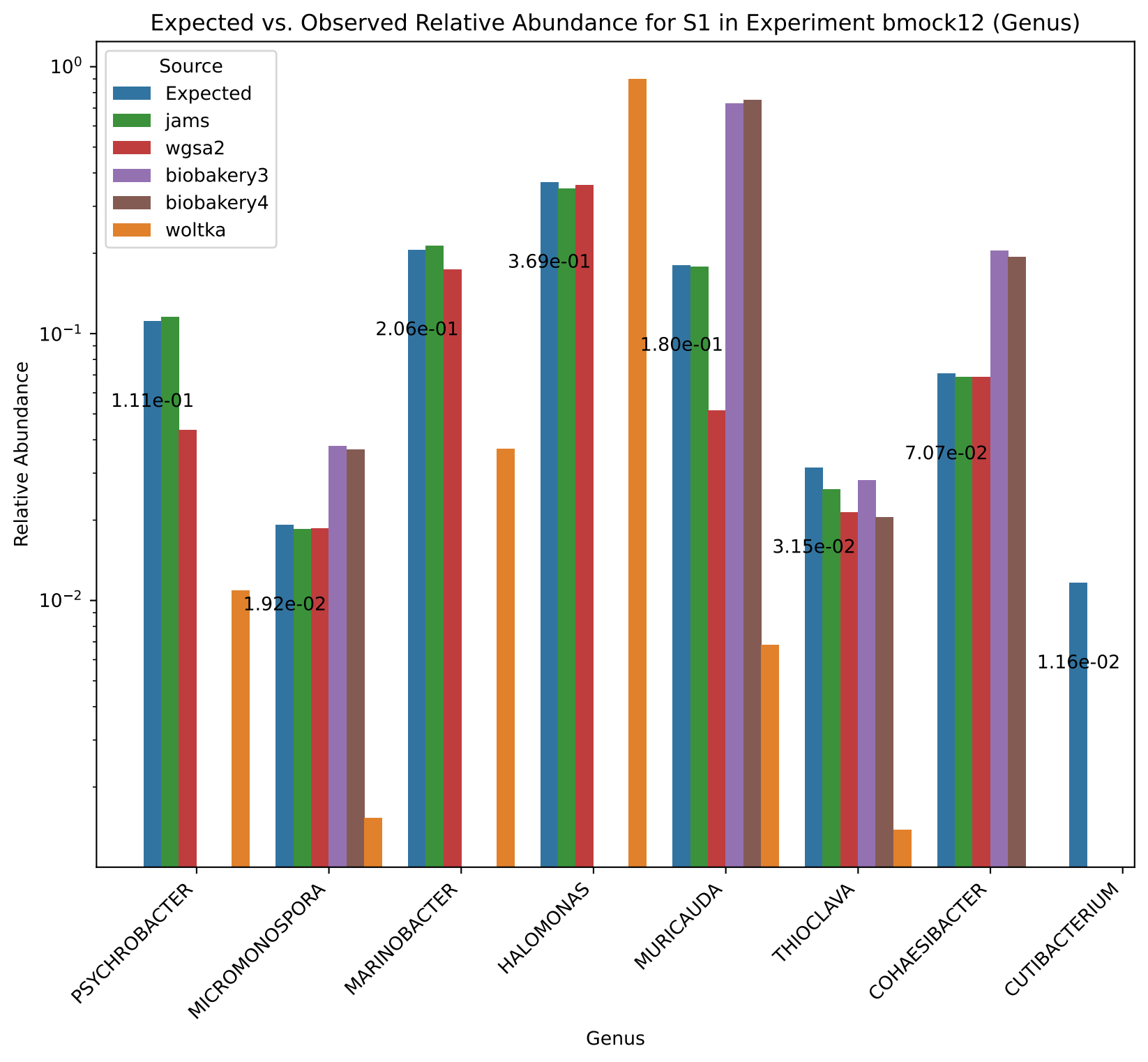
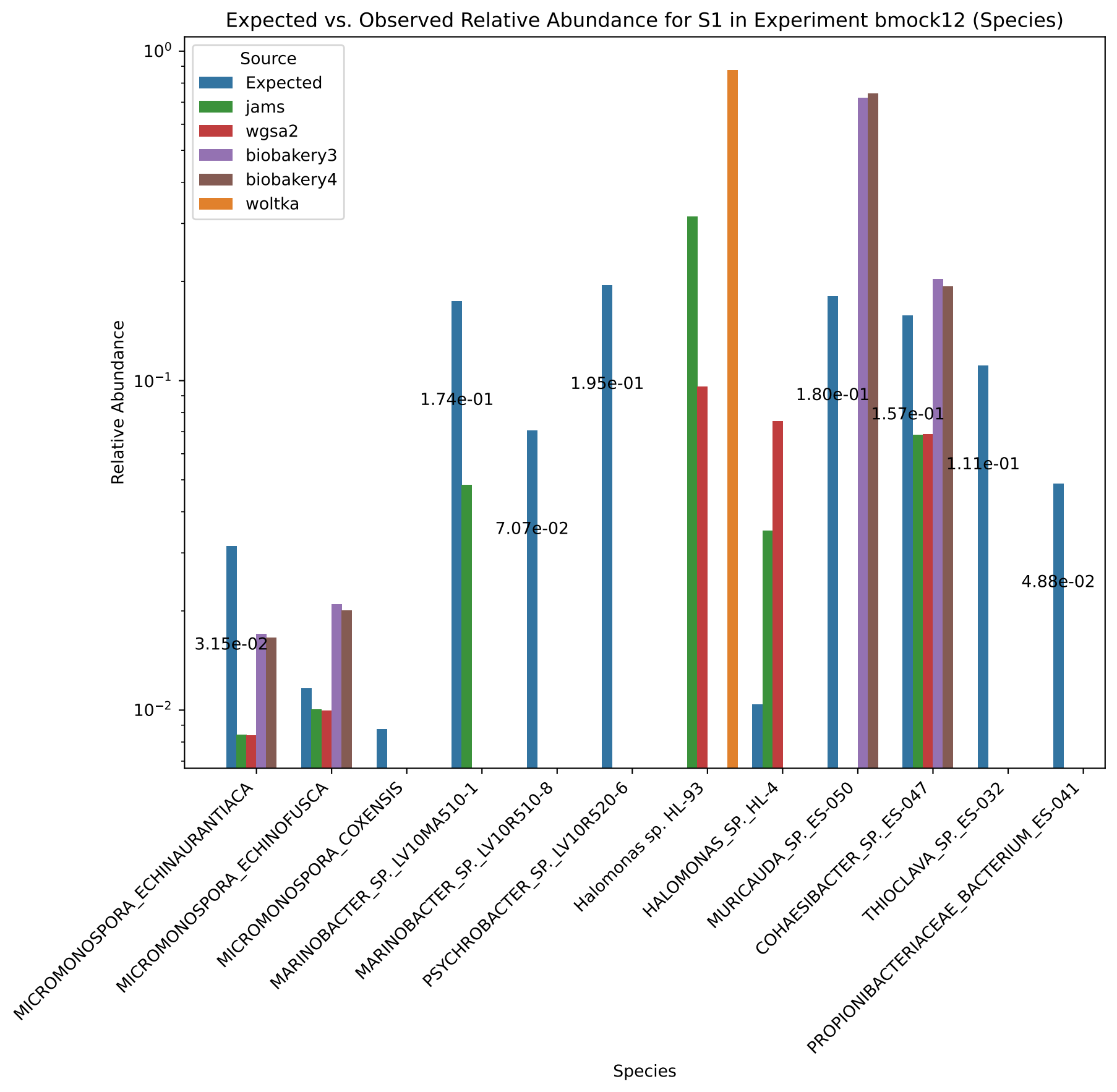
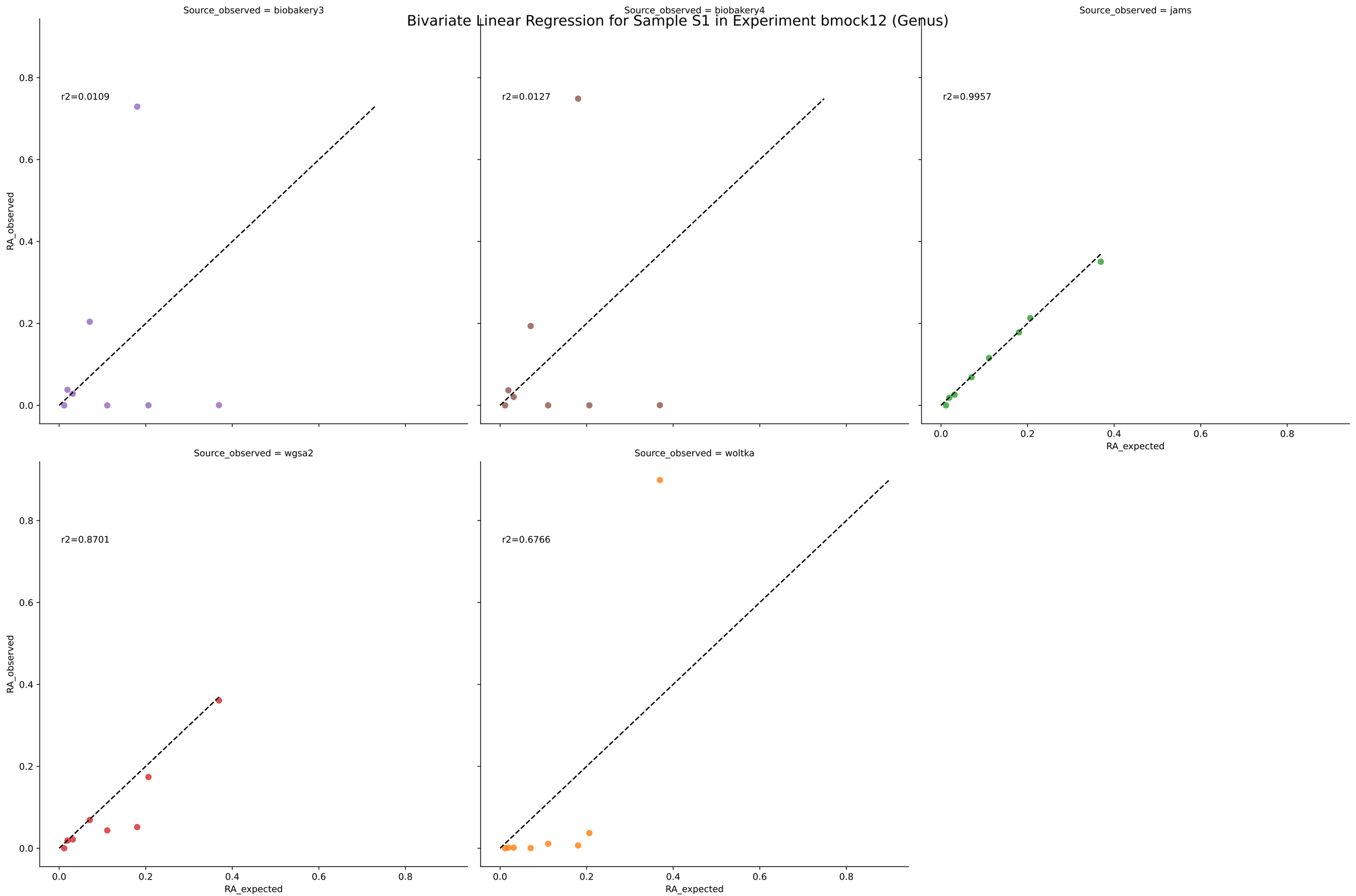
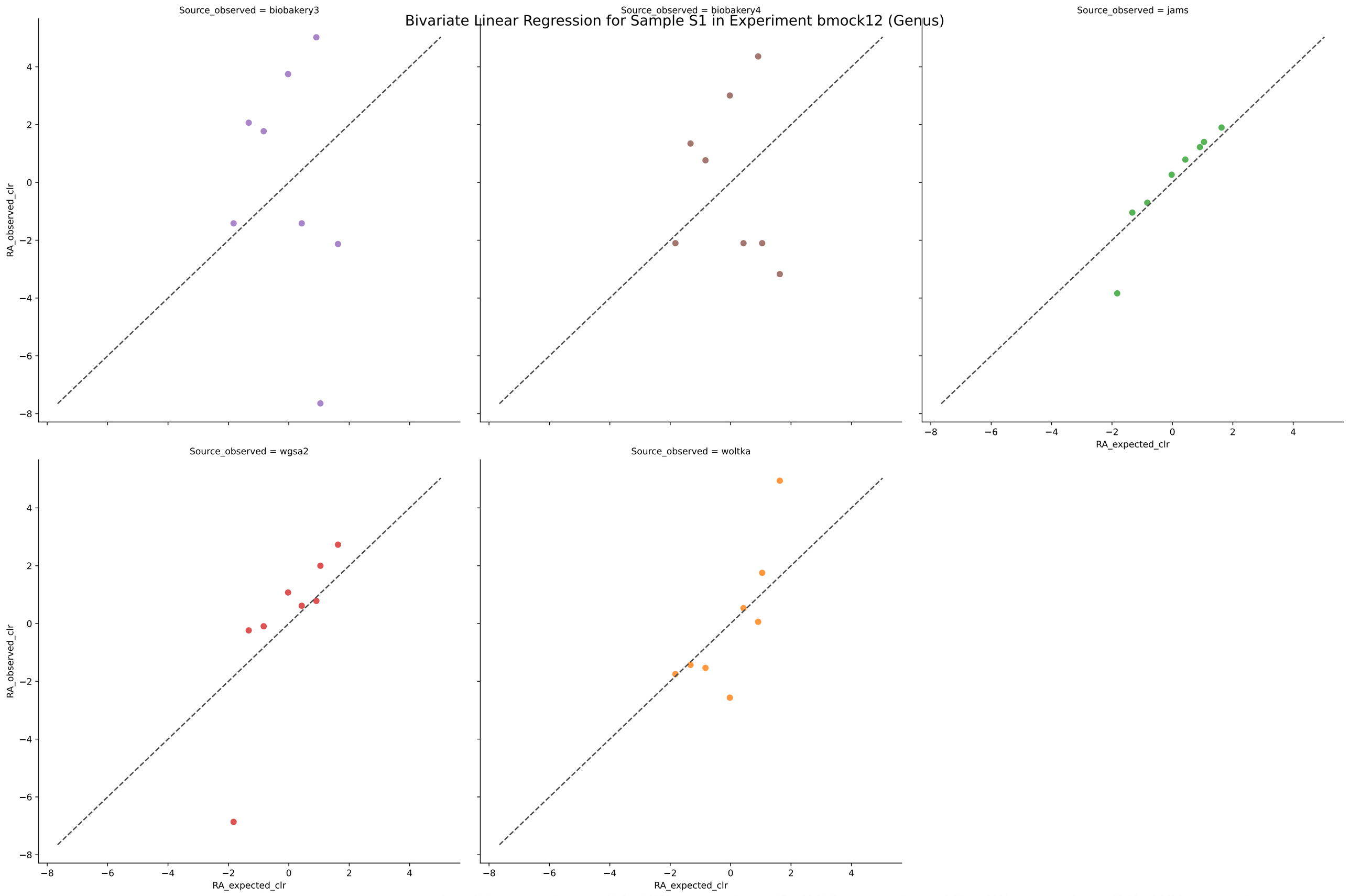

Expected vs. Observed Relative Abundance for S1 in Experiment bmock12 (Genus)
Source
Expected
jams
wgsa2
biobakery3
biobakery4
woltka
Relative Abundance
10^{0}
10^{-1}
10^{-2}
1.11e-01
1.92e-02
2.06e-01
3.69e-01
1.80e-01
3.15e-02
7.07e-02
1.16e-02
PSYCHROBACTER
MICROMONOSPORA
MARINOBACTER
HALOMONAS
MURICAUDA
THIOCLAVA
COHAESIBACTER
CUTIBACTERIUM
Genus


Expected vs. Observed Relative Abundance for S1 in Experiment bmock12 (Species)
Source
Expected
jams
wgsa2
biobakery3
biobakery4
woltka
Relative Abundance
10^{0}
10^{-1}
10^{-2}
3.15e-02
1.74e-01
7.07e-02
1.95e-01
1.80e-01
1.57e-01
1.11e-01
4.88e-02
MICROMONOSPORA_ECHINAURANTIACA
MICROMONOSPORA_ECHINOFUSCA
MICROMONOSPORA_COXENSIS
MARINOBACTER_SP._LV10MA510-1
MARINOBACTER_SP._LV10R510-8
PSYCHROBACTER_SP._LV10R520-6
Halomonas sp. HL-93
HALOMONAS_SP._HL-4
MURICAUDA_SP._ES-050
COHAESIBACTER_SP._ES-047
THIOCLAVA_SP._ES-032
PROPIONIBACTERIACEAE_BACTERIUM_ES-041
Species

Bivariate Linear Regression for Sample S1 in Experiment bmock12 (Genus)

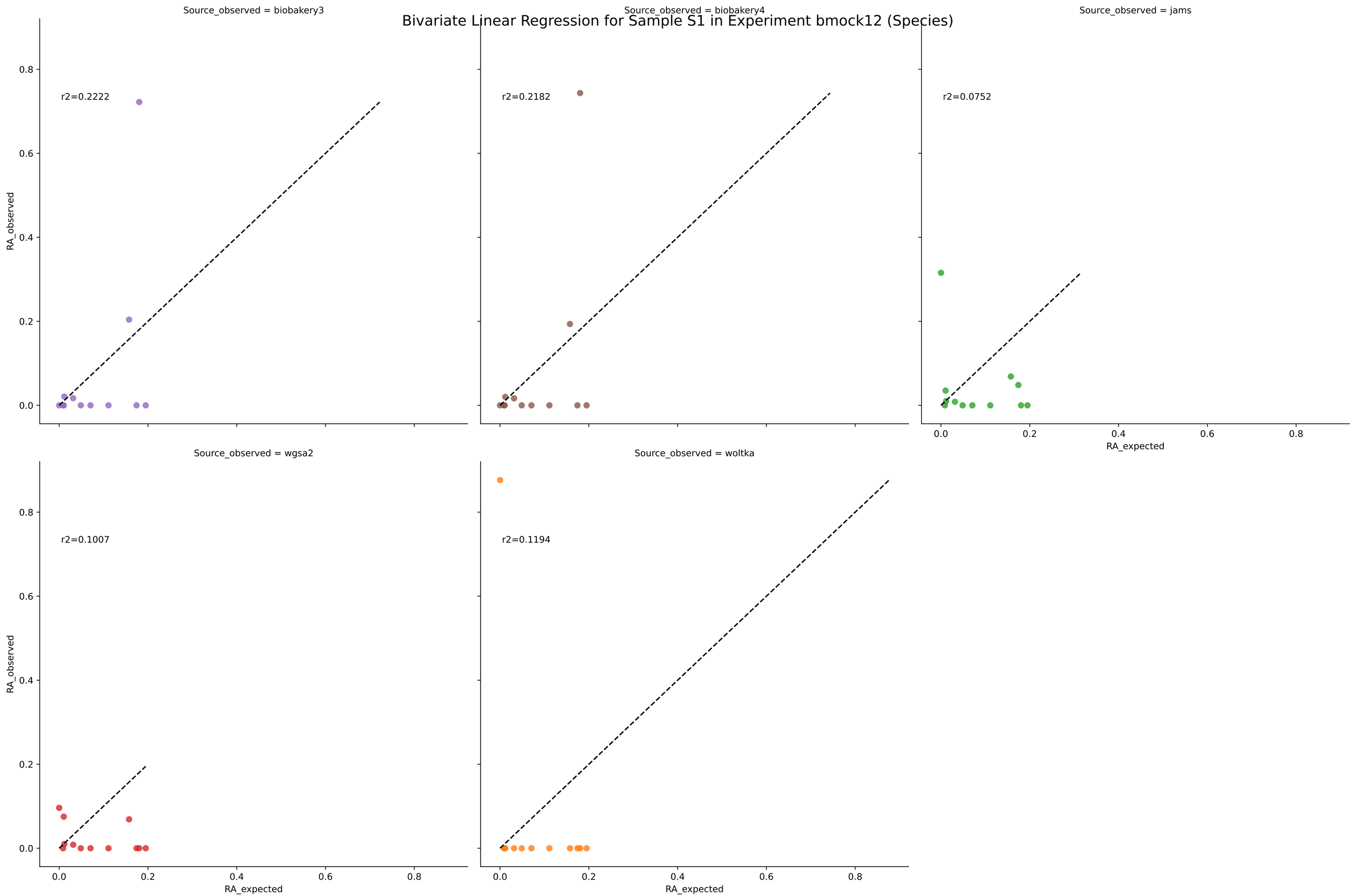


Bivariate Linear Regression for Sample S1 in Experiment bmock12 (Genus)

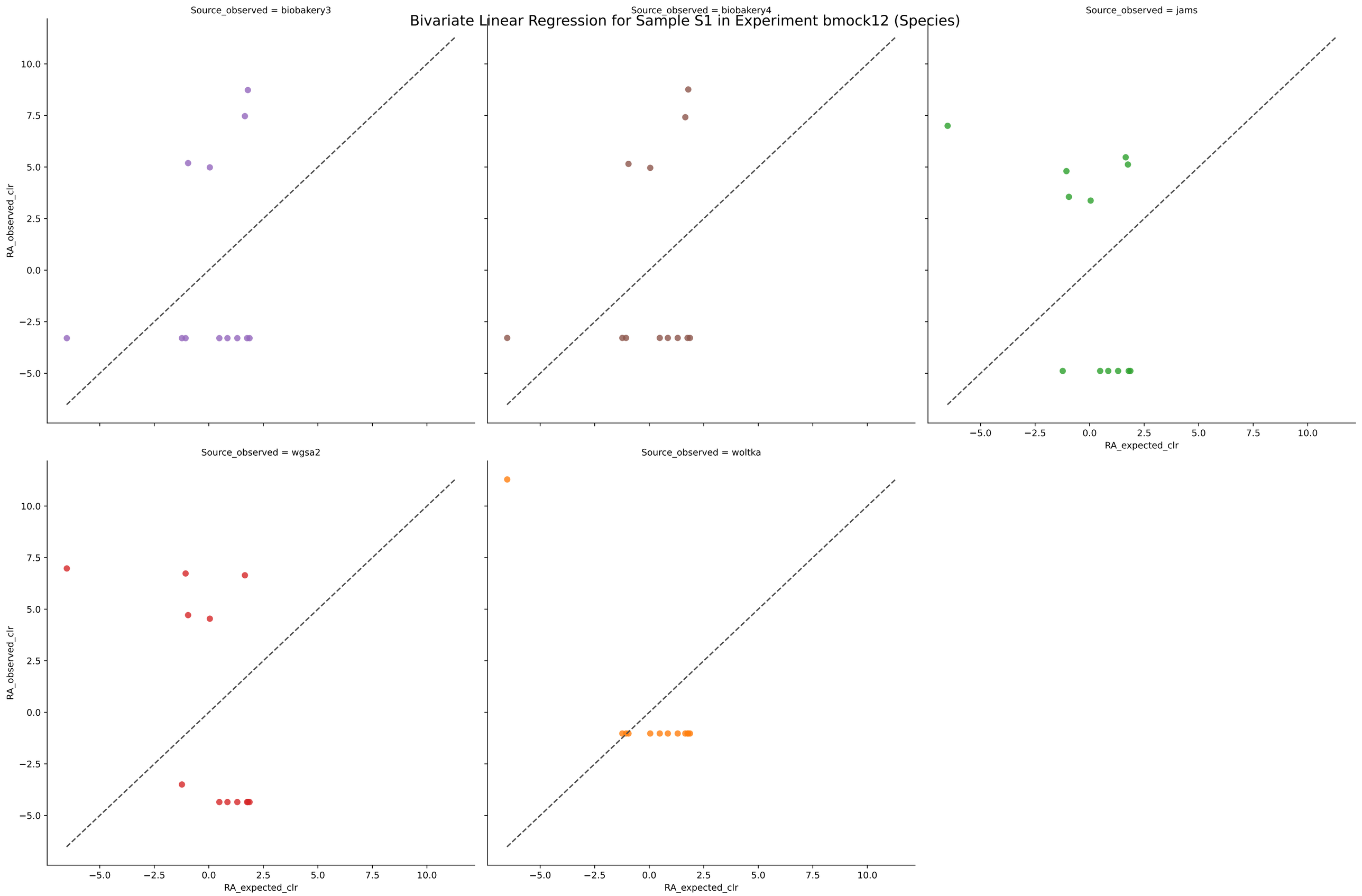


r² = 0.0109 for biobakery3	MAE = 0.1752 for biobakery3	AD = 11.9441 for biobakery3	1-BC = 0.2991 for biobakery3	RMSE = 0.2526 for biobakery3
r² = 0.0127 for biobakery4	MAE = 0.1772 for biobakery4	AD = 8.3803 for biobakery4	1-BC = 0.2912 for biobakery4	RMSE = 0.2573 for biobakery4
r² = 0.9957 for jams	MAE = 0.0065 for jams	AD = 2.1554 for jams	1-BC = 0.9736 for jams	RMSE = 0.0086 for jams
r² = 0.8701 for wgsa2	MAE = 0.0326 for wgsa2	AD = 5.5177 for wgsa2	1-BC = 0.8499 for wgsa2	RMSE = 0.0530 for wgsa2
r² = 0.6766 for woltka	MAE = 0.1378 for woltka	AD = 4.3798 for woltka	1-BC = 0.4368 for woltka	RMSE = 0.2108 for woltka

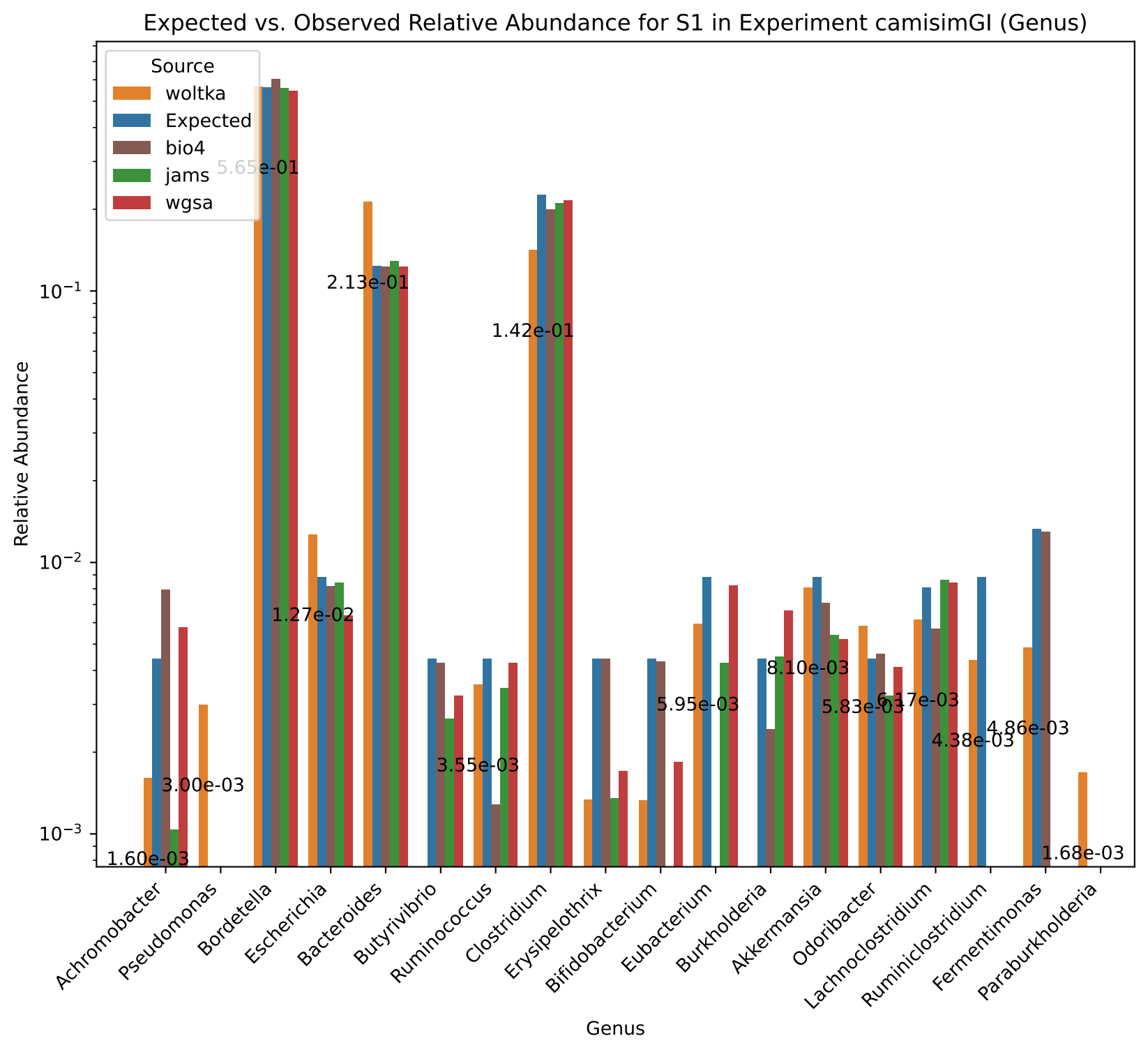
Bivariate Linear Regression for Sample S1 in Experiment bmock12 (Species)

