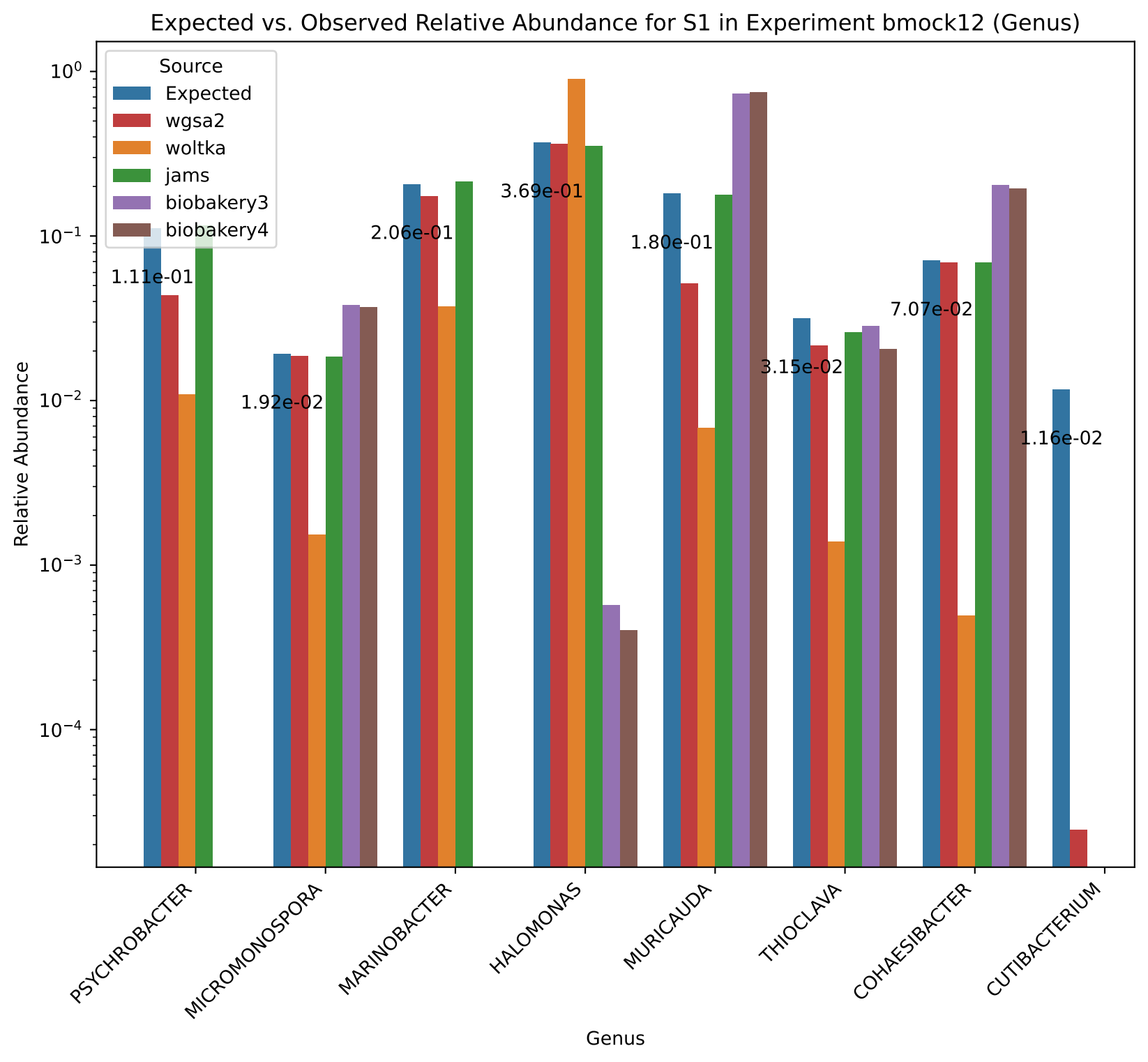
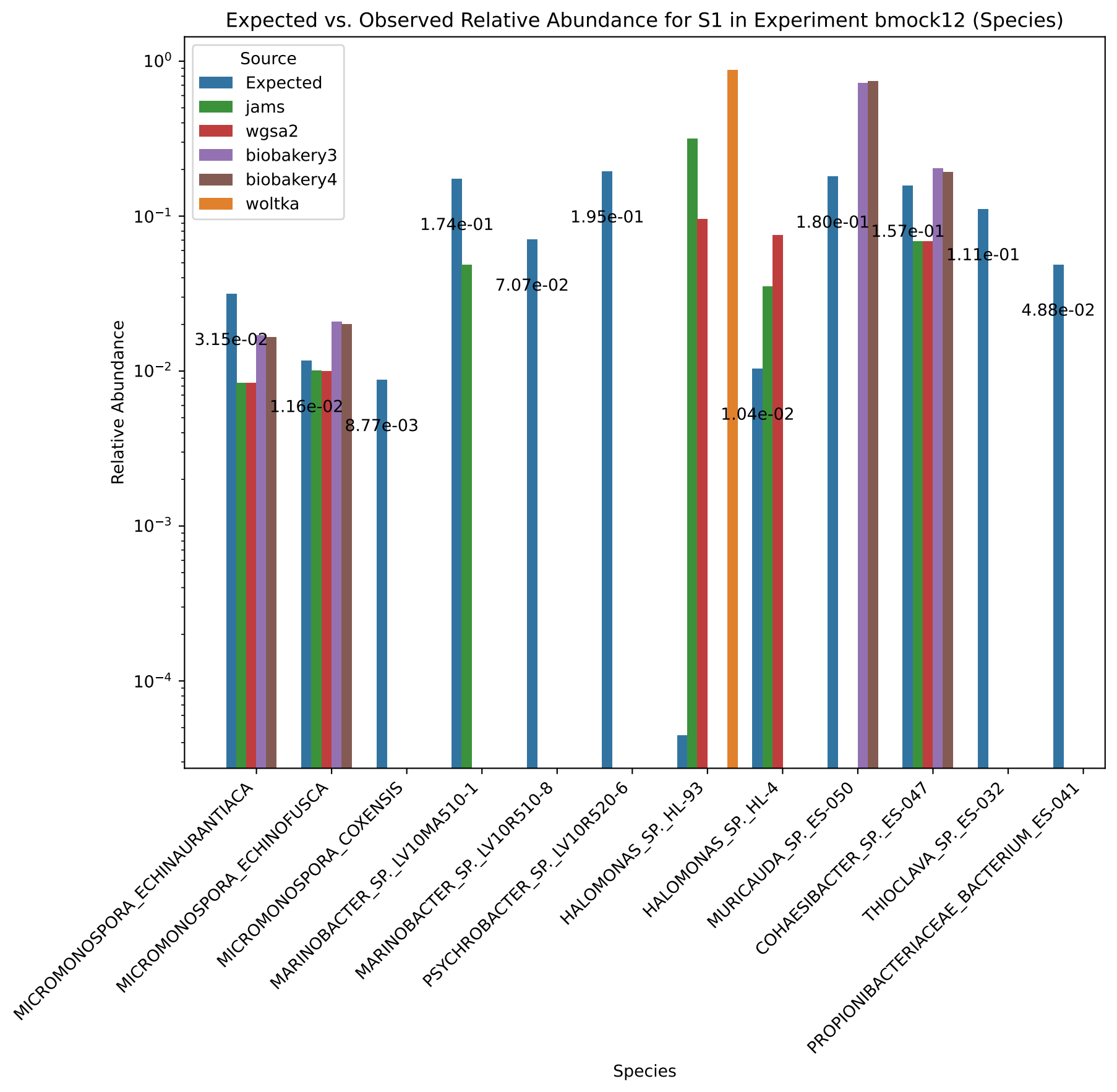
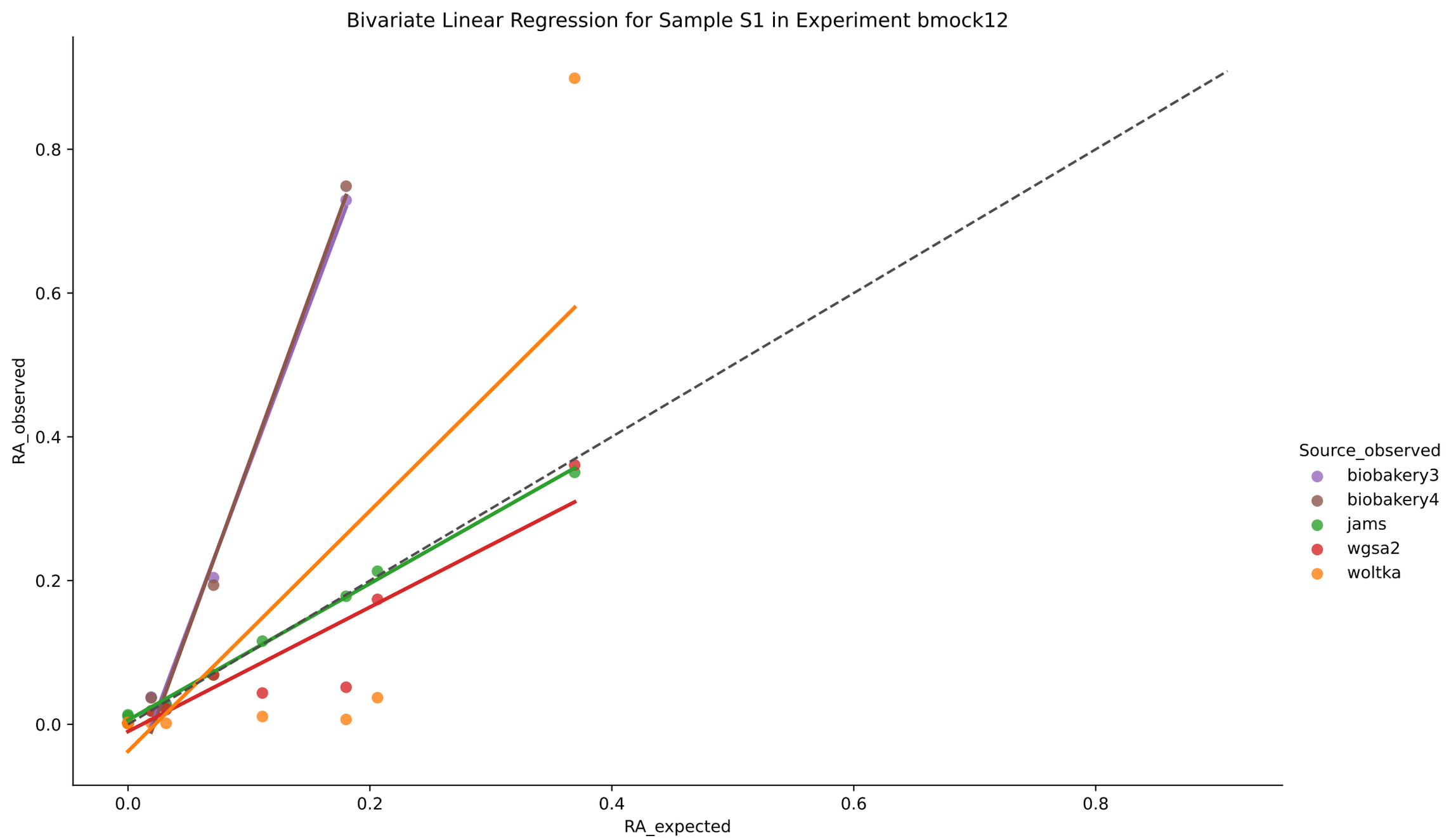
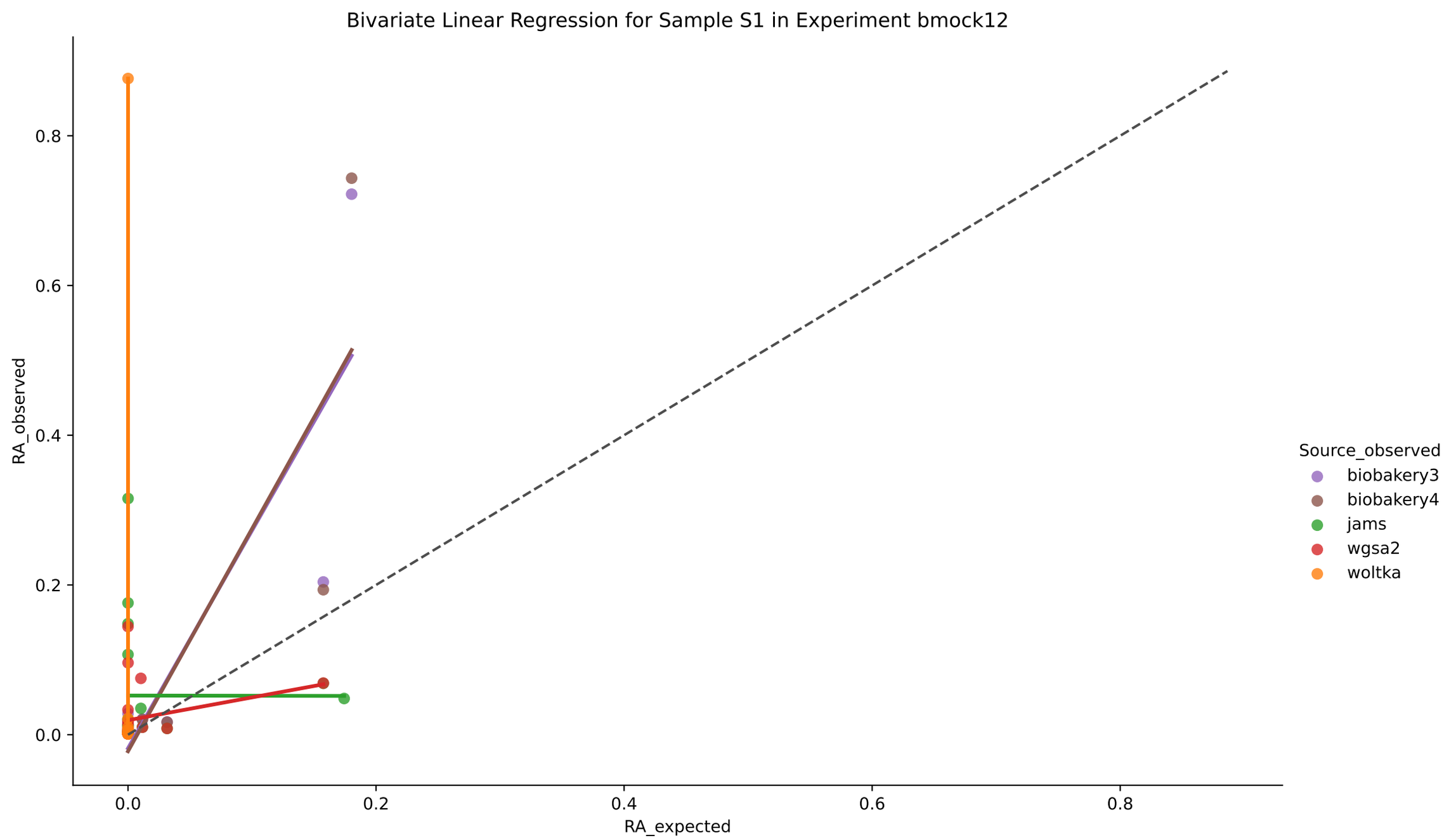

Expected vs. Observed Relative Abundance for S1 in Experiment bmock12 (Genus)
Source
Expected
wgsa2
woltka
jams
biobakery3
biobakery4
Relative Abundance
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
1.11e-01
1.92e-02
2.06e-01
3.69e-01
1.80e-01
3.15e-02
7.07e-02
1.16e-02
PSYCHROBACTER
MICROMONOSPORA
MARINOBACTER
HALOMONAS
MURICAUDA
THIOCLAVA
COHAESIBACTER
CUTIBACTERIUM
Genus

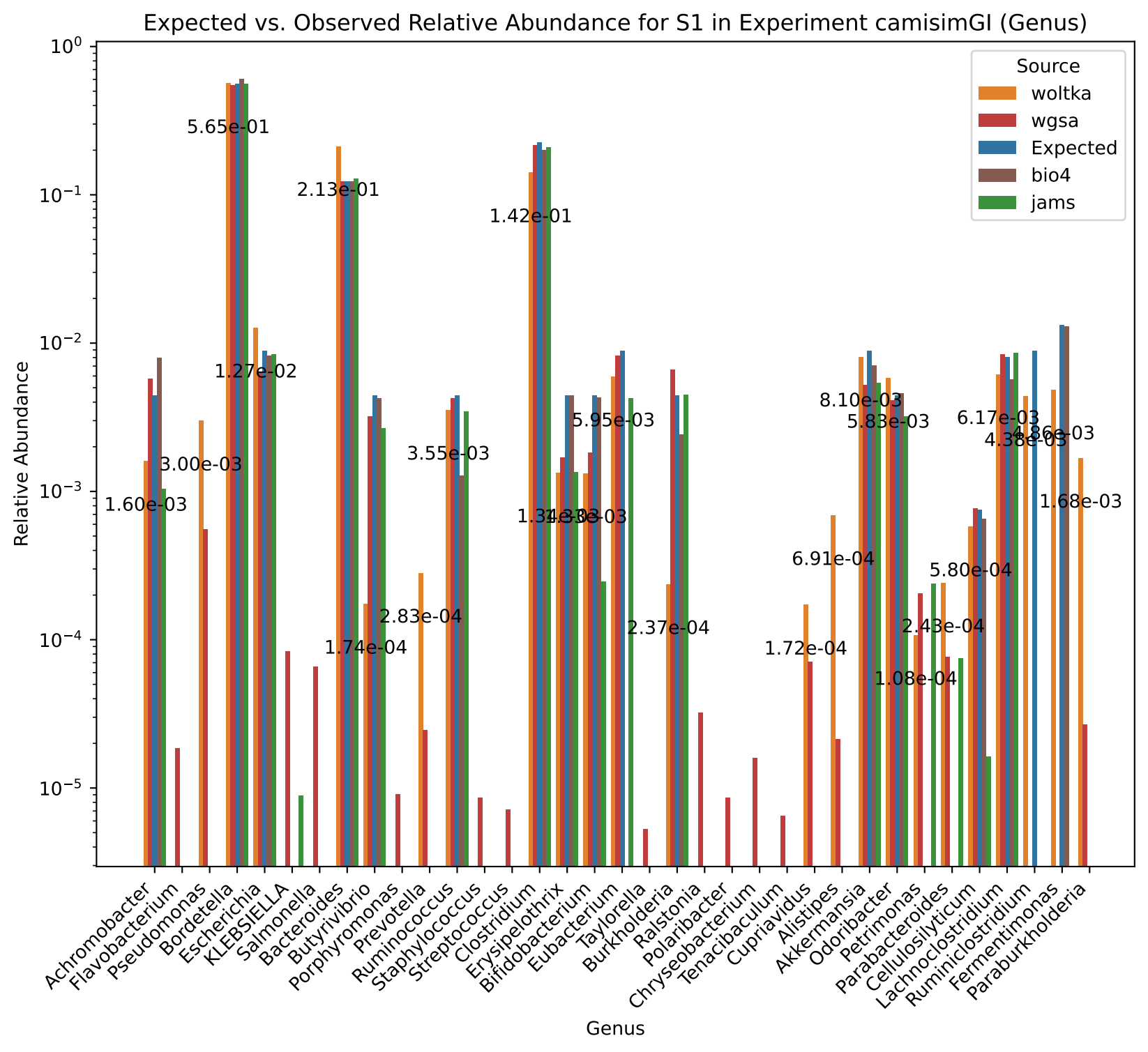

Expected vs. Observed Relative Abundance for S1 in Experiment bmock12 (Species)
Source
Expected
jams
wgsa2
biobakery3
biobakery4
woltka
Relative Abundance
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
3.15e-02
1.16e-02
8.77e-03
1.74e-01
7.07e-02
1.95e-01
1.04e-02
1.80e-01
1.57e-01
1.11e-01
4.88e-02
MICROMONOSPORA_ECHINAURANTIACA
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

