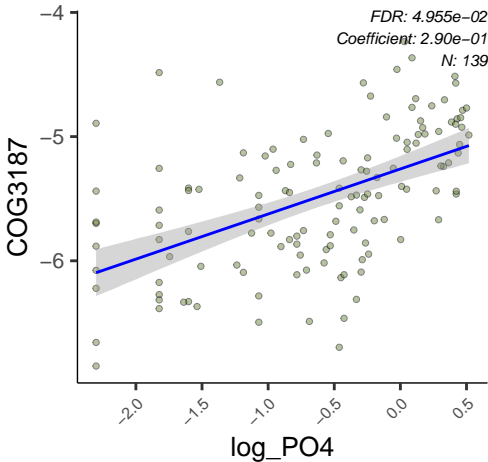
log_PO4

FDR: 4.951e-02

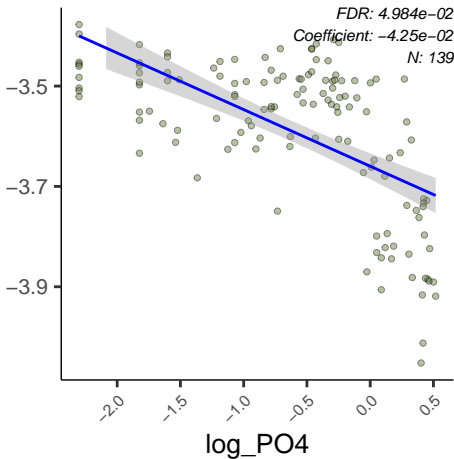
Coefficient: 2.84e-01

N: 139





COG1329



COG4263