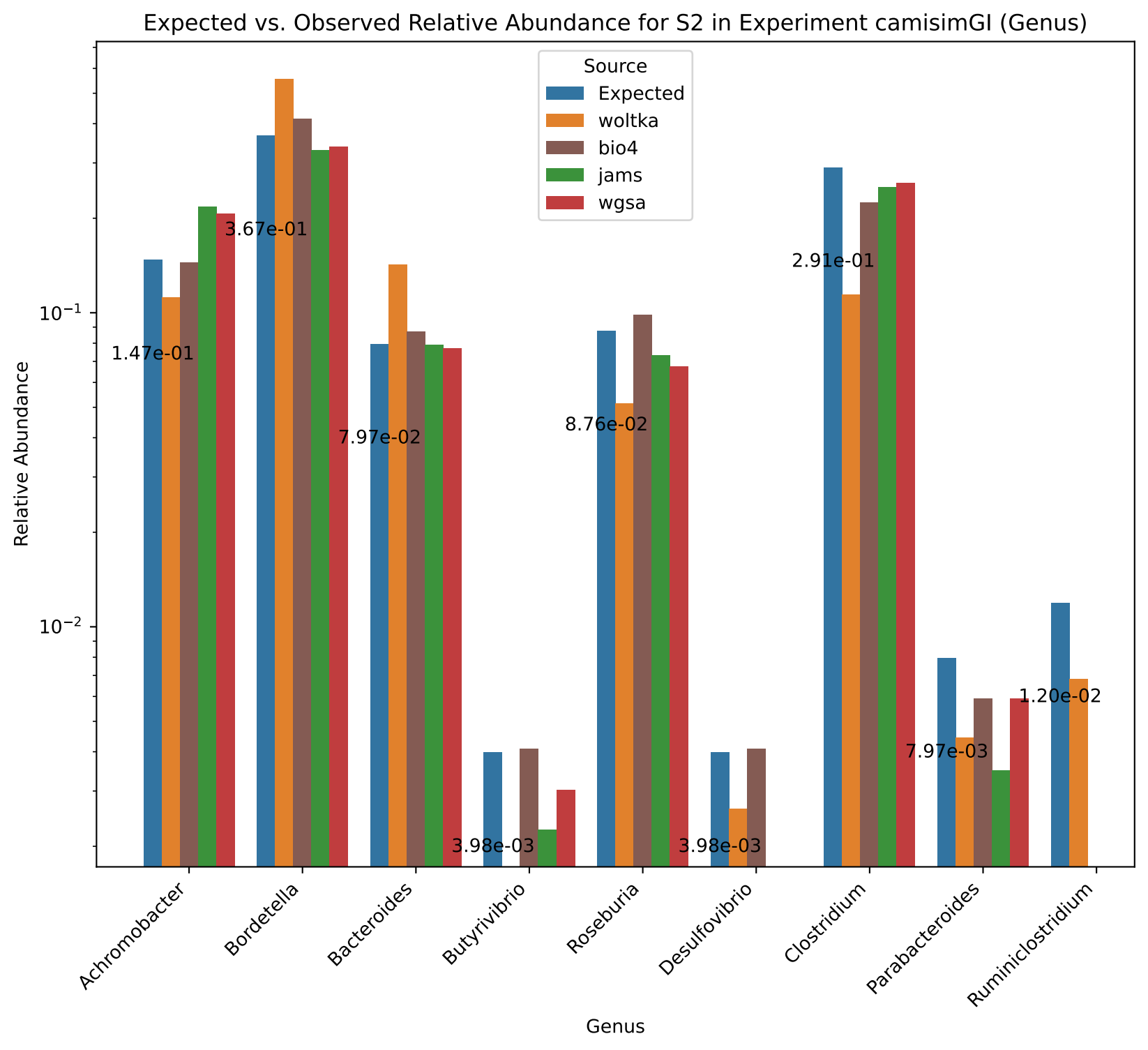


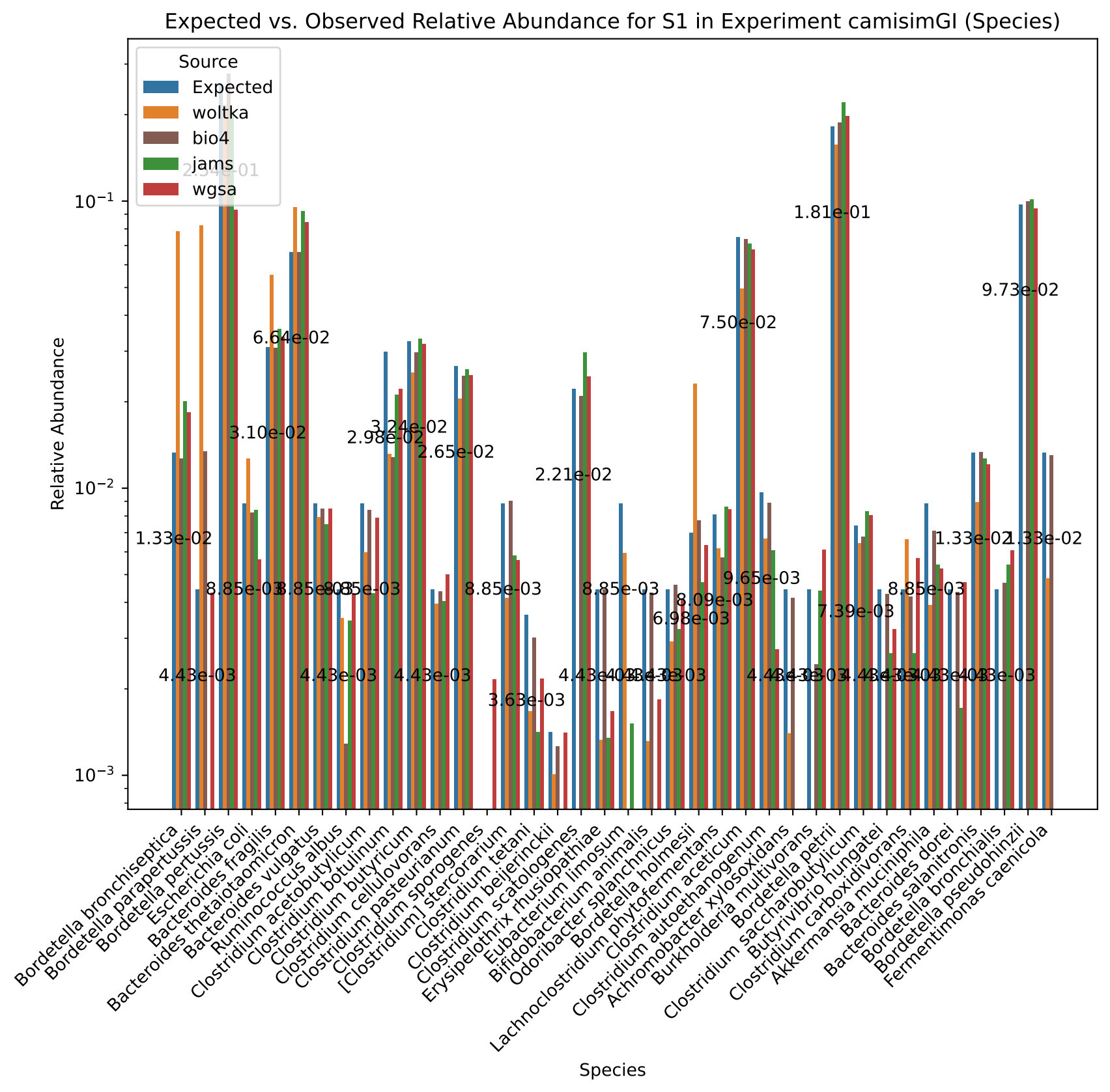
Bivariate Linear Regression for Sample S1 in Experiment bmock12 (Species)

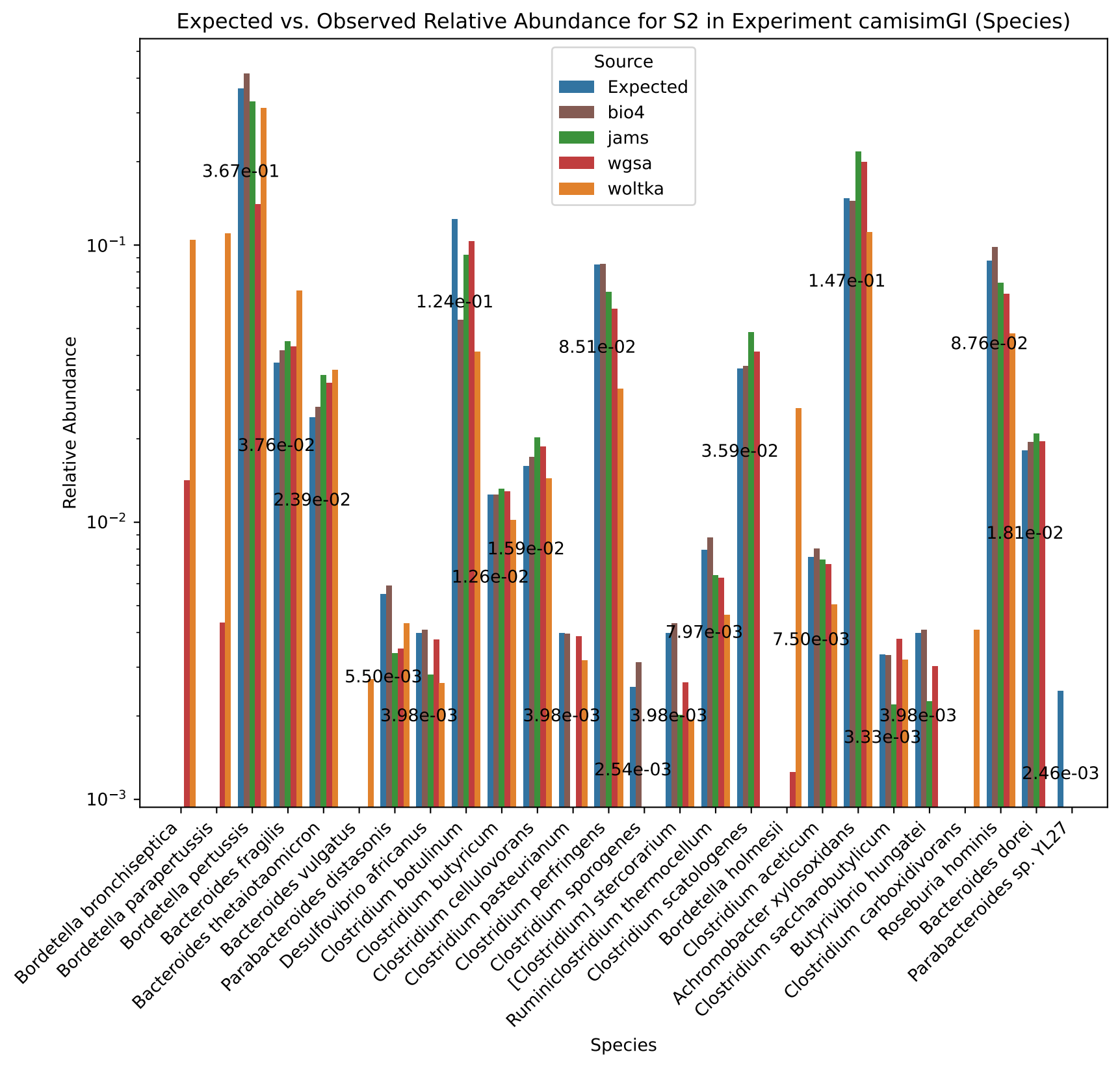


r² = 0.2222 for biobakery3	MAE = 0.1026 for biobakery3	AD = 16.3856 for biobakery3	1-BC = 0.3732 for biobakery3	RMSE = 0.1789 for biobakery3
r² = 0.2182 for biobakery4	MAE = 0.1035 for biobakery4	AD = 16.3433 for biobakery4	1-BC = 0.3709 for biobakery4	RMSE = 0.1841 for biobakery4
r² = 0.0752 for jams	MAE = 0.0995 for jams	AD = 21.8589 for jams	1-BC = 0.1963 for jams	RMSE = 0.1338 for jams
r² = 0.1007 for wgsa2	MAE = 0.0886 for wgsa2	AD = 22.8257 for wgsa2	1-BC = 0.1553 for wgsa2	RMSE = 0.1090 for wgsa2
r² = 0.1194 for woltka	MAE = 0.1564 for woltka	AD = 18.9883 for woltka	1-BC = 0.0000 for woltka	RMSE = 0.2761 for woltka

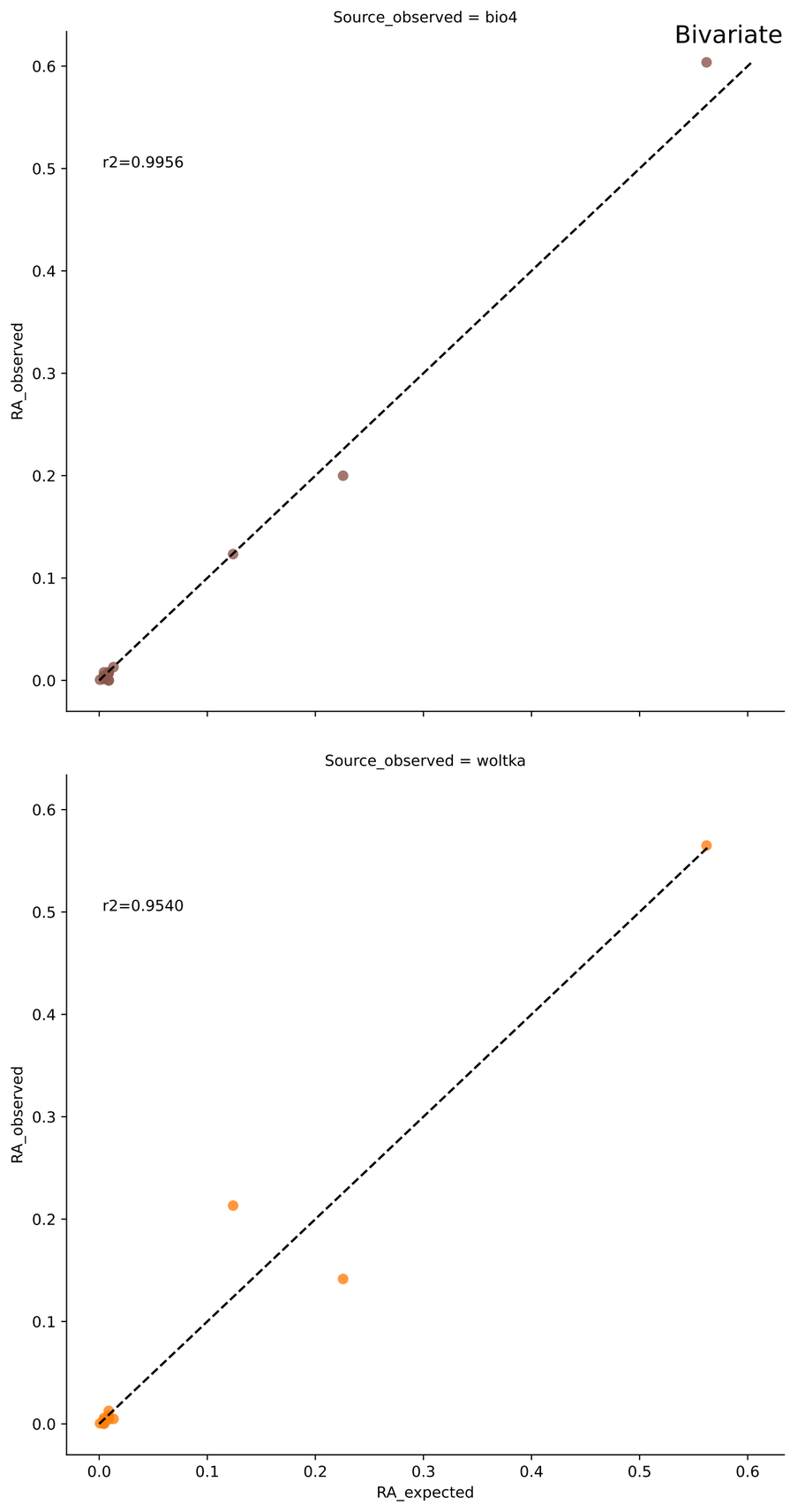

Expected vs. Observed Relative Abundance for S1 in Experiment camisimGI (Genus)
Source
woltka
Expected
bio4
jams
wgsa
Relative Abundance
10^{-1}
10^{-2}
10^{-3}
5.65e-01
2.13e-01
1.42e-01
1.27e-02
3.00e-03
1.60e-03
3.55e-03
5.95e-03
8.10e-03
5.83e-03
6.17e-03
4.38e-03
4.86e-03
1.68e-03
Achromobacter
Pseudomonas
Bordetella
Escherichia
Bacteroides
Butyrivibrio
Ruminococcus
Clostridium
Erysipelothrix
Bifidobacterium
Eubacterium
Burkholderia
Akkermansia
Odoribacter
Lachnoclostridium
Ruminiclostridium
Fermentimonas
Paraburkholderia
Genus


Expected vs. Observed Relative Abundance for S2 in Experiment camisimGI (Genus)
Source
Expected
woltka
bio4
jams
wgsa
Relative Abundance
10^{-1}
10^{-2}
1.47e-01
3.67e-01
7.97e-02
3.98e-03
8.76e-02
3.98e-03
2.91e-01
7.97e-03
1.20e-02
Achromobacter
Bordetella
Bacteroides
Butyrivibrio
Roseburia
Desulfovibrio
Clostridium
Parabacteroides
Ruminiclostridium
Genus

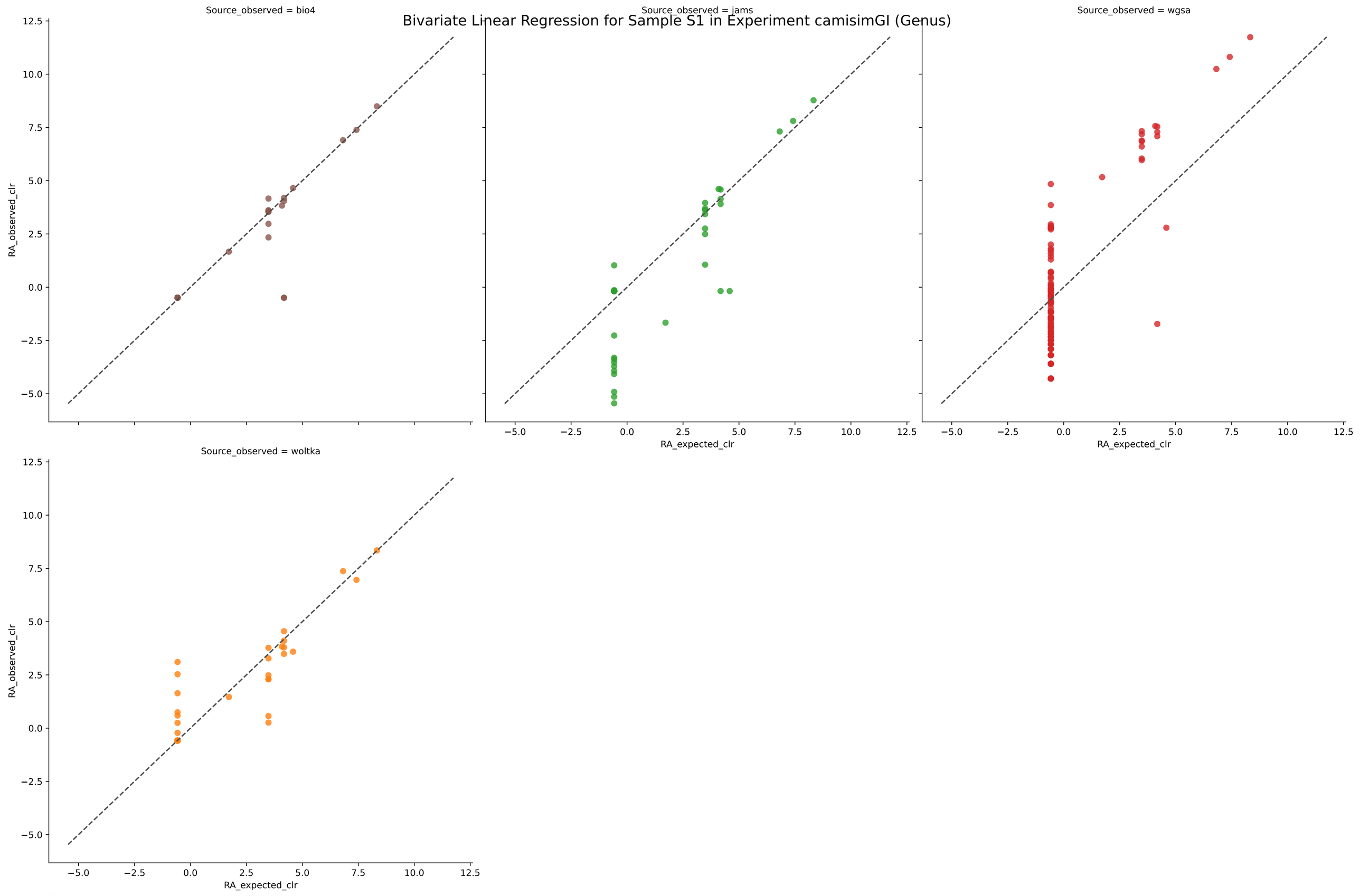

Expected vs. Observed Relative Abundance for S1 in Experiment camisimGI (Species)
Source
Expected
woltka
bio4
jams
wgsa
Relative Abundance
Species
Bordetella bronchiseptica
Bordetella parapertussis
Bordetella pertussis
Escherichia coli
Bacteroides thetaiotaomicron
Bacteroides fragilis
Ruminococcus vulgatus
Clostridium acetobutylicum
Clostridium botulinum
Clostridium butyricum
Clostridium cellulovorans
Clostridium pasteurianum
[Clostridium] sporogenes
[Clostridium] stercorarium
Clostridium tetani
Clostridium beijerinckii
Erysipelothrix rhusiopathiae
Clostridium scatologenes
Eubacterium limosum
Bifidobacterium animalis
Odoribacter splanchnicus
Bordetella holmesii
Lachnoclostridium phytofermentans
Clostridium aceticum
Achromobacter xylosoxidans
Burkholderia multivorans
Bordetella petrii
Clostridium saccharobutylicum
Butyrivibrio hungatei
Clostridium carboxidivorans
Akkermansia muciniphila
Bacteroides dorei
Bacteroides salanitronis
Bordetella bronchialis
Bordetella pseudohinzii
Fermentimonas caenicola


Expected vs. Observed Relative Abundance for S2 in Experiment camisimGI (Species)
Source
Expected
bio4
jams
wgsa
woltka
Relative Abundance
Species
3.67e-01
3.76e-02
2.39e-02
1.24e-01
1.26e-02
1.59e-02
8.51e-02
3.59e-02
1.47e-01
8.76e-02
1.81e-02
2.46e-03
5.50e-03
3.98e-03
3.98e-03
3.98e-03
2.54e-03
7.97e-03
7.50e-03
3.33e-03
3.98e-03
Bordetella bronchiseptica
Bordetella parapertussis
Bordetella pertussis
Bacteroides fragilis
Bacteroides thetaiotaomicron
Bacteroides vulgatus
Parabacteroides distasonis
Desulfovibrio africanus
Clostridium botulinum
Clostridium butyricum
Clostridium cellulovorans
Clostridium pasteurianum
Clostridium perfringens
Clostridium sporogenes
[Clostridium] stercorarium
Ruminiclostridium thermocellum
Clostridium scatologenes
Bordetella holmesii
Clostridium aceticum
Achromobacter xylosoxidans
Clostridium saccharobutylicum
Butyrivibrio hungatei
Clostridium carboxidivorans
Roseburia hominis
Bacteroides dorei
Parabacteroides sp. YL27

Bivariate Linear Regression for Sample S1 in Experiment camisimGI (Genus)

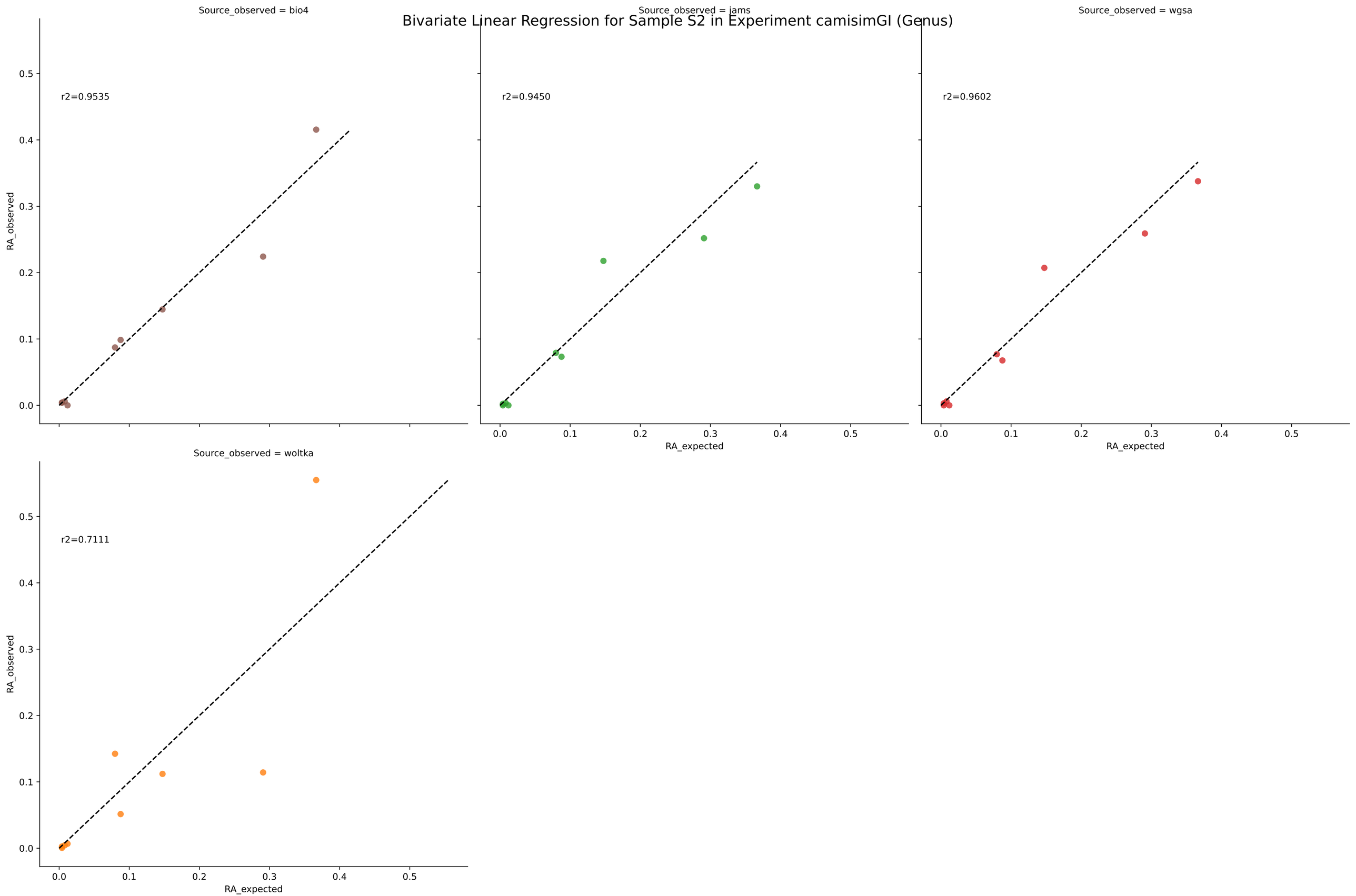


Bivariate Linear Regression for Sample S1 in Experiment camisimGI (Genus)