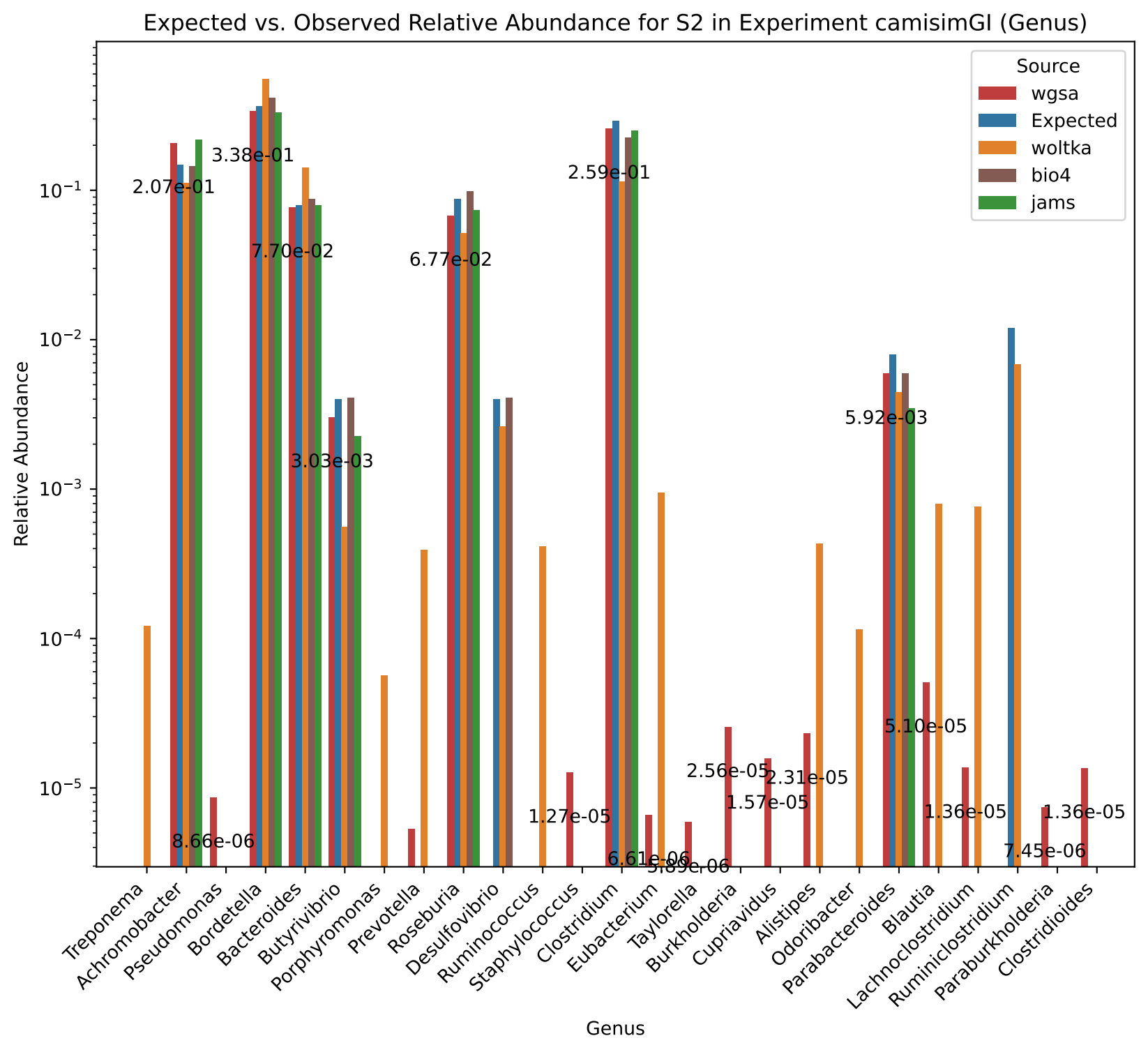


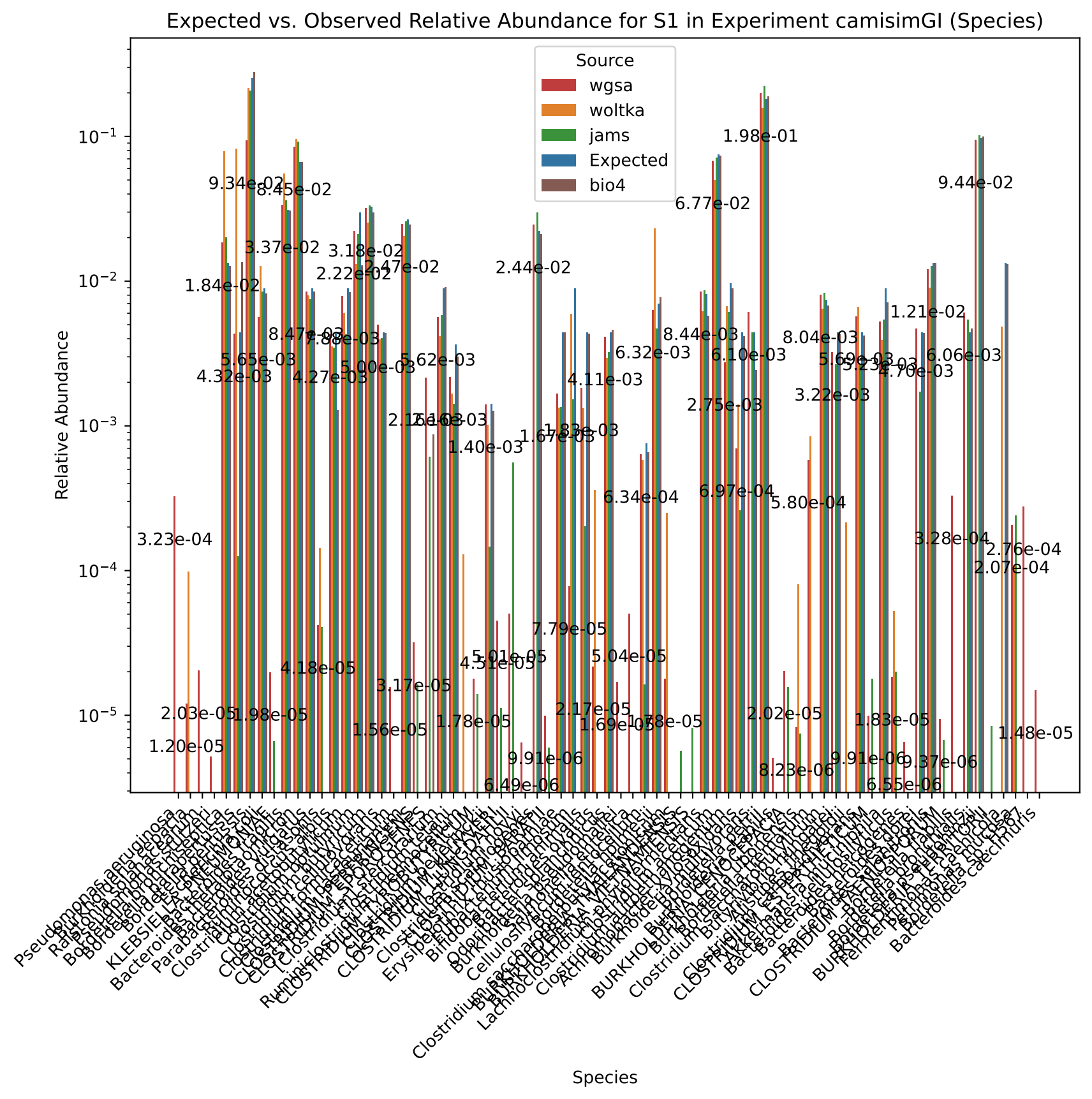
r^2 = 0.9911 for biobakery3	MAE = 0.1761 for biobakery3	Aitchison = 1.1219 for biobakery3
r^2 = 0.9878 for biobakery4	MAE = 0.1800 for biobakery4	Aitchison = 1.3740 for biobakery4
r^2 = 0.9964 for jams	MAE = 0.0067 for jams	Aitchison = 1.5335 for jams
r^2 = 0.8800 for wgsa2	MAE = 0.0233 for wgsa2	Aitchison = 2.4081 for wgsa2
r^2 = 0.6330 for woltka	MAE = 0.0691 for woltka	Aitchison = 4.0750 for woltka

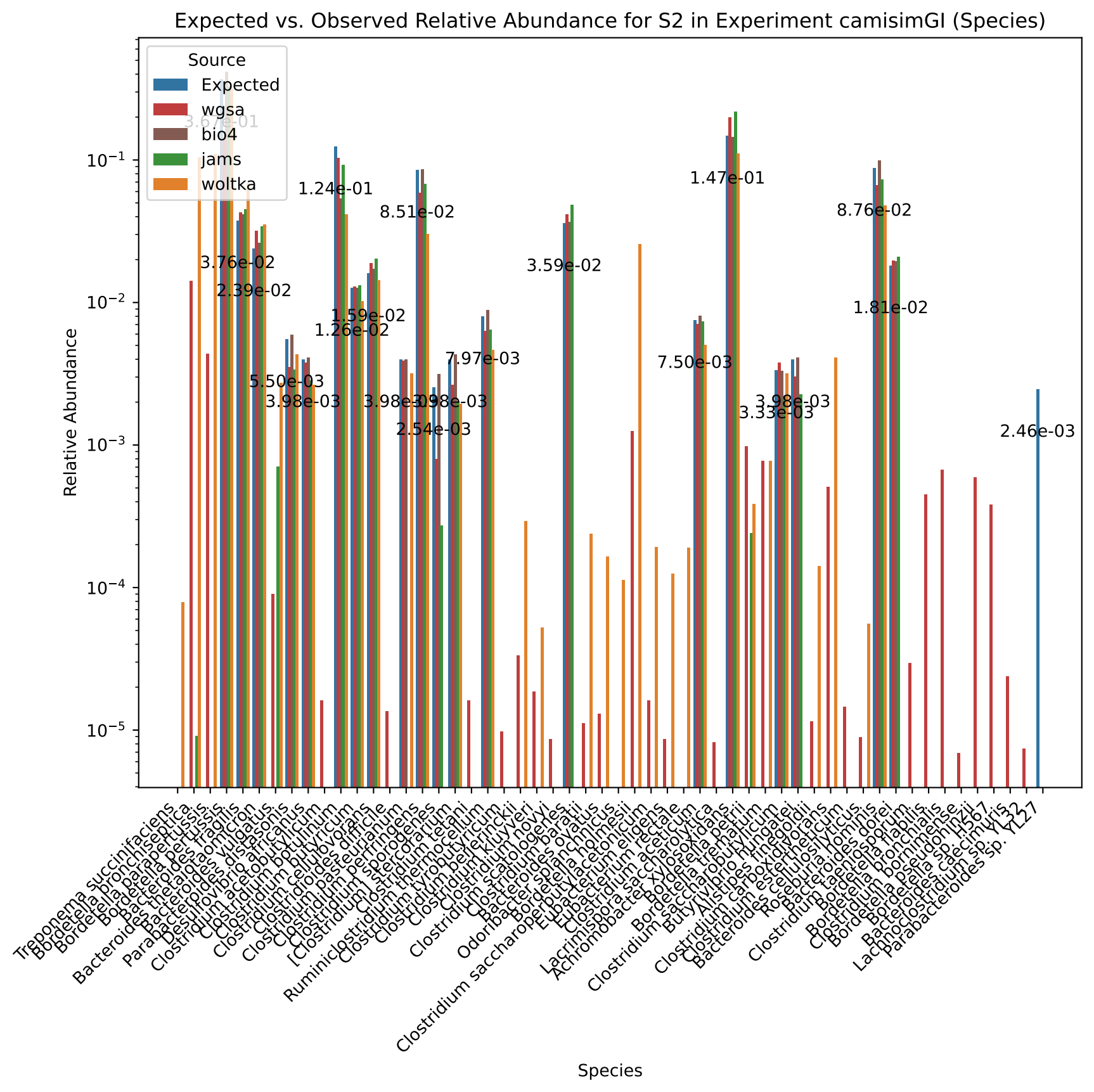


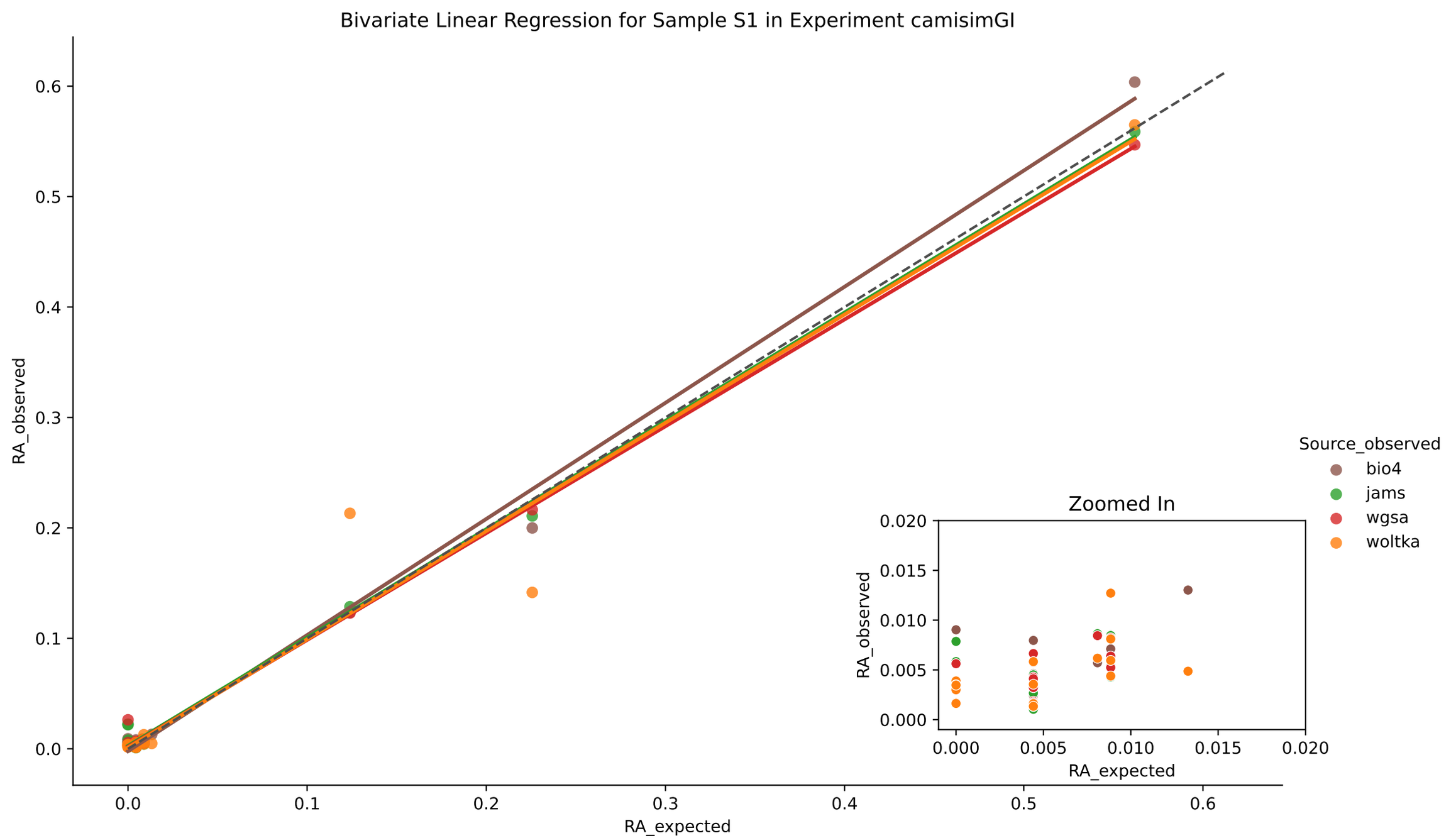
r^2 = 0.7281 for biobakery3	MAE = 0.1079 for biobakery3	Aitchison = 1.7408 for biobakery3
r^2 = 0.7127 for biobakery4	MAE = 0.1081 for biobakery4	Aitchison = 1.8297 for biobakery4
r^2 = 0.0000 for jams	MAE = 0.0572 for jams	Aitchison = 10.6904 for jams
r^2 = 0.0722 for wgsa2	MAE = 0.0227 for wgsa2	Aitchison = 9.5521 for wgsa2
r^2 = 0.9995 for woltka	MAE = 0.0591 for woltka	Aitchison = 3.1997 for woltka


Expected vs. Observed Relative Abundance for S1 in Experiment camisimGI (Genus)
Relative Abundance
Genus
Source
woltka
wgsa
Expected
bio4
jams
1.60e-03
3.00e-03
5.65e-01
1.27e-02
2.13e-01
1.74e-04
2.83e-04
3.55e-03
1.42e-01
5.95e-03
6.91e-04
1.72e-04
8.10e-03
5.83e-03
2.37e-04
5.80e-04
2.43e-04
1.08e-04
6.17e-03
4.38e-03
1.68e-03
Achromobacter
Flavobacterium
Pseudomonas
Bordetella
Escherichia
KLEBSIELLA
Salmonella
Bacteroides
Butyrivibrio
Porphyromonas
Prevotella
Ruminococcus
Staphylococcus
Streptococcus
Clostridium
Erysipelothrix
Bifidobacterium
Eubacterium
Taylorella
Burkholderia
Ralstonia
Polaribacter
Chryseobacterium
Tenacibaculum
Cupriavidus
Alistipes
Akkermansia
Odoribacter
Petrimonas
Parabacteroides
Cellulosilyticum
Lachnoclostridium
Ruminiclostridium
Fermentimonas
Paraburkholderia

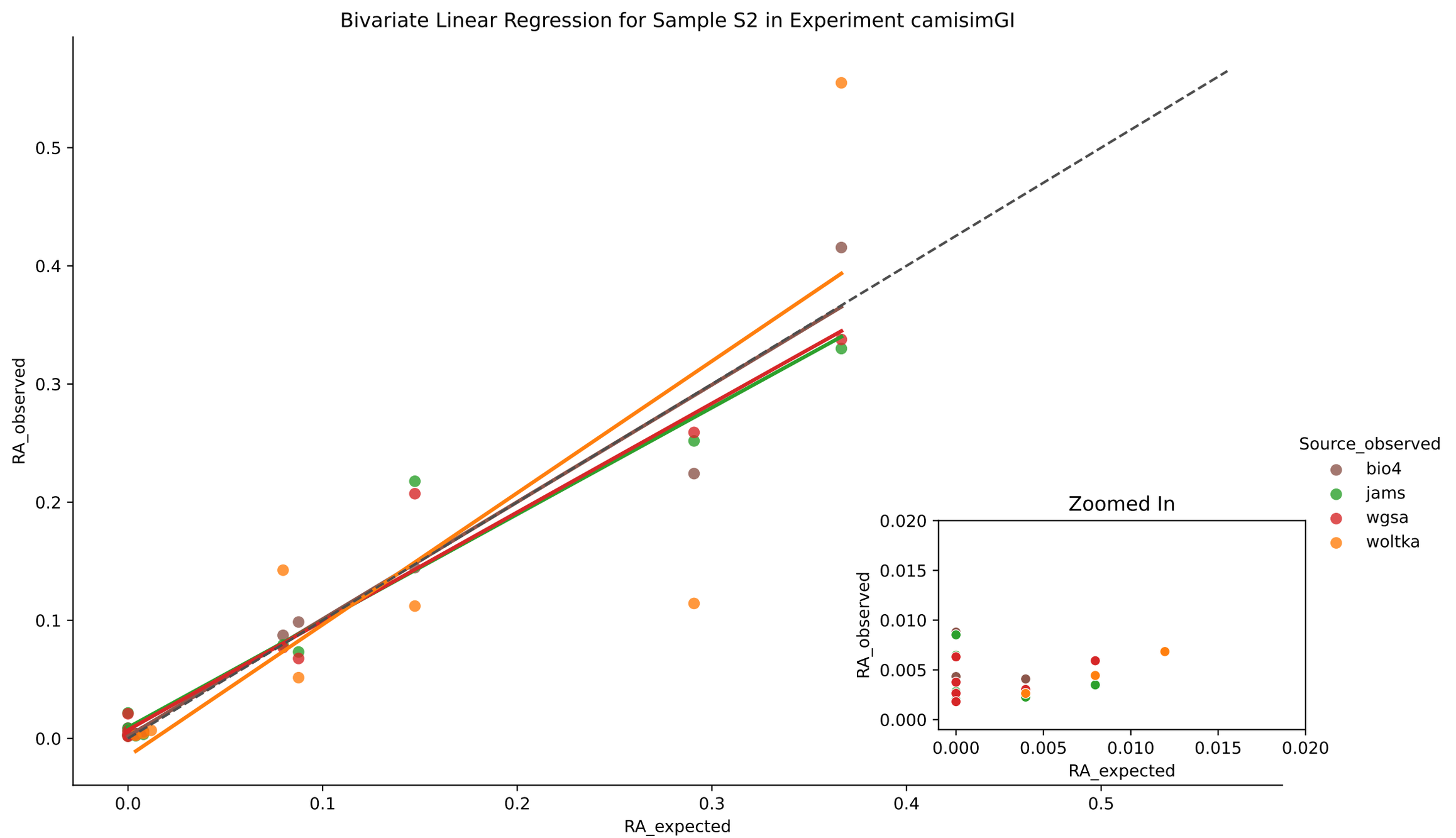

Expected vs. Observed Relative Abundance for S2 in Experiment camisimGI (Genus)
Source
wgsa
Expected
woltka
bio4
jams
Relative Abundance
Genus
2.07e-01
3.38e-01
7.70e-02
6.77e-02
2.59e-01
3.03e-03
5.92e-03
5.10e-05
2.56e-05
2.31e-05
1.57e-05
1.27e-05
1.36e-05
1.36e-05
8.66e-06
6.61e-06
5.89e-06
7.45e-06
Treponema
Achromobacter
Pseudomonas
Bordetella
Bacteroides
Butyrivibrio
Porphyromonas
Prevotella
Roseburia
Desulfovibrio
Ruminococcus
Staphylococcus
Clostridium
Eubacterium
Taylorella
Burkholderia
Cupriavidus
Alistipes
Odoribacter
Parabacteroides
Blautia
Lachnoclostridium
Ruminiclostridium
Paraburkholderia
Clostridioides


Expected vs. Observed Relative Abundance for S1 in Experiment camisimGI (Species)
Source
wgsa
woltka
jams
Expected
bio4
Relative Abundance
Species