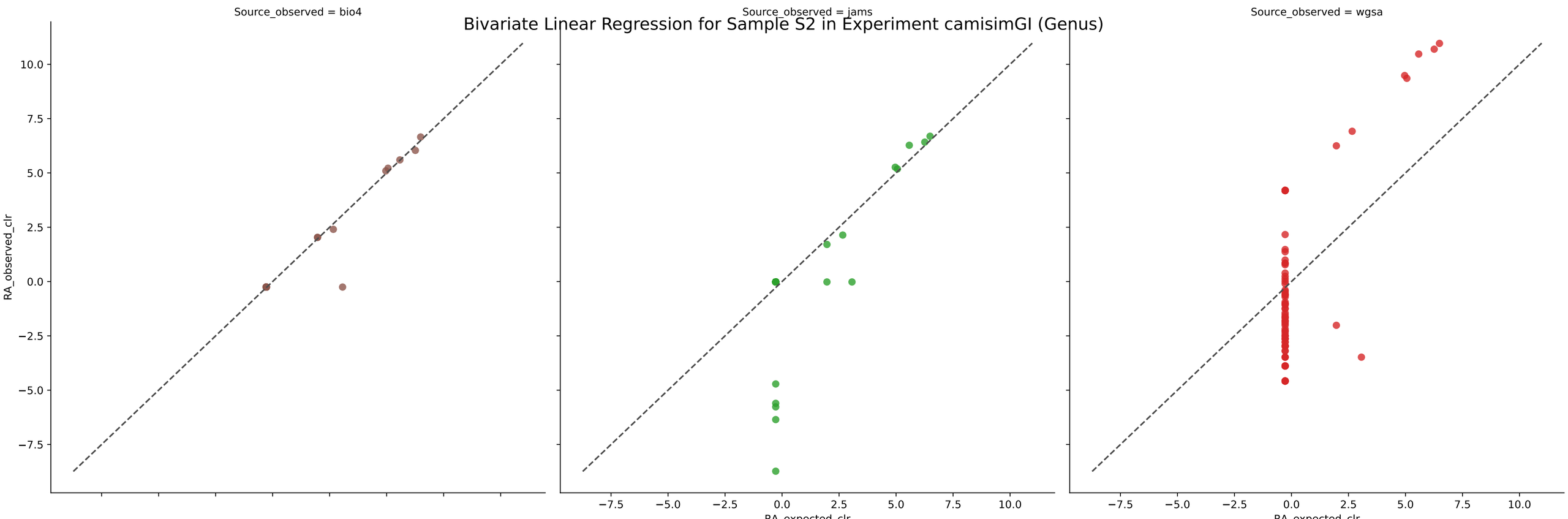


r² = 0.9957 for bio4	MAE = 0.0007 for bio4	AD = 6.8349 for bio4	1-BC = 0.9498 for bio4	RMSE = 0.0042 for bio4
r² = 0.9986 for jams	MAE = 0.0005 for jams	AD = 14.3745 for jams	1-BC = 0.9642 for jams	RMSE = 0.0020 for jams
r² = 0.9992 for wgsa	MAE = 0.0005 for wgsa	AD = 32.3711 for wgsa	1-BC = 0.9659 for wgsa	RMSE = 0.0020 for wgsa
r² = 0.9600 for woltka	MAE = 0.0015 for woltka	AD = 7.5697 for woltka	1-BC = 0.8866 for woltka	RMSE = 0.0102 for woltka

Bivariate Linear Regression for Sample S2 in Experiment camisimGI (Genus)



Bivariate Linear Regression for Sample S2 in Experiment camisimGI (Genus)



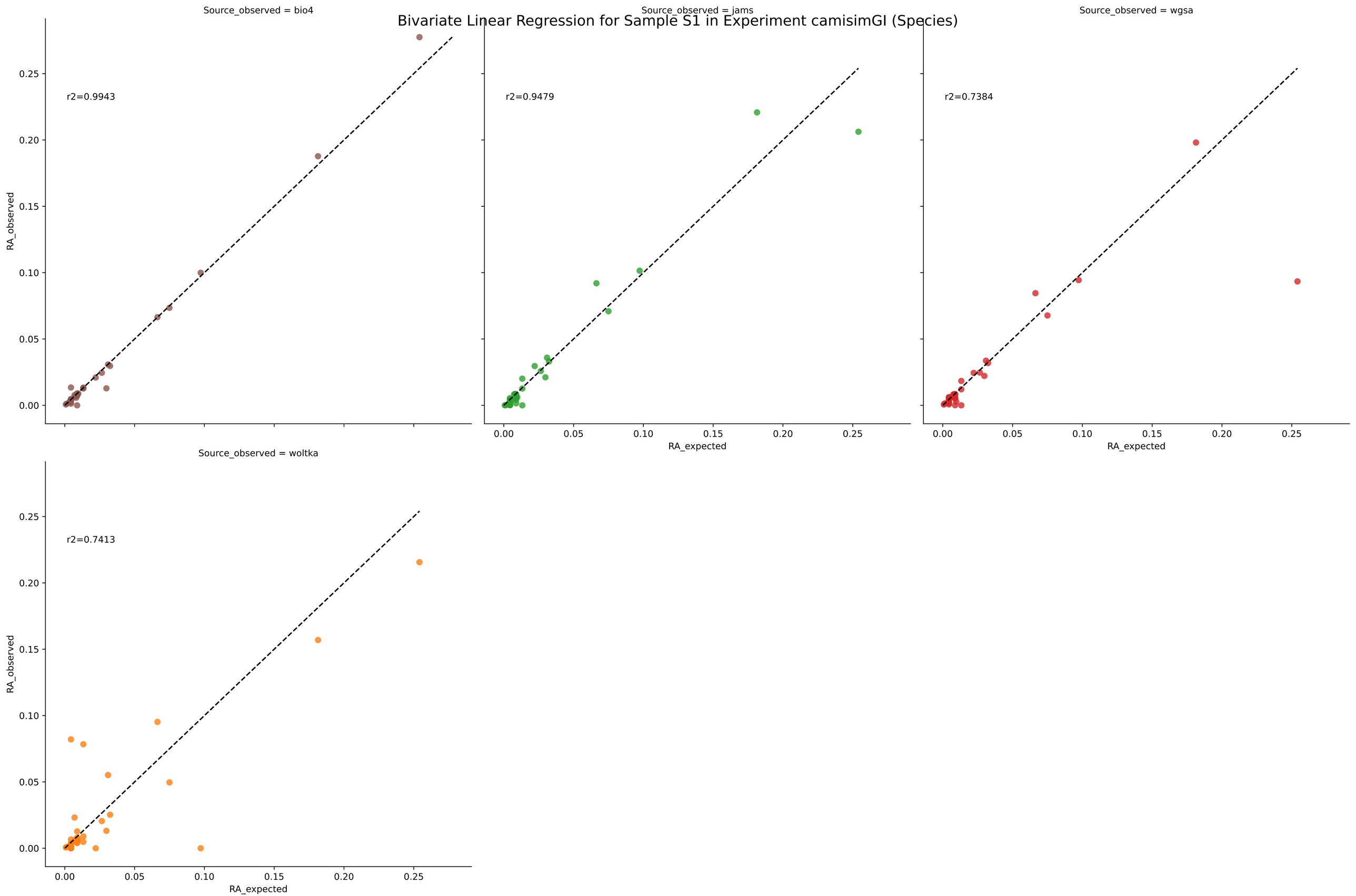
r² = 0.9718 for bio4
MAE = 0.0010 for bio4
AD = 3.3618 for bio4
1-BC = 0.9238 for bio4
RMSE = 0.0070 for bio4

r² = 0.9680 for jams
MAE = 0.0013 for jams
AD = 14.4887 for jams
1-BC = 0.9065 for jams
RMSE = 0.0075 for jams

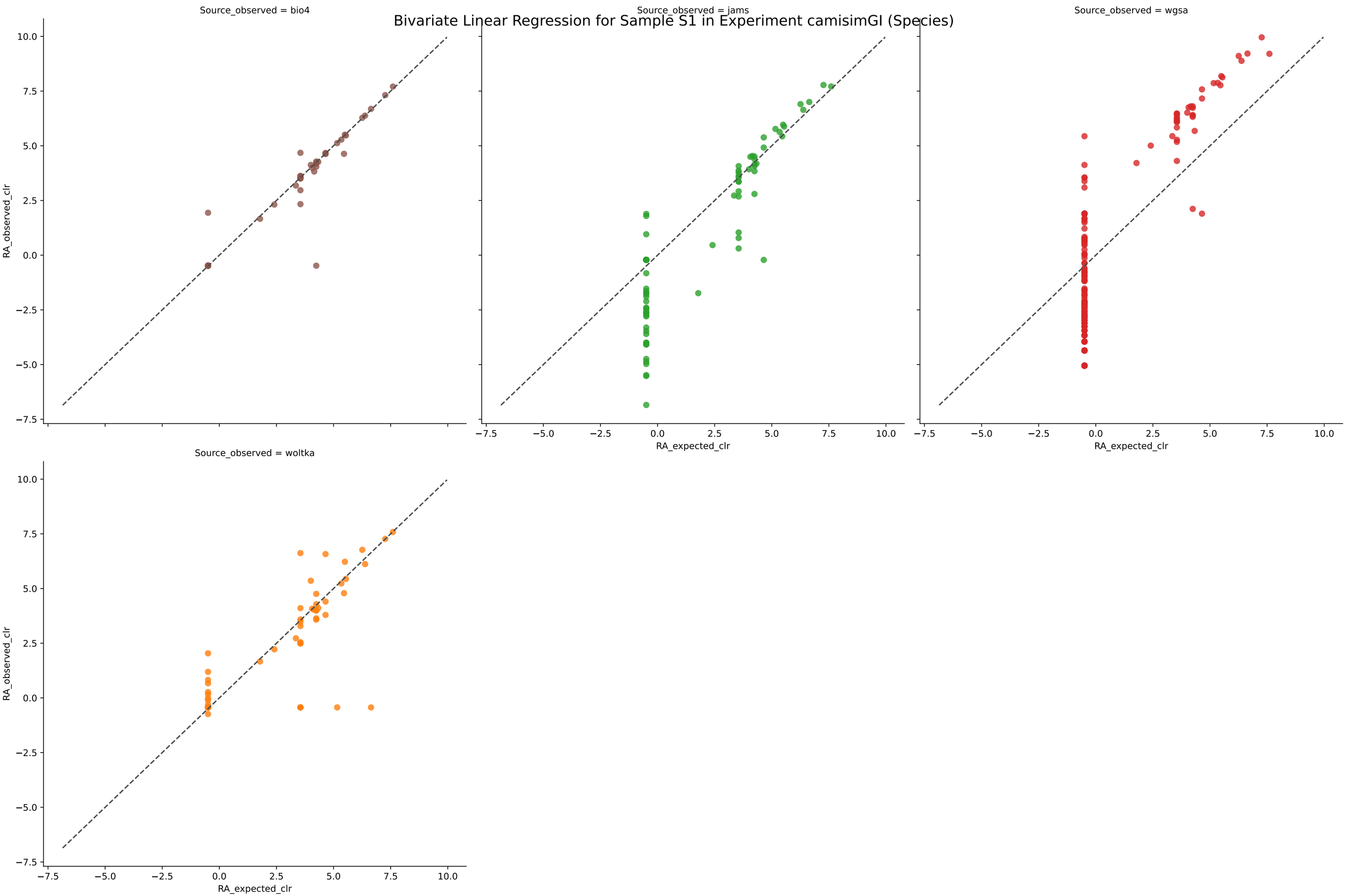
r² = 0.9768 for wgsa
MAE = 0.0011 for wgsa
AD = 42.2811 for wgsa
1-BC = 0.9171 for wgsa
RMSE = 0.0064 for wgsa

r² = 0.7930 for woltka
MAE = 0.0035 for woltka
AD = 3.8334 for woltka
1-BC = 0.7408 for woltka
RMSE = 0.0224 for woltka

Bivariate Linear Regression for Sample S1 in Experiment camisimGI (Species)

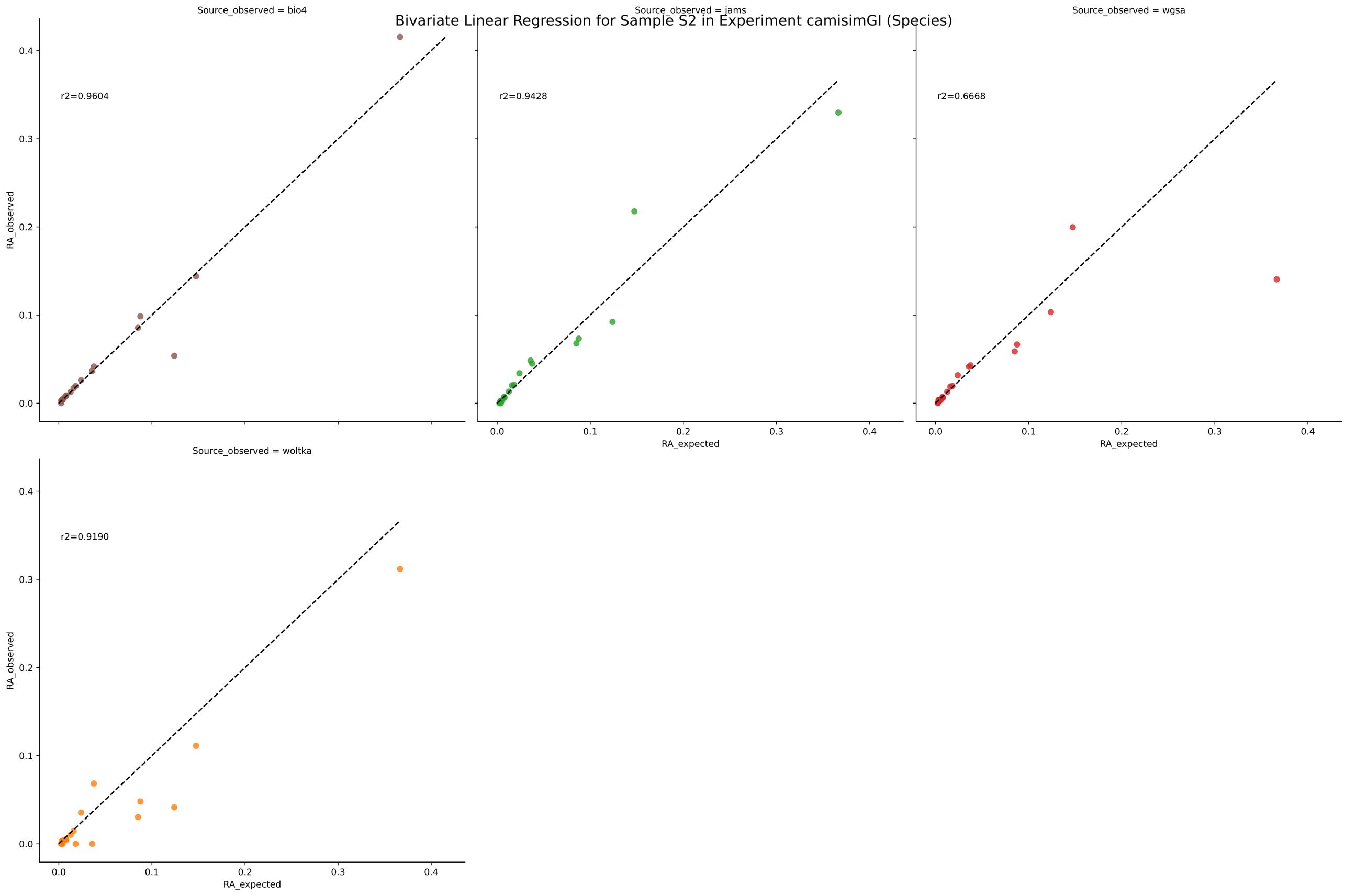


Bivariate Linear Regression for Sample S1 in Experiment camisimGI (Species)

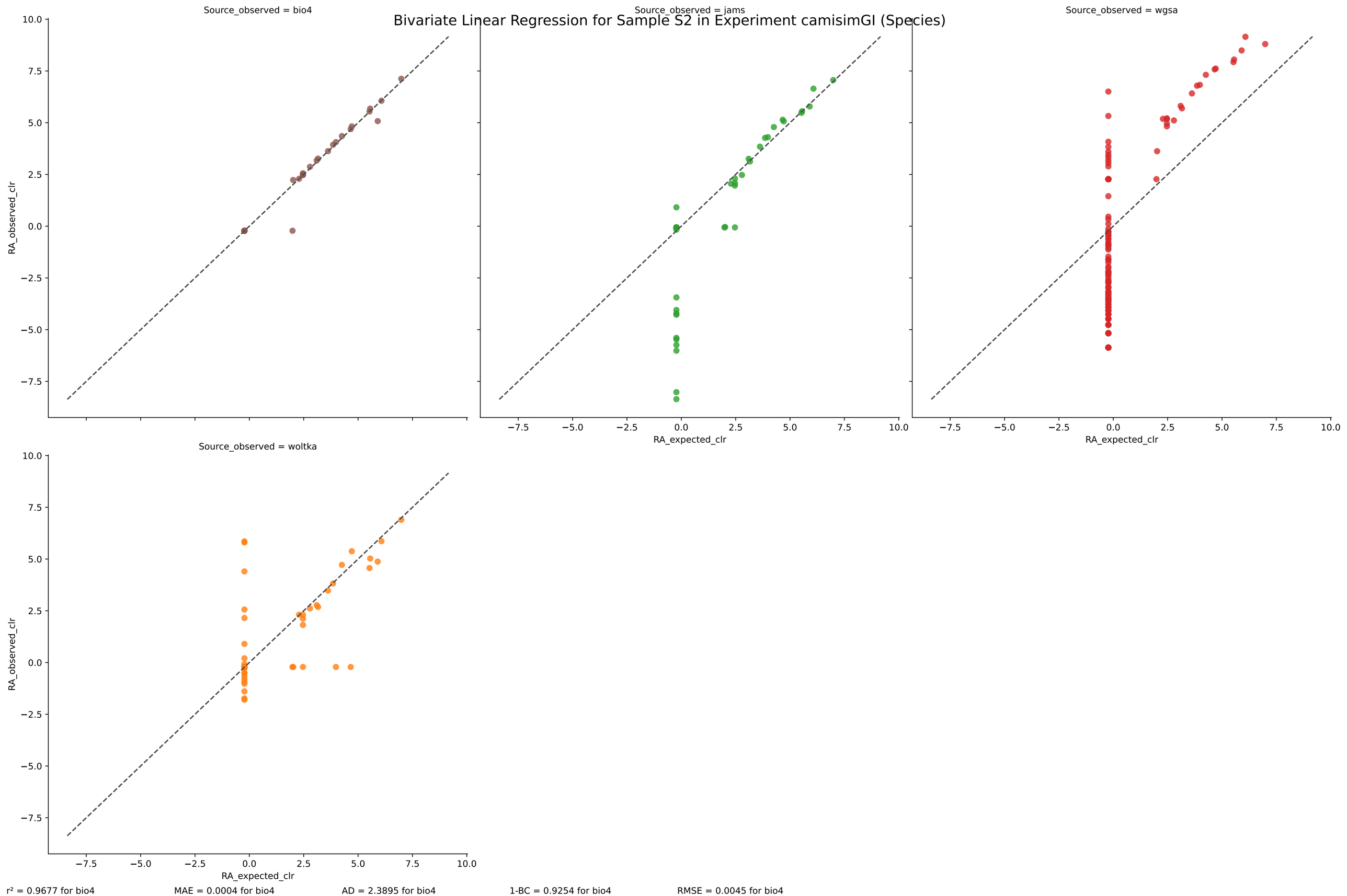


r² = 0.9945 for bio4	MAE = 0.0002 for bio4	AD = 5.6885 for bio4	1-BC = 0.9539 for bio4	RMSE = 0.0017 for bio4
r² = 0.9575 for jams	MAE = 0.0006 for jams	AD = 19.3401 for jams	1-BC = 0.8863 for jams	RMSE = 0.0037 for jams
r² = 0.7889 for wgsa	MAE = 0.0008 for wgsa	AD = 53.7532 for wgsa	1-BC = 0.8399 for wgsa	RMSE = 0.0085 for wgsa
r² = 0.7895 for woltka	MAE = 0.0014 for woltka	AD = 13.5012 for woltka	1-BC = 0.7257 for woltka	RMSE = 0.0082 for woltka

Bivariate Linear Regression for Sample S2 in Experiment camisimGI (Species)



Bivariate Linear Regression for Sample S2 in Experiment camisimGI (Species)



r² = 0.9677 for bio4	MAE = 0.0004 for bio4	AD = 2.3895 for bio4	1-BC = 0.9254 for bio4	RMSE = 0.0045 for bio4
r² = 0.9564 for jams	MAE = 0.0006 for jams	AD = 18.1605 for jams	1-BC = 0.8856 for jams	RMSE = 0.0047 for jams
r² = 0.7444 for wgsa	MAE = 0.0011 for wgsa	AD = 64.1185 for wgsa	1-BC = 0.7742 for wgsa	RMSE = 0.0122 for wgsa
r² = 0.7760 for woltka	MAE = 0.0017 for woltka	AD = 13.4128 for woltka	1-BC = 0.6720 for woltka	RMSE = 0.0106 for woltka

Expected vs. Observed Relative Abundance for genus using bio4 in Experiment tourlousse

SampleID
expected
SRR17380244
SRR17380241
SRR17380242
SRR17380243
SRR17380246
SRR17380245

Relative Abundance

0.1
0.01
0.001

PSEUDOMONAS
ESCHERICHIA
BACTEROIDES
MEGASPHAERA
RUMINOCOCCUS
STAPHYLOCOCCUS
STREPTOCOCCUS
BACILLUS
LACTOBACILLUS
BIFIDOBACTERIUM
COLLINSELLA
MEGAMONAS
ANAEROSTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
FLAVONIFRACTOR
LACHNOCLOSTRIDIUM
CUTIBACTERIUM
ENTEROCLOSTER

genus

Expected vs. Observed Relative Abundance for genus using jams in Experiment tourlousse

SampleID
expected
SRR17380244
SRR17380241
SRR17380242
SRR17380243
SRR17380246
SRR17380245

0.1
0.01
0.001
ive Abundance

PSEUDOMONAS
ESCHERICHIA
BACTEROIDES
MEGASPHAERA
RUMINOCOCCUS
STAPHYLOCOCCUS
STREPTOCOCCUS
BACILLUS
LACTOBACILLUS
BIFIDOBACTERIUM
COLLINSELLA
MEGAMONAS
ANAEROSTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
FLAVONIFRACTOR
CUTIBACTERIUM
ENTEROCLOSTER

genus

Expected vs. Observed Relative Abundance for genus using wgsa in Experiment tourlousse

SampleID
expected
SRR17380244
SRR17380241
SRR17380242
SRR17380243
SRR17380246
SRR17380245

Relative Abundance
0.1
0.01
0.001

PSEUDOMONAS
ESCHERICHIA
BACTEROIDES
MEGASPHAERA
RUMINOCOCCUS
STAPHYLOCOCCUS
STREPTOCOCCUS
BACILLUS
LACTOBACILLUS
BIFIDOBACTERIUM
COLLINSELLA
MEGAMONAS
ANAEROSTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
FLAVONIFRACTOR
Lachnoclostridium
Clostridioides
CUTIBACTERIUM
Mediterraneibacter
ENTEROCLOSTER

genus

Expected vs. Observed Relative Abundance for genus using woltka in Experiment tourlousse

SampleID
expected
SRR17380244
SRR17380241
SRR17380242
SRR17380243
SRR17380246
SRR17380245

Relative Abundance

0.1
0.01
0.001

PSEUDOMONAS
ESCHERICHIA
Shigella
BACTEROIDES
Prevotella
Roseburia
MEGASPHAERA
RUMINOCOCCUS
STAPHYLOCOCCUS
STREPTOCOCCUS
BACILLUS
Clostridium
LACTOBACILLUS
BIFIDOBACTERIUM
Eubacterium
Coprococcus
COLLINSELLA
MEGAMONAS
ANAEROSTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
FLAVONIFRACTOR
Lachnoclostridium
Tyzzerella
CUTIBACTERIUM
ENTEROCLOSTER

genus

Expected vs. Observed Relative Abundance for species using bio4 in Experiment tourlousse

SampleID
expected
SRR17380246
SRR17380241
SRR17380244
SRR17380242
SRR17380243
SRR17380245

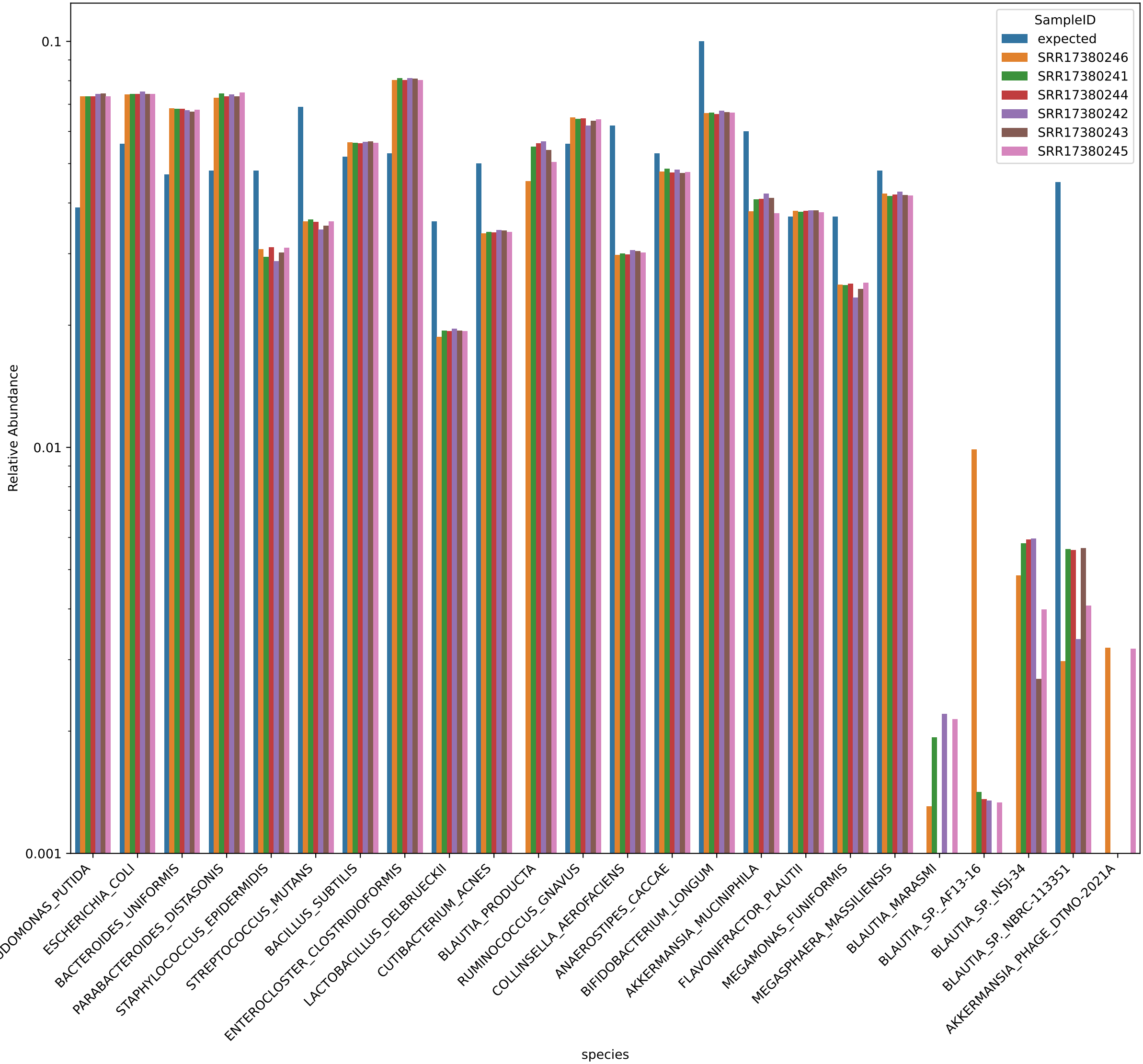
Relative Abundance

0.1
0.01
0.001

PSEUDOMONAS_PUTIDA
ESCHERICHIA_COLI
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
STAPHYLOCOCCUS_EPIDERMIDIS
STREPTOCOCCUS_MUTANS
BACILLUS_SUBTILIS
ENTEROCLOSTER_CLOSTRIDIOFORMIS
LACTOBACILLUS_DELBRUECKII
CUTIBACTERIUM_ACNES
BLAUTIA_PRODUCTA
RUMINOCOCCUS_GNAVUS
COLLINSELLA_AEROFACIENS
ANAEROSTIPES_CACCAE
PSEUDOMONAS_PUTIDA_GROUP
MEGAMONAS_HYPERMEGALE
BACILLUS_MURIMARTINI
BIFIDOBACTERIUM_LONGUM
AKKERMANSIA_MUCINIPHILA
FLAVONIFRACTOR_PLAUTII
MEGAMONAS_FUNIFORMIS
MEGASPHAERA_MASSILIENSIS
MEGASPHAERA_SP._DISK-18
BACILLUS_INTESTINALIS
BLAUTIA_SP._NBRC-113351

species

Expected vs. Observed Relative Abundance for species using jams in Experiment tourlousse



Expected vs. Observed Relative Abundance for species using wgsa in Experiment tourlousse

SampleID
expected
SRR17380246
SRR17380241
SRR17380244
SRR17380242
SRR17380243
SRR17380245

Relative Abundance

0.1
0.01
0.001

PSEUDOMONAS_PUTIDA
ESCHERICHIA_COLI
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
Megasphaera elsdenii
STAPHYLOCOCCUS_EPIDERMIDIS
STREPTOCOCCUS_MUTANS
BACILLUS_SUBTILIS
Clostridioides difficile
ENTEROCLOSTER_CLOSTRIDIOFORMIS
LACTOBACILLUS_DELBRUECKII
CUTIBACTERIUM_ACNES
Blautia producta
RUMINOCOCCUS_GNAVUS
COLLINSELLA_AEROFACIENS
ANAEROSTIPES_CACCAE
Enterocloster bolteae
BIFIDOBACTERIUM_LONGUM
AKKERMANSIA_MUCINIPHILA
FLAVONIFRACTOR_PLAUTII
MEGAMONAS_FUNIFORMIS
MEGASPHAERA_MASSILIENSIS
Blautia sp. YL58
Lachnoclostridium sp. YL32
Blautia argi
Megasphaera stantonii
BLAUTIA_SP._NBRC-113351

species

Expected vs. Observed Relative Abundance for species using woltka in Experiment tourlousse

SampleID
expected
SRR17380246
SRR17380241
SRR17380244
SRR17380242
SRR17380243
SRR17380245

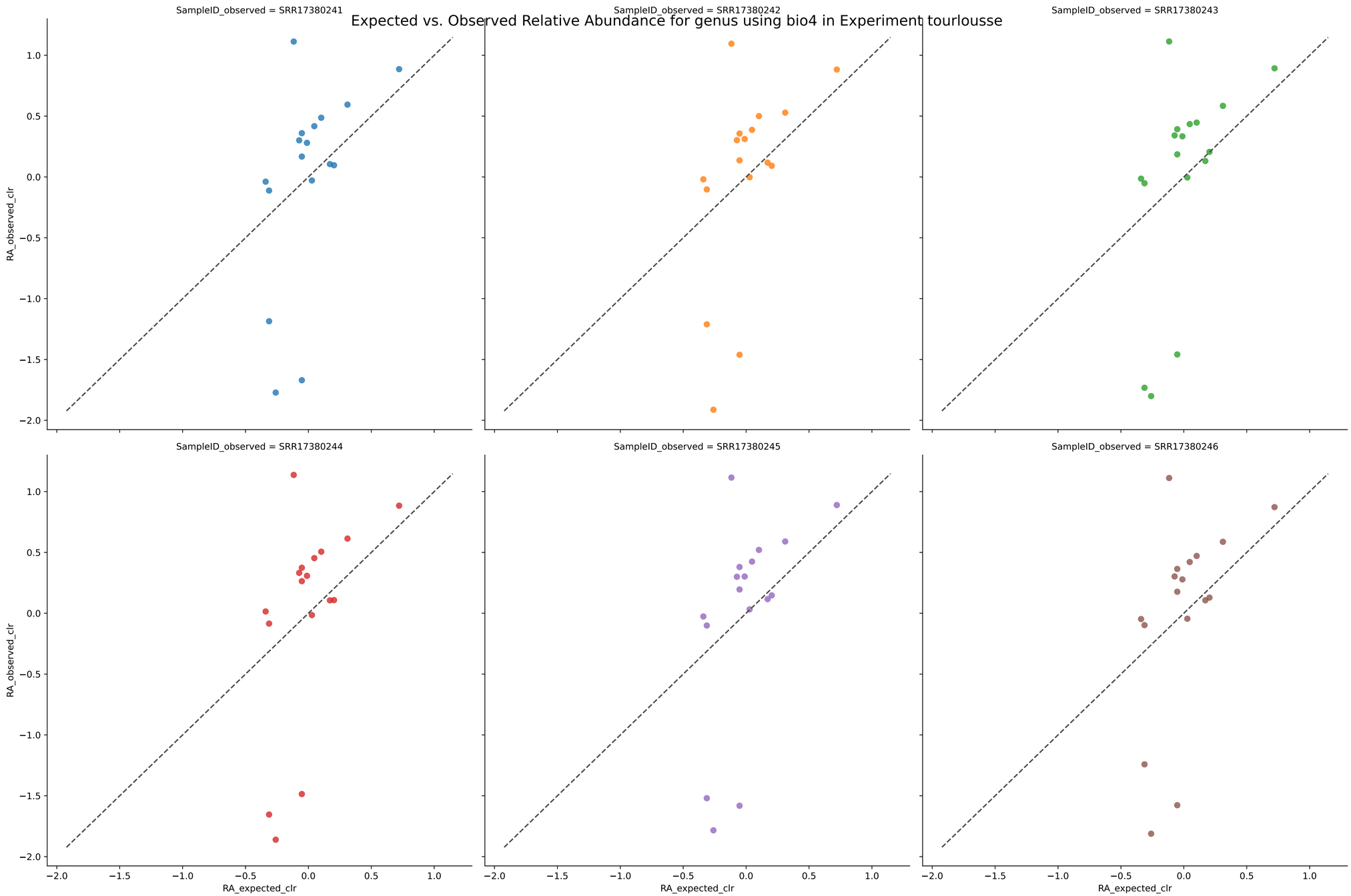
Relative Abundance

0.1
0.01
0.001

PSEUDOMONAS_PUTIDA
ESCHERICHIA_COLI
Shigella dysenteriae
Shigella flexneri
Bacteroides fragilis
Bacteroides thetaiotaomicron
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
STAPHYLOCOCCUS_EPIDERMIDIS
STREPTOCOCCUS_MUTANS
Bacillus amyloliquefaciens
BACILLUS_SUBTILIS
ENTEROCLOSTER_CLOSTRIDIOFORMIS
LACTOBACILLUS_DELBRUECKII
Bifidobacterium breve
CUTIBACTERIUM_ACNES
Tyzzerella nexilis
Blautia producta
RUMINOCOCCUS_GNAVUS
Eubacterium ramulus
Bacteroides stercoris
COLLINSELLA_AEROFACIENS
ANAEROSTIPES_CACCAE
Clostridium bolteae
BIFIDOBACTERIUM_LONGUM
AKKERMANSIA_MUCINIPHILA
FLAVONIFRACTOR_PLAUTII
Bacteroides plebeius
Bacteroides coprocola
Bacteroides coprophilus
Prevotella stercorea
Parabacteroides johnsonii
MEGAMONAS_FUNIFORMIS
Bacillus velezensis
Parabacteroides gordonii
MEGASPHAERA_MASSILIENSIS
Anaerostipes sp. CAG:276
Collinsella sp. CAG:166
Akkermansia muciniphila CAG:154
Clostridium bolteae CAG:59
Clostridium clostridioforme CAG:132
Clostridium clostridioforme CAG:511
Staphylococcus sp. DORA_6_22
Bacillus sp. BSC154
Akkermansia sp. UNK.MGS-1
Staphylococcus sp. HMSC062B11
Akkermansia sp. 54_46
Akkermansia sp. Phil8
BLAUTIA_SP._NBRC-113351

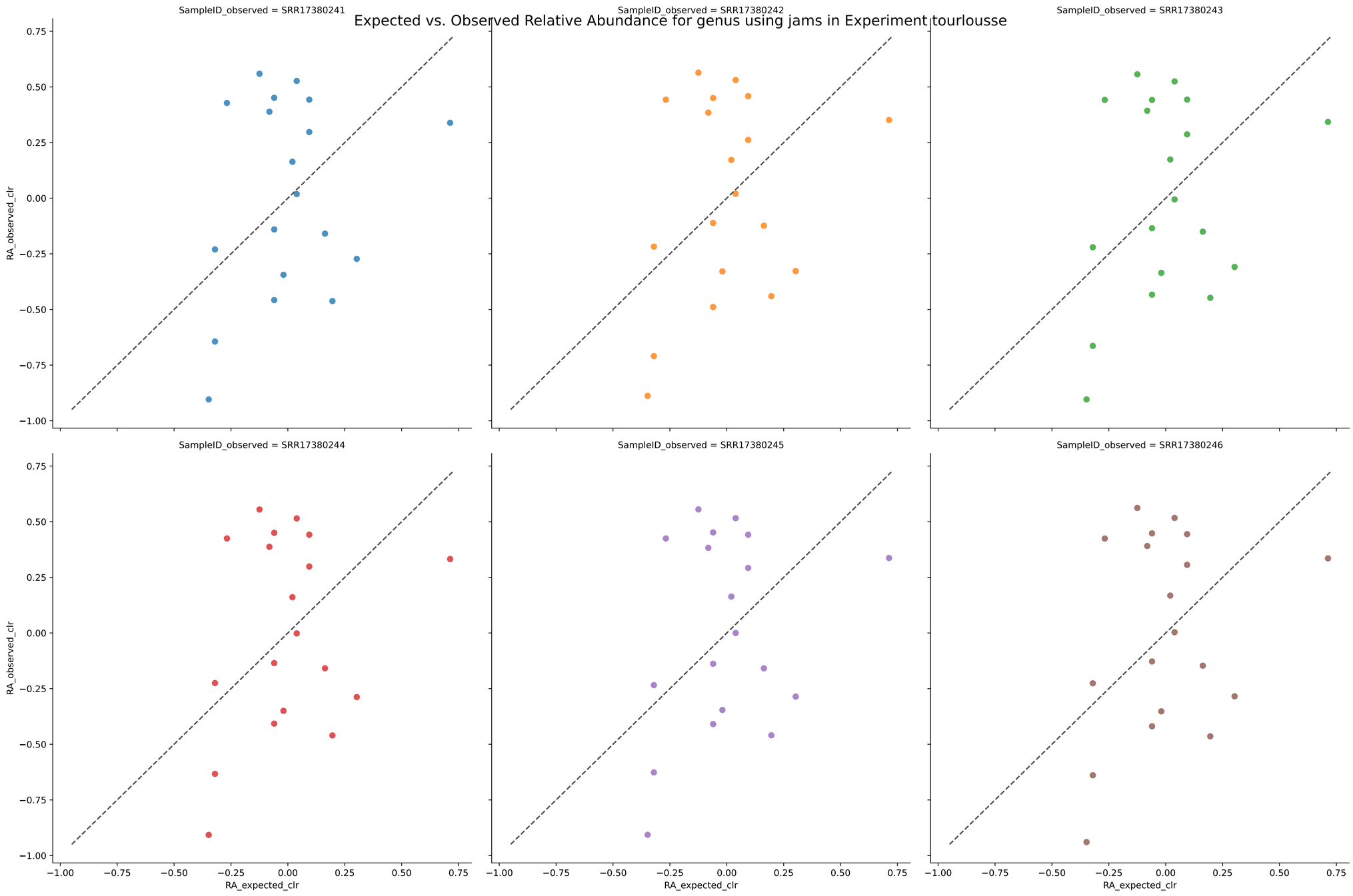
species

Expected vs. Observed Relative Abundance for genus using bio4 in Experiment tourlousse



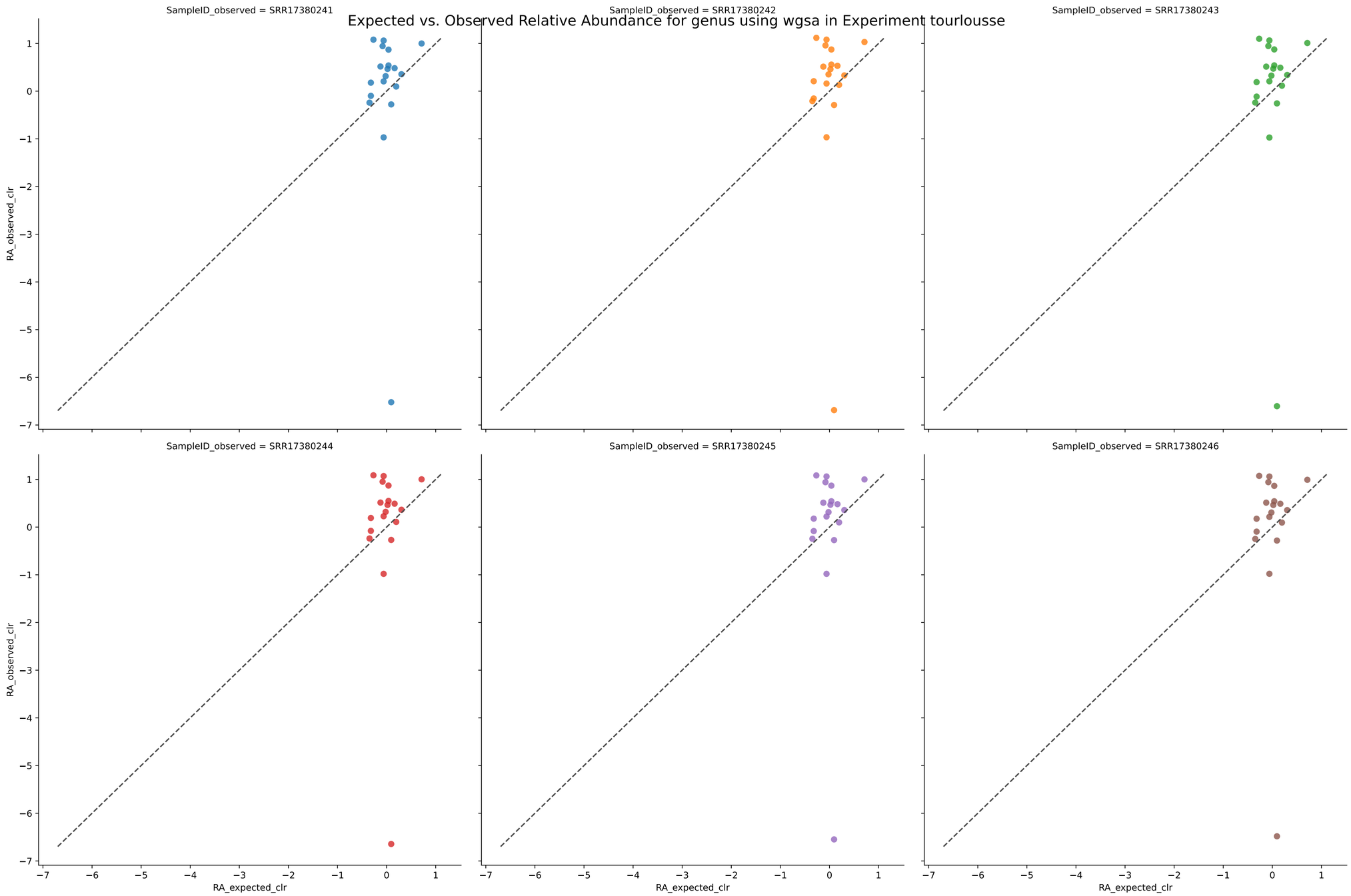
r² = 0.2677 for SRR17380241	MAE = 0.0179 for SRR17380241	AD = 2.8577 for SRR17380241	1-BC = 0.8333 for SRR17380241	RMSE = 0.0269 for SRR17380241
r² = 0.2685 for SRR17380242	MAE = 0.0175 for SRR17380242	AD = 2.8205 for SRR17380242	1-BC = 0.8367 for SRR17380242	RMSE = 0.0264 for SRR17380242
r² = 0.2726 for SRR17380243	MAE = 0.0175 for SRR17380243	AD = 2.9966 for SRR17380243	1-BC = 0.8362 for SRR17380243	RMSE = 0.0264 for SRR17380243
r² = 0.2517 for SRR17380244	MAE = 0.0187 for SRR17380244	AD = 3.0294 for SRR17380244	1-BC = 0.8264 for SRR17380244	RMSE = 0.0274 for SRR17380244
r² = 0.2714 for SRR17380245	MAE = 0.0179 for SRR17380245	AD = 2.9490 for SRR17380245	1-BC = 0.8333 for SRR17380245	RMSE = 0.0268 for SRR17380245
r² = 0.2631 for SRR17380246	MAE = 0.0178 for SRR17380246	AD = 2.8426 for SRR17380246	1-BC = 0.8342 for SRR17380246	RMSE = 0.0268 for SRR17380246

Expected vs. Observed Relative Abundance for genus using jams in Experiment tourlousse



r² = 0.0300 for SRR17380241	MAE = 0.0199 for SRR17380241	AD = 1.8858 for SRR17380241	1-BC = 0.8103 for SRR17380241	RMSE = 0.0230 for SRR17380241
r² = 0.0305 for SRR17380242	MAE = 0.0199 for SRR17380242	AD = 1.9062 for SRR17380242	1-BC = 0.8103 for SRR17380242	RMSE = 0.0231 for SRR17380242
r² = 0.0290 for SRR17380243	MAE = 0.0199 for SRR17380243	AD = 1.8896 for SRR17380243	1-BC = 0.8097 for SRR17380243	RMSE = 0.0230 for SRR17380243
r² = 0.0283 for SRR17380244	MAE = 0.0198 for SRR17380244	AD = 1.8749 for SRR17380244	1-BC = 0.8109 for SRR17380244	RMSE = 0.0229 for SRR17380244
r² = 0.0295 for SRR17380245	MAE = 0.0197 for SRR17380245	AD = 1.8705 for SRR17380245	1-BC = 0.8115 for SRR17380245	RMSE = 0.0229 for SRR17380245
r² = 0.0294 for SRR17380246	MAE = 0.0199 for SRR17380246	AD = 1.8908 for SRR17380246	1-BC = 0.8102 for SRR17380246	RMSE = 0.0230 for SRR17380246

Expected vs. Observed Relative Abundance for genus using wgsa in Experiment tourlousse



r² = 0.0477 for SRR17380241	MAE = 0.0229 for SRR17380241	AD = 7.1483 for SRR17380241	1-BC = 0.7491 for SRR17380241	RMSE = 0.0266 for SRR17380241
r² = 0.0496 for SRR17380242	MAE = 0.0231 for SRR17380242	AD = 7.3201 for SRR17380242	1-BC = 0.7457 for SRR17380242	RMSE = 0.0268 for SRR17380242
r² = 0.0478 for SRR17380243	MAE = 0.0229 for SRR17380243	AD = 7.2312 for SRR17380243	1-BC = 0.7489 for SRR17380243	RMSE = 0.0266 for SRR17380243
r² = 0.0465 for SRR17380244	MAE = 0.0229 for SRR17380244	AD = 7.2700 for SRR17380244	1-BC = 0.7490 for SRR17380244	RMSE = 0.0266 for SRR17380244
r² = 0.0474 for SRR17380245	MAE = 0.0228 for SRR17380245	AD = 7.1746 for SRR17380245	1-BC = 0.7497 for SRR17380245	RMSE = 0.0266 for SRR17380245
r² = 0.0471 for SRR17380246	MAE = 0.0228 for SRR17380246	AD = 7.1109 for SRR17380246	1-BC = 0.7495 for SRR17380246	RMSE = 0.0266 for SRR17380246

Expected vs. Observed Relative Abundance for genus using woltka in Experiment tourlousse

SampleID_observed = SRR17380241

SampleID_observed = SRR17380242

SampleID_observed = SRR17380243

SampleID_observed = SRR17380244

SampleID_observed = SRR17380245

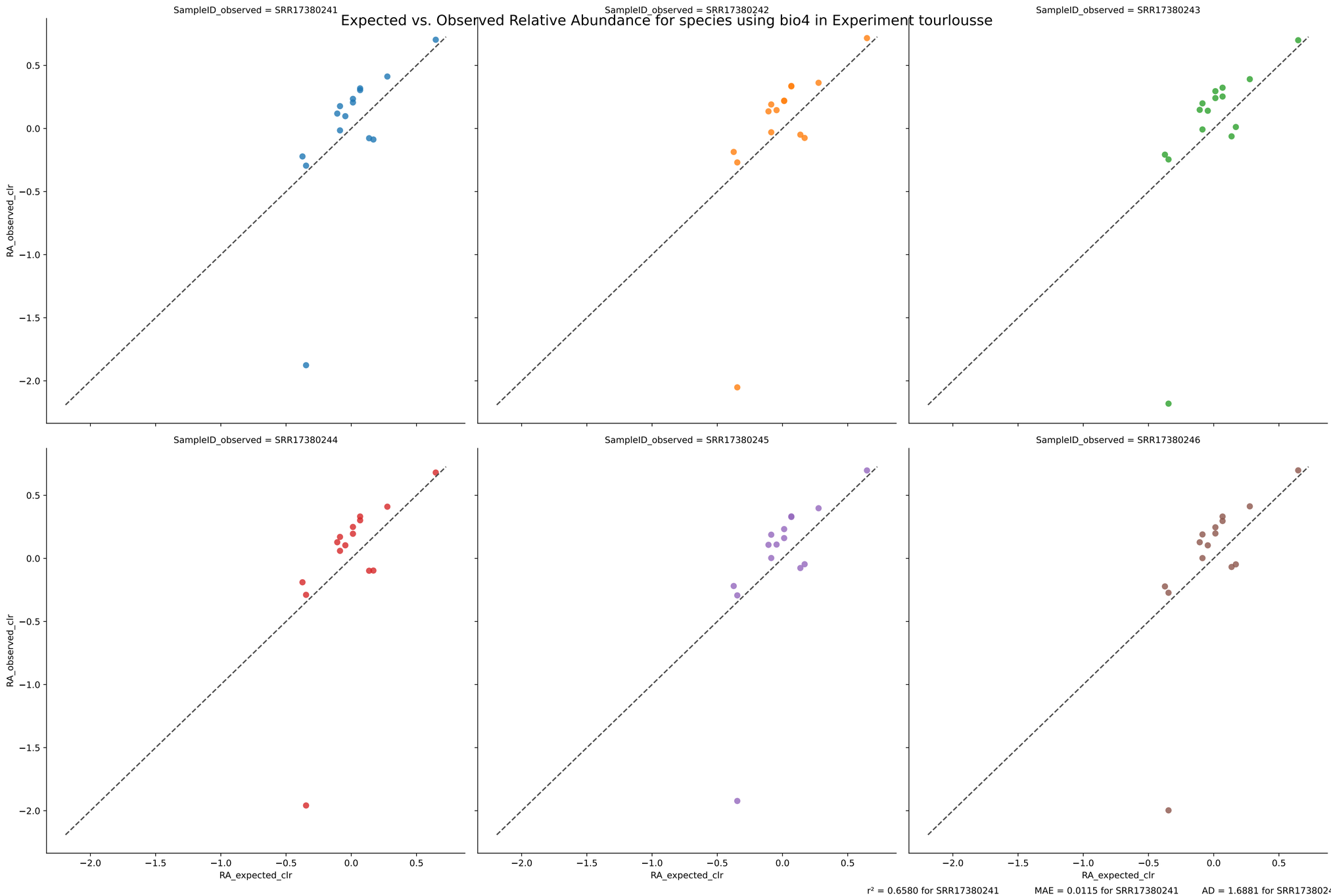
SampleID_observed = SRR17380246

RA_observed_clr

RA_expected_clr

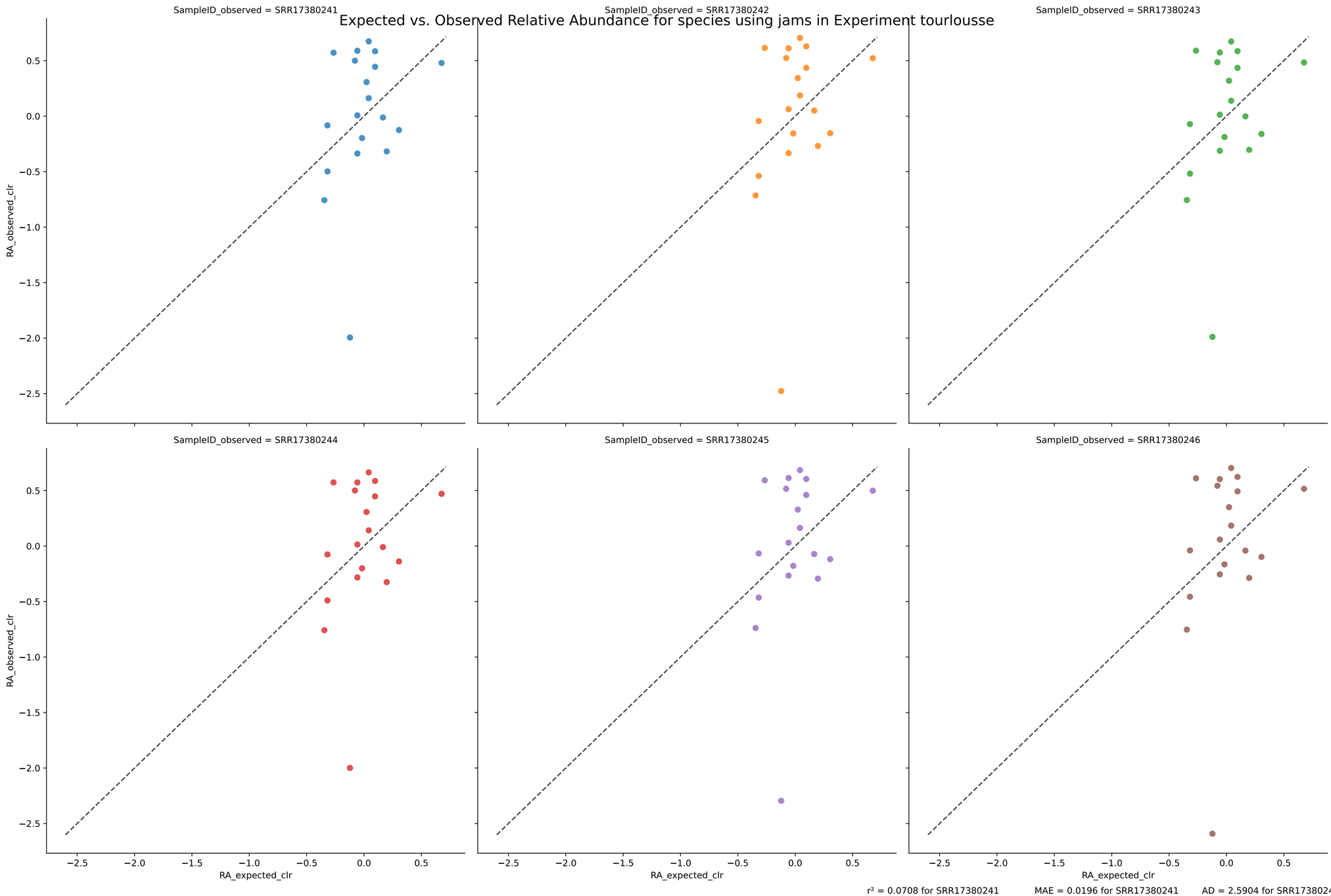
r² = 0.0625 for SRR17380241	MAE = 0.0338 for SRR17380241	AD = 4.1904 for SRR17380241	1-BC = 0.6493 for SRR17380241	RMSE = 0.0399 for SRR17380241
r² = 0.0652 for SRR17380242	MAE = 0.0336 for SRR17380242	AD = 4.1746 for SRR17380242	1-BC = 0.6512 for SRR17380242	RMSE = 0.0393 for SRR17380242
r² = 0.0624 for SRR17380243	MAE = 0.0339 for SRR17380243	AD = 4.1920 for SRR17380243	1-BC = 0.6489 for SRR17380243	RMSE = 0.0399 for SRR17380243
r² = 0.0608 for SRR17380244	MAE = 0.0340 for SRR17380244	AD = 4.2008 for SRR17380244	1-BC = 0.6477 for SRR17380244	RMSE = 0.0402 for SRR17380244
r² = 0.0610 for SRR17380245	MAE = 0.0341 for SRR17380245	AD = 4.2151 for SRR17380245	1-BC = 0.6474 for SRR17380245	RMSE = 0.0402 for SRR17380245
r² = 0.0614 for SRR17380246	MAE = 0.0340 for SRR17380246	AD = 4.2073 for SRR17380246	1-BC = 0.6476 for SRR17380246	RMSE = 0.0402 for SRR17380246

Expected vs. Observed Relative Abundance for species using bio4 in Experiment tourlousse



r² = 0.6580 for SRR17380241	MAE = 0.0115 for SRR17380241	AD = 1.6881 for SRR17380241	1-BC = 0.8978 for SRR17380241	RMSE = 0.0131 for SRR17380241
r² = 0.6413 for SRR17380242	MAE = 0.0115 for SRR17380242	AD = 1.8598 for SRR17380242	1-BC = 0.8980 for SRR17380242	RMSE = 0.0133 for SRR17380242
r² = 0.6410 for SRR17380243	MAE = 0.0115 for SRR17380243	AD = 1.9753 for SRR17380243	1-BC = 0.8984 for SRR17380243	RMSE = 0.0133 for SRR17380243
r² = 0.6213 for SRR17380244	MAE = 0.0120 for SRR17380244	AD = 1.7771 for SRR17380244	1-BC = 0.8932 for SRR17380244	RMSE = 0.0136 for SRR17380244
r² = 0.6560 for SRR17380245	MAE = 0.0114 for SRR17380245	AD = 1.7266 for SRR17380245	1-BC = 0.8985 for SRR17380245	RMSE = 0.0131 for SRR17380245
r² = 0.6525 for SRR17380246	MAE = 0.0114 for SRR17380246	AD = 1.7985 for SRR17380246	1-BC = 0.8988 for SRR17380246	RMSE = 0.0131 for SRR17380246

Expected vs. Observed Relative Abundance for species using jams in Experiment tourlousse



r² = 0.0708 for SRR17380241	MAE = 0.0196 for SRR17380241	AD = 2.5904 for SRR17380241	1-BC = 0.8046 for SRR17380241	RMSE = 0.0226 for SRR17380241
r² = 0.0721 for SRR17380242	MAE = 0.0197 for SRR17380242	AD = 2.9884 for SRR17380242	1-BC = 0.8033 for SRR17380242	RMSE = 0.0229 for SRR17380242
r² = 0.0698 for SRR17380243	MAE = 0.0196 for SRR17380243	AD = 2.5858 for SRR17380243	1-BC = 0.8045 for SRR17380243	RMSE = 0.0226 for SRR17380243
r² = 0.0677 for SRR17380244	MAE = 0.0195 for SRR17380244	AD = 2.5877 for SRR17380244	1-BC = 0.8050 for SRR17380244	RMSE = 0.0225 for SRR17380244
r² = 0.0672 for SRR17380245	MAE = 0.0197 for SRR17380245	AD = 2.8284 for SRR17380245	1-BC = 0.8026 for SRR17380245	RMSE = 0.0228 for SRR17380245
r² = 0.0686 for SRR17380246	MAE = 0.0198 for SRR17380246	AD = 3.0816 for SRR17380246	1-BC = 0.8014 for SRR17380246	RMSE = 0.0229 for SRR17380246