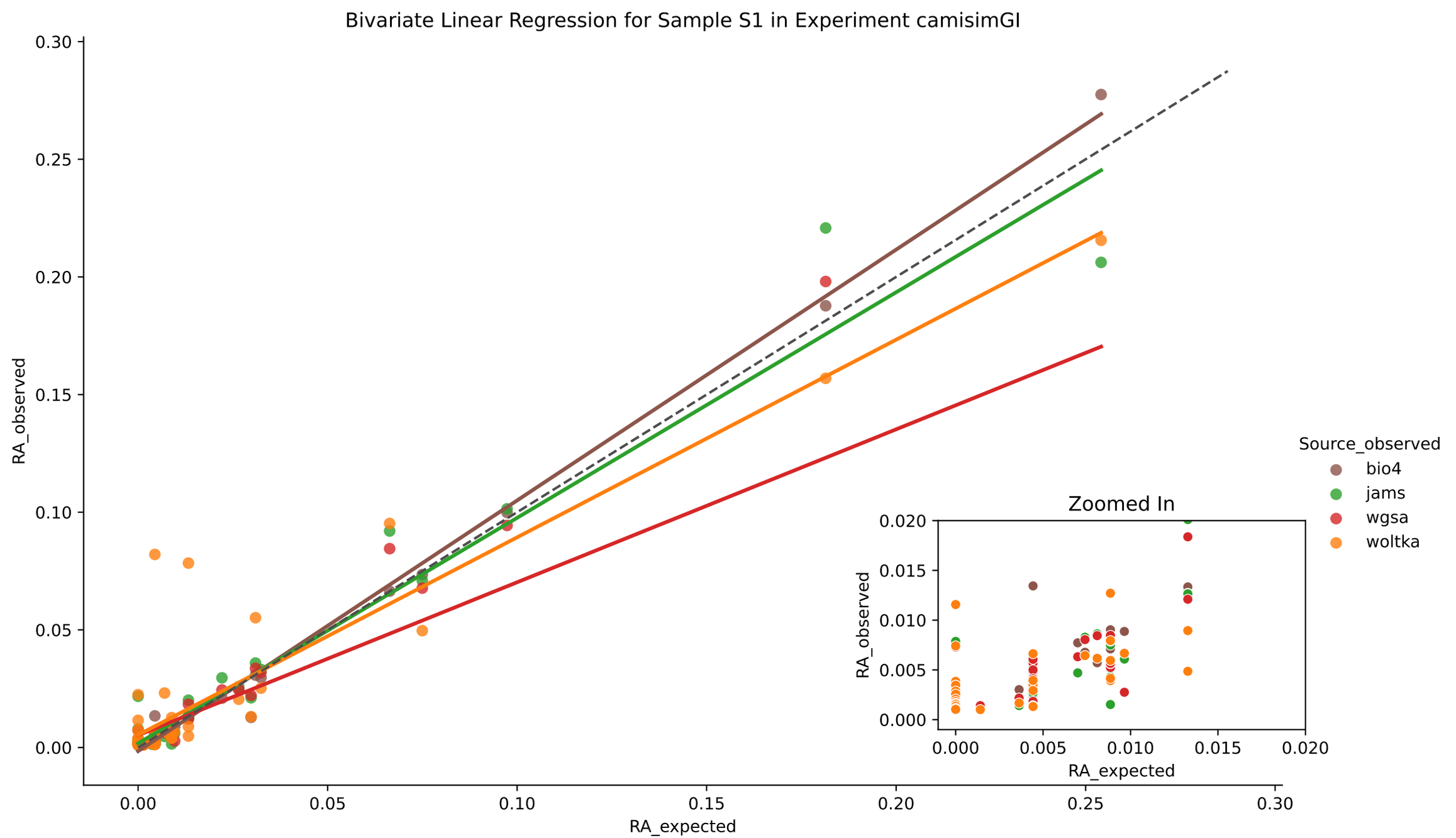

Expected vs. Observed Relative Abundance for S2 in Experiment camisimGI (Species)
Source
Expected
wgsa
bio4
jams
woltka
Relative Abundance
Species
3.67e-01
1.24e-01
8.51e-02
3.76e-02
2.39e-02
1.59e-02
1.26e-02
5.50e-03
3.98e-03
3.98e-03
3.98e-03
2.54e-03
7.97e-03
3.59e-02
1.47e-01
7.50e-03
3.98e-03
3.33e-03
8.76e-02
1.81e-02
2.46e-03
Treponema succinifaciens
Bordetella pronchiseptica
Bordetella parapertussis
Bordetella pertussis
Bacteroides thetaiotaomicron
Parabacteroides merdae
Bacteroides fragilis
Desulfovibrio vulgaris
Clostridium acetobutylicum
Clostridium botulinum
Clostridium cellulovorans
Clostridium butyricum
Clostridioides difficile
Clostridium pasteurianum
Clostridium perfringens
[Clostridium] sporogenes
RuminiClostridium thermocellum
Clostridium stercorarium
Clostridium tetani
Clostridium tyrobutyricum
Clostridium beijerinckii
Clostridium kluyveri
Clostridium novyi
Clostridium scatologenes
Bacteroides barnesiae
Bordetella bronchialis
Odoribacter splanchnicus
Clostridium saccharoperbutylacetonicum
Eubacterium limosum
Eubacterium eligens
Clostridium ragsdalei
Lacrimispora saccharolytica
Achromobacter xylosoxidans
Bordetella trematum
Clostridium saccharobutylicum
Butyrivibrio hungatei
Alistipes finegoldii
Clostridium carboxidivorans
Bacteroides cellulosilyticus
Roseburia hominis
Clostridium thermosuccinogenes
Bacteroides dorei
Clostridium taeniosporum
Bordetella flabilis
Bordetella bronchialis
Bordetella bornimensis
Bordetella pseudohinzii
Lachnoclostridium sp. H567
Bacteroides caecimuris
Parabacteroides sp. YL32
Parabacteroides sp. YL27



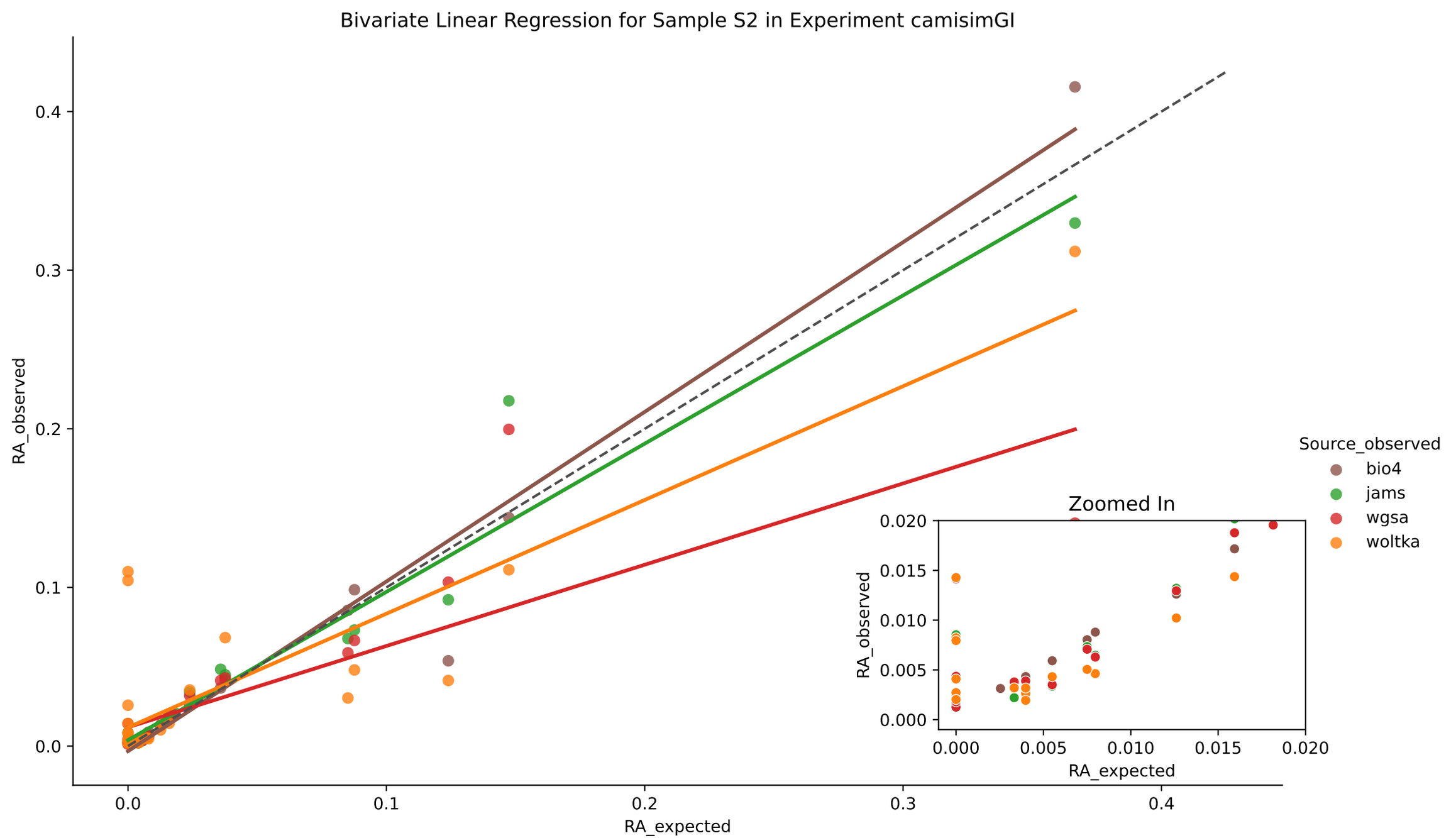
r^2 = 0.9953 for bio4	MAE = 0.0061 for bio4	Aitchison = 1.6882 for bio4
r^2 = 0.9961 for jams	MAE = 0.0059 for jams	Aitchison = 3.5547 for jams
r^2 = 0.9976 for wgsa	MAE = 0.0047 for wgsa	Aitchison = 2.4979 for wgsa
r^2 = 0.9549 for woltka	MAE = 0.0114 for woltka	Aitchison = 2.4437 for woltka



r^2 = 0.9583 for bio4	MAE = 0.0141 for bio4	Aitchison = 1.2609 for bio4
r^2 = 0.9533 for jams	MAE = 0.0174 for jams	Aitchison = 2.1084 for jams
r^2 = 0.9658 for wgsa	MAE = 0.0151 for wgsa	Aitchison = 2.0405 for wgsa
r^2 = 0.6950 for woltka	MAE = 0.0637 for woltka	Aitchison = 1.3798 for woltka



r^2 = 0.9945 for bio4	MAE = 0.0023 for bio4	Aitchison = 2.6124 for bio4
r^2 = 0.9435 for jams	MAE = 0.0064 for jams	Aitchison = 5.1227 for jams
r^2 = 0.7404 for wgsa	MAE = 0.0074 for wgsa	Aitchison = 3.6742 for wgsa
r^2 = 0.8386 for woltka	MAE = 0.0093 for woltka	Aitchison = 9.2306 for woltka



r^2 = 0.9601 for bio4	MAE = 0.0071 for bio4	Aitchison = 0.9189 for bio4
r^2 = 0.9408 for jams	MAE = 0.0119 for jams	Aitchison = 1.8068 for jams
r^2 = 0.6790 for wgsa	MAE = 0.0167 for wgsa	Aitchison = 2.7132 for wgsa
r^2 = 0.7379 for woltka	MAE = 0.0233 for woltka	Aitchison = 7.4507 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

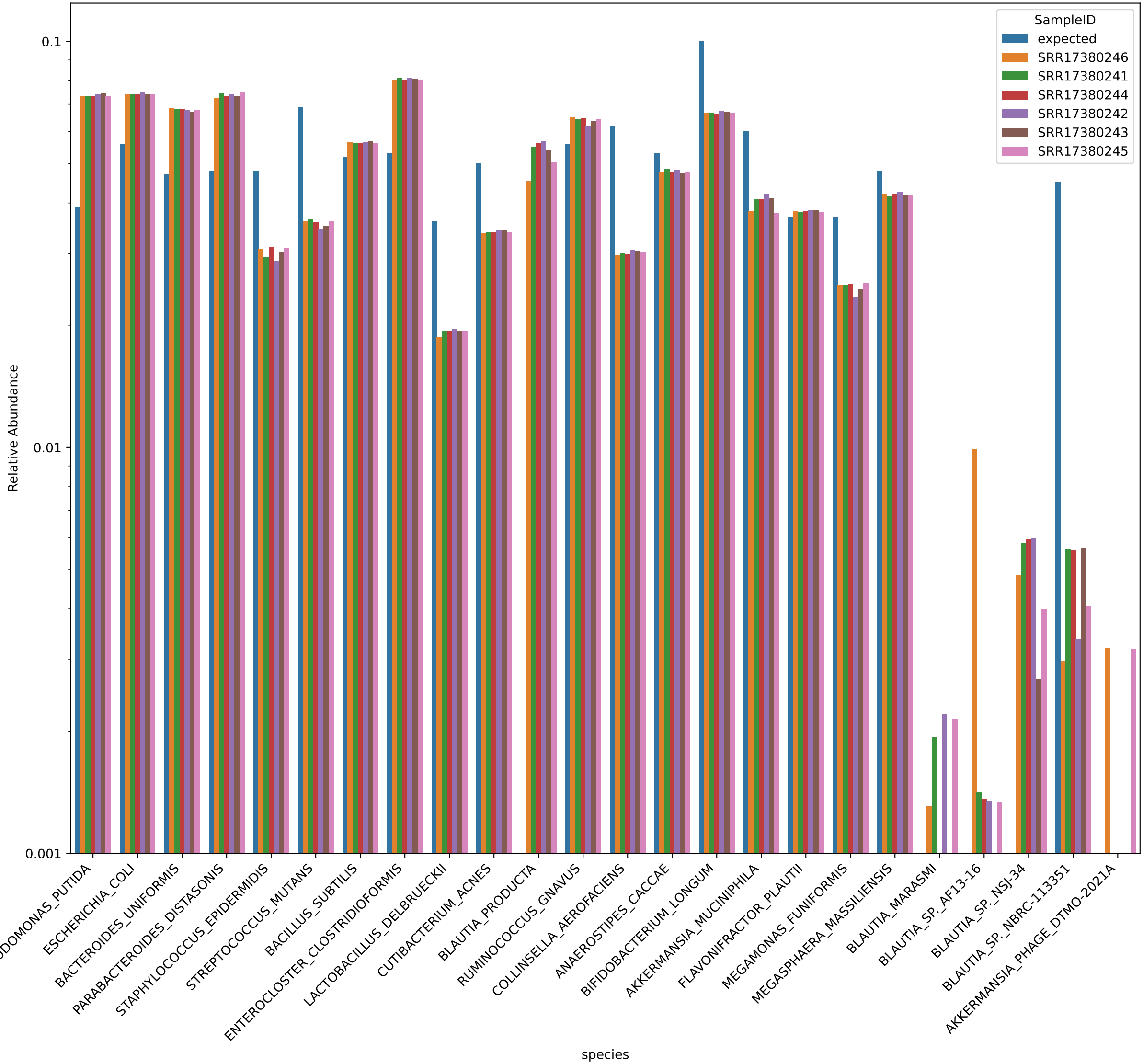
Relative Abundance

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

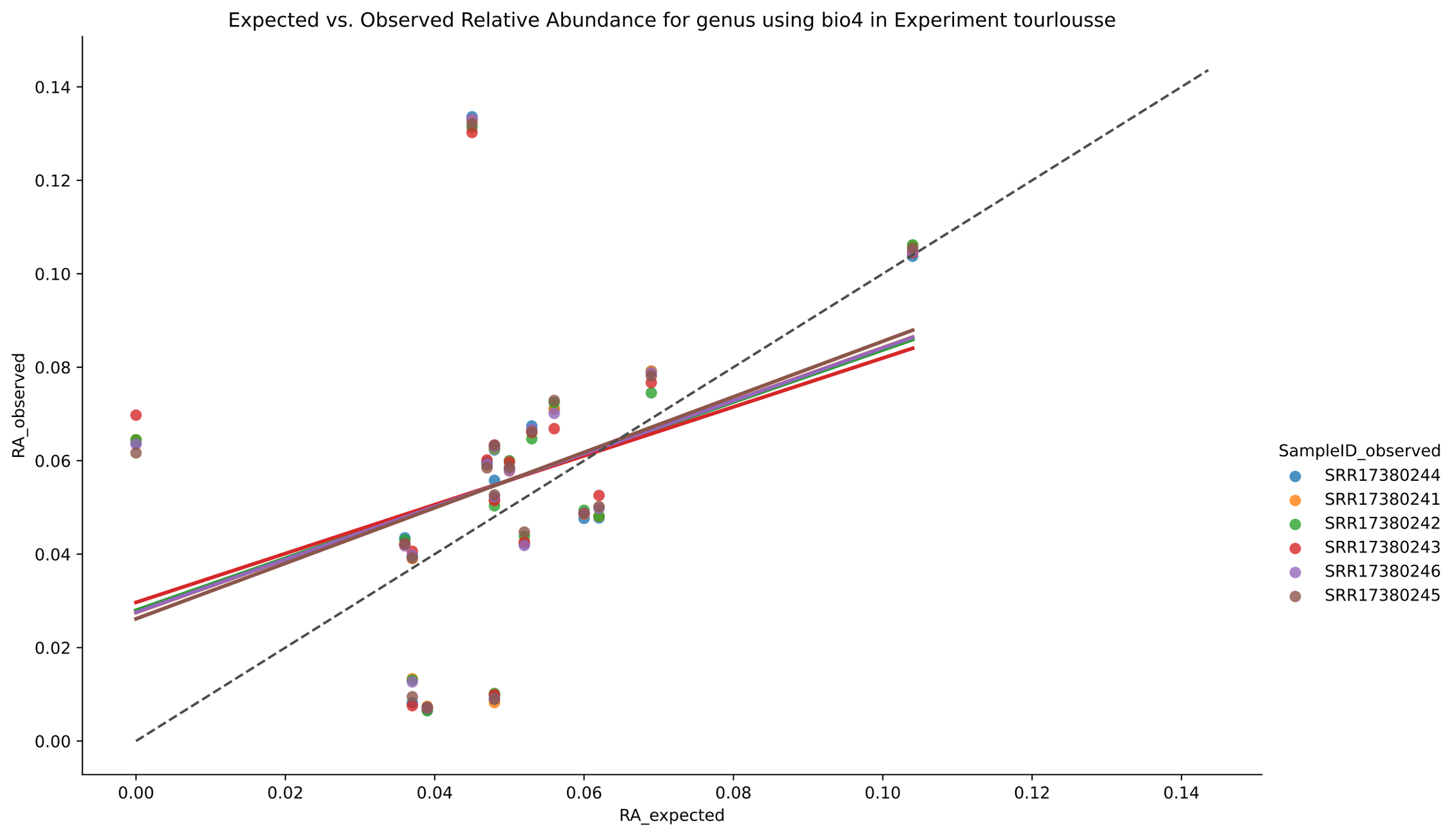
SampleID
expected
SRR17380246
SRR17380241
SRR17380244
SRR17380242
SRR17380243
SRR17380245