Expected vs. Observed Relative Abundance for species using wgsa in Experiment tourlousse

SampleID_observed = SRR17380241

SampleID_observed = SRR17380242

SampleID_observed = SRR17380243

SampleID_observed = SRR17380244

SampleID_observed = SRR17380245

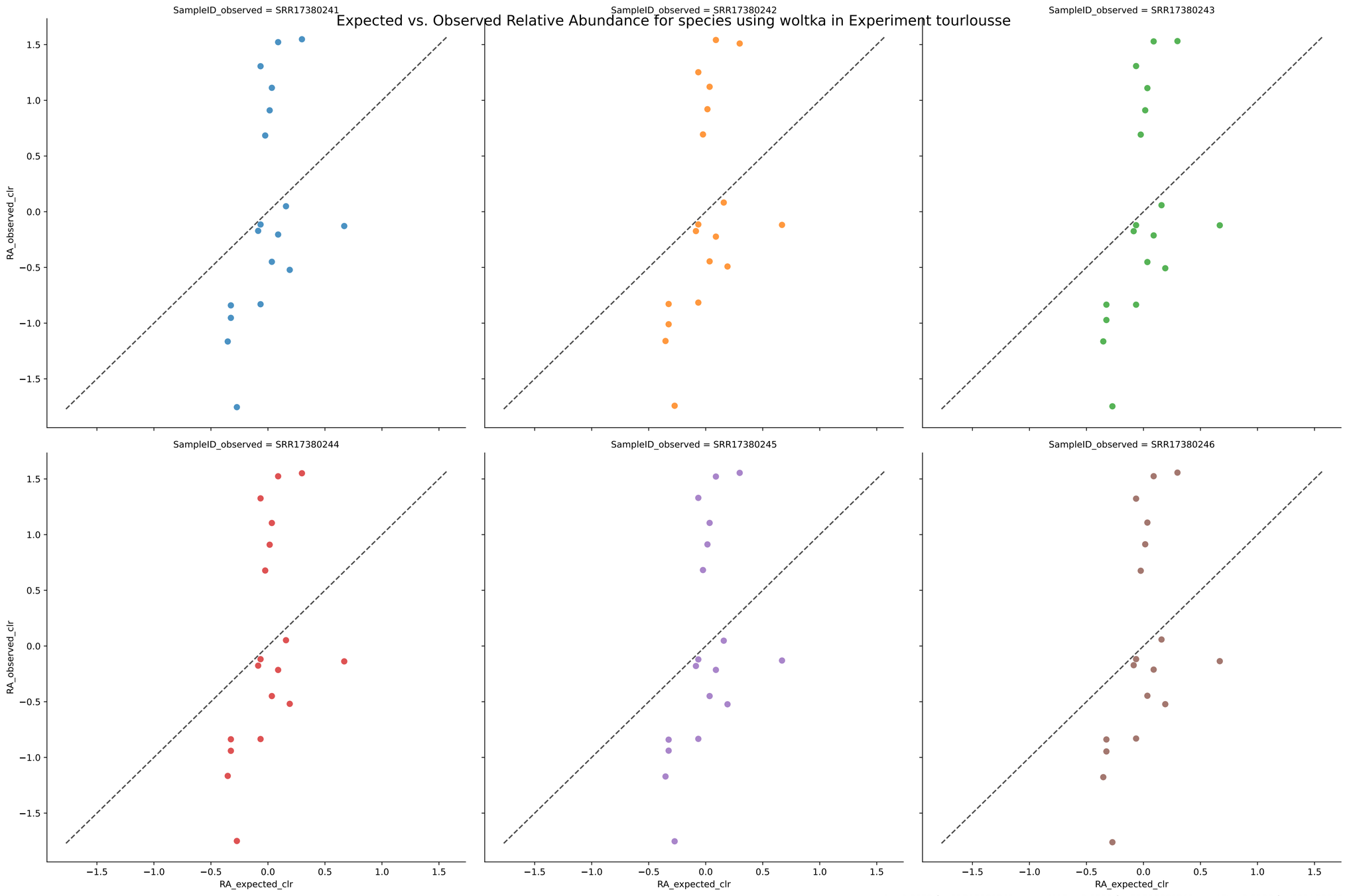
SampleID_observed = SRR17380246

RA_observed_clr

RA_expected_clr

r² = 0.0590 for SRR17380241	MAE = 0.0211 for SRR17380241	AD = 2.8548 for SRR17380241	1-BC = 0.7685 for SRR17380241	RMSE = 0.0251 for SRR17380241
r² = 0.0604 for SRR17380242	MAE = 0.0212 for SRR17380242	AD = 2.9179 for SRR17380242	1-BC = 0.7665 for SRR17380242	RMSE = 0.0254 for SRR17380242
r² = 0.0587 for SRR17380243	MAE = 0.0211 for SRR17380243	AD = 2.8541 for SRR17380243	1-BC = 0.7685 for SRR17380243	RMSE = 0.0251 for SRR17380243
r² = 0.0580 for SRR17380244	MAE = 0.0210 for SRR17380244	AD = 2.8556 for SRR17380244	1-BC = 0.7692 for SRR17380244	RMSE = 0.0251 for SRR17380244
r² = 0.0584 for SRR17380245	MAE = 0.0210 for SRR17380245	AD = 2.8434 for SRR17380245	1-BC = 0.7693 for SRR17380245	RMSE = 0.0251 for SRR17380245
r² = 0.0586 for SRR17380246	MAE = 0.0210 for SRR17380246	AD = 2.8533 for SRR17380246	1-BC = 0.7691 for SRR17380246	RMSE = 0.0251 for SRR17380246

Expected vs. Observed Relative Abundance for species using woltka in Experiment tourlousse



r² = 0.0578 for SRR17380241	MAE = 0.0355 for SRR17380241	AD = 3.6808 for SRR17380241	1-BC = 0.6215 for SRR17380241	RMSE = 0.0395 for SRR17380241
r² = 0.0587 for SRR17380242	MAE = 0.0351 for SRR17380242	AD = 3.6547 for SRR17380242	1-BC = 0.6244 for SRR17380242	RMSE = 0.0390 for SRR17380242
r² = 0.0573 for SRR17380243	MAE = 0.0354 for SRR17380243	AD = 3.6761 for SRR17380243	1-BC = 0.6219 for SRR17380243	RMSE = 0.0394 for SRR17380243
r² = 0.0566 for SRR17380244	MAE = 0.0355 for SRR17380244	AD = 3.6851 for SRR17380244	1-BC = 0.6208 for SRR17380244	RMSE = 0.0396 for SRR17380244
r² = 0.0569 for SRR17380245	MAE = 0.0356 for SRR17380245	AD = 3.6902 for SRR17380245	1-BC = 0.6203 for SRR17380245	RMSE = 0.0396 for SRR17380245
r² = 0.0572 for SRR17380246	MAE = 0.0355 for SRR17380246	AD = 3.6944 for SRR17380246	1-BC = 0.6207 for SRR17380246	RMSE = 0.0396 for SRR17380246

Expected vs. Observed Relative Abundance for genus using bio4 in Experiment hilo

SampleID
expected
SRR11487931
SRR11487932
SRR11487934
SRR11487935
SRR11487933

Relative Abundance

0.1
0.01
0.001

ESCHERICHIA
BACTEROIDES
PREVOTELLA
ROSEBURIA
RUMINOCOCCUS
CLOSTRIDIUM
LACTOBACILLUS
BIFIDOBACTERIUM
EUBACTERIUM
COLLINSELLA
ANAEROSTIPES
FAECALIBACTERIUM
ALISTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA

genus

Expected vs. Observed Relative Abundance for genus using jams in Experiment hilo

SampleID
expected
SRR11487931
SRR11487932
SRR11487934
SRR11487935
SRR11487933

Relative Abundance

0.1
0.01
0.001

ESCHERICHIA
BACTEROIDES
PREVOTELLA
ROSEBURIA
RUMINOCOCCUS
CLOSTRIDIUM
LACTOBACILLUS
BIFIDOBACTERIUM
EUBACTERIUM
COLLINSELLA
ANAEROSTIPES
FAECALIBACTERIUM
ALISTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
ANAEROBUTYRICUM

genus

Expected vs. Observed Relative Abundance for genus using wgsa in Experiment hilo

SampleID
expected
SRR11487931
SRR11487932
SRR11487934
SRR11487935
SRR11487933

Relative Abundance

0.1
0.01
0.001

Citrobacter
Enterobacter
ESCHERICHIA
Klebsiella
BACTEROIDES
PREVOTELLA
ROSEBURIA
RUMINOCOCCUS
Enterococcus
CLOSTRIDIUM
LACTOBACILLUS
BIFIDOBACTERIUM
EUBACTERIUM
COLLINSELLA
ANAEROSTIPES
FAECALIBACTERIUM
ALISTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
Anaerobutyricum

genus

Expected vs. Observed Relative Abundance for genus using wol in Experiment hilo

SampleID
expected
SRR11487931
SRR11487932
SRR11487934
SRR11487935
SRR11487933

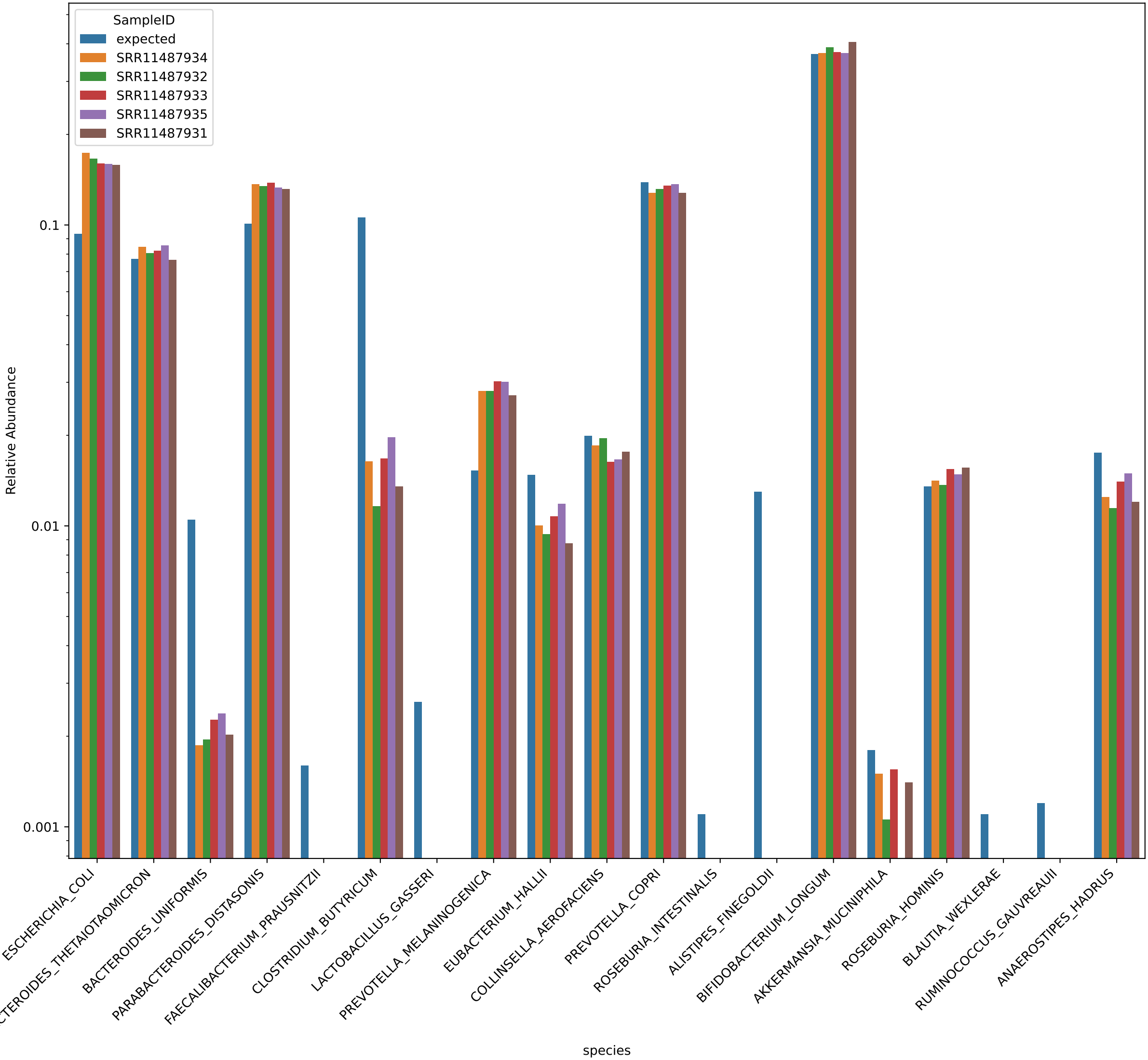
Relative Abundance

0.1
0.01
0.001

Citrobacter
ESCHERICHIA
Klebsiella
Kluyvera
Shigella
BACTEROIDES
PREVOTELLA
ROSEBURIA
RUMINOCOCCUS
CLOSTRIDIUM
LACTOBACILLUS
BIFIDOBACTERIUM
EUBACTERIUM
Obesumbacterium
COLLINSELLA
ANAEROSTIPES
FAECALIBACTERIUM
ALISTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA

genus

Expected vs. Observed Relative Abundance for species using bio4 in Experiment hilo



Expected vs. Observed Relative Abundance for species using jams in Experiment hilo

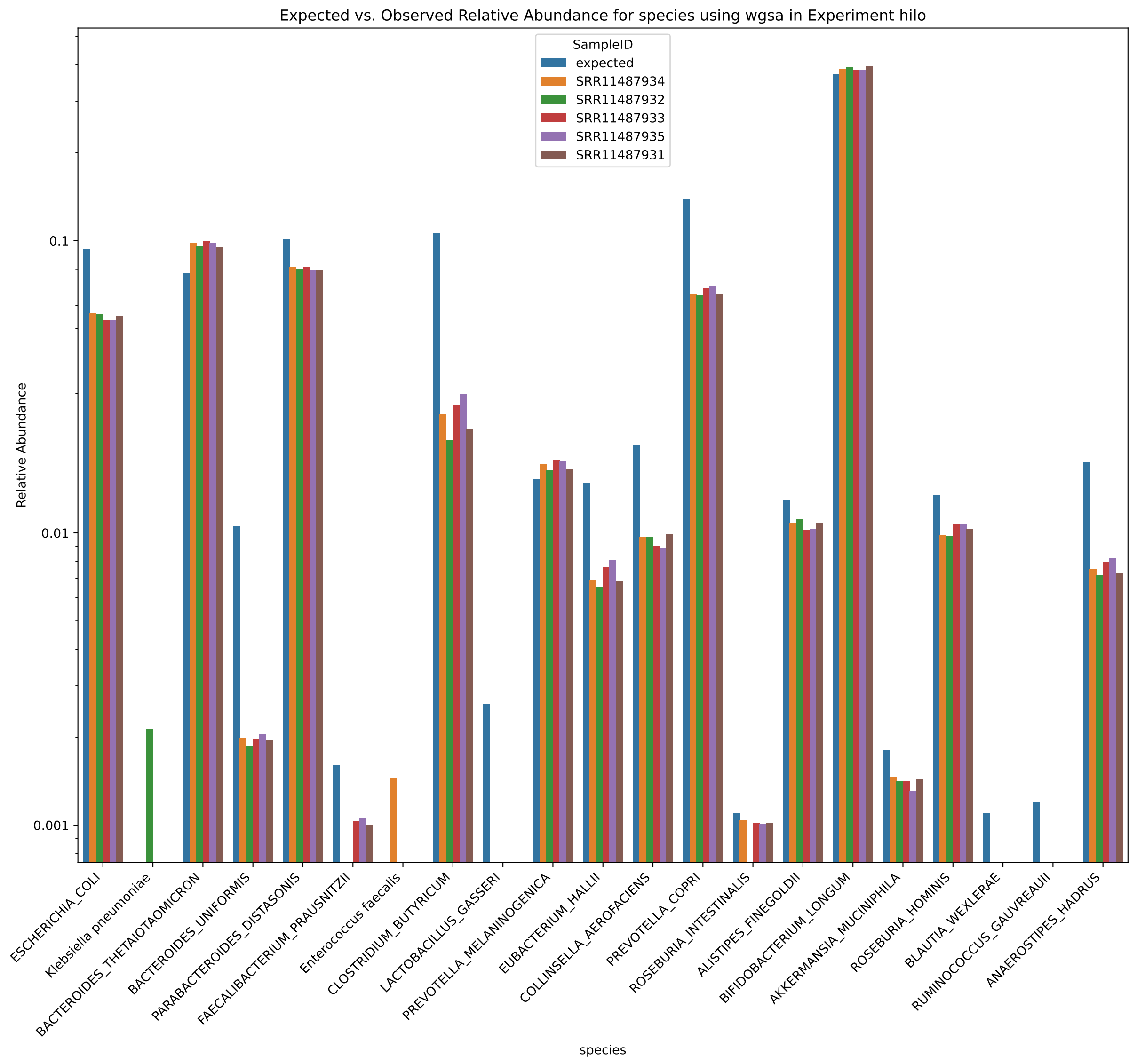
SampleID
expected
SRR11487934
SRR11487932
SRR11487933
SRR11487935
SRR11487931

Relative Abundance
0.1
0.01
0.001

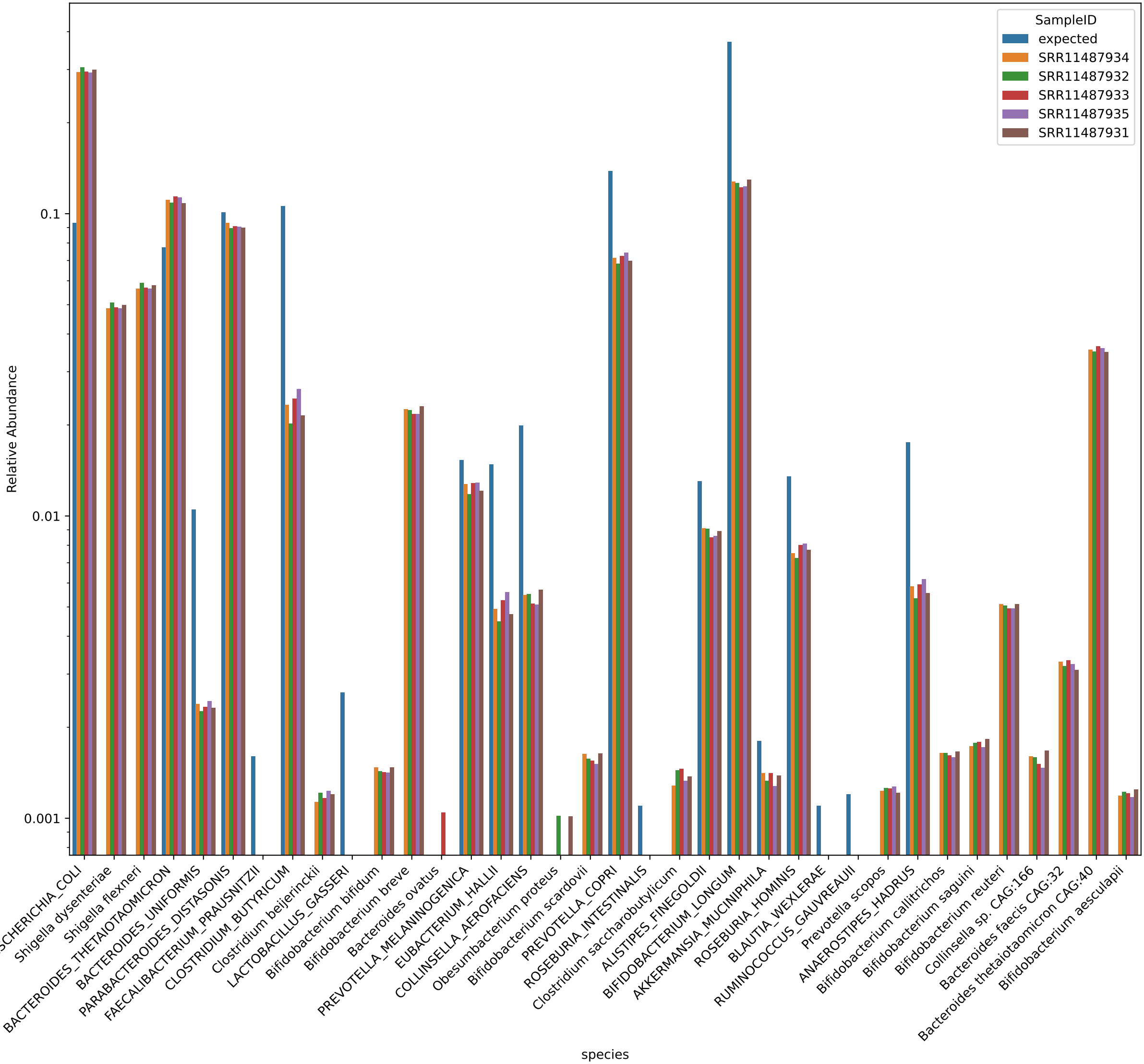
ESCHERICHIA_COLI
BACTEROIDES_THETAIOTAOMICRON
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
FAECALIBACTERIUM_PRAUSNITZII
CLOSTRIDIUM_BUTYRICUM
LACTOBACILLUS_GASSERI
PREVOTELLA_MELANINOGENICA
EUBACTERIUM_HALLII
COLLINSELLA_AEROFACIENS
PREVOTELLA_COPRI
ROSEBURIA_INTESTINALIS
ALISTIPES_FINEGOLDII
BIFIDOBACTERIUM_LONGUM
AKKERMANSIA_MUCINIPHILA
ROSEBURIA_HOMINIS
BLAUTIA_WEXLERAE
RUMINOCOCCUS_GAUVREAUII
ANAEROSTIPES_HADRUS

species

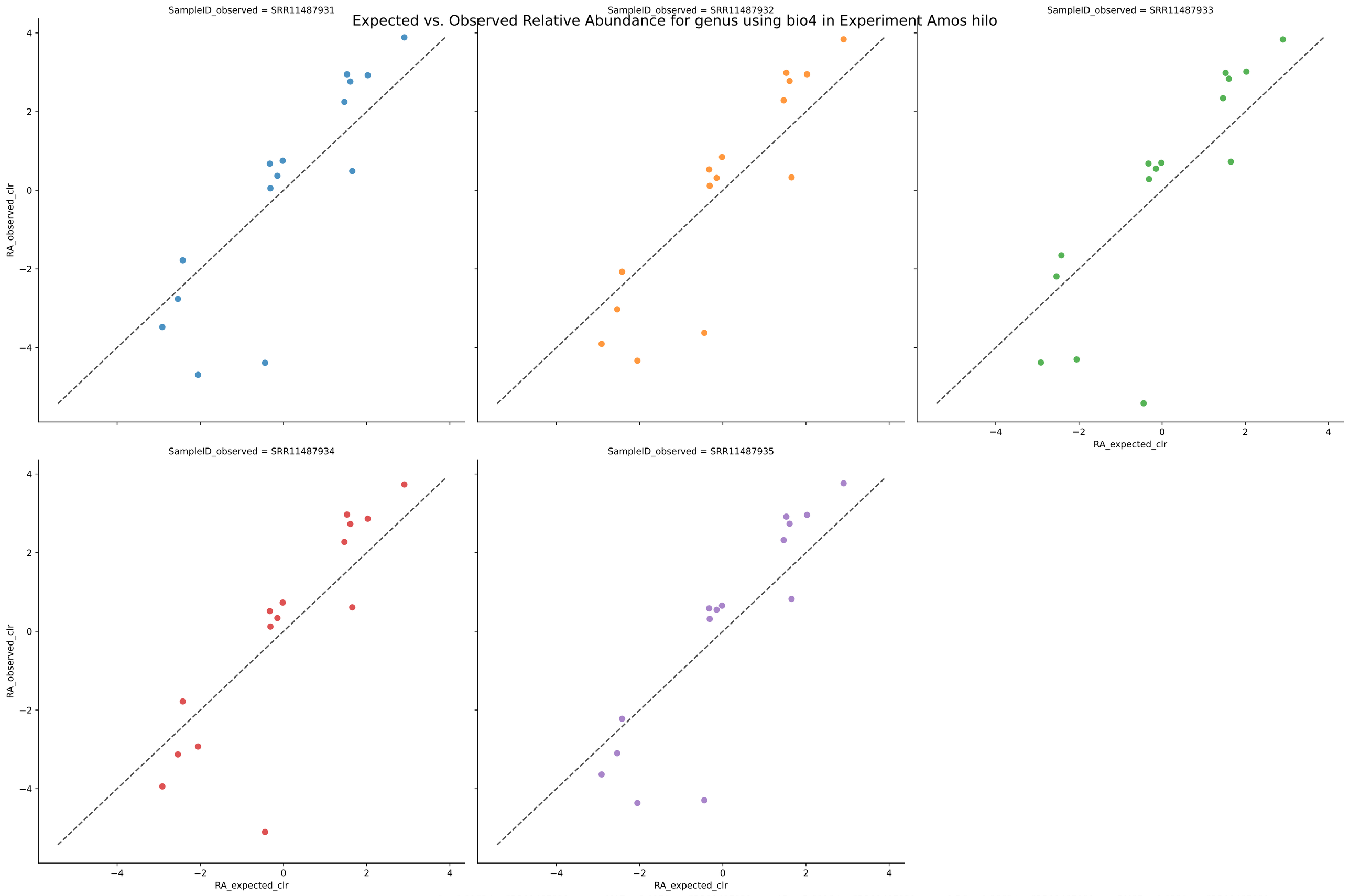
Expected vs. Observed Relative Abundance for species using wgsa in Experiment hilo



Expected vs. Observed Relative Abundance for species using wol in Experiment hilo



Expected vs. Observed Relative Abundance for genus using bio4 in Experiment Amos hilo



r² = 0.9163 for SRR11487931 MAE = 0.0178 for SRR11487931 AD = 5.6916 for SRR11487931 1-BC = 0.8663 for SRR11487931 RMSE = 0.0320 for SRR11487931

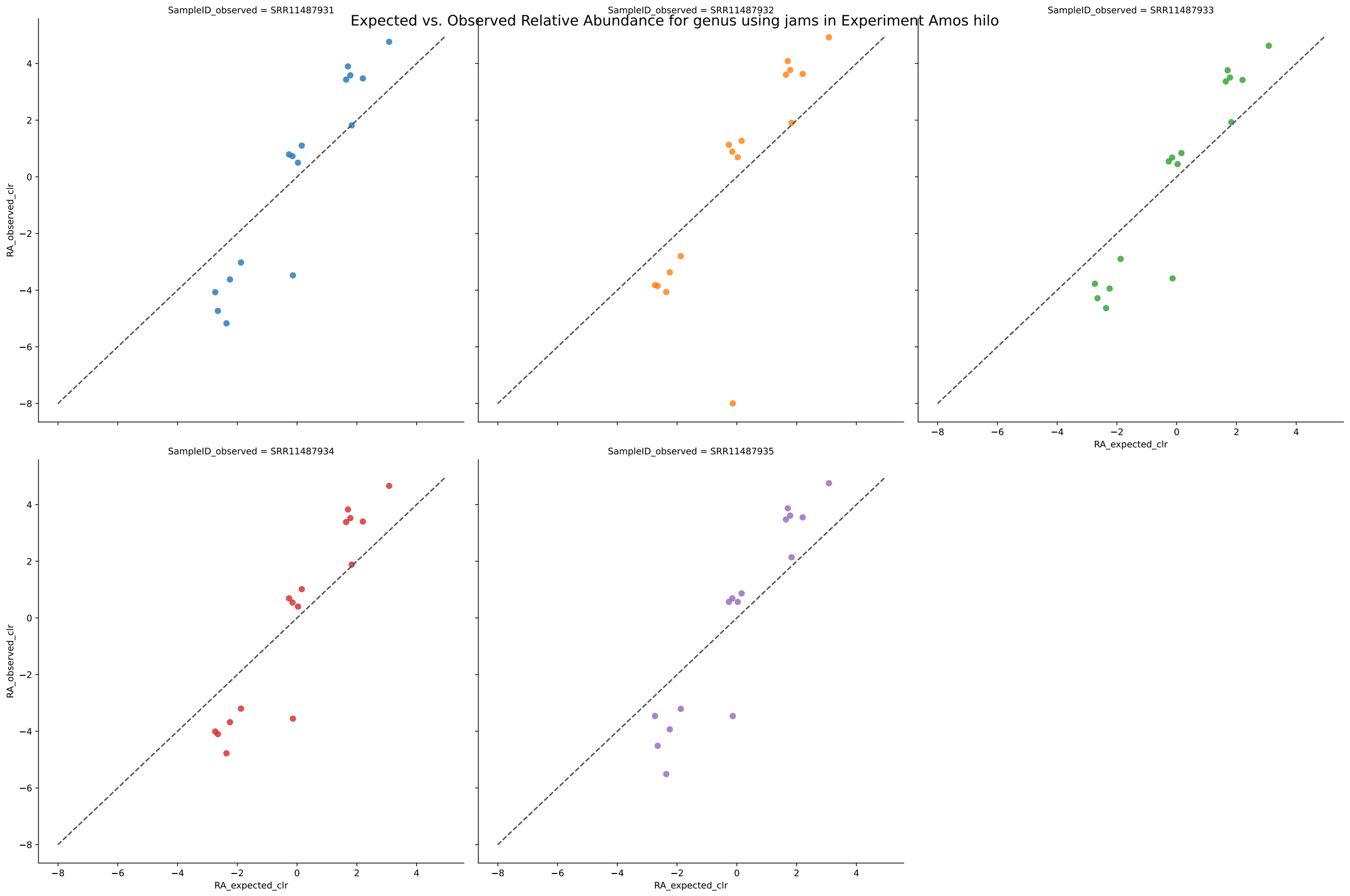
r² = 0.9048 for SRR11487932 MAE = 0.0174 for SRR11487932 AD = 5.1175 for SRR11487932 1-BC = 0.8693 for SRR11487932 RMSE = 0.0326 for SRR11487932

r² = 0.9085 for SRR11487933 MAE = 0.0162 for SRR11487933 AD = 6.4879 for SRR11487933 1-BC = 0.8781 for SRR11487933 RMSE = 0.0308 for SRR11487933

r² = 0.8969 for SRR11487934 MAE = 0.0160 for SRR11487934 AD = 5.6939 for SRR11487934 1-BC = 0.8798 for SRR11487934 RMSE = 0.0326 for SRR11487934

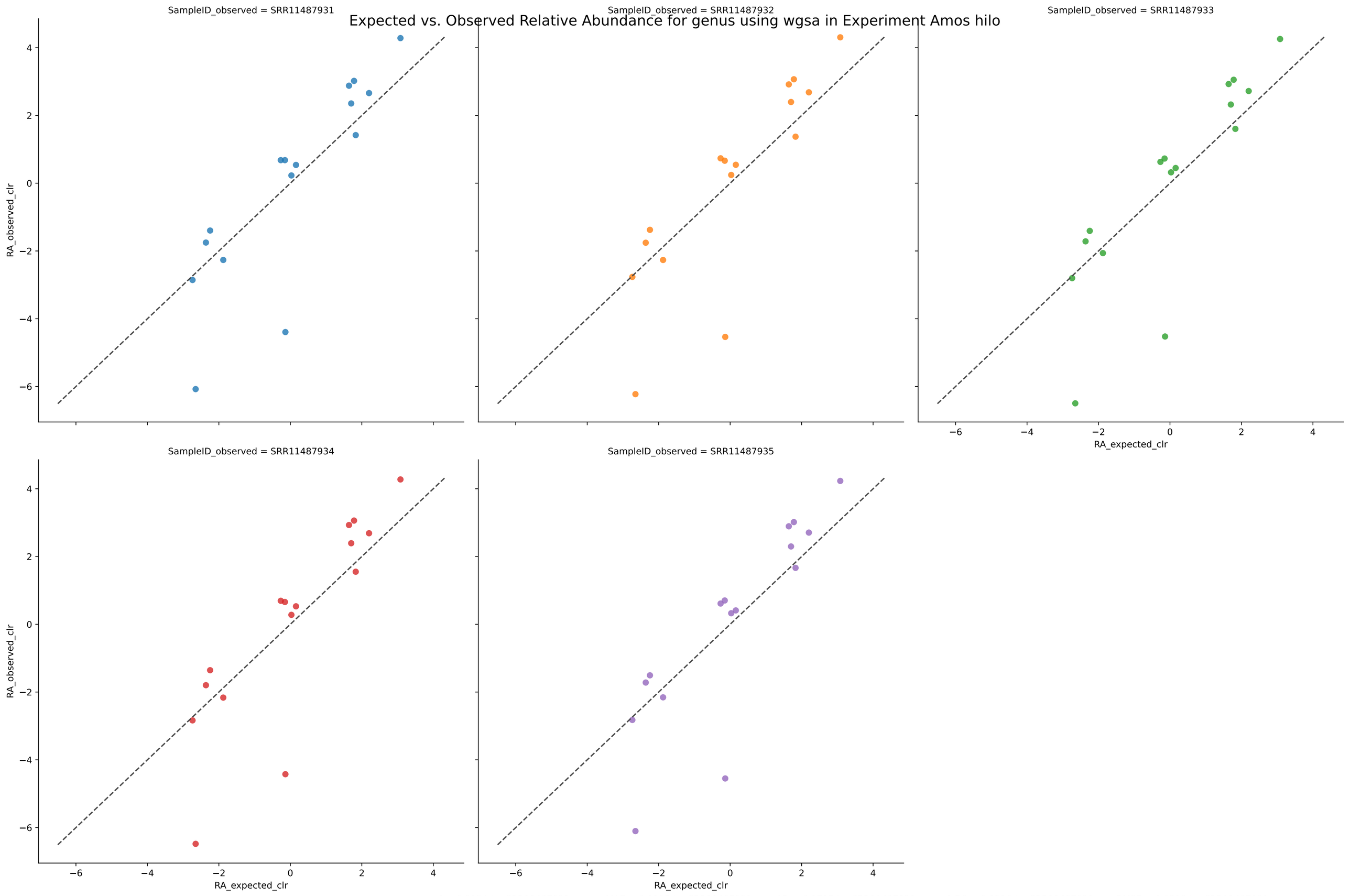
r² = 0.9133 for SRR11487935 MAE = 0.0152 for SRR11487935 AD = 5.4245 for SRR11487935 1-BC = 0.8859 for SRR11487935 RMSE = 0.0297 for SRR11487935

Expected vs. Observed Relative Abundance for genus using jams in Experiment Amos hilo



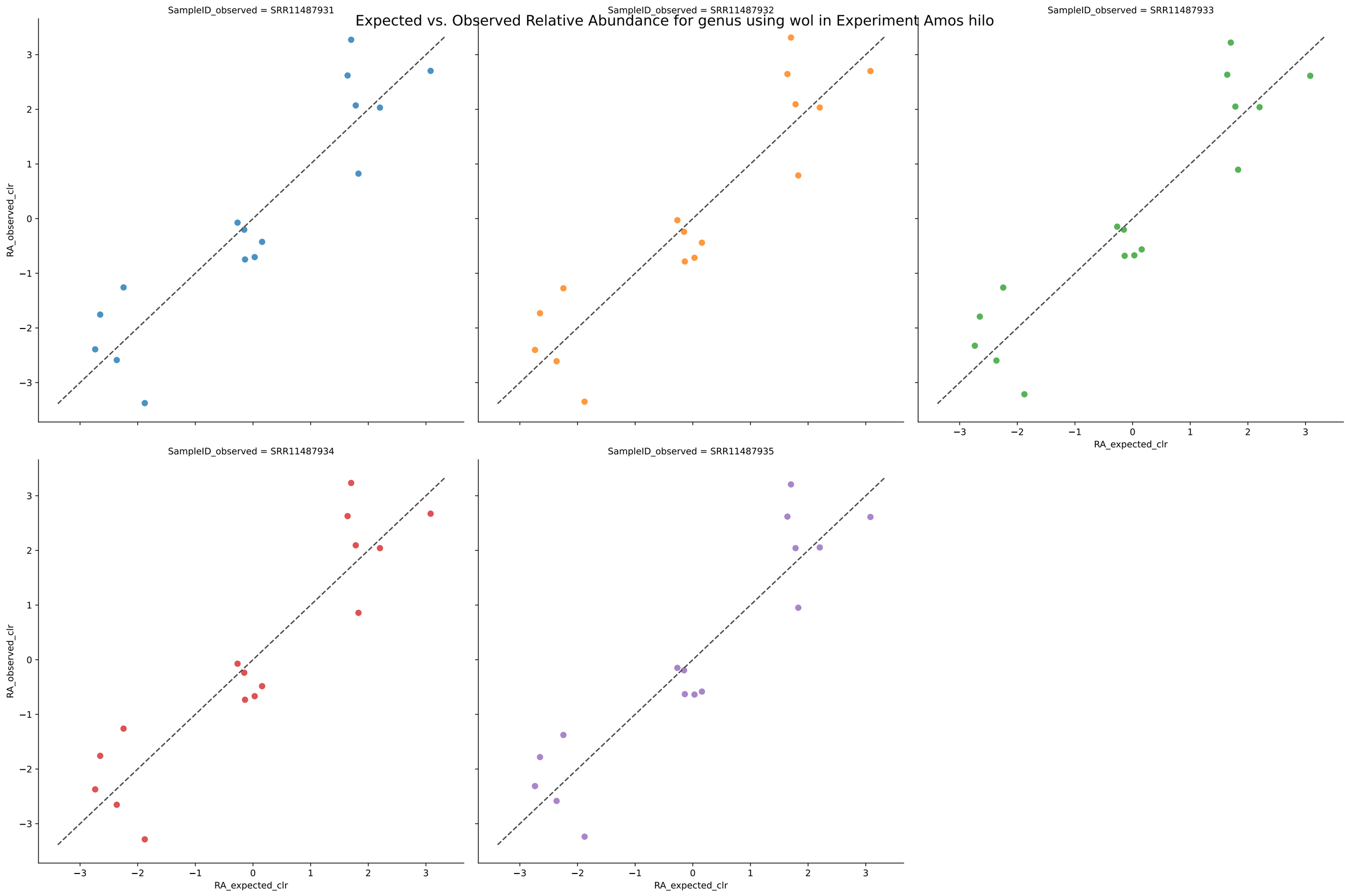
r² = 0.9036 for SRR11487931	MAE = 0.0219 for SRR11487931	AD = 6.8610 for SRR11487931	1-BC = 0.8241 for SRR11487931	RMSE = 0.0341 for SRR11487931
r² = 0.8973 for SRR11487932	MAE = 0.0221 for SRR11487932	AD = 9.6443 for SRR11487932	1-BC = 0.8223 for SRR11487932	RMSE = 0.0348 for SRR11487932
r² = 0.9110 for SRR11487933	MAE = 0.0206 for SRR11487933	AD = 6.3834 for SRR11487933	1-BC = 0.8339 for SRR11487933	RMSE = 0.0316 for SRR11487933
r² = 0.9022 for SRR11487934	MAE = 0.0215 for SRR11487934	AD = 6.4687 for SRR11487934	1-BC = 0.8270 for SRR11487934	RMSE = 0.0333 for SRR11487934
r² = 0.9168 for SRR11487935	MAE = 0.0204 for SRR11487935	AD = 6.9212 for SRR11487935	1-BC = 0.8356 for SRR11487935	RMSE = 0.0309 for SRR11487935

Expected vs. Observed Relative Abundance for genus using wgsa in Experiment Amos hilo



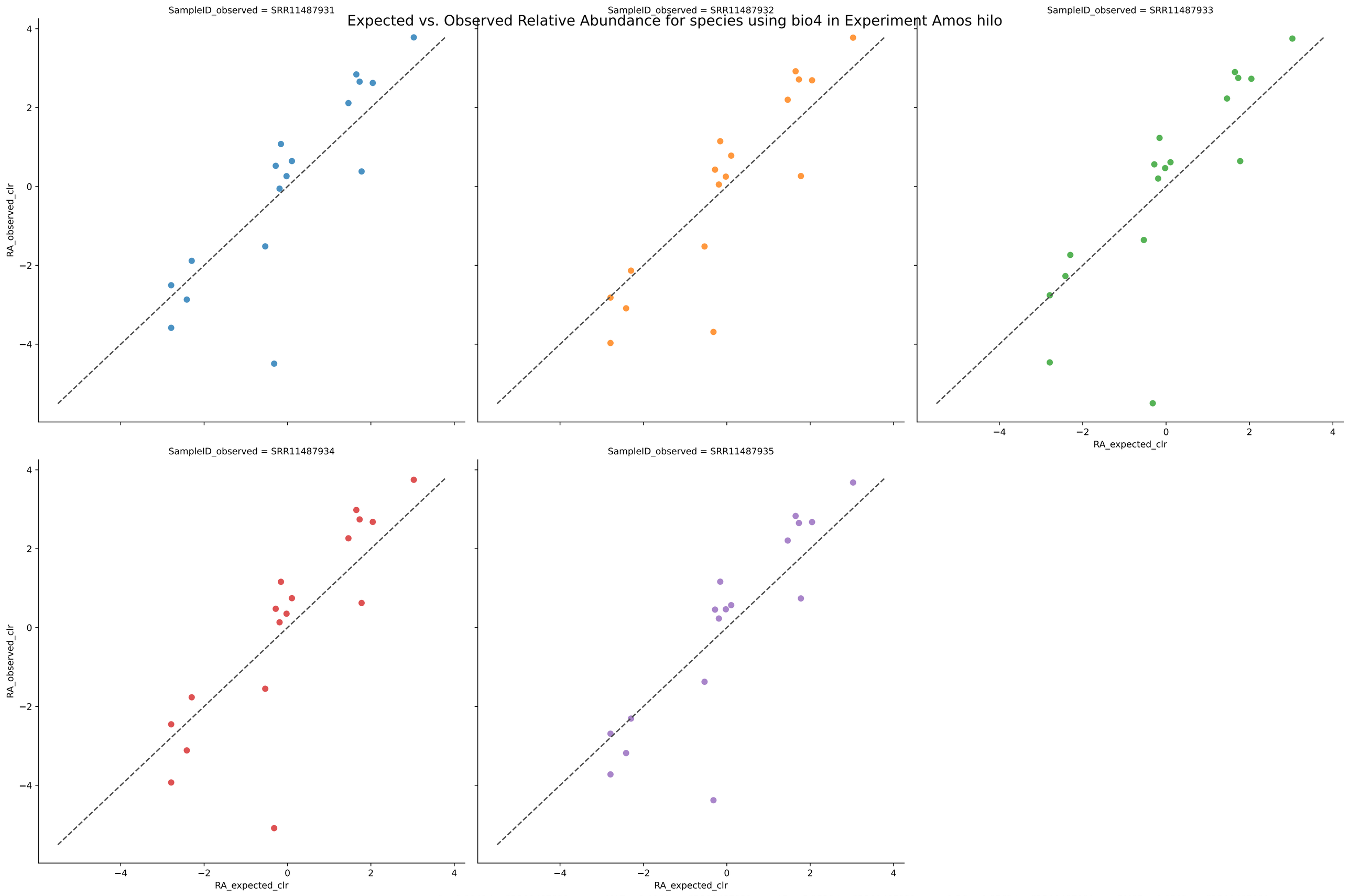
r² = 0.9134 for SRR11487931	MAE = 0.0195 for SRR11487931	AD = 6.1797 for SRR11487931	1-BC = 0.8316 for SRR11487931	RMSE = 0.0318 for SRR11487931
r² = 0.9112 for SRR11487932	MAE = 0.0196 for SRR11487932	AD = 6.4008 for SRR11487932	1-BC = 0.8305 for SRR11487932	RMSE = 0.0319 for SRR11487932
r² = 0.9198 for SRR11487933	MAE = 0.0187 for SRR11487933	AD = 6.5033 for SRR11487933	1-BC = 0.8385 for SRR11487933	RMSE = 0.0297 for SRR11487933
r² = 0.9165 for SRR11487934	MAE = 0.0189 for SRR11487934	AD = 6.4448 for SRR11487934	1-BC = 0.8365 for SRR11487934	RMSE = 0.0304 for SRR11487934
r² = 0.9235 for SRR11487935	MAE = 0.0183 for SRR11487935	AD = 6.2562 for SRR11487935	1-BC = 0.8420 for SRR11487935	RMSE = 0.0290 for SRR11487935

Expected vs. Observed Relative Abundance for genus using wol in Experiment Amos hilo



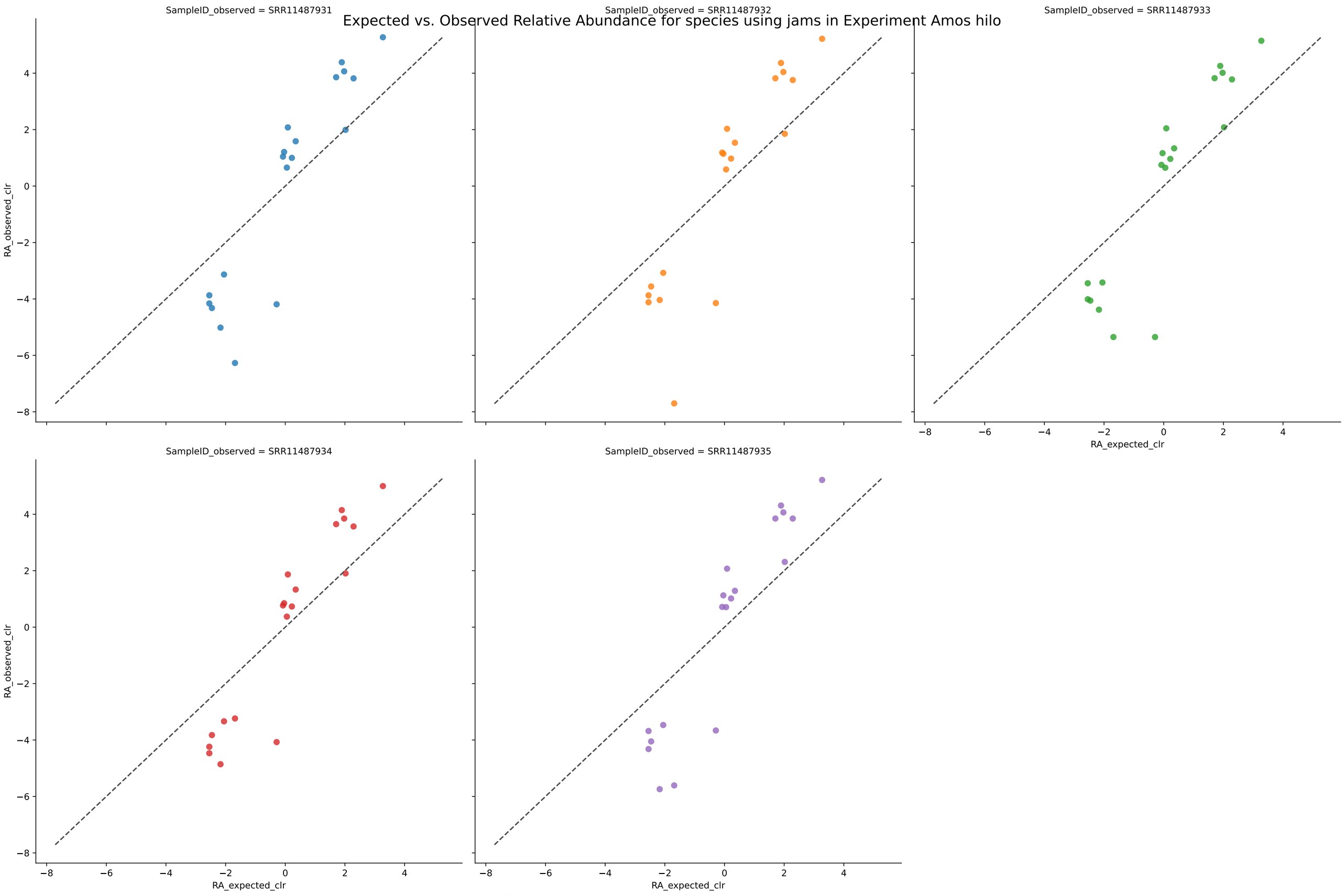
r² = 0.3723 for SRR11487931	MAE = 0.0425 for SRR11487931	AD = 3.1882 for SRR11487931	1-BC = 0.6373 for SRR11487931	RMSE = 0.0786 for SRR11487931
r² = 0.3532 for SRR11487932	MAE = 0.0434 for SRR11487932	AD = 3.2368 for SRR11487932	1-BC = 0.6289 for SRR11487932	RMSE = 0.0805 for SRR11487932
r² = 0.3586 for SRR11487933	MAE = 0.0427 for SRR11487933	AD = 3.0849 for SRR11487933	1-BC = 0.6355 for SRR11487933	RMSE = 0.0794 for SRR11487933
r² = 0.3760 for SRR11487934	MAE = 0.0420 for SRR11487934	AD = 3.1331 for SRR11487934	1-BC = 0.6418 for SRR11487934	RMSE = 0.0780 for SRR11487934
r² = 0.3660 for SRR11487935	MAE = 0.0422 for SRR11487935	AD = 3.0234 for SRR11487935	1-BC = 0.6404 for SRR11487935	RMSE = 0.0786 for SRR11487935

Expected vs. Observed Relative Abundance for species using bio4 in Experiment Amos hilo



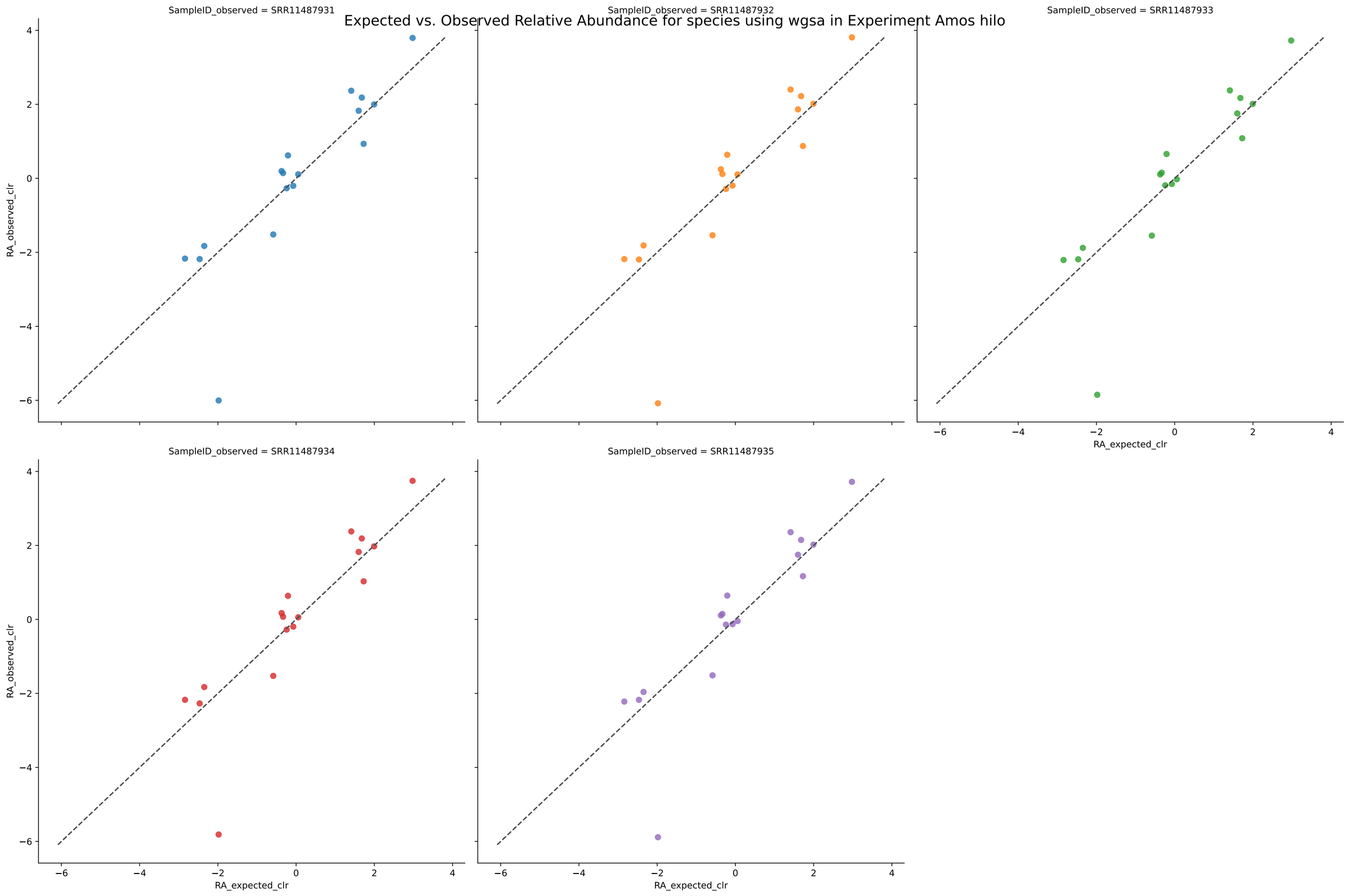
r² = 0.9142 for SRR11487931	MAE = 0.0169 for SRR11487931	AD = 5.2528 for SRR11487931	1-BC = 0.8563 for SRR11487931	RMSE = 0.0302 for SRR11487931
r² = 0.9028 for SRR11487932	MAE = 0.0164 for SRR11487932	AD = 4.8354 for SRR11487932	1-BC = 0.8604 for SRR11487932	RMSE = 0.0308 for SRR11487932
r² = 0.9066 for SRR11487933	MAE = 0.0152 for SRR11487933	AD = 6.2762 for SRR11487933	1-BC = 0.8708 for SRR11487933	RMSE = 0.0291 for SRR11487933
r² = 0.8944 for SRR11487934	MAE = 0.0161 for SRR11487934	AD = 5.8814 for SRR11487934	1-BC = 0.8626 for SRR11487934	RMSE = 0.0310 for SRR11487934
r² = 0.9113 for SRR11487935	MAE = 0.0145 for SRR11487935	AD = 5.1244 for SRR11487935	1-BC = 0.8766 for SRR11487935	RMSE = 0.0281 for SRR11487935

Expected vs. Observed Relative Abundance for species using jams in Experiment Amos hilo



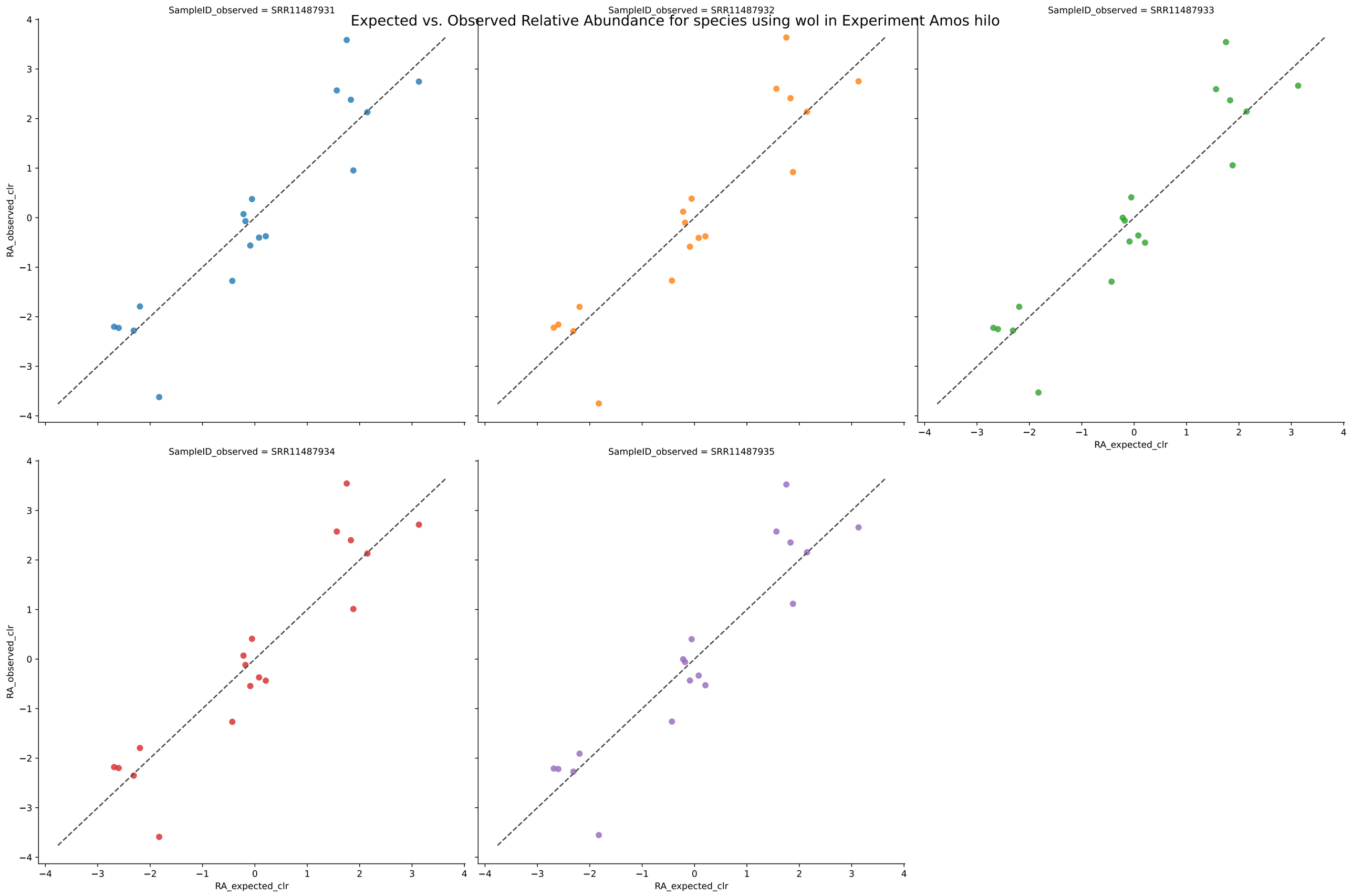
r² = 0.9021 for SRR11487931	MAE = 0.0191 for SRR11487931	AD = 9.1725 for SRR11487931	1-BC = 0.8156 for SRR11487931	RMSE = 0.0317 for SRR11487931
r² = 0.8961 for SRR11487932	MAE = 0.0194 for SRR11487932	AD = 9.5318 for SRR11487932	1-BC = 0.8132 for SRR11487932	RMSE = 0.0324 for SRR11487932
r² = 0.9069 for SRR11487933	MAE = 0.0184 for SRR11487933	AD = 8.8944 for SRR11487933	1-BC = 0.8227 for SRR11487933	RMSE = 0.0299 for SRR11487933
r² = 0.8996 for SRR11487934	MAE = 0.0189 for SRR11487934	AD = 7.5503 for SRR11487934	1-BC = 0.8170 for SRR11487934	RMSE = 0.0312 for SRR11487934
r² = 0.9133 for SRR11487935	MAE = 0.0180 for SRR11487935	AD = 8.8004 for SRR11487935	1-BC = 0.8255 for SRR11487935	RMSE = 0.0291 for SRR11487935