Relative Abundance

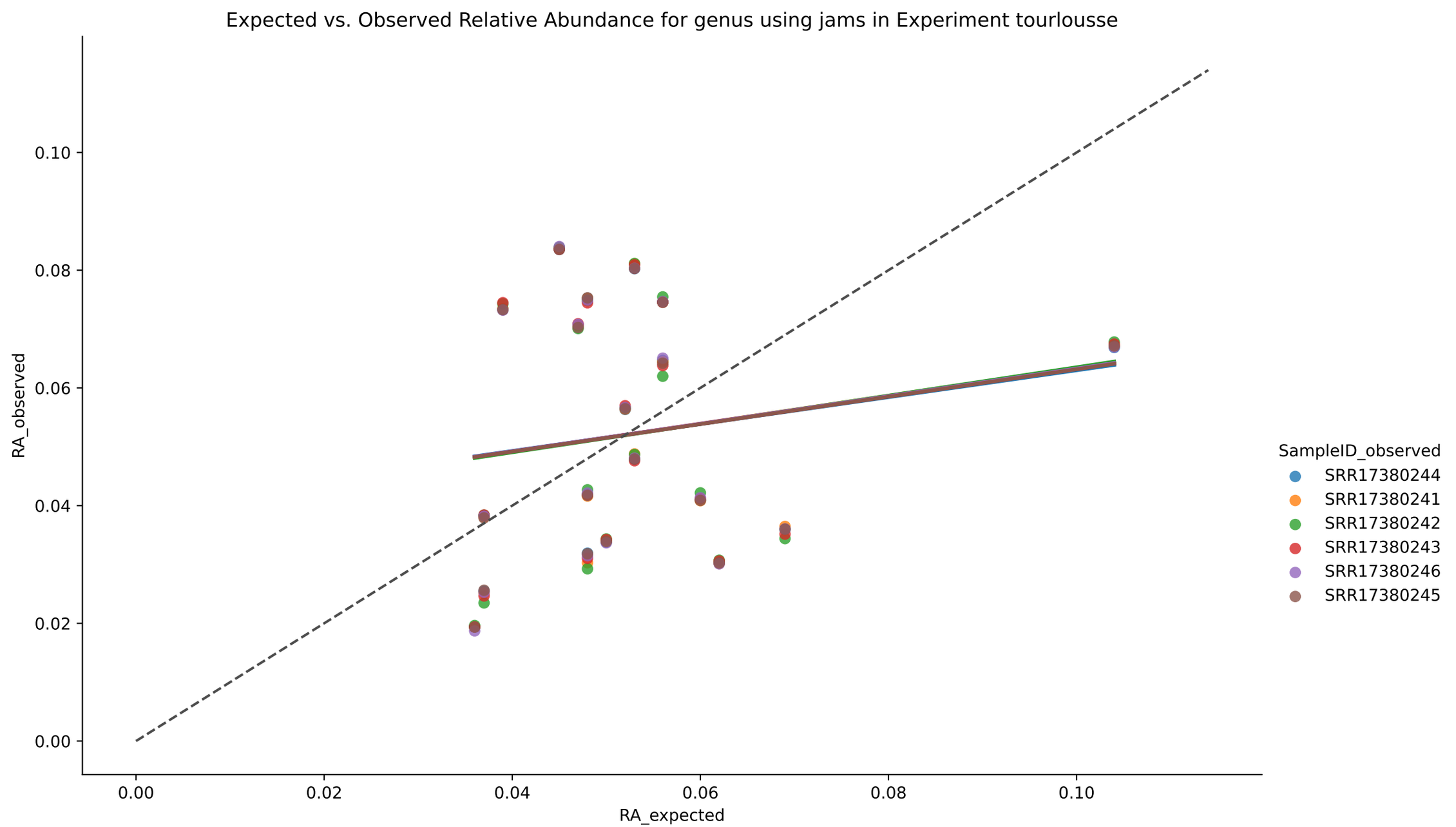
0.1
0.01
0.001

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

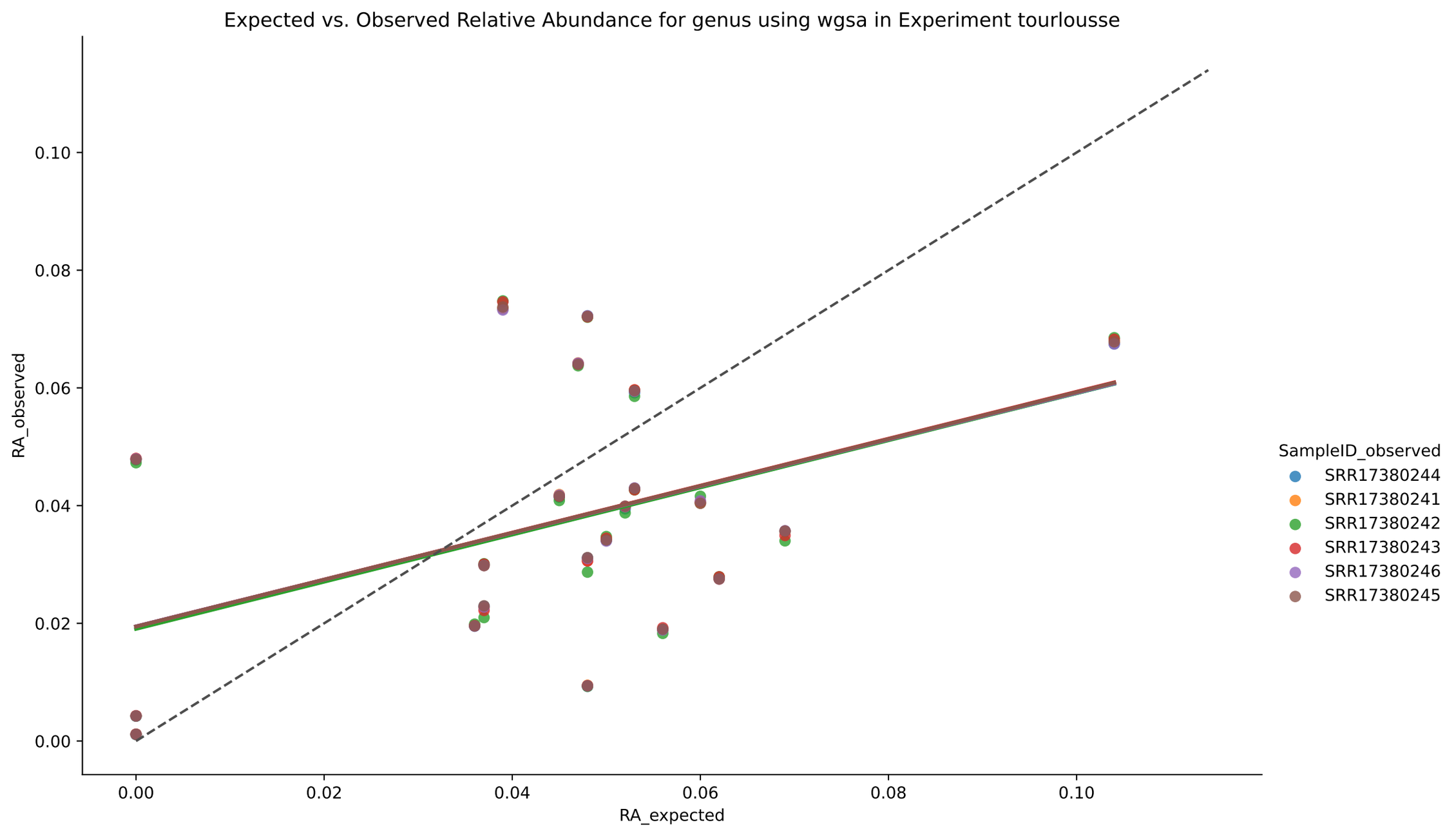
species



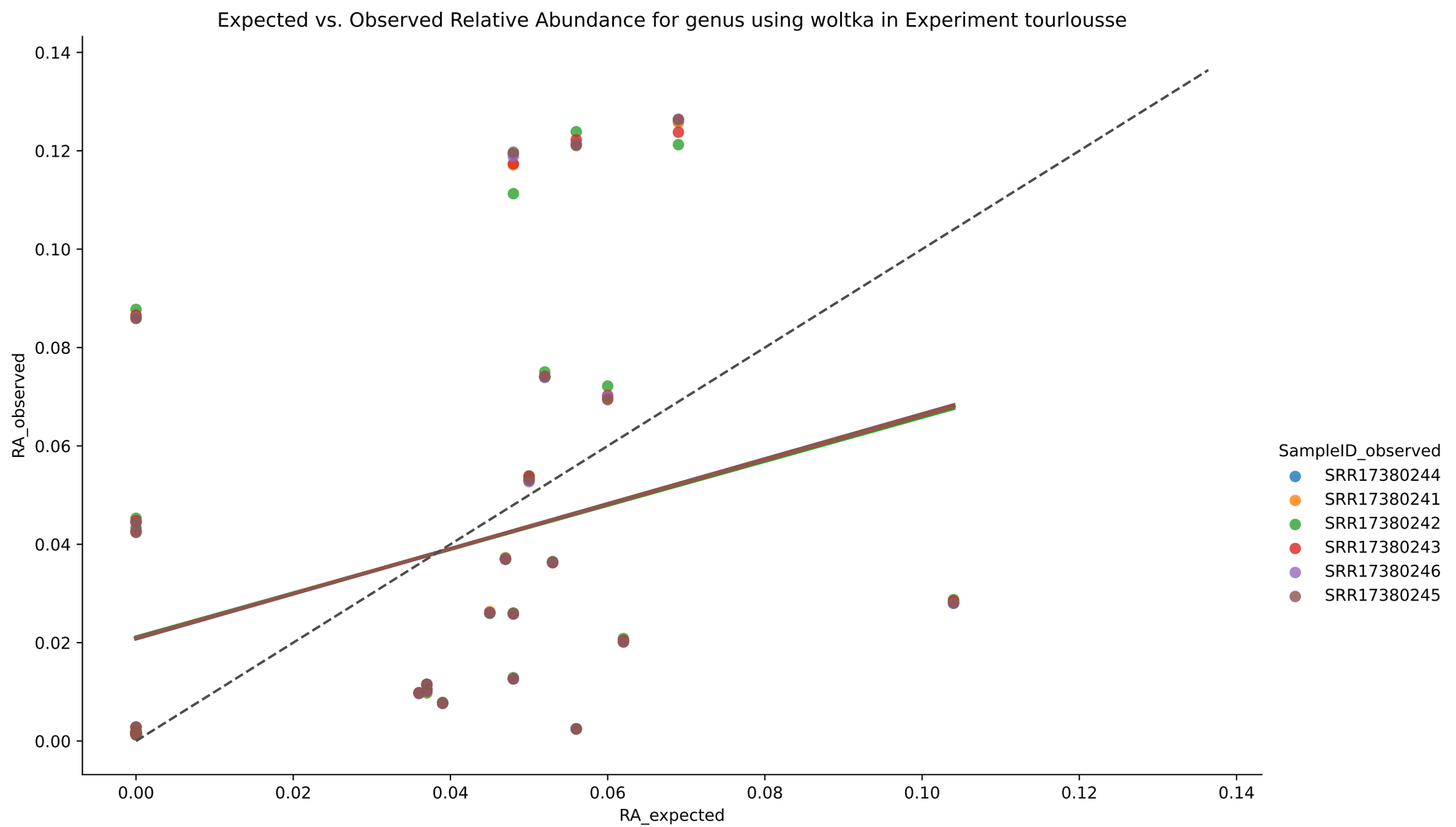
r² = 0.1306 for SRR17380241	MAE = 0.0205 for SRR17380241	Aitchison = 4.2938 for SRR17380241
r² = 0.1303 for SRR17380242	MAE = 0.0202 for SRR17380242	Aitchison = 4.2657 for SRR17380242
r² = 0.1133 for SRR17380243	MAE = 0.0204 for SRR17380243	Aitchison = 4.4591 for SRR17380243
r² = 0.1242 for SRR17380244	MAE = 0.0212 for SRR17380244	Aitchison = 4.4172 for SRR17380244
r² = 0.1432 for SRR17380245	MAE = 0.0204 for SRR17380245	Aitchison = 4.3296 for SRR17380245
r² = 0.1313 for SRR17380246	MAE = 0.0204 for SRR17380246	Aitchison = 4.2718 for SRR17380246



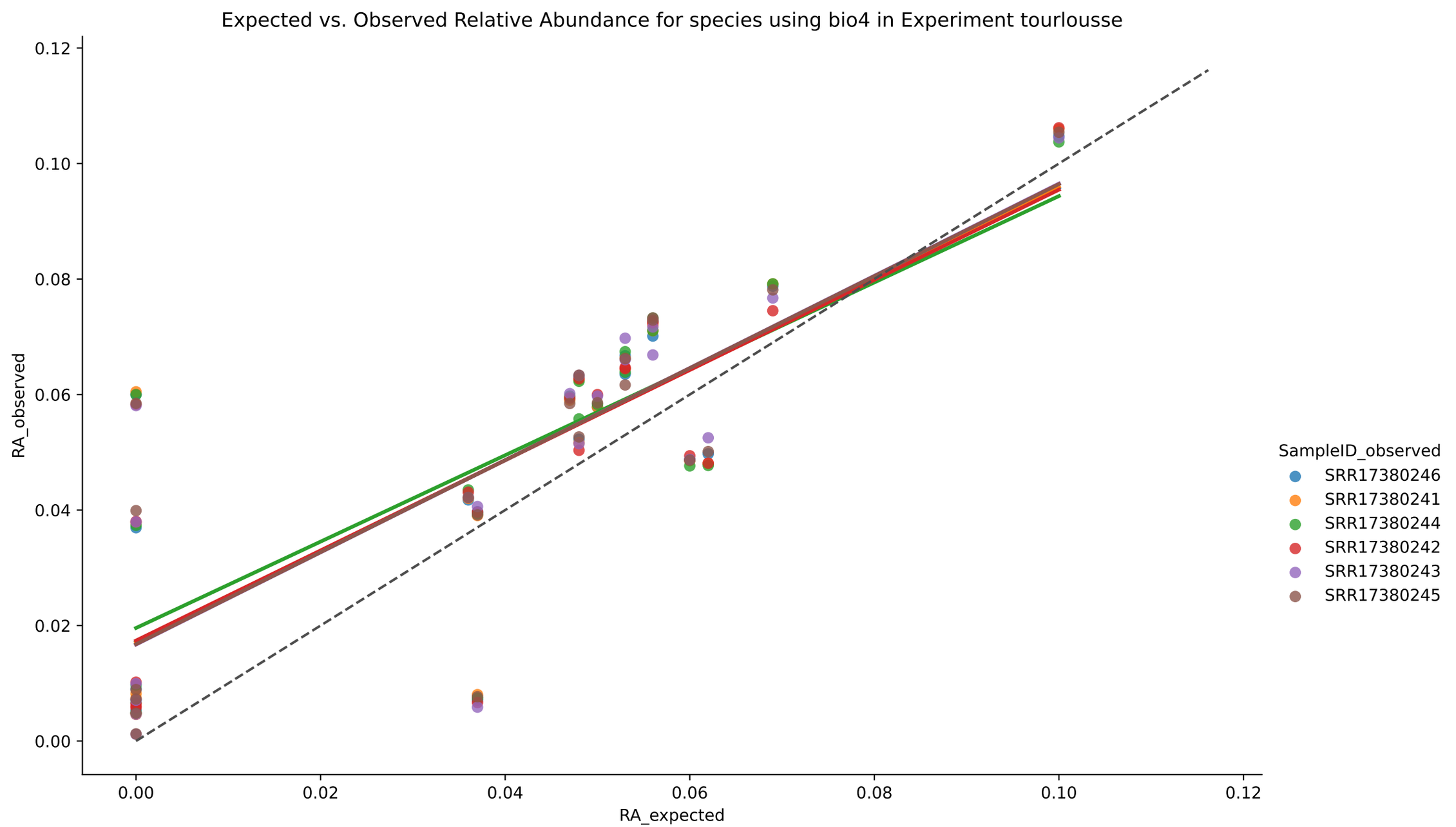
r² = 0.0300 for SRR17380241	MAE = 0.0199 for SRR17380241	Aitchison = 1.8858 for SRR17380241
r² = 0.0305 for SRR17380242	MAE = 0.0199 for SRR17380242	Aitchison = 1.9062 for SRR17380242
r² = 0.0290 for SRR17380243	MAE = 0.0199 for SRR17380243	Aitchison = 1.8896 for SRR17380243
r² = 0.0283 for SRR17380244	MAE = 0.0198 for SRR17380244	Aitchison = 1.8749 for SRR17380244
r² = 0.0295 for SRR17380245	MAE = 0.0197 for SRR17380245	Aitchison = 1.8705 for SRR17380245
r² = 0.0294 for SRR17380246	MAE = 0.0199 for SRR17380246	Aitchison = 1.8908 for SRR17380246



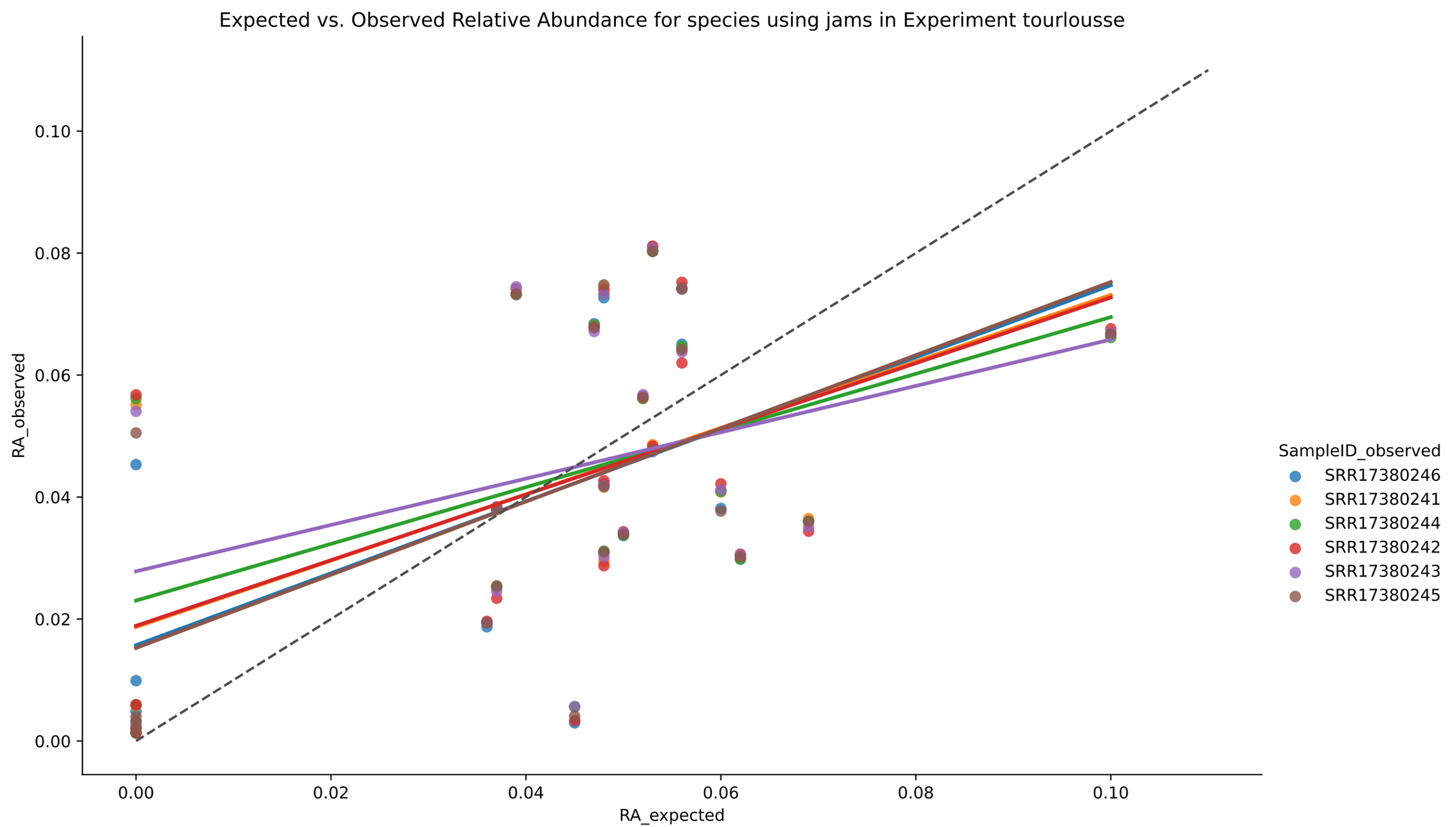
r^2 = 0.1951 for SRR17380241	MAE = 0.0206 for SRR17380241	Aitchison = 4.1335 for SRR17380241
r^2 = 0.1951 for SRR17380242	MAE = 0.0207 for SRR17380242	Aitchison = 4.1534 for SRR17380242
r^2 = 0.1945 for SRR17380243	MAE = 0.0206 for SRR17380243	Aitchison = 4.1369 for SRR17380243
r^2 = 0.1950 for SRR17380244	MAE = 0.0205 for SRR17380244	Aitchison = 4.1381 for SRR17380244
r^2 = 0.1961 for SRR17380245	MAE = 0.0205 for SRR17380245	Aitchison = 4.1323 for SRR17380245
r^2 = 0.1952 for SRR17380246	MAE = 0.0205 for SRR17380246	Aitchison = 4.1366 for SRR17380246



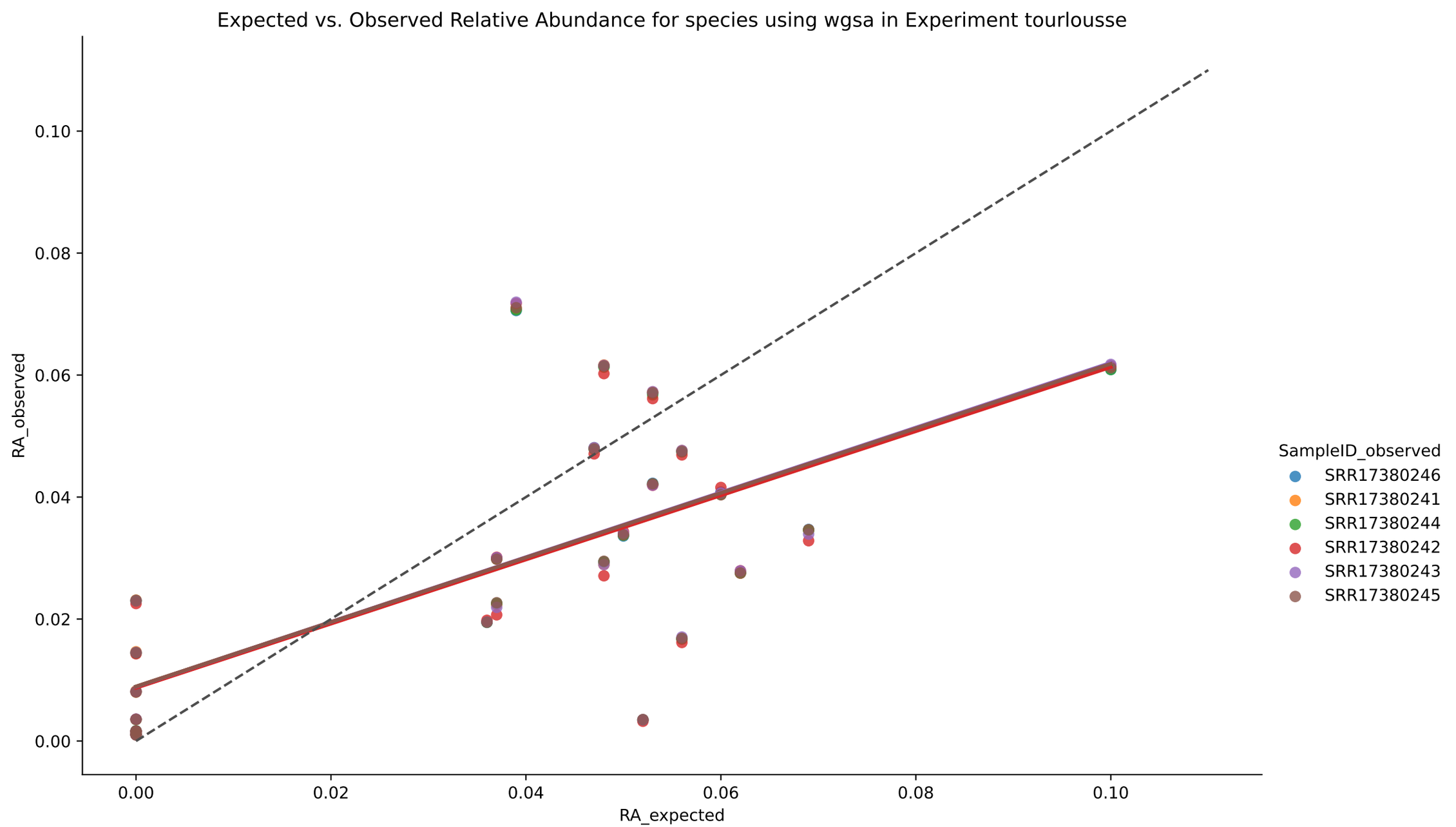
r^2 = 0.1052 for SRR17380241	MAE = 0.0305 for SRR17380241	Aitchison = 8.0917 for SRR17380241
r^2 = 0.1047 for SRR17380242	MAE = 0.0304 for SRR17380242	Aitchison = 8.0991 for SRR17380242
r^2 = 0.1053 for SRR17380243	MAE = 0.0305 for SRR17380243	Aitchison = 8.0918 for SRR17380243
r^2 = 0.1051 for SRR17380244	MAE = 0.0306 for SRR17380244	Aitchison = 8.0912 for SRR17380244
r^2 = 0.1055 for SRR17380245	MAE = 0.0306 for SRR17380245	Aitchison = 8.0979 for SRR17380245
r^2 = 0.1052 for SRR17380246	MAE = 0.0306 for SRR17380246	Aitchison = 8.0974 for SRR17380246



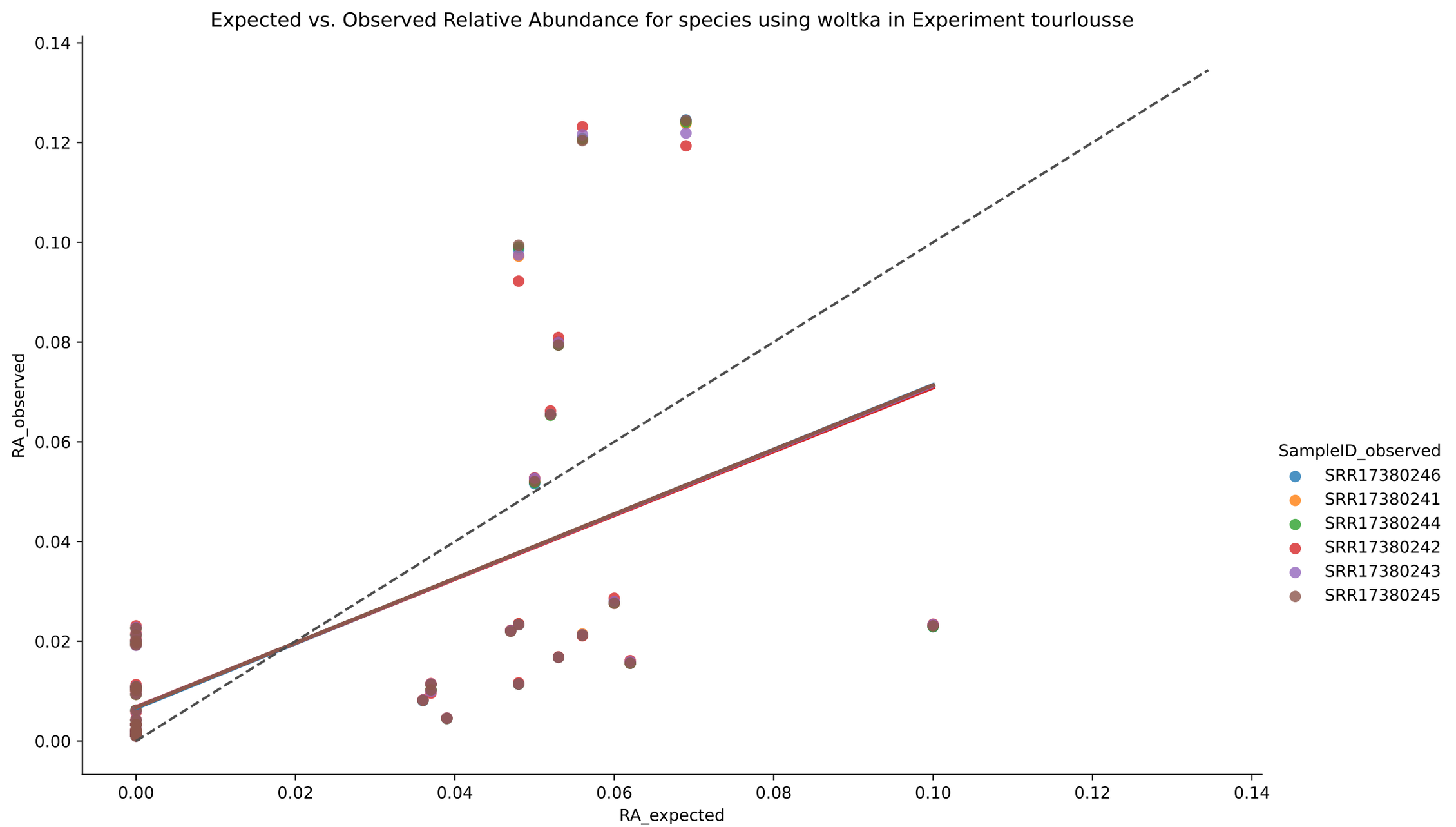
r² = 0.6475 for SRR17380241	MAE = 0.0141 for SRR17380241	Aitchison = 4.8792 for SRR17380241
r² = 0.6503 for SRR17380242	MAE = 0.0141 for SRR17380242	Aitchison = 5.0099 for SRR17380242
r² = 0.6581 for SRR17380243	MAE = 0.0138 for SRR17380243	Aitchison = 5.0847 for SRR17380243
r² = 0.6069 for SRR17380244	MAE = 0.0150 for SRR17380244	Aitchison = 4.7490 for SRR17380244
r² = 0.6527 for SRR17380245	MAE = 0.0139 for SRR17380245	Aitchison = 4.9811 for SRR17380245
r² = 0.6513 for SRR17380246	MAE = 0.0140 for SRR17380246	Aitchison = 4.9394 for SRR17380246



r^2 = 0.2743 for SRR17380241	MAE = 0.0190 for SRR17380241	Aitchison = 4.4961 for SRR17380241
r^2 = 0.2630 for SRR17380242	MAE = 0.0191 for SRR17380242	Aitchison = 4.7966 for SRR17380242
r^2 = 0.1209 for SRR17380243	MAE = 0.0204 for SRR17380243	Aitchison = 4.1927 for SRR17380243
r^2 = 0.1957 for SRR17380244	MAE = 0.0197 for SRR17380244	Aitchison = 4.4377 for SRR17380244
r^2 = 0.3436 for SRR17380245	MAE = 0.0182 for SRR17380245	Aitchison = 4.6335 for SRR17380245
r^2 = 0.3463 for SRR17380246	MAE = 0.0184 for SRR17380246	Aitchison = 5.0654 for SRR17380246



r² = 0.4833 for SRR17380241	MAE = 0.0165 for SRR17380241	Aitchison = 5.3606 for SRR17380241
r² = 0.4804 for SRR17380242	MAE = 0.0166 for SRR17380242	Aitchison = 5.3909 for SRR17380242
r² = 0.4821 for SRR17380243	MAE = 0.0165 for SRR17380243	Aitchison = 5.3498 for SRR17380243
r² = 0.4860 for SRR17380244	MAE = 0.0165 for SRR17380244	Aitchison = 5.3451 for SRR17380244
r² = 0.4851 for SRR17380245	MAE = 0.0165 for SRR17380245	Aitchison = 5.3418 for SRR17380245
r² = 0.4849 for SRR17380246	MAE = 0.0165 for SRR17380246	Aitchison = 5.3558 for SRR17380246



r^2 = 0.3536 for SRR17380241	MAE = 0.0177 for SRR17380241	Aitchison = 11.6697 for SRR17380241
r^2 = 0.3563 for SRR17380242	MAE = 0.0177 for SRR17380242	Aitchison = 11.6931 for SRR17380242
r^2 = 0.3540 for SRR17380243	MAE = 0.0177 for SRR17380243	Aitchison = 11.6747 for SRR17380243
r^2 = 0.3516 for SRR17380244	MAE = 0.0178 for SRR17380244	Aitchison = 11.6748 for SRR17380244
r^2 = 0.3518 for SRR17380245	MAE = 0.0178 for SRR17380245	Aitchison = 11.6724 for SRR17380245
r^2 = 0.3562 for SRR17380246	MAE = 0.0174 for SRR17380246	Aitchison = 11.7999 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

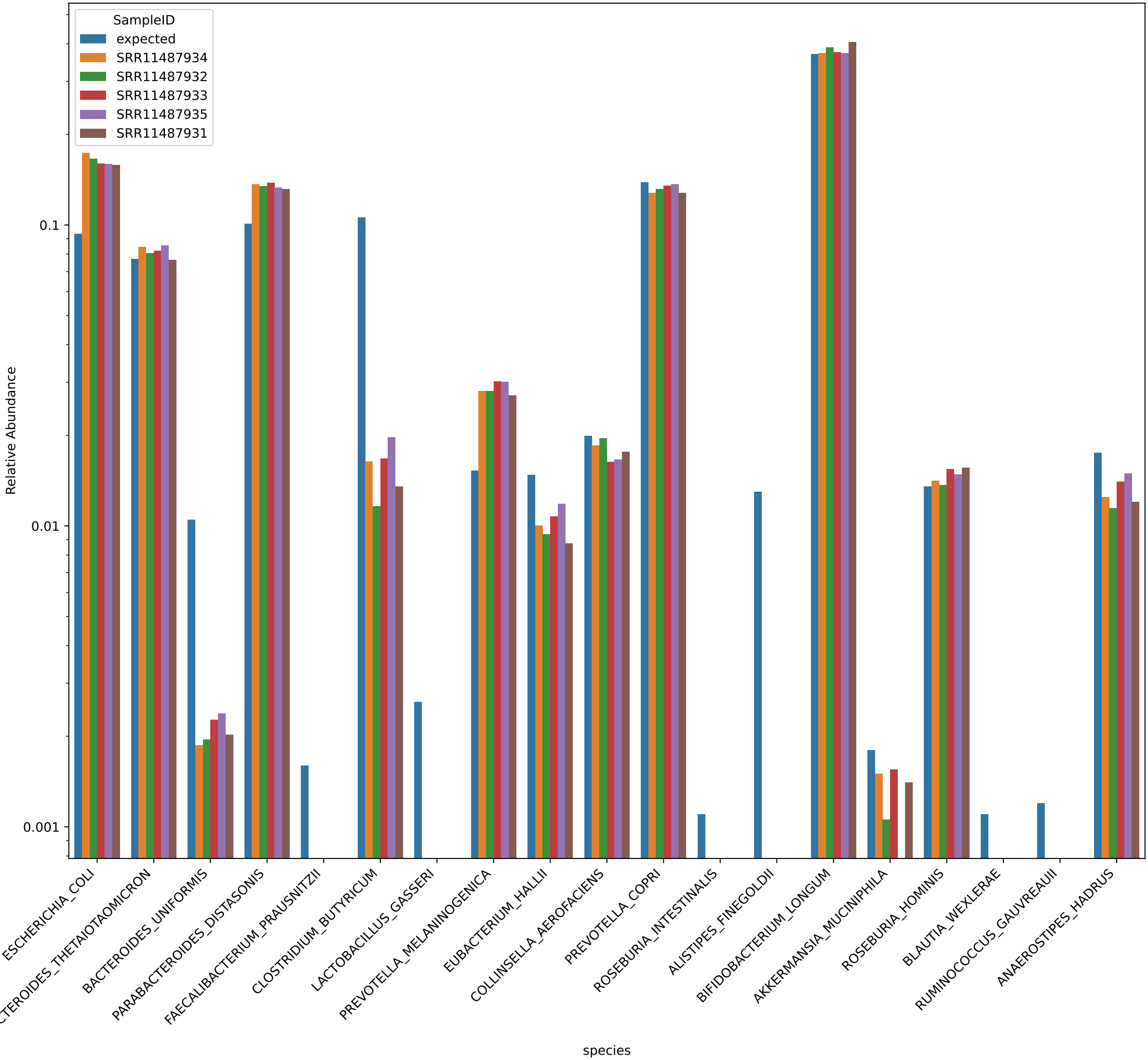
Relative Abundance

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

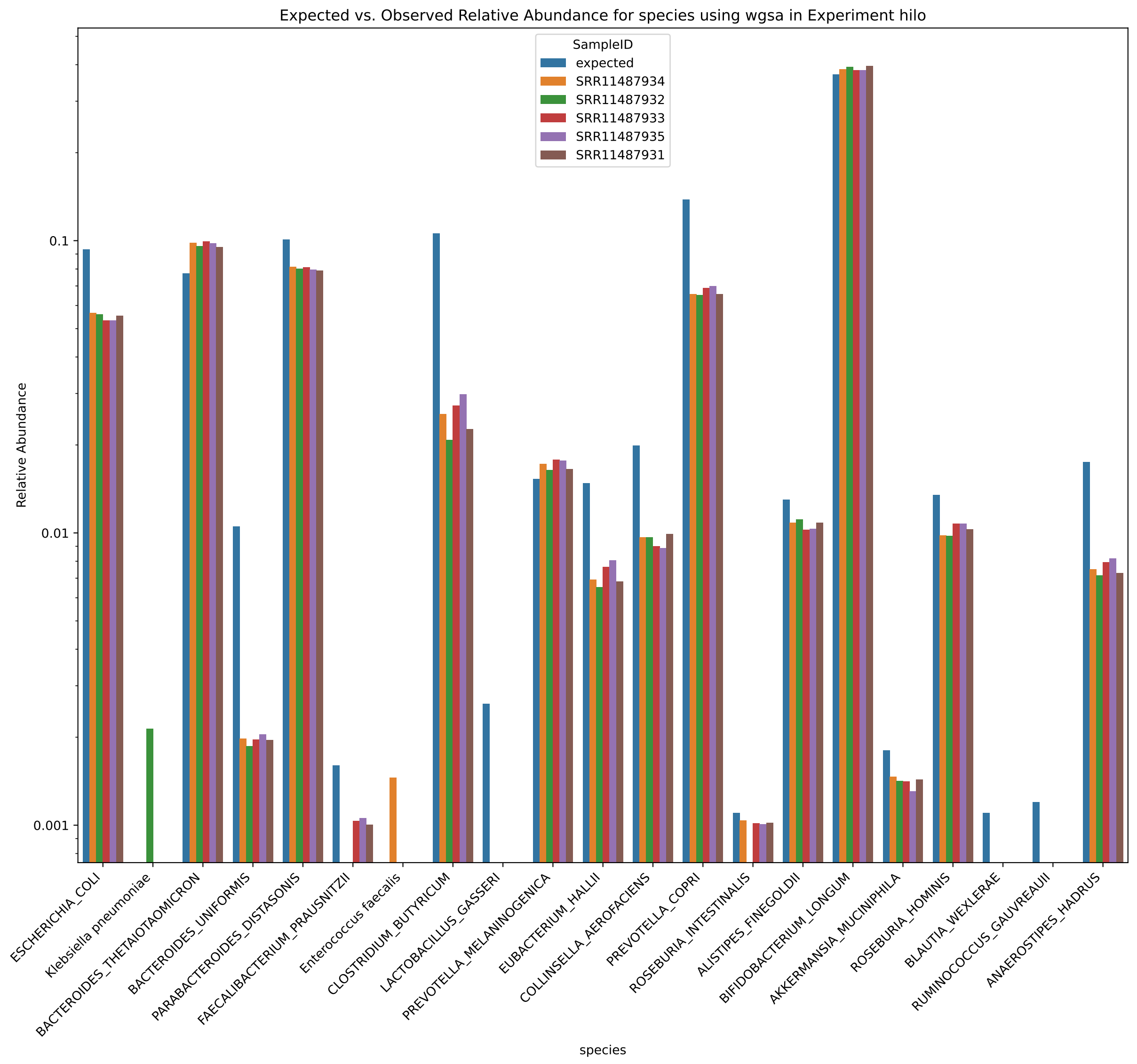
SampleID
expected
SRR11487934
SRR11487932
SRR11487933
SRR11487935
SRR11487931

Relative Abundance
0.1
0.01
0.001

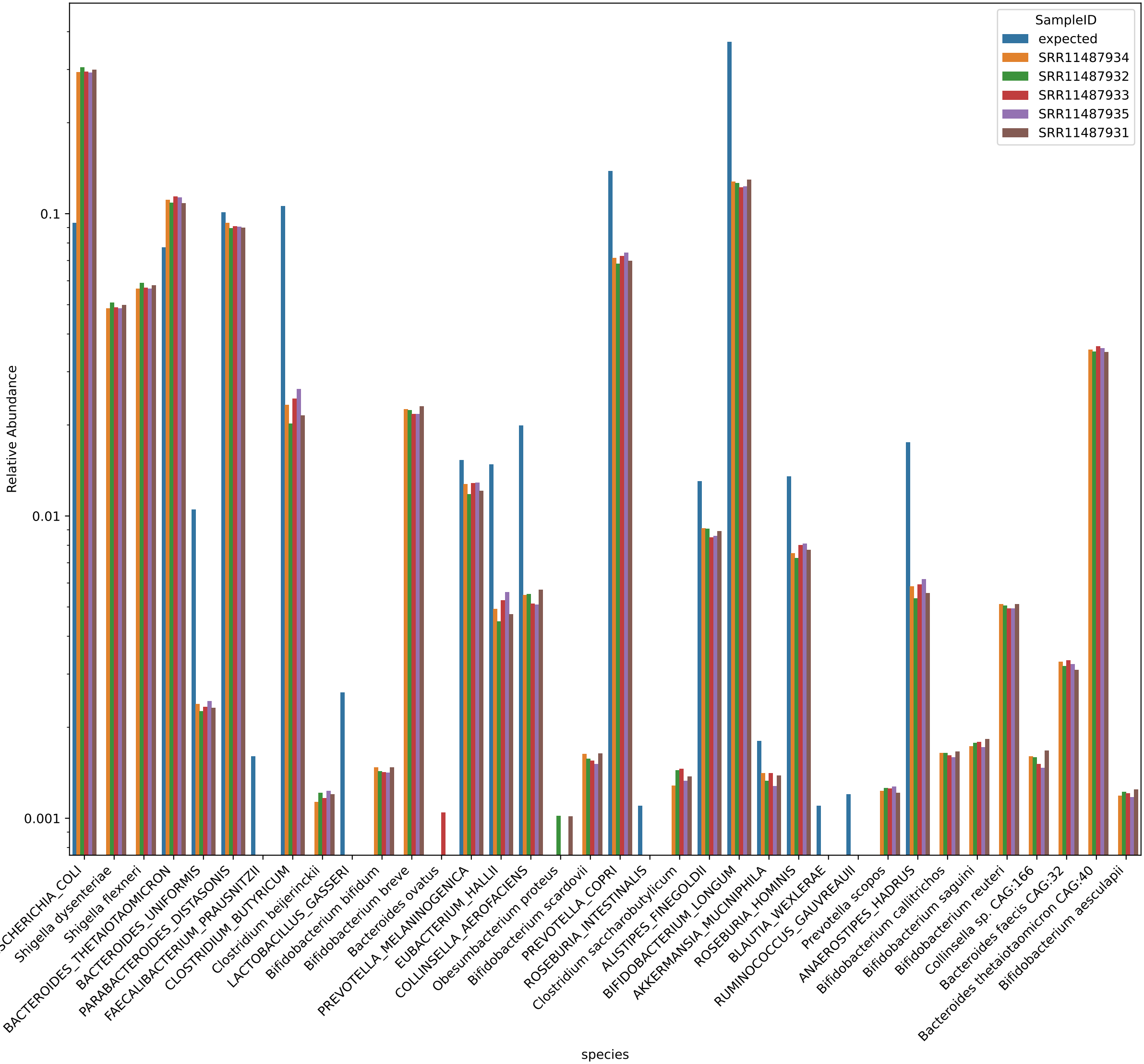
ESCHERICHIA_COLI
BACTEROIDES_THETAIOTAOMICRON
BACTEROIDES_UNIFORMIS
PARABACTEROIDES_DISTASONIS
FAECALIBACTERIUM_PRAUSNITZII
CLOSTRIDIUM_BUTYRICUM
LACTOBACILLUS_GASSERI
PREVOTELLA_MELANINOGENICA
EUBACTERIUM_HALLII
COLLINSELLA_AEROFACIENS
PREVOTELLA_COPRI
ROSEBURIA_INTESTINALIS
ALISTIPES_FINEGOLDII
BIFIDOBACTERIUM_LONGUM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

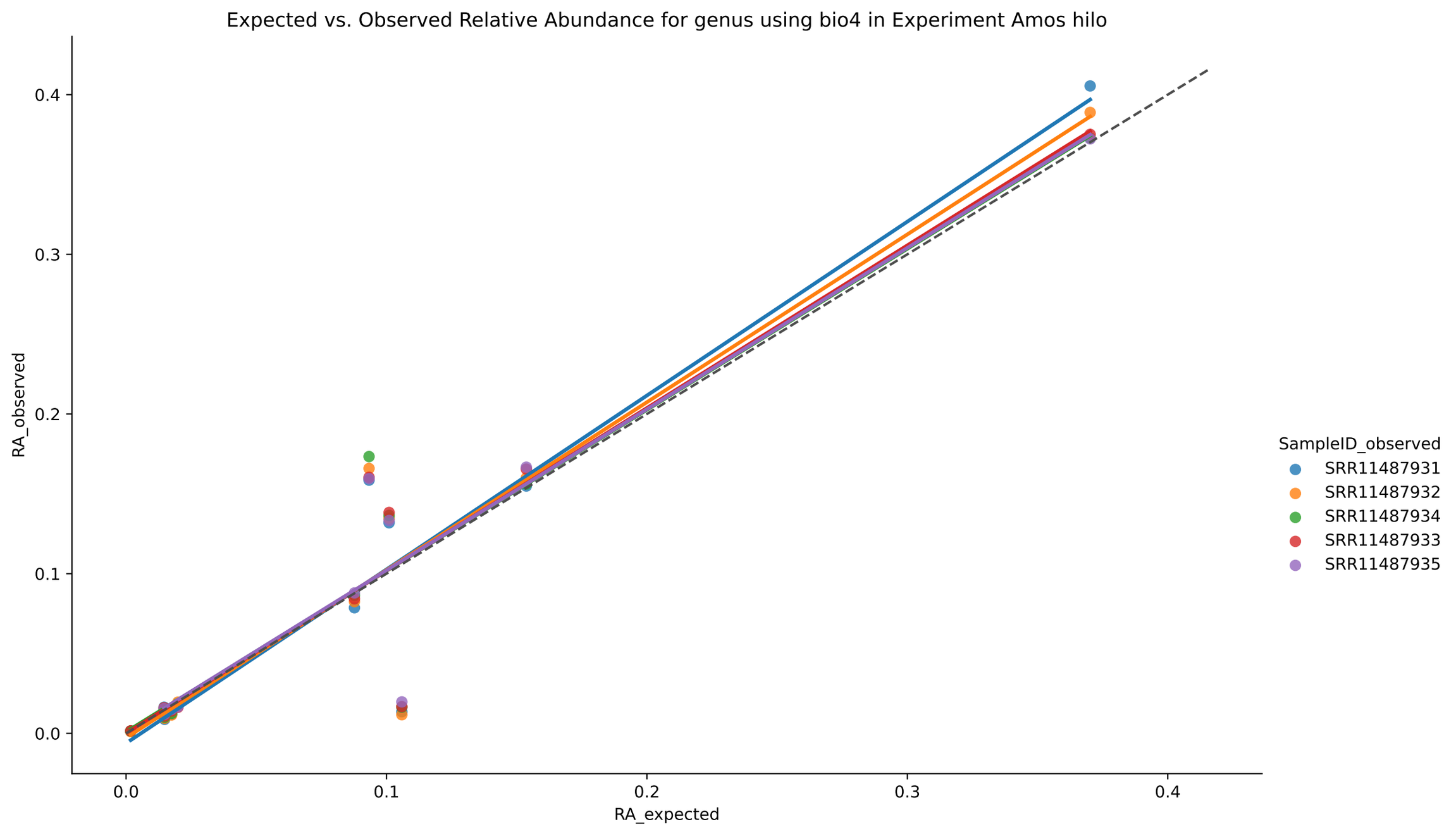
species

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

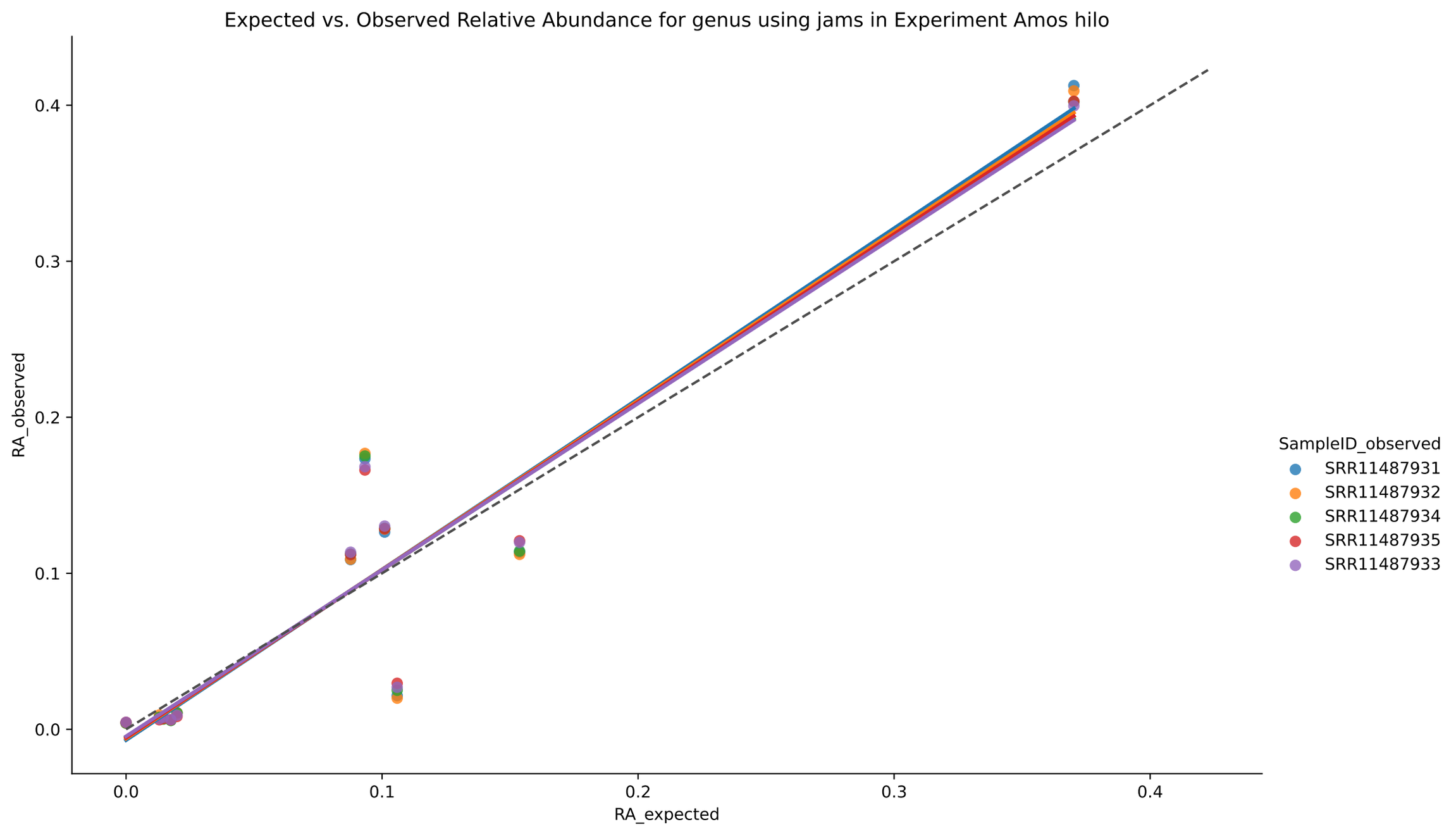


Expected vs. Observed Relative Abundance for species using wol in Experiment hilo