Expected vs. Observed Relative Abundance for species using wgsa in Experiment Amos hilo



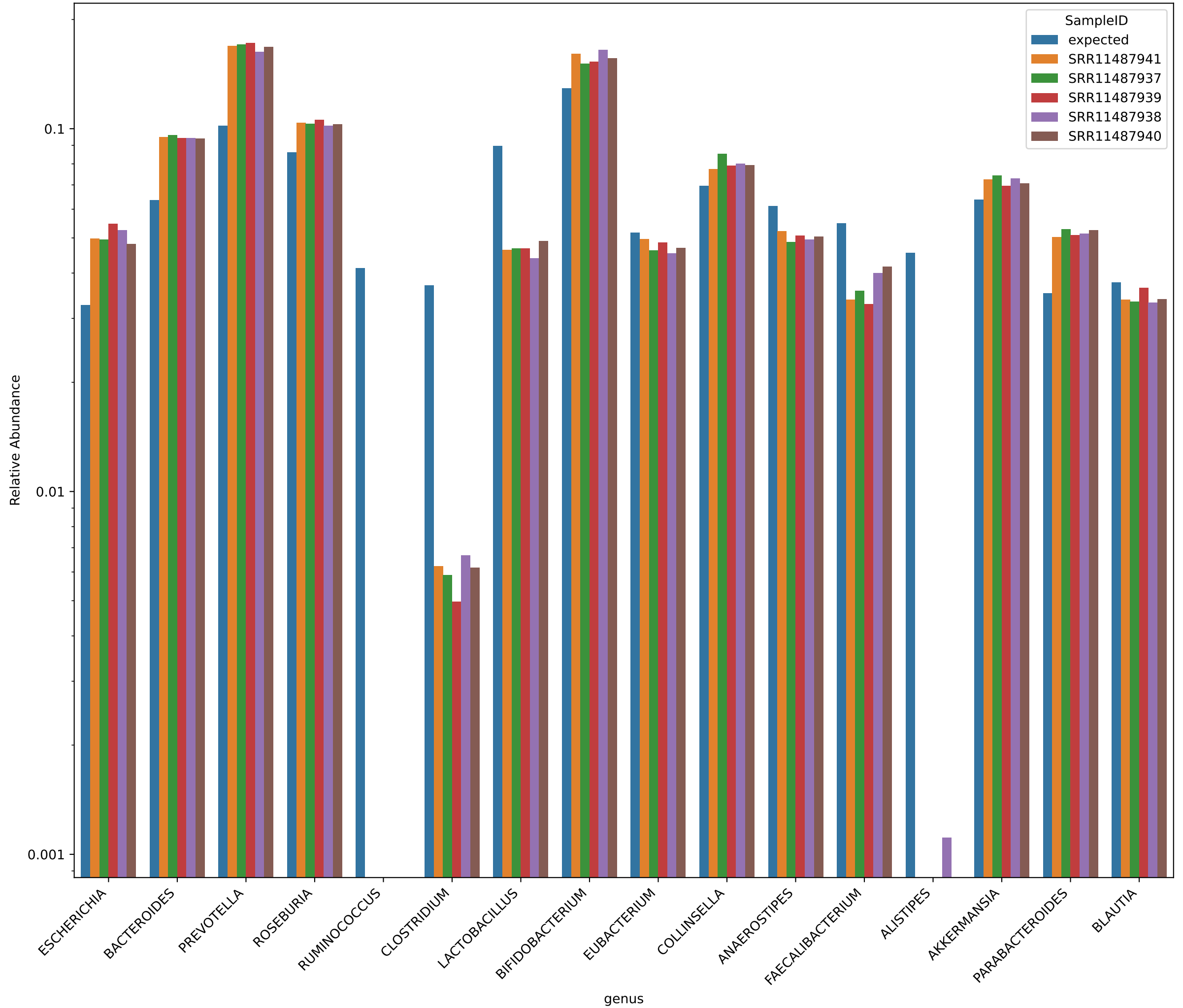
r² = 0.9122 for SRR11487931	MAE = 0.0180 for SRR11487931	AD = 4.6517 for SRR11487931	1-BC = 0.8276 for SRR11487931	RMSE = 0.0302 for SRR11487931
r² = 0.9108 for SRR11487932	MAE = 0.0180 for SRR11487932	AD = 4.7533 for SRR11487932	1-BC = 0.8279 for SRR11487932	RMSE = 0.0304 for SRR11487932
r² = 0.9187 for SRR11487933	MAE = 0.0171 for SRR11487933	AD = 4.4721 for SRR11487933	1-BC = 0.8366 for SRR11487933	RMSE = 0.0287 for SRR11487933
r² = 0.9158 for SRR11487934	MAE = 0.0173 for SRR11487934	AD = 4.4548 for SRR11487934	1-BC = 0.8343 for SRR11487934	RMSE = 0.0293 for SRR11487934
r² = 0.9223 for SRR11487935	MAE = 0.0168 for SRR11487935	AD = 4.4669 for SRR11487935	1-BC = 0.8392 for SRR11487935	RMSE = 0.0281 for SRR11487935

Expected vs. Observed Relative Abundance for species using wol in Experiment Amos hilo

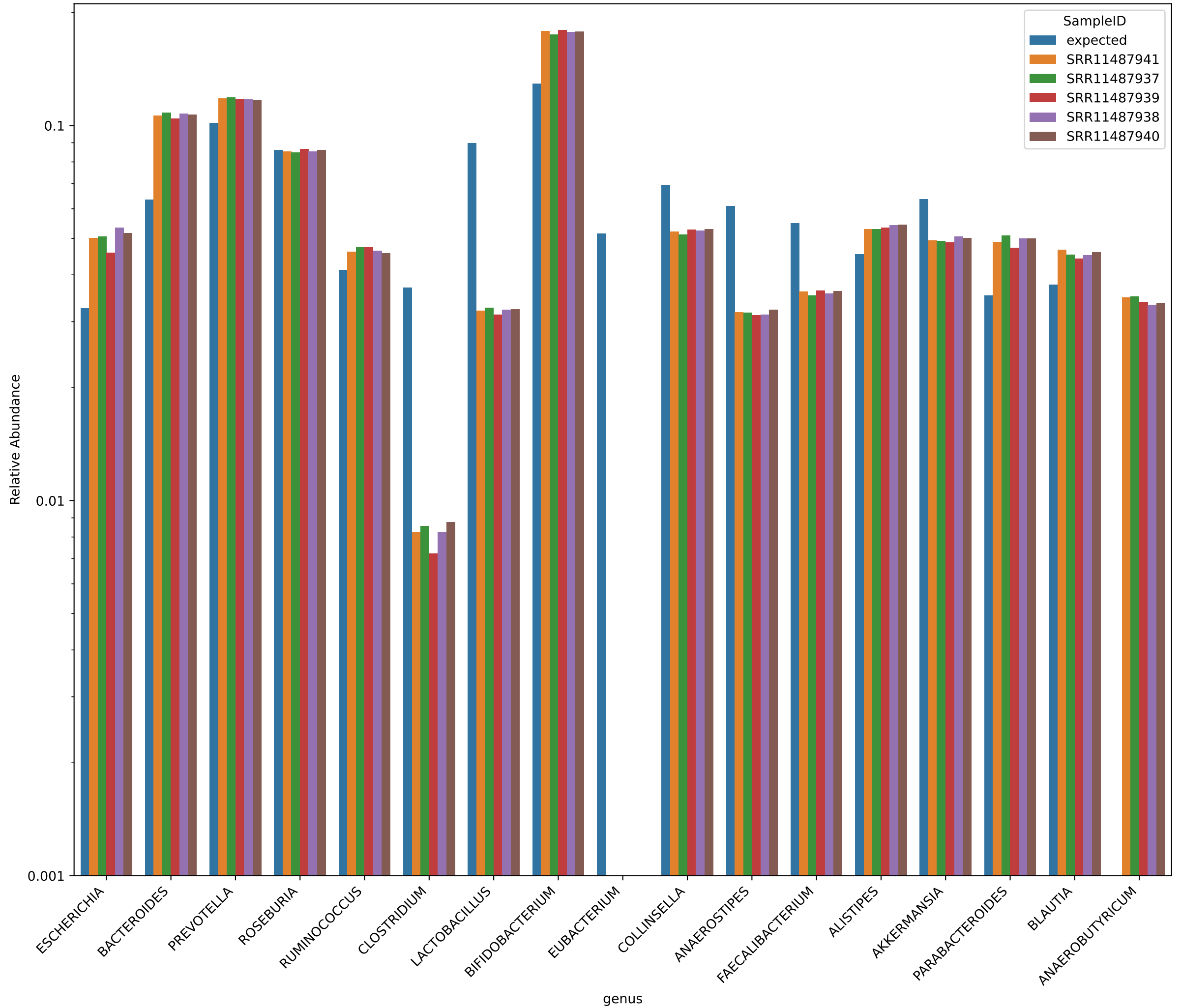


r² = 0.2914 for SRR11487931	MAE = 0.0391 for SRR11487931	AD = 3.3507 for SRR11487931	1-BC = 0.6019 for SRR11487931	RMSE = 0.0796 for SRR11487931
r² = 0.2756 for SRR11487932	MAE = 0.0399 for SRR11487932	AD = 3.4846 for SRR11487932	1-BC = 0.5938 for SRR11487932	RMSE = 0.0811 for SRR11487932
r² = 0.2816 for SRR11487933	MAE = 0.0391 for SRR11487933	AD = 3.2745 for SRR11487933	1-BC = 0.6021 for SRR11487933	RMSE = 0.0799 for SRR11487933
r² = 0.2963 for SRR11487934	MAE = 0.0386 for SRR11487934	AD = 3.3150 for SRR11487934	1-BC = 0.6080 for SRR11487934	RMSE = 0.0789 for SRR11487934
r² = 0.2883 for SRR11487935	MAE = 0.0387 for SRR11487935	AD = 3.2343 for SRR11487935	1-BC = 0.6071 for SRR11487935	RMSE = 0.0793 for SRR11487935

Expected vs. Observed Relative Abundance for genus using bio4 in Experiment mixed



Expected vs. Observed Relative Abundance for genus using jams in Experiment mixed



Expected vs. Observed Relative Abundance for genus using wgsa in Experiment mixed

SampleID
expected
SRR11487941
SRR11487937
SRR11487939
SRR11487938
SRR11487940

Relative Abundance
0.1
0.01
0.001

ESCHERICHIA
Vibrio
BACTEROIDES
PREVOTELLA
ROSEBURIA
RUMINOCOCCUS
Staphylococcus
CLOSTRIDIUM
LACTOBACILLUS
BIFIDOBACTERIUM
EUBACTERIUM
Coprococcus
COLLINSELLA
ANAEROSTIPES
FAECALIBACTERIUM
ALISTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
Faecalicatena
Mediterraneibacter
Anaerobutyricum
Limosilactobacillus

genus

Expected vs. Observed Relative Abundance for genus using wol in Experiment mixed

SampleID
expected
SRR11487941
SRR11487937
SRR11487939
SRR11487938
SRR11487940

Relative Abundance
0.1
0.01
0.001

ESCHERICHIA
Shigella
BACTEROIDES
Butyrivibrio
PREVOTELLA
ROSEBURIA
RUMINOCOCCUS
CLOSTRIDIUM
LACTOBACILLUS
BIFIDOBACTERIUM
EUBACTERIUM
Coprococcus
COLLINSELLA
Dorea
ANAEROSTIPES
FAECALIBACTERIUM
ALISTIPES
AKKERMANSIA
PARABACTEROIDES
BLAUTIA
Fusicatenibacter
Lachnoclostridium
Tyzzerella

genus

Expected vs. Observed Relative Abundance for species using bio4 in Experiment mixed

SampleID
expected
SRR11487938
SRR11487940
SRR11487939
SRR11487941
SRR11487937

Relative Abundance

0.1
0.01
0.001

ESCHERICHIA_COLI
BACTEROIDES_THETAIOTAOMICRON
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
FAECALIBACTERIUM_PRAUSNITZII
CLOSTRIDIUM_BUTYRICUM
LACTOBACILLUS_GASSERI
PREVOTELLA_MELANINOGENICA
EUBACTERIUM_HALLII
COLLINSELLA_AEROFACIENS
PREVOTELLA_COPRI
ROSEBURIA_INTESTINALIS
ALISTIPES_FINEGOLDII
BIFIDOBACTERIUM_LONGUM
AKKERMANSIA_MUCINIPHILA
ROSEBURIA_HOMINIS
BLAUTIA_WEXLERAE
RUMINOCOCCUS_GAUVREAUII
ANAEROSTIPES_HADRUS
LACTOBACILLUS_PARAGASSERI

species

Expected vs. Observed Relative Abundance for species using jams in Experiment mixed

SampleID
expected
SRR11487938
SRR11487940
SRR11487939
SRR11487941
SRR11487937

Relative Abundance
0.1
0.01
0.001

ESCHERICHIA_COLI
BACTEROIDES_THETAIOTAOMICRON
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
FAECALIBACTERIUM_PRAUSNITZII
CLOSTRIDIUM_BUTYRICUM
LACTOBACILLUS_GASSERI
PREVOTELLA_MELANINOGENICA
LACTOBACILLUS_JOHNSONII
EUBACTERIUM_HALLII
COLLINSELLA_AEROFACIENS
PREVOTELLA_COPRI
ROSEBURIA_INTESTINALIS
ALISTIPES_FINEGOLDII
BIFIDOBACTERIUM_LONGUM
AKKERMANSIA_MUCINIPHILA
ROSEBURIA_HOMINIS
BLAUTIA_WEXLERAE
RUMINOCOCCUS_GAUVREAUII
LACTOBACILLUS_TAIWANENSIS
ANAEROSTIPES_HADRUS
LACTOBACILLUS_PARAGASSERI

species

Expected vs. Observed Relative Abundance for species using wgsa in Experiment mixed

SampleID
expected
SRR11487938
SRR11487940
SRR11487939
SRR11487941
SRR11487937

Relative Abundance

0.1
0.01
0.001

ESCHERICHIA_COLI
BACTEROIDES_THETAIOTAOMICRON
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
FAECALIBACTERIUM_PRAUSNITZII
Staphylococcus aureus
CLOSTRIDIUM_BUTYRICUM
LACTOBACILLUS_GASSERI
Limosilactobacillus fermentum
Lactobacillus phage phiadh
PREVOTELLA_MELANINOGENICA
EUBACTERIUM_HALLII
Blautia obeum
COLLINSELLA_AEROFACIENS
PREVOTELLA_COPRI
ROSEBURIA_INTESTINALIS
ALISTIPES_FINEGOLDII
BIFIDOBACTERIUM_LONGUM
AKKERMANSIA_MUCINIPHILA
ROSEBURIA_HOMINIS
BLAUTIA_WEXLERAE
RUMINOCOCCUS_GAUVREAUII
ANAEROSTIPES_HADRUS
Blautia sp. YL58
Lactobacillus paragasseri
Blautia sp. SC05B48
Vibrio sp. Scap24
Faecalicatena sp. Marseille-Q4148

species

Expected vs. Observed Relative Abundance for species using wol in Experiment mixed

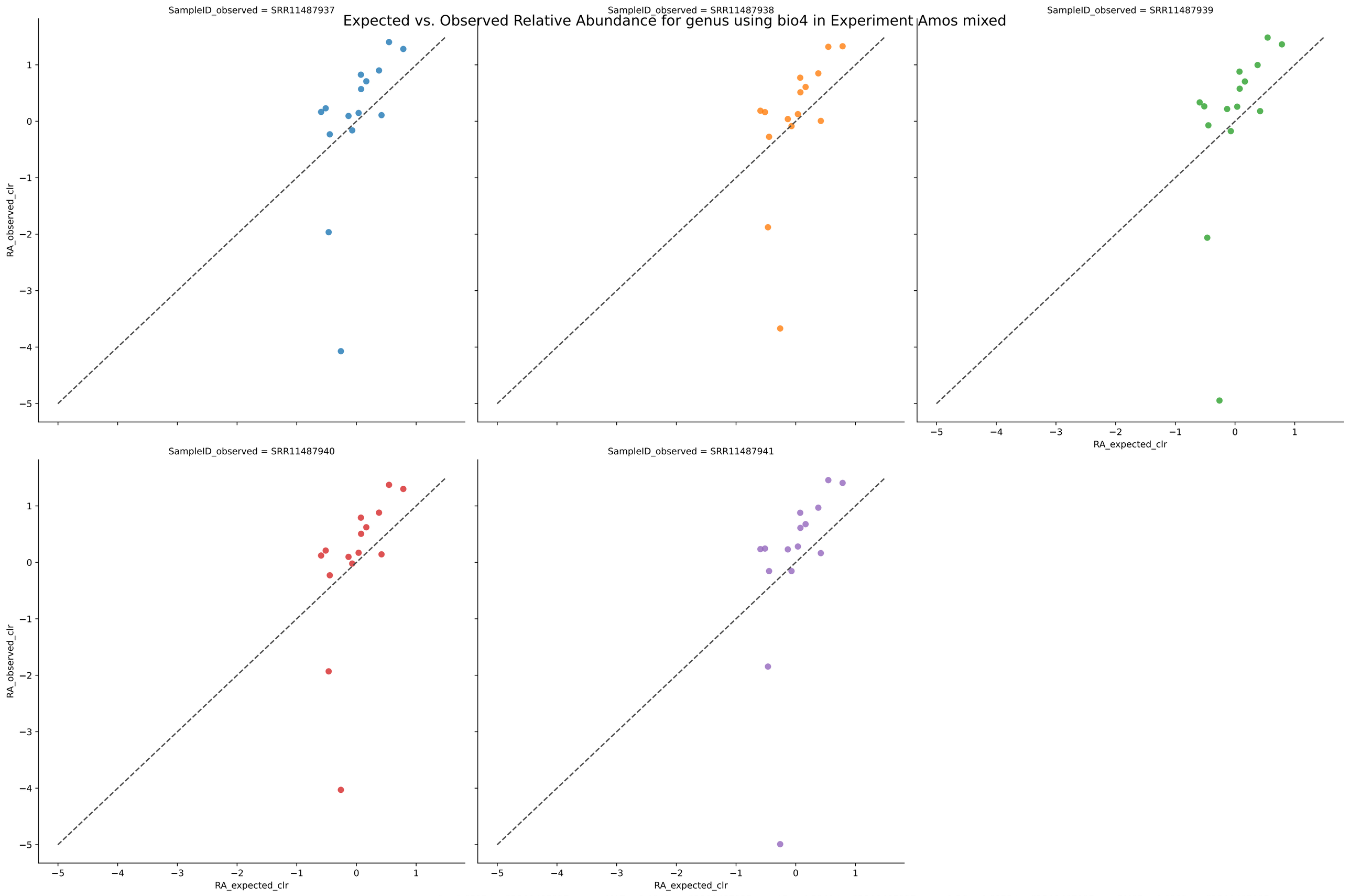
SampleID
expected
SRR11487938
SRR11487940
SRR11487939
SRR11487941
SRR11487937

Relative Abundance
0.1
0.01
0.001

species

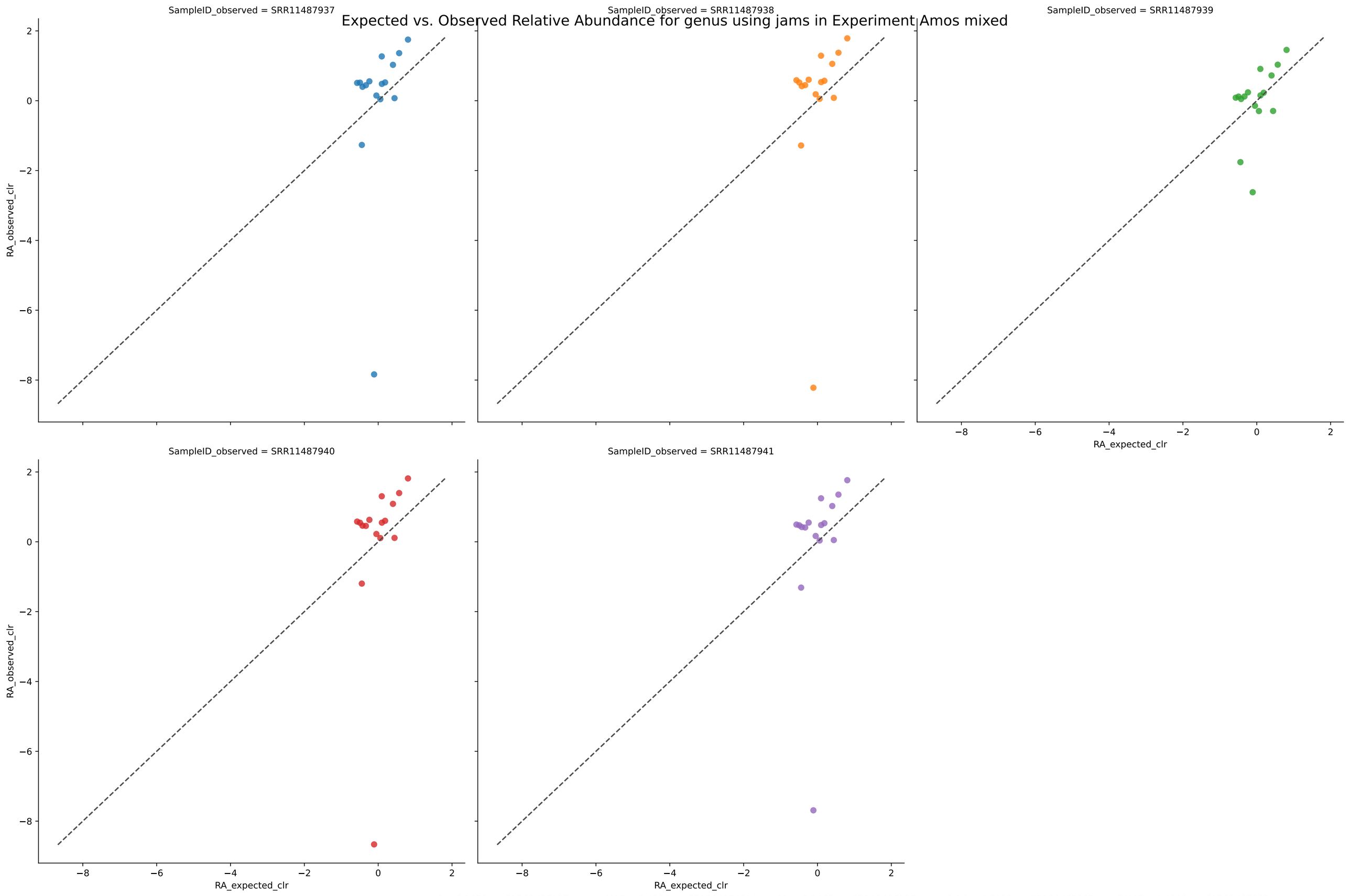
ESCHERICHIA_COLI
Shigella dysenteriae
Shigella flexneri
BACTEROIDES_THETAIOTAOMICRON
BACTEROIDES_UNIFORMIS
Bacteroides vulgatus
PARABACTEROIDES_DISTASONIS
FAECALIBACTERIUM_PRAUSNITZII
Blautia hansenii
CLOSTRIDIUM_BUTYRICUM
LACTOBACILLUS_GASSERI
Lactobacillus fermentum
Bifidobacterium breve
PREVOTELLA_MELANINOGENICA
Tyzzerella nexilis
Dorea formicigenerans
EUBACTERIUM_HALLII
Eubacterium ramulus
Eubacterium rectale
Eubacterium ventriosum
Blautia obeum
Butyrivibrio crossotus
Bacteroides stercoris
COLLINSELLA_AEROFACIENS
PREVOTELLA_COPRI
ROSEBURIA_INTESTINALIS
BIFIDOBACTERIUM_LONGUM
ALISTIPES_FINEGOLDII
AKKERMANSIA_MUCINIPHILA
ROSEBURIA_HOMINIS
Roseburia faecis
Alistipes shahii
Roseburia inulinivorans
Bacteroides pectinophilus
Coprococcus comes
Clostridium sp. M62/1
BLAUTIA_WEXLERAE
RUMINOCOCCUS_GAUVREAUII
Prevotella histicola
Prevotella fusca
Prevotella scopos
Ruminococcus faecis
ANAEROSTIPES_HADRUS
Fusicatenibacter saccharivorans
Bifidobacterium reuteri
Blautia sp. KLE 1732
Collinsella sp. CAG:166
Eubacterium sp. CAG:146
Akkermansia muciniphila CAG:154
Bacteroides faecis CAG:32
Bacteroides thetaiotaomicron CAG:40
Alistipes senegalensis
Akkermansia sp. UNK.MGS-1
Akkermansia sp. 54 46
Bacteroidales bacterium 55 9
Akkermansia sp. Phil8

Expected vs. Observed Relative Abundance for genus using bio4 in Experiment Amos mixed



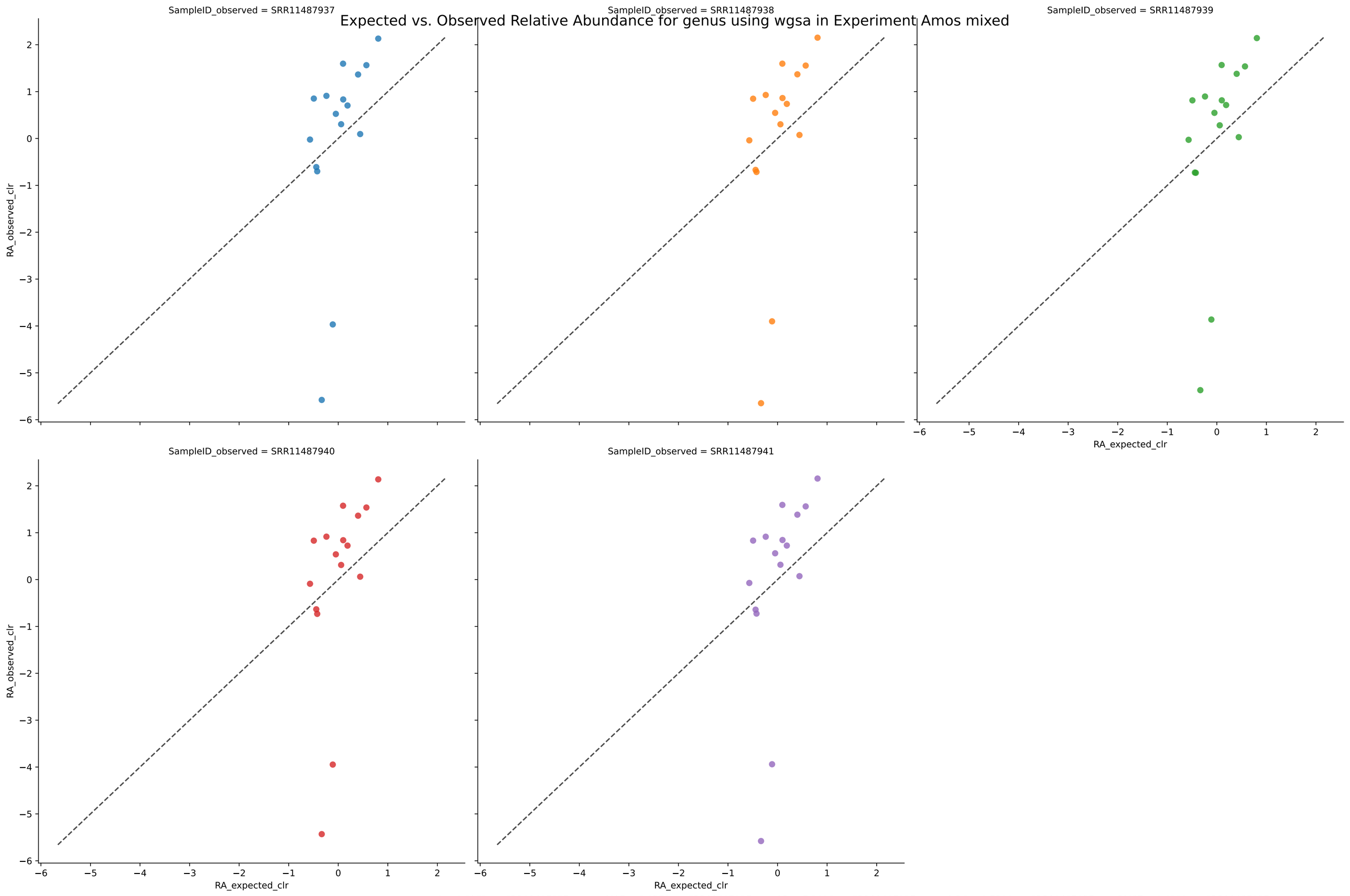
r² = 0.6595 for SRR11487937	MAE = 0.0241 for SRR11487937	AD = 4.5249 for SRR11487937	1-BC = 0.8155 for SRR11487937	RMSE = 0.0293 for SRR11487937
r² = 0.6856 for SRR11487938	MAE = 0.0238 for SRR11487938	AD = 4.1118 for SRR11487938	1-BC = 0.8178 for SRR11487938	RMSE = 0.0288 for SRR11487938
r² = 0.6543 for SRR11487939	MAE = 0.0237 for SRR11487939	AD = 5.3975 for SRR11487939	1-BC = 0.8188 for SRR11487939	RMSE = 0.0297 for SRR11487939
r² = 0.6903 for SRR11487940	MAE = 0.0226 for SRR11487940	AD = 4.4374 for SRR11487940	1-BC = 0.8273 for SRR11487940	RMSE = 0.0282 for SRR11487940
r² = 0.6856 for SRR11487941	MAE = 0.0235 for SRR11487941	AD = 5.3530 for SRR11487941	1-BC = 0.8203 for SRR11487941	RMSE = 0.0293 for SRR11487941