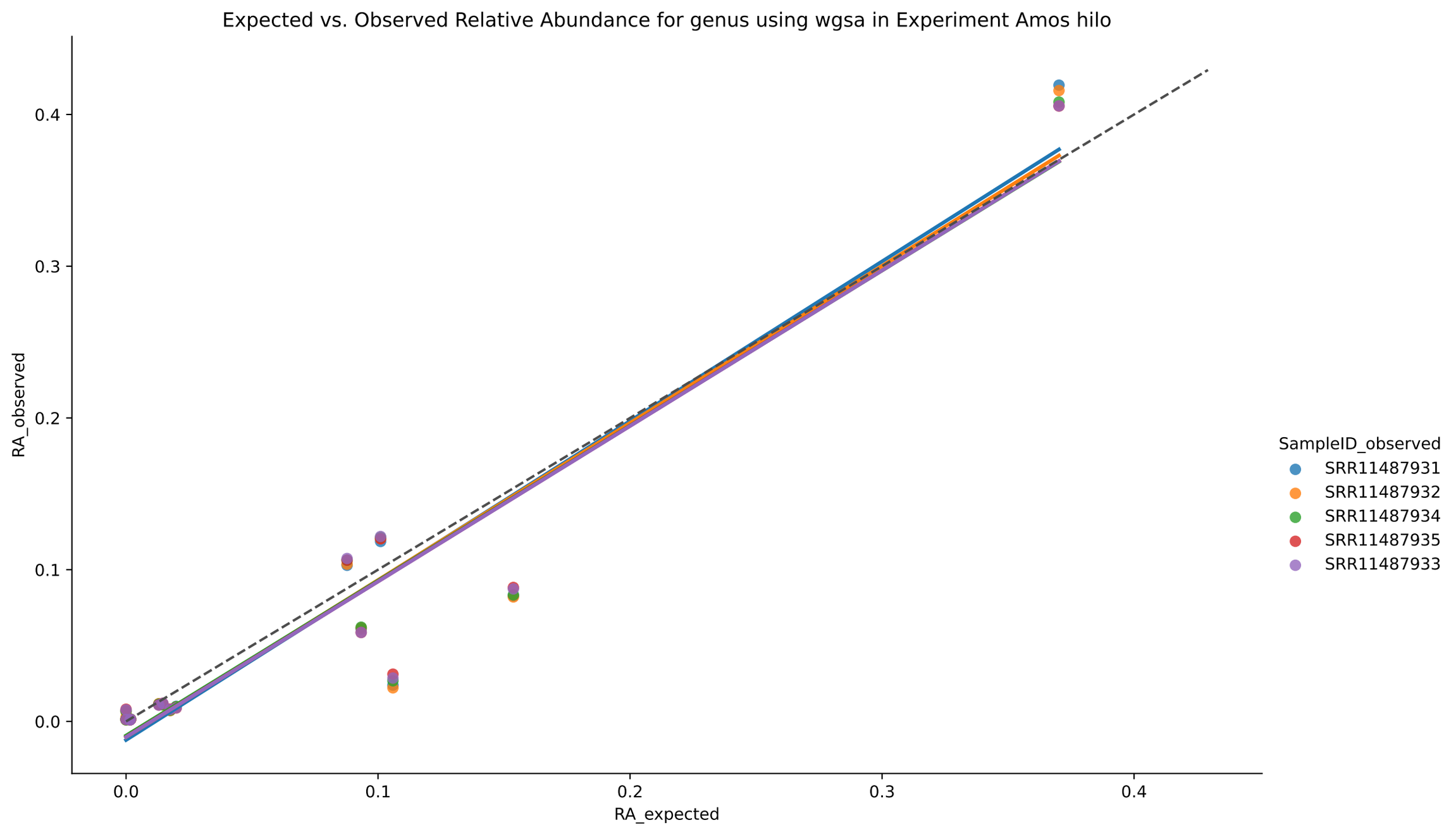




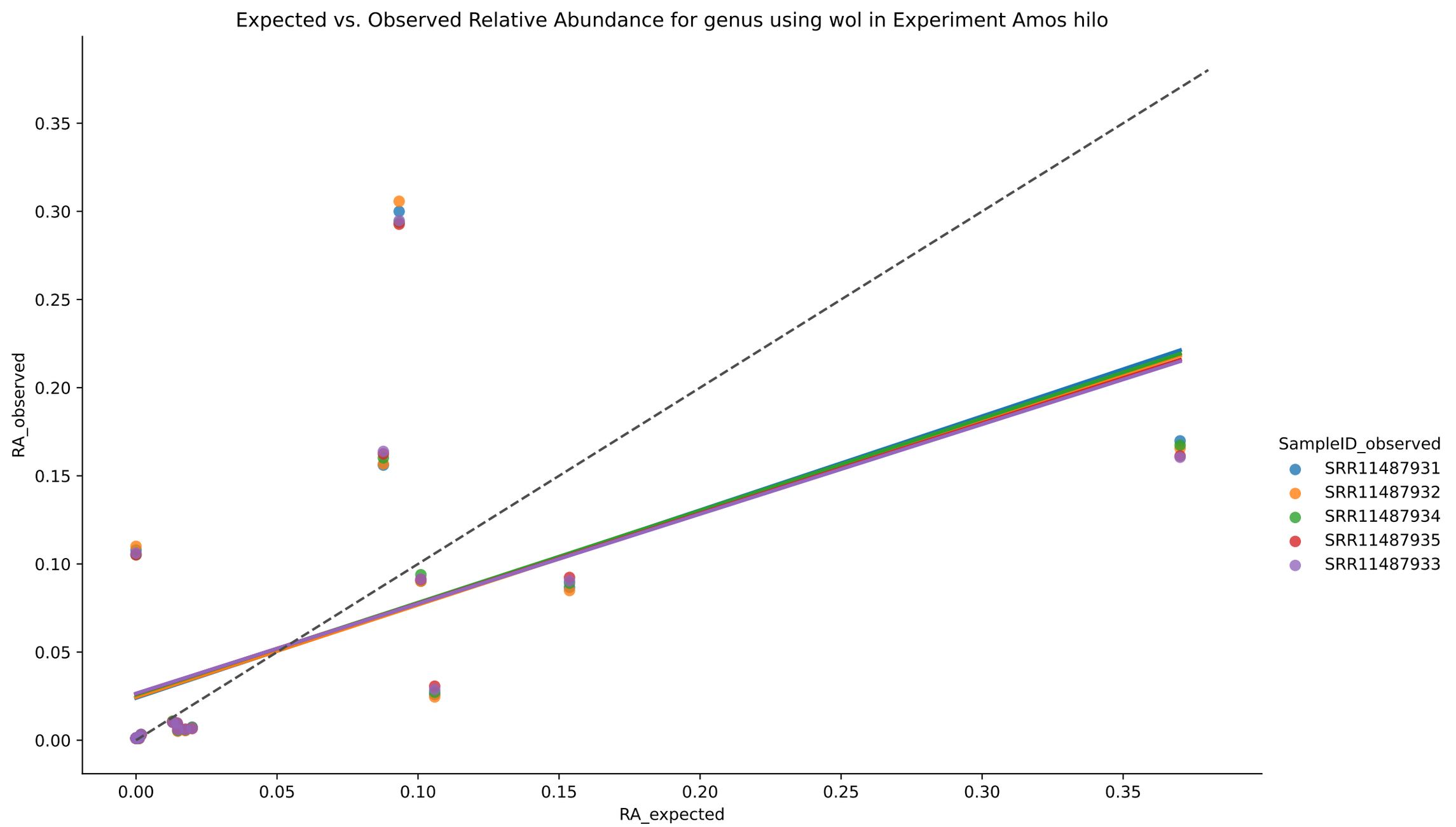
r^2 = 0.9035 for SRR11487931	MAE = 0.0227 for SRR11487931	Aitchison = 2.1389 for SRR11487931
r^2 = 0.8892 for SRR11487932	MAE = 0.0222 for SRR11487932	Aitchison = 2.2959 for SRR11487932
r^2 = 0.8928 for SRR11487933	MAE = 0.0206 for SRR11487933	Aitchison = 1.9349 for SRR11487933
r^2 = 0.8791 for SRR11487934	MAE = 0.0203 for SRR11487934	Aitchison = 1.9826 for SRR11487934
r^2 = 0.8906 for SRR11487935	MAE = 0.0210 for SRR11487935	Aitchison = 1.7737 for SRR11487935



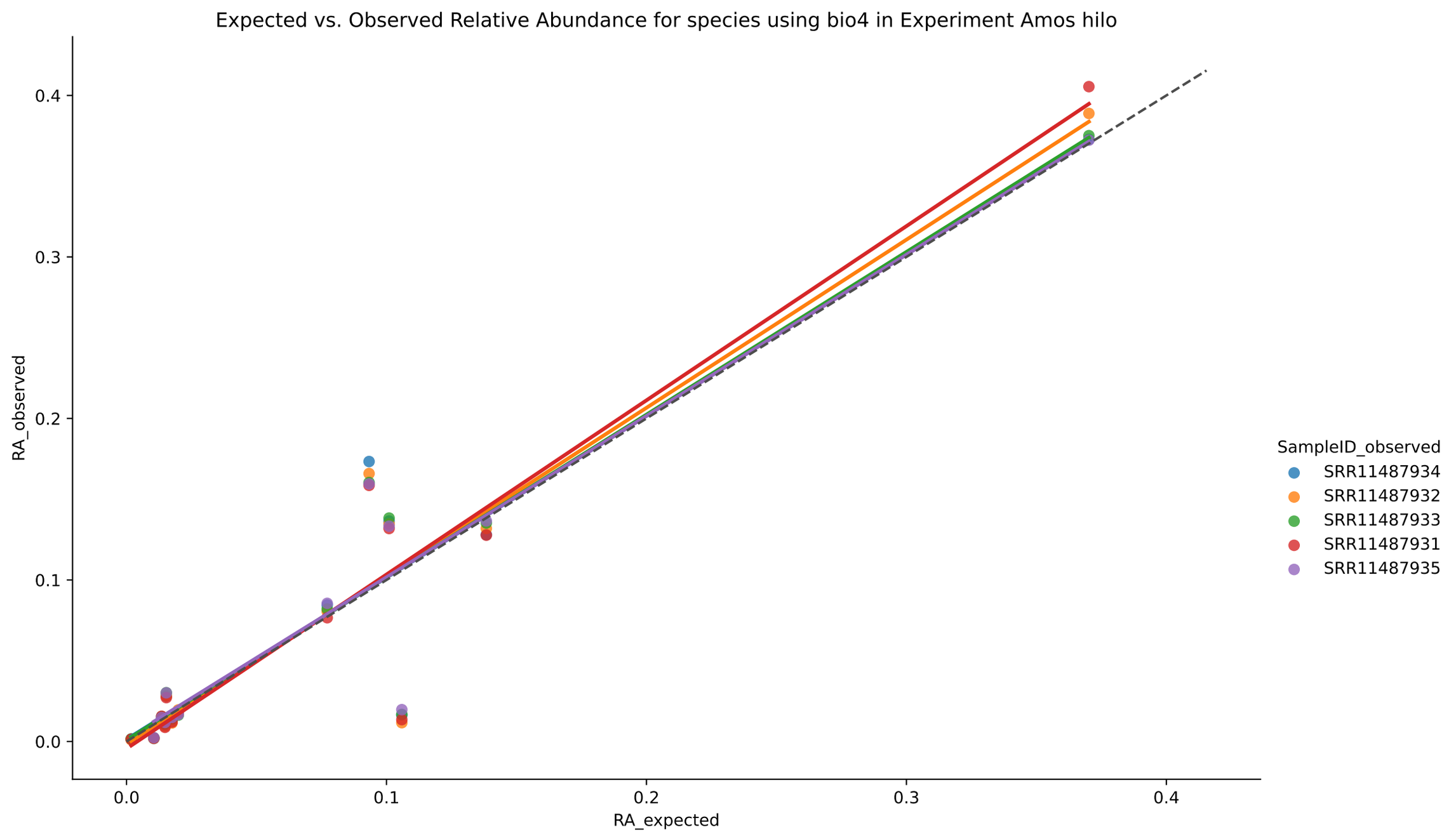
r^2 = 0.8862 for SRR11487931	MAE = 0.0301 for SRR11487931	Aitchison = 2.0536 for SRR11487931
r^2 = 0.8786 for SRR11487932	MAE = 0.0304 for SRR11487932	Aitchison = 2.1086 for SRR11487932
r^2 = 0.8940 for SRR11487933	MAE = 0.0284 for SRR11487933	Aitchison = 1.9369 for SRR11487933
r^2 = 0.8839 for SRR11487934	MAE = 0.0296 for SRR11487934	Aitchison = 2.0222 for SRR11487934
r^2 = 0.9011 for SRR11487935	MAE = 0.0280 for SRR11487935	Aitchison = 1.9392 for SRR11487935



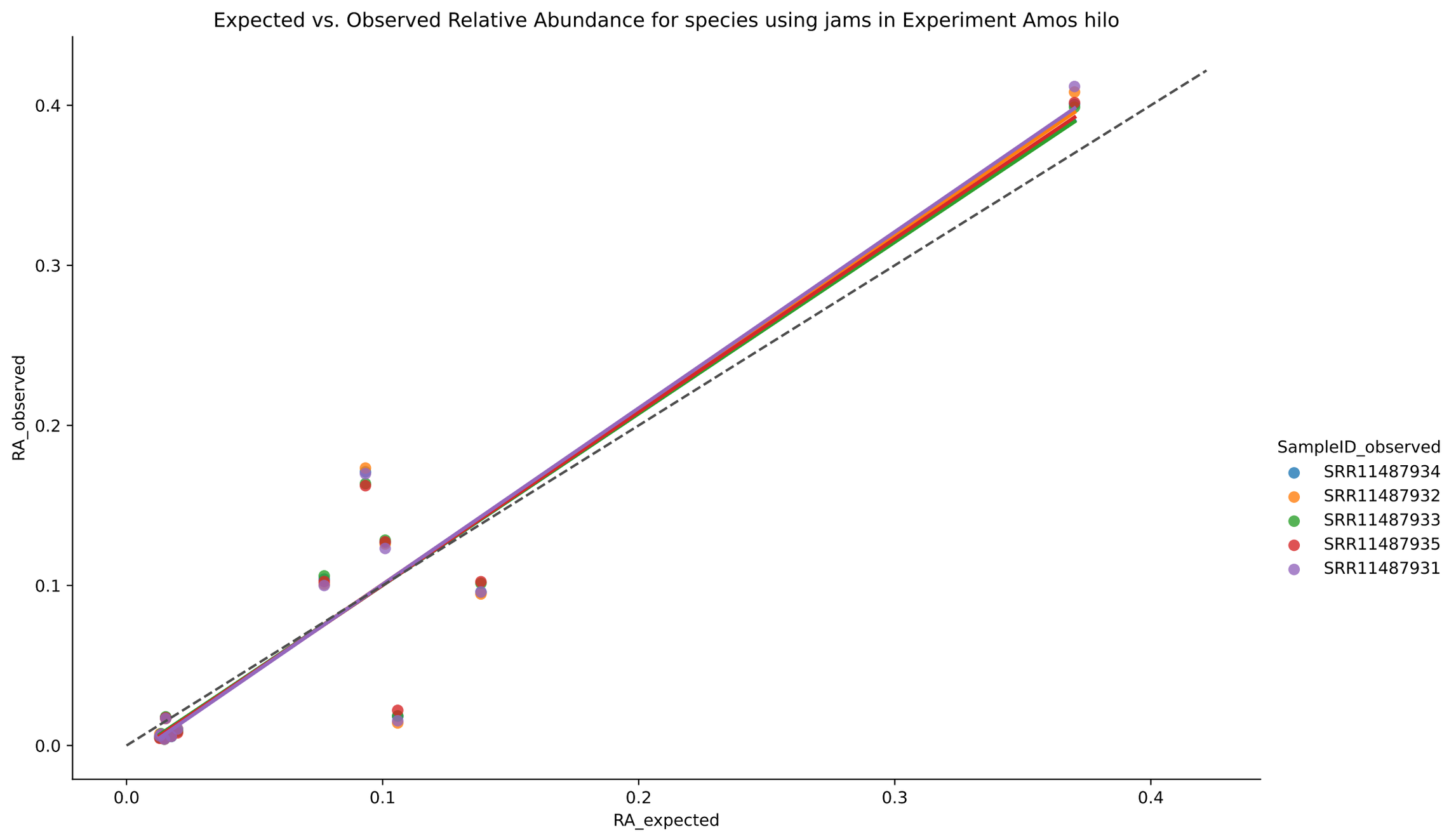
r^2 = 0.9082 for SRR11487931	MAE = 0.0215 for SRR11487931	Aitchison = 1.9626 for SRR11487931
r^2 = 0.9065 for SRR11487932	MAE = 0.0204 for SRR11487932	Aitchison = 2.2280 for SRR11487932
r^2 = 0.9146 for SRR11487933	MAE = 0.0207 for SRR11487933	Aitchison = 1.9453 for SRR11487933
r^2 = 0.9122 for SRR11487934	MAE = 0.0196 for SRR11487934	Aitchison = 2.2564 for SRR11487934
r^2 = 0.9183 for SRR11487935	MAE = 0.0203 for SRR11487935	Aitchison = 1.8806 for SRR11487935



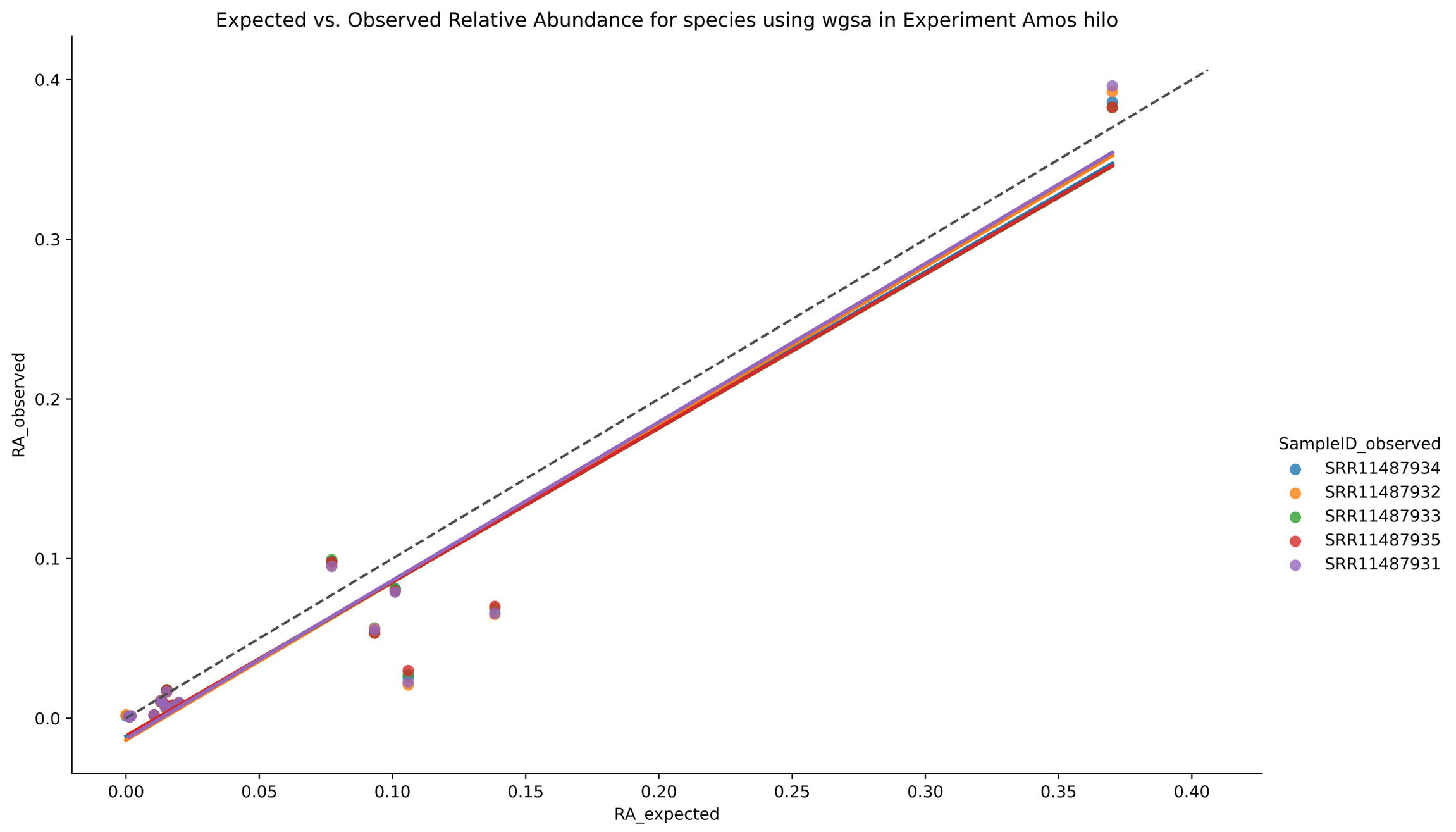
r^2 = 0.3484 for SRR11487931	MAE = 0.0415 for SRR11487931	Aitchison = 4.9570 for SRR11487931
r^2 = 0.3296 for SRR11487932	MAE = 0.0424 for SRR11487932	Aitchison = 5.0147 for SRR11487932
r^2 = 0.3269 for SRR11487933	MAE = 0.0439 for SRR11487933	Aitchison = 4.8219 for SRR11487933
r^2 = 0.3436 for SRR11487934	MAE = 0.0432 for SRR11487934	Aitchison = 4.8532 for SRR11487934
r^2 = 0.3343 for SRR11487935	MAE = 0.0434 for SRR11487935	Aitchison = 4.7865 for SRR11487935