Expected vs. Observed Relative Abundance for genus using jams in Experiment Amos mixed



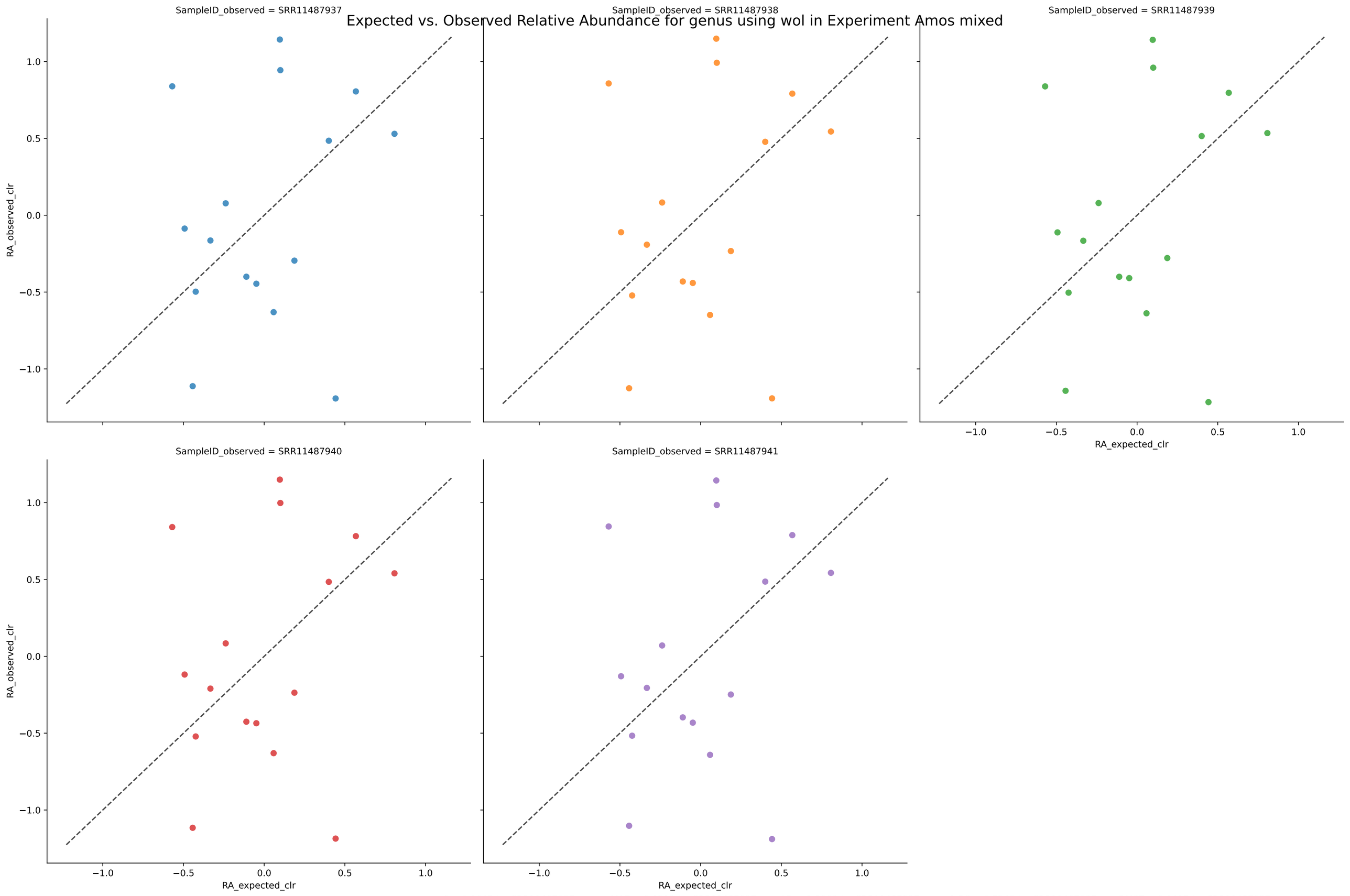
r² = 0.5479 for SRR11487937	MAE = 0.0239 for SRR11487937	AD = 8.2583 for SRR11487937	1-BC = 0.8032 for SRR11487937	RMSE = 0.0292 for SRR11487937
r² = 0.5460 for SRR11487938	MAE = 0.0239 for SRR11487938	AD = 8.6504 for SRR11487938	1-BC = 0.8036 for SRR11487938	RMSE = 0.0294 for SRR11487938
r² = 0.5747 for SRR11487939	MAE = 0.0234 for SRR11487939	AD = 3.4024 for SRR11487939	1-BC = 0.8067 for SRR11487939	RMSE = 0.0292 for SRR11487939
r² = 0.5531 for SRR11487940	MAE = 0.0236 for SRR11487940	AD = 9.0831 for SRR11487940	1-BC = 0.8060 for SRR11487940	RMSE = 0.0292 for SRR11487940
r² = 0.5581 for SRR11487941	MAE = 0.0237 for SRR11487941	AD = 8.1152 for SRR11487941	1-BC = 0.8045 for SRR11487941	RMSE = 0.0293 for SRR11487941

Expected vs. Observed Relative Abundance for genus using wgsa in Experiment Amos mixed



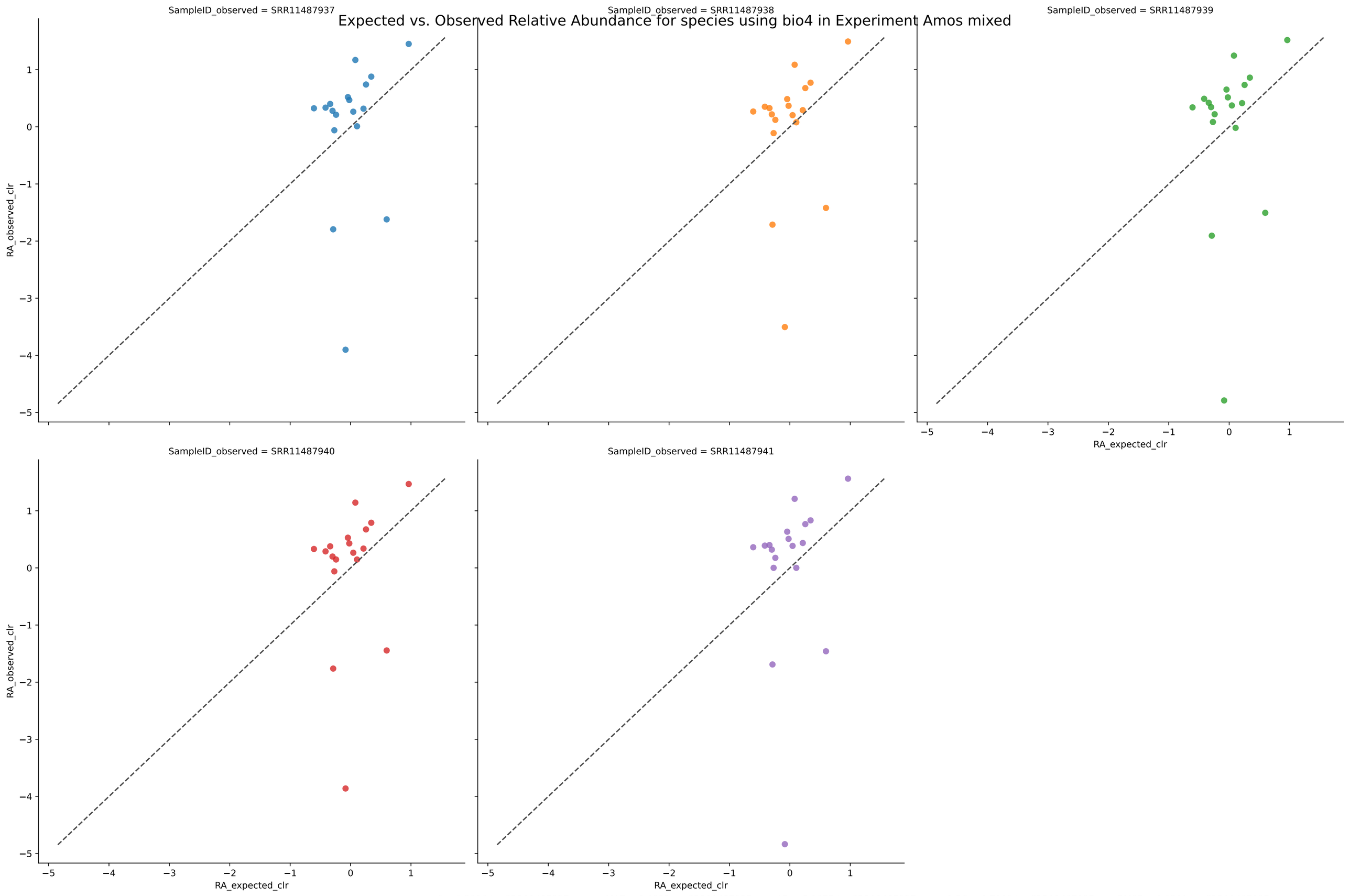
r² = 0.6162 for SRR11487937	MAE = 0.0271 for SRR11487937	AD = 7.2906 for SRR11487937	1-BC = 0.7596 for SRR11487937	RMSE = 0.0329 for SRR11487937
r² = 0.6172 for SRR11487938	MAE = 0.0272 for SRR11487938	AD = 7.3210 for SRR11487938	1-BC = 0.7596 for SRR11487938	RMSE = 0.0331 for SRR11487938
r² = 0.6217 for SRR11487939	MAE = 0.0271 for SRR11487939	AD = 7.0792 for SRR11487939	1-BC = 0.7598 for SRR11487939	RMSE = 0.0333 for SRR11487939
r² = 0.6200 for SRR11487940	MAE = 0.0271 for SRR11487940	AD = 7.1672 for SRR11487940	1-BC = 0.7602 for SRR11487940	RMSE = 0.0330 for SRR11487940
r² = 0.6231 for SRR11487941	MAE = 0.0271 for SRR11487941	AD = 7.2852 for SRR11487941	1-BC = 0.7601 for SRR11487941	RMSE = 0.0332 for SRR11487941

Expected vs. Observed Relative Abundance for genus using wol in Experiment Amos mixed



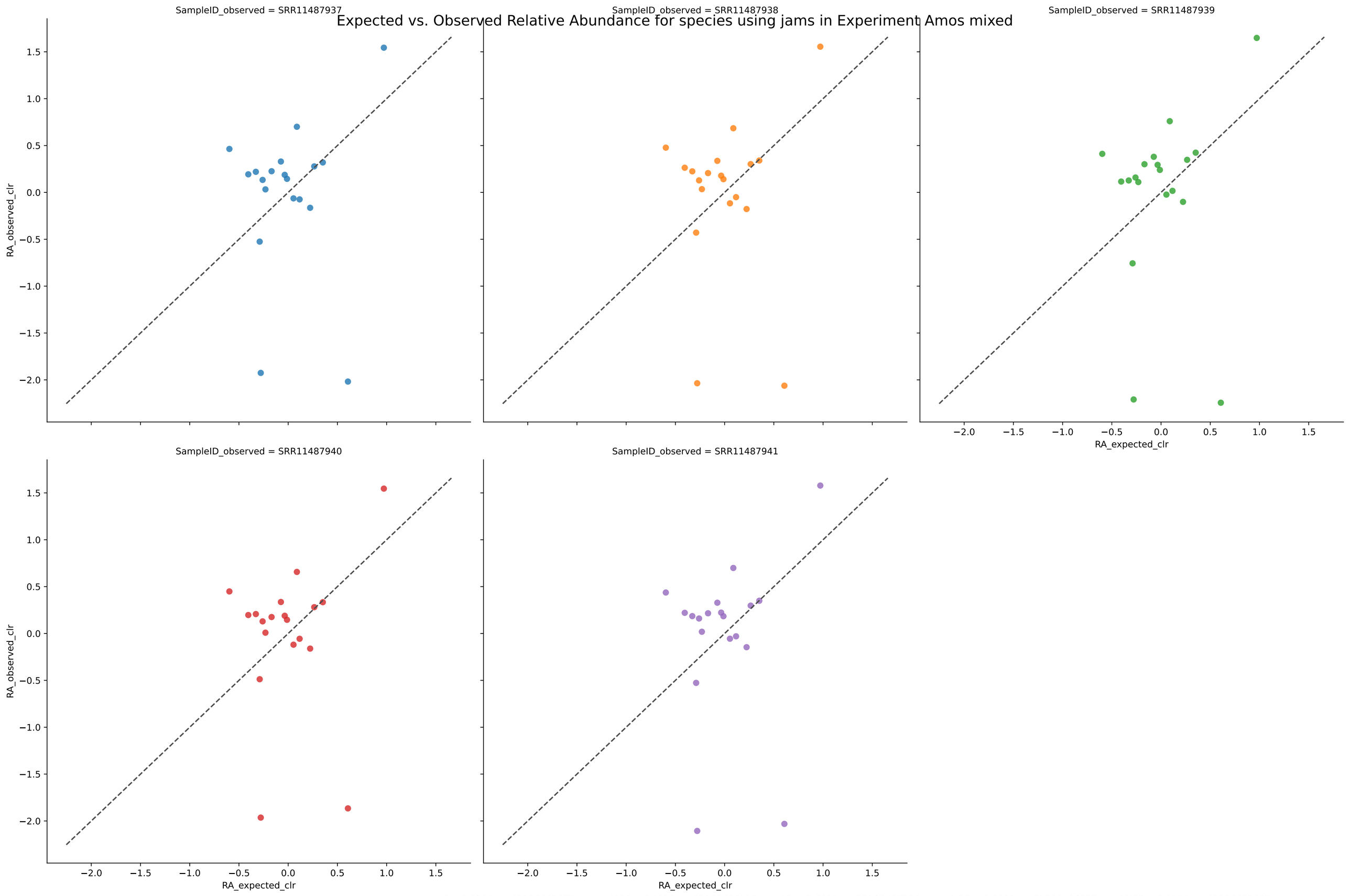
r² = 0.0645 for SRR11487937	MAE = 0.0319 for SRR11487937	AD = 2.8809 for SRR11487937	1-BC = 0.7349 for SRR11487937	RMSE = 0.0415 for SRR11487937
r² = 0.0633 for SRR11487938	MAE = 0.0324 for SRR11487938	AD = 2.9006 for SRR11487938	1-BC = 0.7305 for SRR11487938	RMSE = 0.0420 for SRR11487938
r² = 0.0662 for SRR11487939	MAE = 0.0317 for SRR11487939	AD = 2.8965 for SRR11487939	1-BC = 0.7363 for SRR11487939	RMSE = 0.0414 for SRR11487939
r² = 0.0643 for SRR11487940	MAE = 0.0324 for SRR11487940	AD = 2.8819 for SRR11487940	1-BC = 0.7307 for SRR11487940	RMSE = 0.0419 for SRR11487940
r² = 0.0658 for SRR11487941	MAE = 0.0321 for SRR11487941	AD = 2.8748 for SRR11487941	1-BC = 0.7333 for SRR11487941	RMSE = 0.0417 for SRR11487941

Expected vs. Observed Relative Abundance for species using bio4 in Experiment Amos mixed



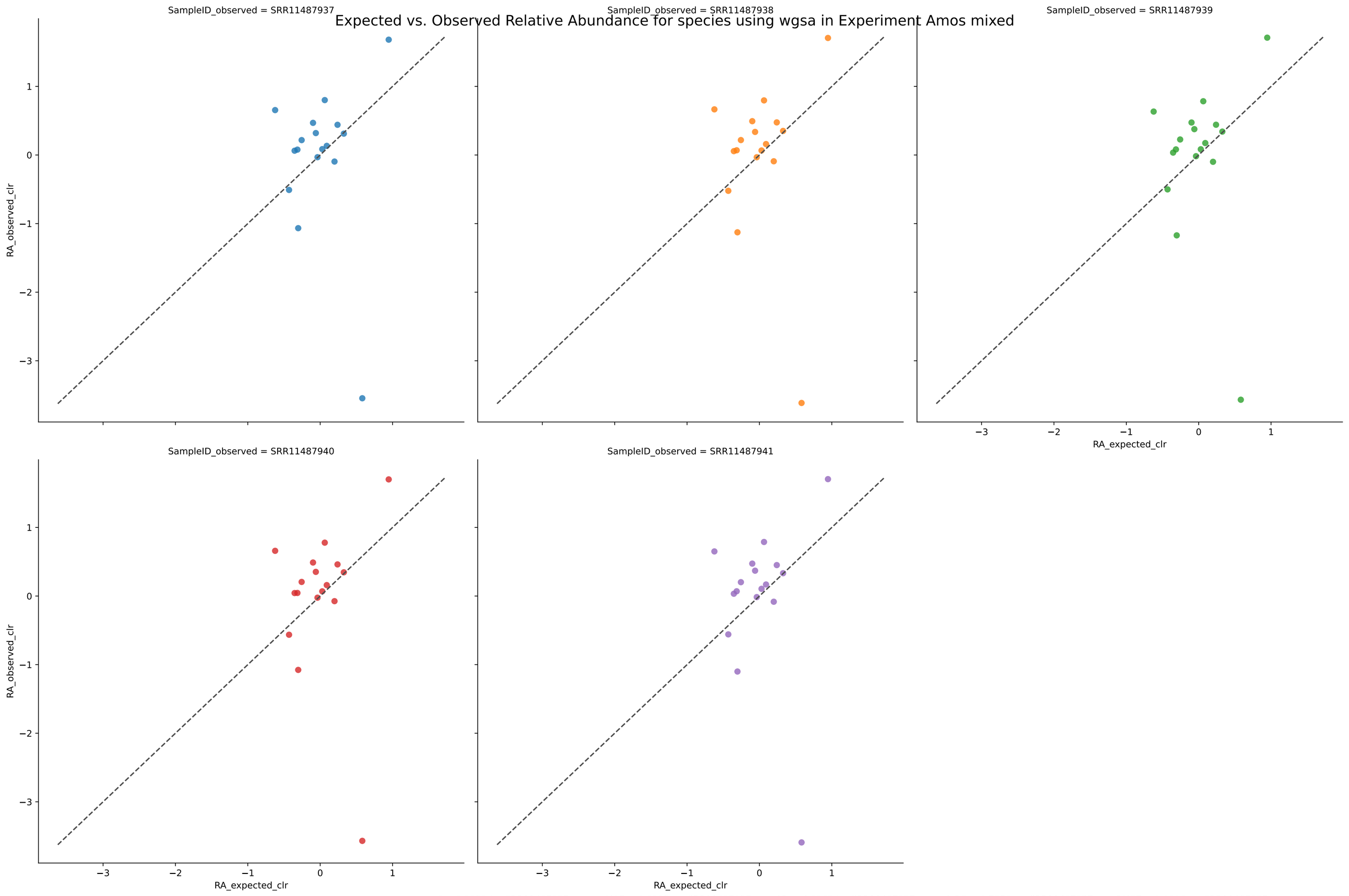
r² = 0.2996 for SRR11487937	MAE = 0.0223 for SRR11487937	AD = 5.1875 for SRR11487937	1-BC = 0.7909 for SRR11487937	RMSE = 0.0301 for SRR11487937
r² = 0.3547 for SRR11487938	MAE = 0.0218 for SRR11487938	AD = 4.7066 for SRR11487938	1-BC = 0.7964 for SRR11487938	RMSE = 0.0297 for SRR11487938
r² = 0.2928 for SRR11487939	MAE = 0.0219 for SRR11487939	AD = 5.9450 for SRR11487939	1-BC = 0.7946 for SRR11487939	RMSE = 0.0304 for SRR11487939
r² = 0.3277 for SRR11487940	MAE = 0.0211 for SRR11487940	AD = 5.0307 for SRR11487940	1-BC = 0.8025 for SRR11487940	RMSE = 0.0295 for SRR11487940
r² = 0.3332 for SRR11487941	MAE = 0.0217 for SRR11487941	AD = 5.8823 for SRR11487941	1-BC = 0.7966 for SRR11487941	RMSE = 0.0301 for SRR11487941

Expected vs. Observed Relative Abundance for species using jams in Experiment Amos mixed



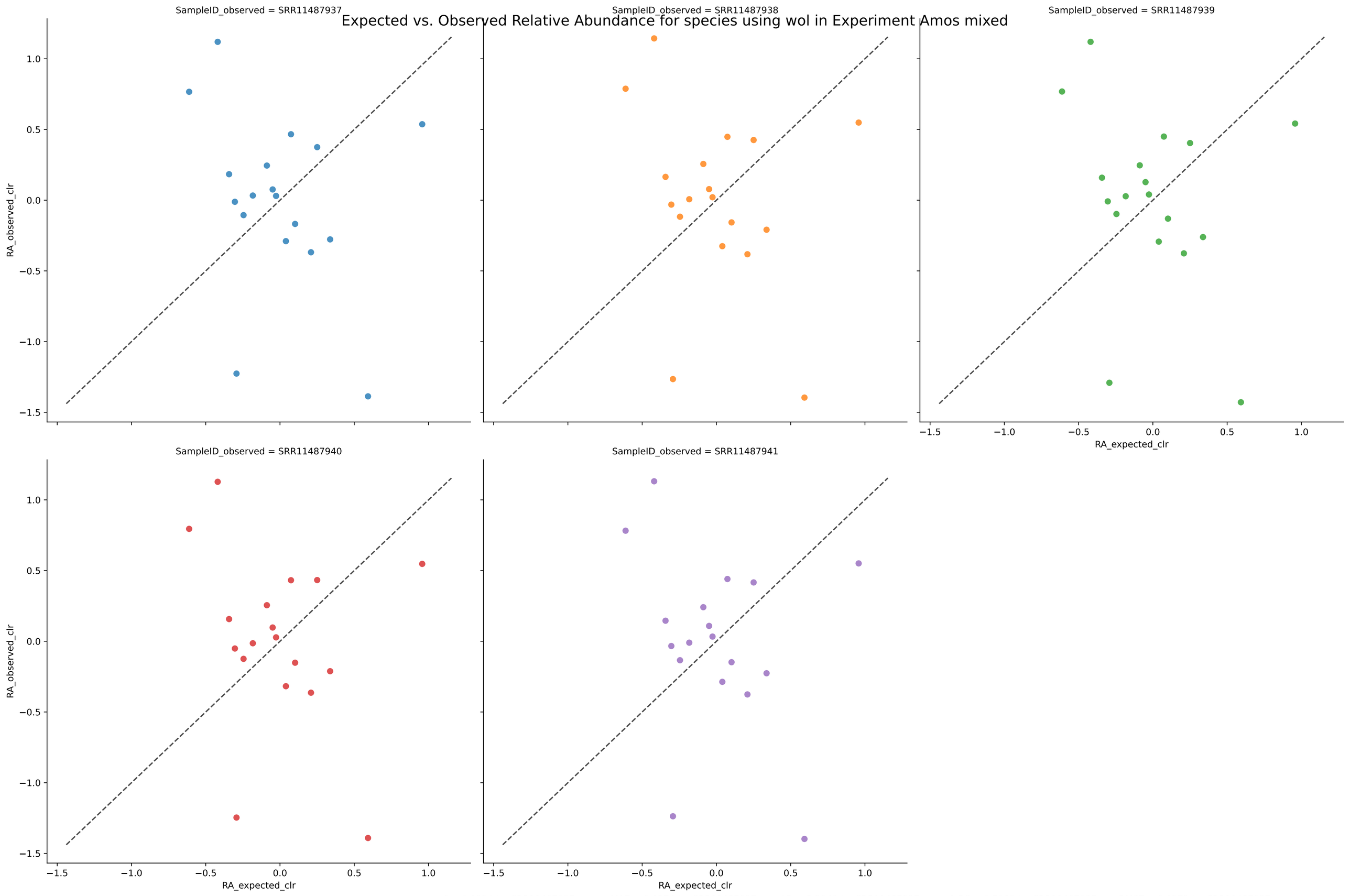
r² = 0.3708 for SRR11487937	MAE = 0.0199 for SRR11487937	AD = 3.6003 for SRR11487937	1-BC = 0.8015 for SRR11487937	RMSE = 0.0276 for SRR11487937
r² = 0.3682 for SRR11487938	MAE = 0.0200 for SRR11487938	AD = 3.6950 for SRR11487938	1-BC = 0.8008 for SRR11487938	RMSE = 0.0279 for SRR11487938
r² = 0.4162 for SRR11487939	MAE = 0.0191 for SRR11487939	AD = 3.9369 for SRR11487939	1-BC = 0.8061 for SRR11487939	RMSE = 0.0279 for SRR11487939
r² = 0.3834 for SRR11487940	MAE = 0.0197 for SRR11487940	AD = 3.4885 for SRR11487940	1-BC = 0.8044 for SRR11487940	RMSE = 0.0276 for SRR11487940
r² = 0.3887 for SRR11487941	MAE = 0.0196 for SRR11487941	AD = 3.6944 for SRR11487941	1-BC = 0.8037 for SRR11487941	RMSE = 0.0277 for SRR11487941

Expected vs. Observed Relative Abundance for species using wgsa in Experiment Amos mixed



r² = 0.3833 for SRR11487937	MAE = 0.0212 for SRR11487937	AD = 4.6362 for SRR11487937	1-BC = 0.7858 for SRR11487937	RMSE = 0.0296 for SRR11487937
r² = 0.3924 for SRR11487938	MAE = 0.0214 for SRR11487938	AD = 4.7186 for SRR11487938	1-BC = 0.7845 for SRR11487938	RMSE = 0.0298 for SRR11487938
r² = 0.3983 for SRR11487939	MAE = 0.0212 for SRR11487939	AD = 4.6751 for SRR11487939	1-BC = 0.7866 for SRR11487939	RMSE = 0.0298 for SRR11487939
r² = 0.3953 for SRR11487940	MAE = 0.0212 for SRR11487940	AD = 4.6599 for SRR11487940	1-BC = 0.7859 for SRR11487940	RMSE = 0.0297 for SRR11487940
r² = 0.3961 for SRR11487941	MAE = 0.0211 for SRR11487941	AD = 4.6848 for SRR11487941	1-BC = 0.7871 for SRR11487941	RMSE = 0.0297 for SRR11487941

Expected vs. Observed Relative Abundance for species using wol in Experiment Amos mixed



r² = 0.0234 for SRR11487937	MAE = 0.0274 for SRR11487937	AD = 3.2948 for SRR11487937	1-BC = 0.7069 for SRR11487937	RMSE = 0.0372 for SRR11487937
r² = 0.0204 for SRR11487938	MAE = 0.0276 for SRR11487938	AD = 3.3182 for SRR11487938	1-BC = 0.7037 for SRR11487938	RMSE = 0.0375 for SRR11487938
r² = 0.0221 for SRR11487939	MAE = 0.0271 for SRR11487939	AD = 3.3334 for SRR11487939	1-BC = 0.7102 for SRR11487939	RMSE = 0.0372 for SRR11487939
r² = 0.0196 for SRR11487940	MAE = 0.0275 for SRR11487940	AD = 3.2964 for SRR11487940	1-BC = 0.7046 for SRR11487940	RMSE = 0.0373 for SRR11487940
r² = 0.0193 for SRR11487941	MAE = 0.0274 for SRR11487941	AD = 3.2935 for SRR11487941	1-BC = 0.7059 for SRR11487941	RMSE = 0.0372 for SRR11487941