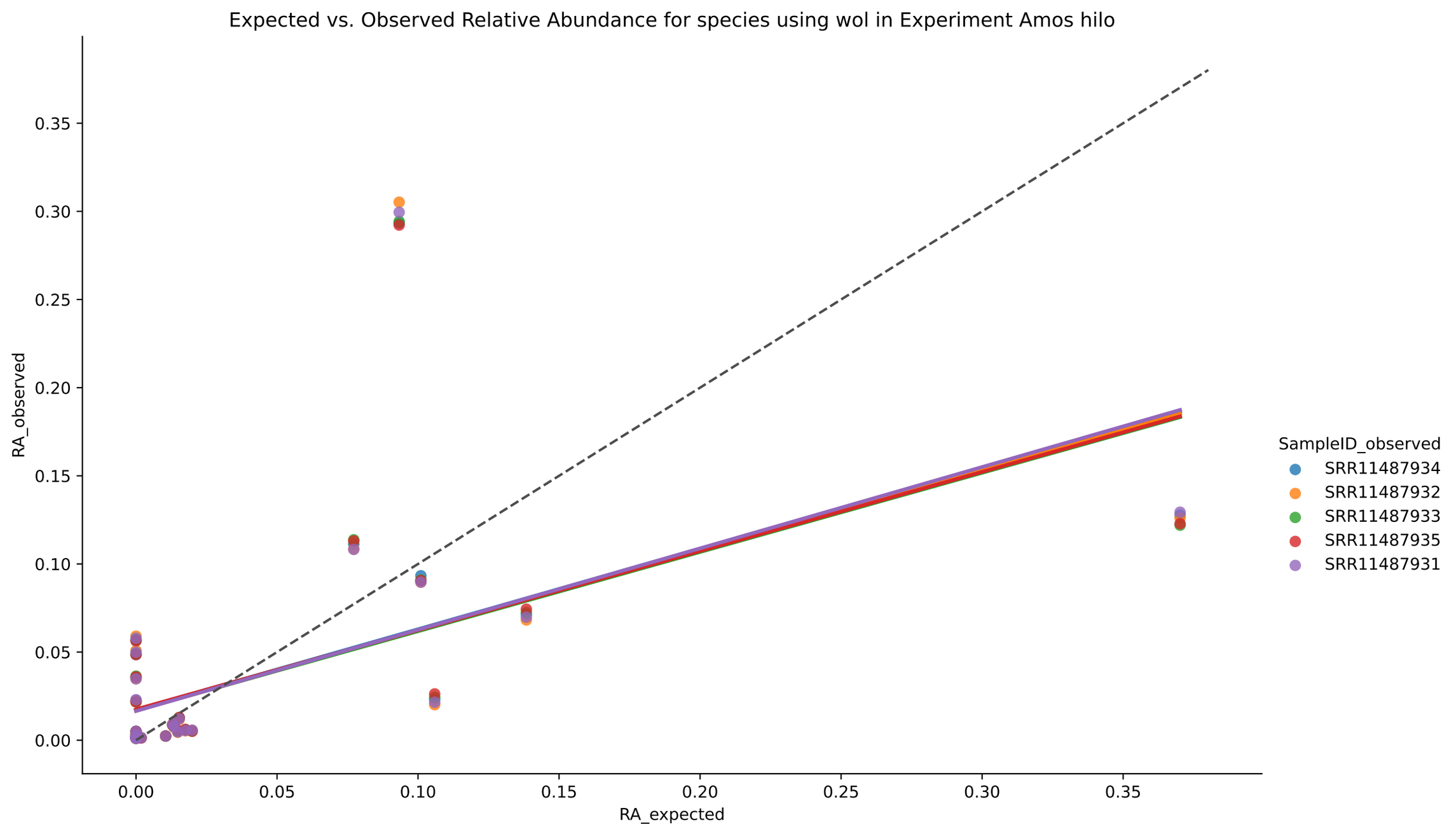
r^2 = 0.9051 for SRR11487931	MAE = 0.0209 for SRR11487931	Aitchison = 2.6892 for SRR11487931
r^2 = 0.8918 for SRR11487932	MAE = 0.0202 for SRR11487932	Aitchison = 2.8399 for SRR11487932
r^2 = 0.8956 for SRR11487933	MAE = 0.0187 for SRR11487933	Aitchison = 2.5177 for SRR11487933
r^2 = 0.8820 for SRR11487934	MAE = 0.0199 for SRR11487934	Aitchison = 2.6358 for SRR11487934
r^2 = 0.8960 for SRR11487935	MAE = 0.0192 for SRR11487935	Aitchison = 2.3734 for SRR11487935



r^2 = 0.8855 for SRR11487931	MAE = 0.0286 for SRR11487931	Aitchison = 2.4794 for SRR11487931
r^2 = 0.8779 for SRR11487932	MAE = 0.0290 for SRR11487932	Aitchison = 2.5372 for SRR11487932
r^2 = 0.8897 for SRR11487933	MAE = 0.0274 for SRR11487933	Aitchison = 2.4059 for SRR11487933
r^2 = 0.8812 for SRR11487934	MAE = 0.0283 for SRR11487934	Aitchison = 2.4483 for SRR11487934
r^2 = 0.8978 for SRR11487935	MAE = 0.0269 for SRR11487935	Aitchison = 2.3490 for SRR11487935

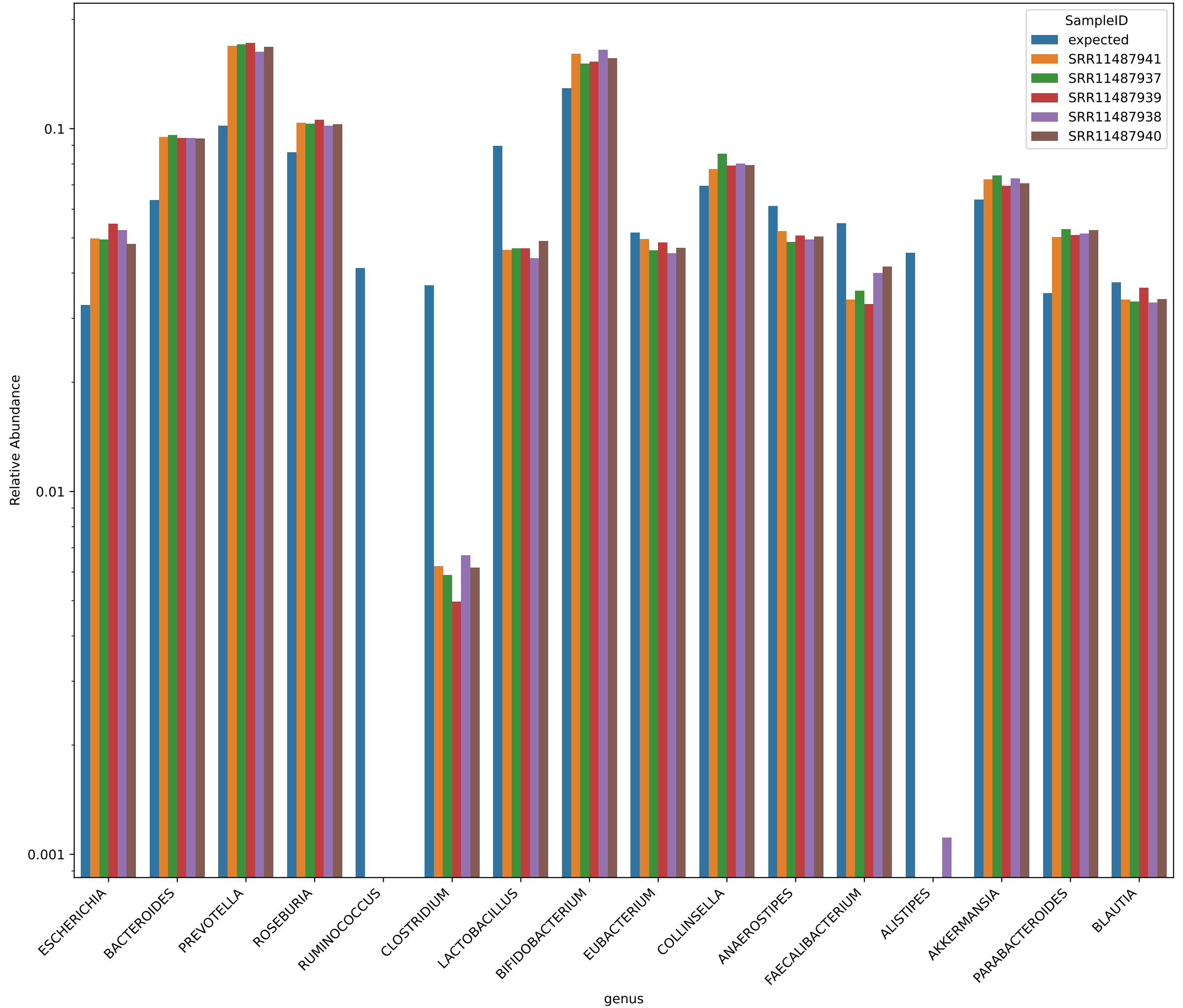


r^2 = 0.9115 for SRR11487931	MAE = 0.0190 for SRR11487931	Aitchison = 2.1050 for SRR11487931
r^2 = 0.9091 for SRR11487932	MAE = 0.0203 for SRR11487932	Aitchison = 2.1418 for SRR11487932
r^2 = 0.9178 for SRR11487933	MAE = 0.0180 for SRR11487933	Aitchison = 2.0224 for SRR11487933
r^2 = 0.9146 for SRR11487934	MAE = 0.0183 for SRR11487934	Aitchison = 2.1131 for SRR11487934
r^2 = 0.9215 for SRR11487935	MAE = 0.0177 for SRR11487935	Aitchison = 1.9332 for SRR11487935

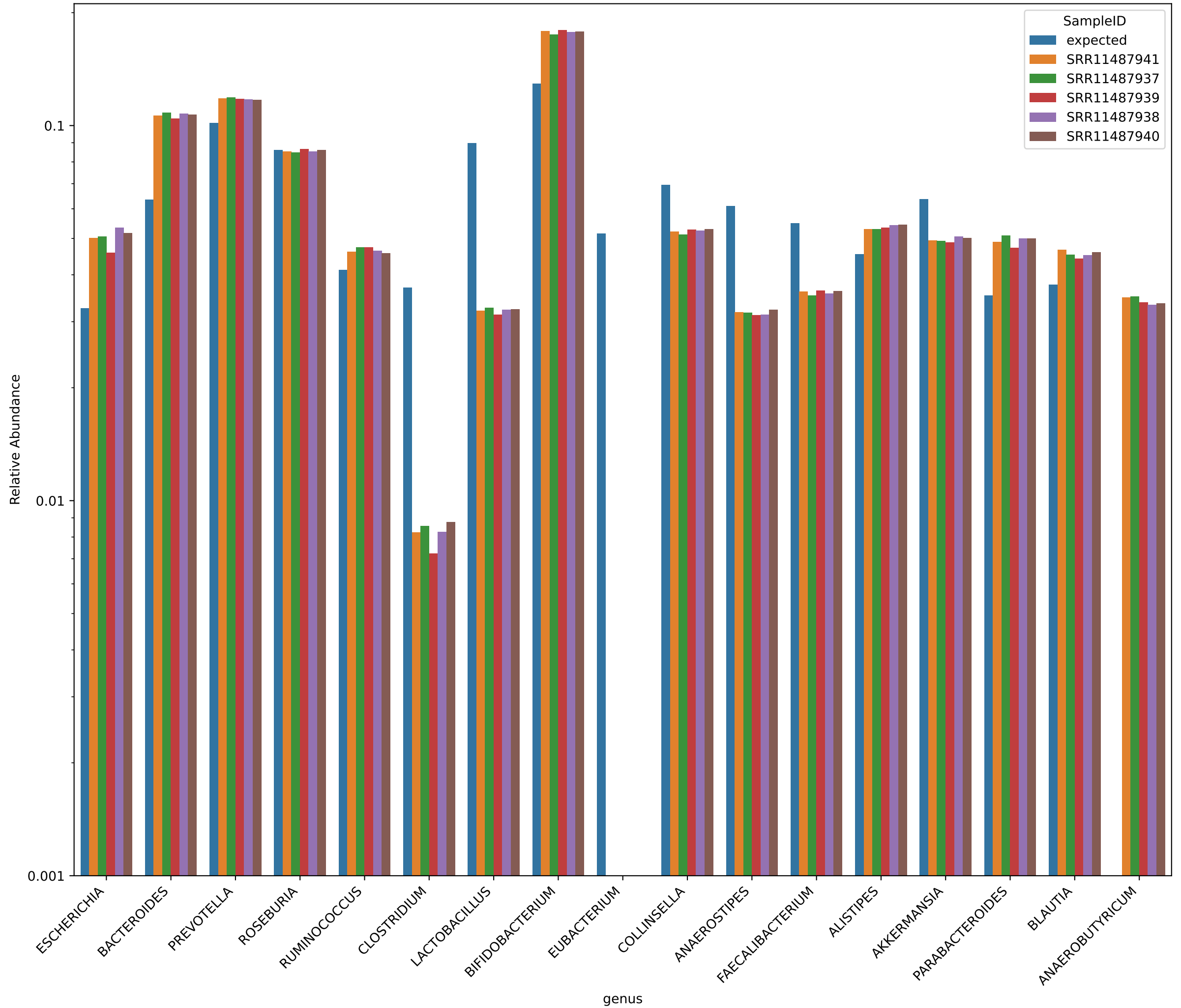


r² = 0.3141 for SRR11487931	MAE = 0.0296 for SRR11487931	Aitchison = 7.9962 for SRR11487931
r² = 0.2983 for SRR11487932	MAE = 0.0301 for SRR11487932	Aitchison = 8.0696 for SRR11487932
r² = 0.3064 for SRR11487933	MAE = 0.0296 for SRR11487933	Aitchison = 7.9372 for SRR11487933
r² = 0.3167 for SRR11487934	MAE = 0.0302 for SRR11487934	Aitchison = 7.8150 for SRR11487934
r² = 0.3097 for SRR11487935	MAE = 0.0302 for SRR11487935	Aitchison = 7.7562 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

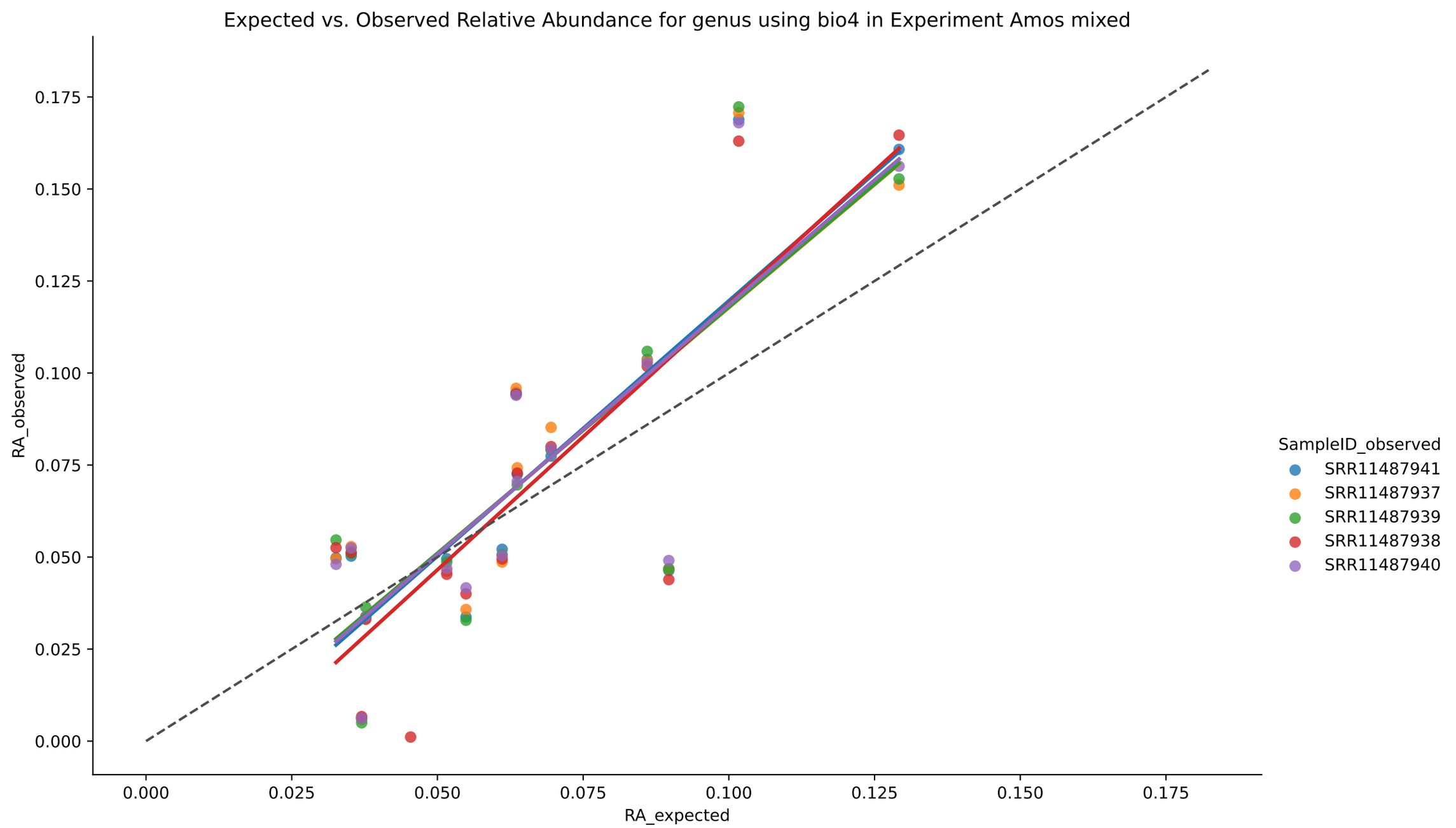
Expected vs. Observed Relative Abundance for species using wol in Experiment mixed

SampleID
expected
SRR11487938
SRR11487940
SRR11487939
SRR11487941
SRR11487937

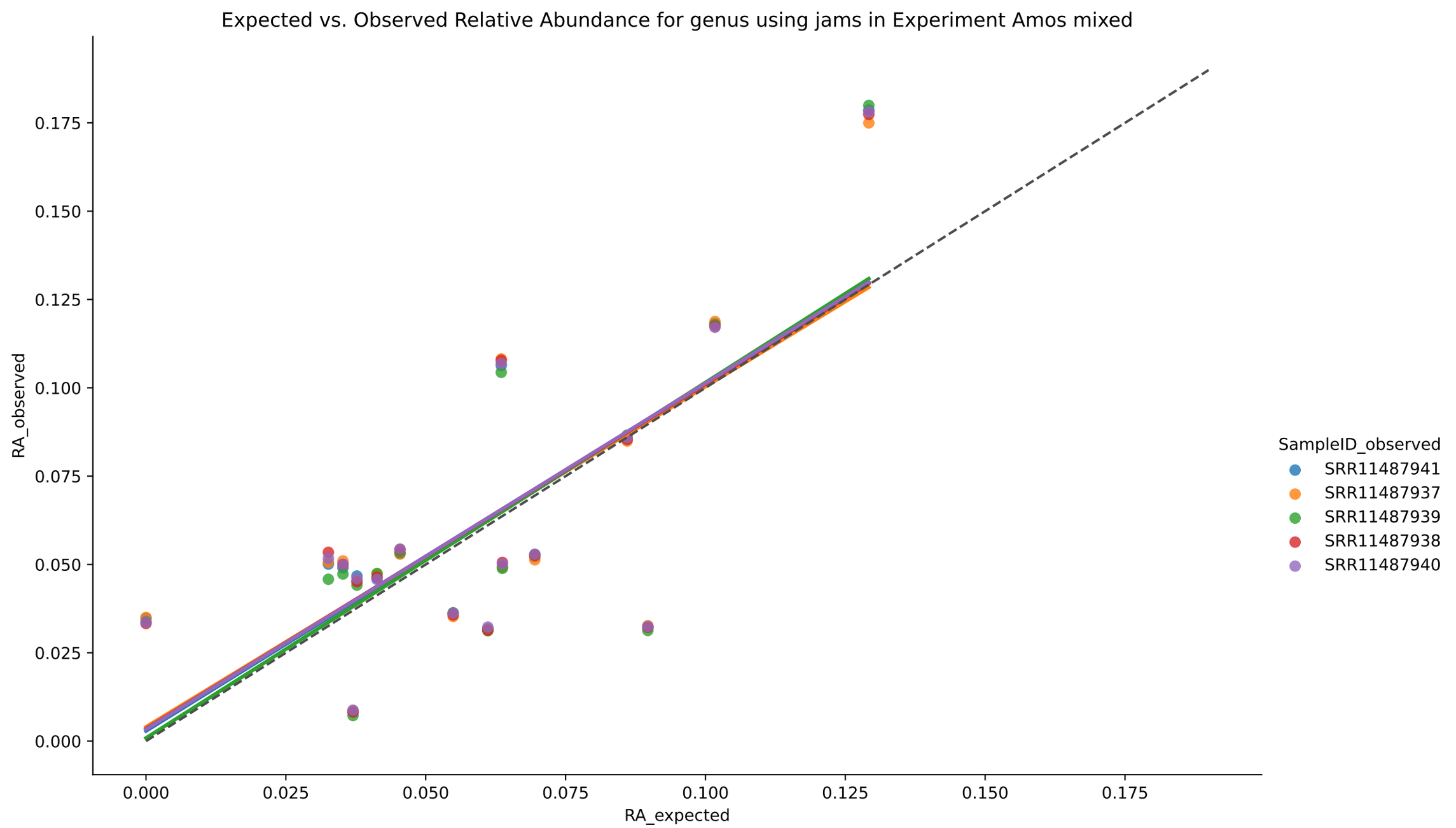
Relative Abundance
0.1
0.01
0.001

species

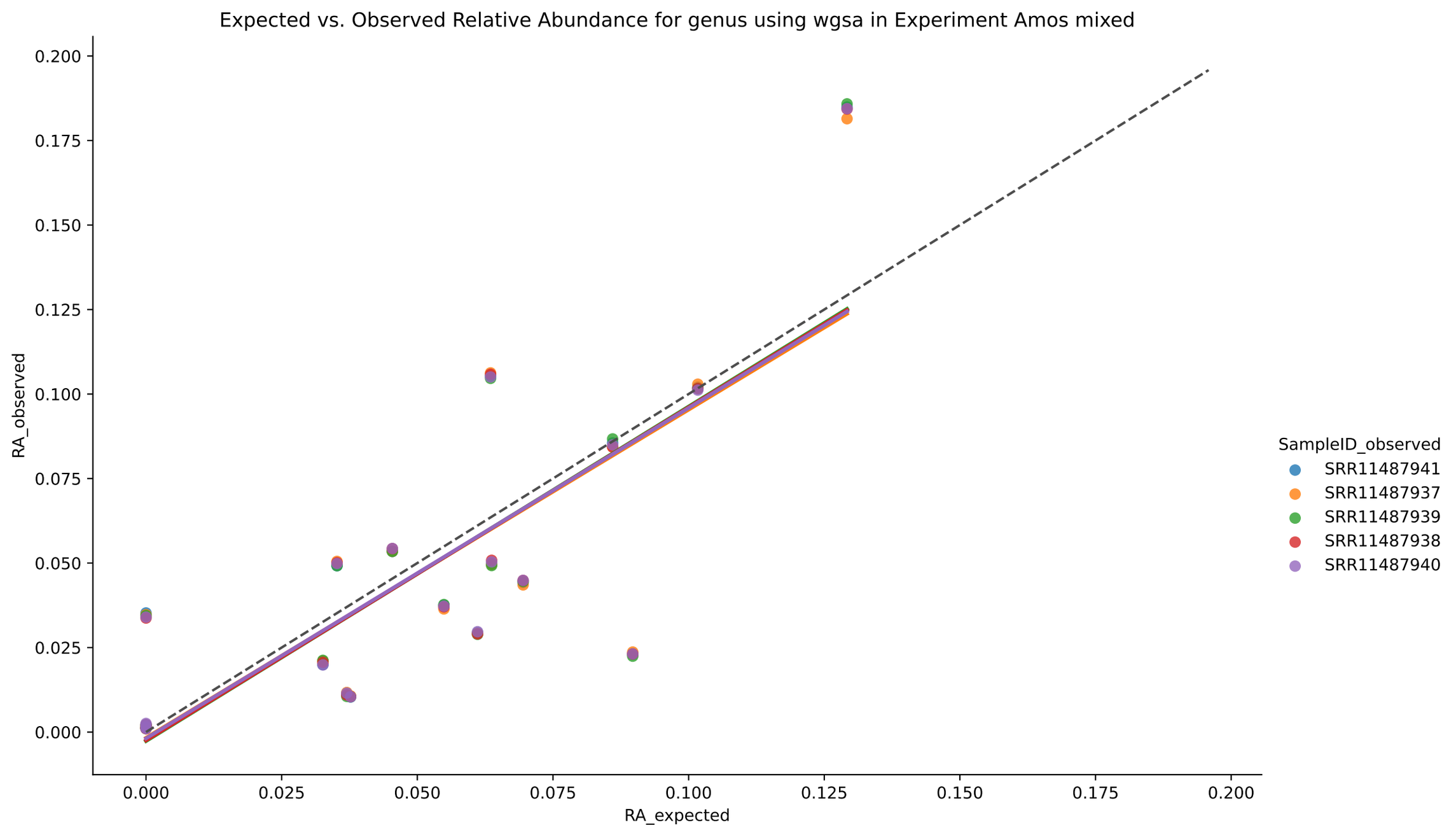
ESCHERICHIA_COLI
Shigella dysenteriae
Shigella flexneri
BACTEROIDES_THETAIOTAOMICRON
BACTEROIDES_UNIFORMIS
Bacteroides vulgatus
PARABACTEROIDES_DISTASONIS
FAECALIBACTERIUM_PRAUSNITZII
Blautia hansenii
CLOSTRIDIUM_BUTYRICUM
LACTOBACILLUS_GASSERI
Lactobacillus fermentum
Bifidobacterium breve
PREVOTELLA_MELANINOGENICA
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



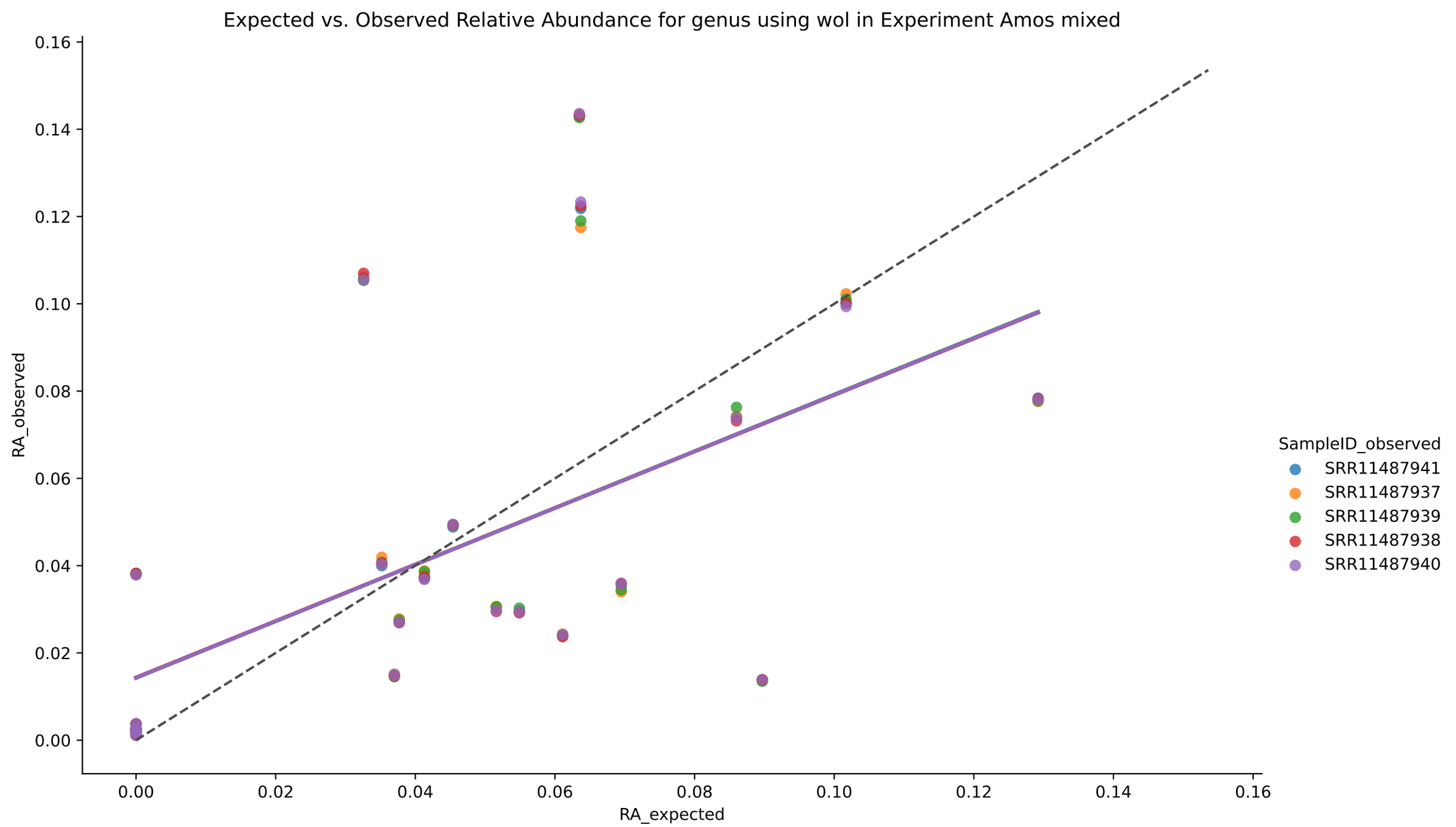
r² = 0.6657 for SRR11487937	MAE = 0.0226 for SRR11487937	Aitchison = 2.2146 for SRR11487937
r² = 0.6856 for SRR11487938	MAE = 0.0238 for SRR11487938	Aitchison = 4.1118 for SRR11487938
r² = 0.6600 for SRR11487939	MAE = 0.0221 for SRR11487939	Aitchison = 2.3682 for SRR11487939
r² = 0.7007 for SRR11487940	MAE = 0.0210 for SRR11487940	Aitchison = 2.1144 for SRR11487940
r² = 0.6936 for SRR11487941	MAE = 0.0219 for SRR11487941	Aitchison = 2.1610 for SRR11487941



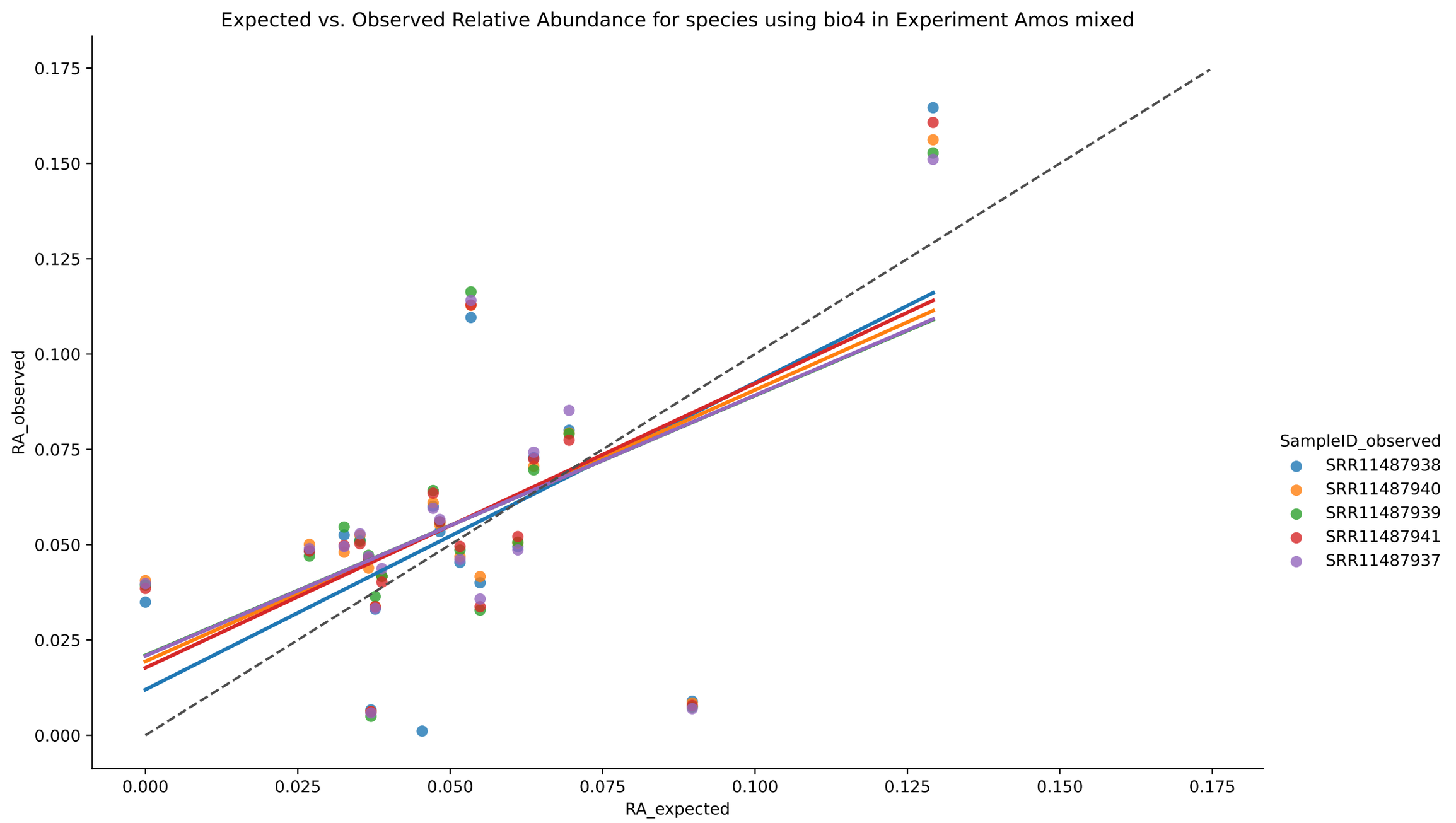
r² = 0.5310 for SRR11487937	MAE = 0.0229 for SRR11487937	Aitchison = 3.1248 for SRR11487937
r² = 0.5352 for SRR11487938	MAE = 0.0228 for SRR11487938	Aitchison = 3.1145 for SRR11487938
r² = 0.5525 for SRR11487939	MAE = 0.0223 for SRR11487939	Aitchison = 3.1712 for SRR11487939
r² = 0.5409 for SRR11487940	MAE = 0.0225 for SRR11487940	Aitchison = 3.0772 for SRR11487940
r² = 0.5388 for SRR11487941	MAE = 0.0227 for SRR11487941	Aitchison = 3.1333 for SRR11487941



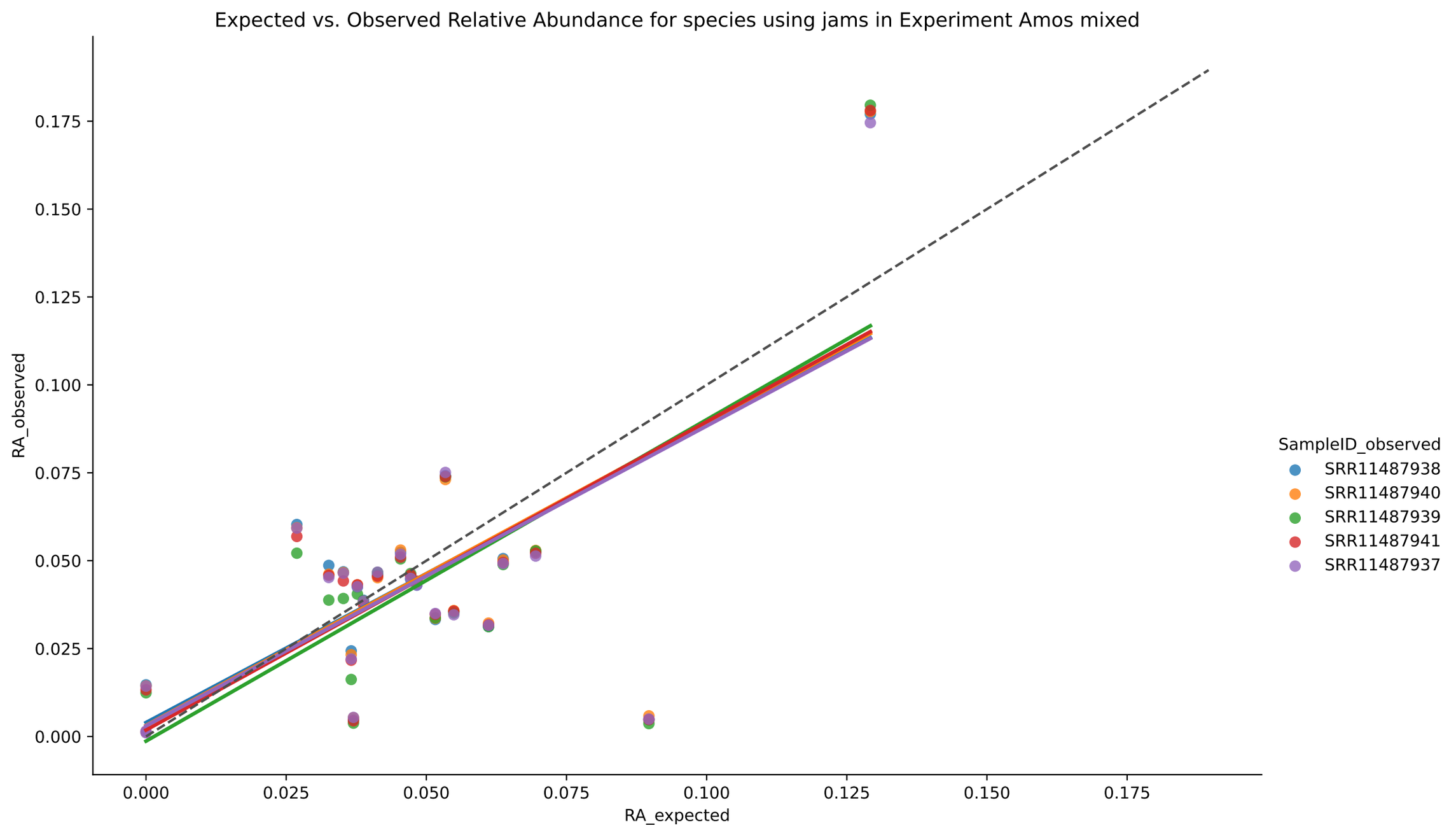
r² = 0.6550 for SRR11487937	MAE = 0.0192 for SRR11487937	Aitchison = 3.7911 for SRR11487937
r² = 0.6400 for SRR11487938	MAE = 0.0201 for SRR11487938	Aitchison = 3.7296 for SRR11487938
r² = 0.6384 for SRR11487939	MAE = 0.0201 for SRR11487939	Aitchison = 3.7474 for SRR11487939
r² = 0.6555 for SRR11487940	MAE = 0.0192 for SRR11487940	Aitchison = 3.7814 for SRR11487940
r² = 0.6385 for SRR11487941	MAE = 0.0201 for SRR11487941	Aitchison = 3.7586 for SRR11487941



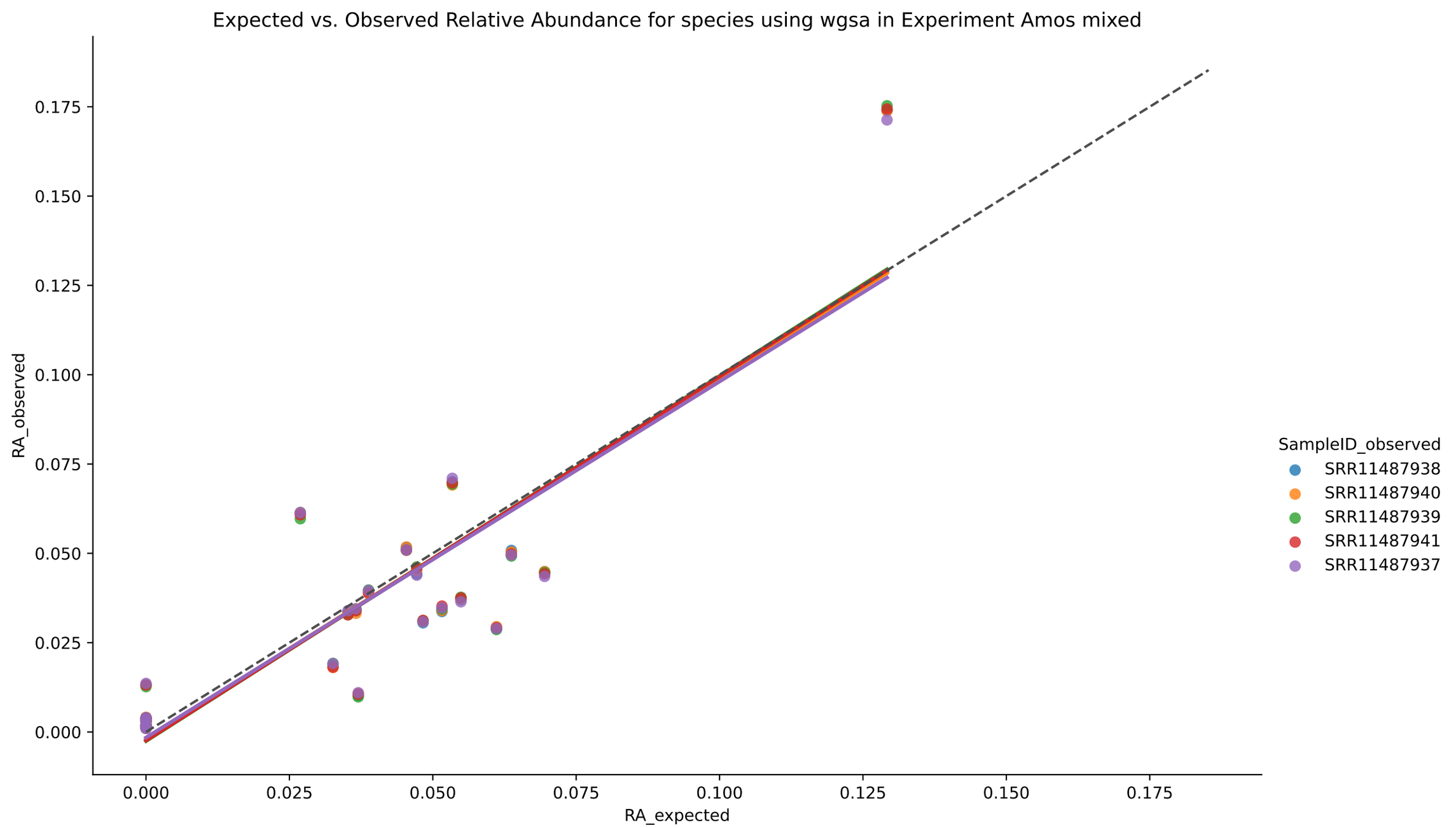
r^2 = 0.3340 for SRR11487937	MAE = 0.0245 for SRR11487937	Aitchison = 4.3509 for SRR11487937
r^2 = 0.3278 for SRR11487938	MAE = 0.0248 for SRR11487938	Aitchison = 4.3792 for SRR11487938
r^2 = 0.3351 for SRR11487939	MAE = 0.0244 for SRR11487939	Aitchison = 4.3672 for SRR11487939
r^2 = 0.3296 for SRR11487940	MAE = 0.0248 for SRR11487940	Aitchison = 4.3630 for SRR11487940
r^2 = 0.3321 for SRR11487941	MAE = 0.0246 for SRR11487941	Aitchison = 4.3621 for SRR11487941



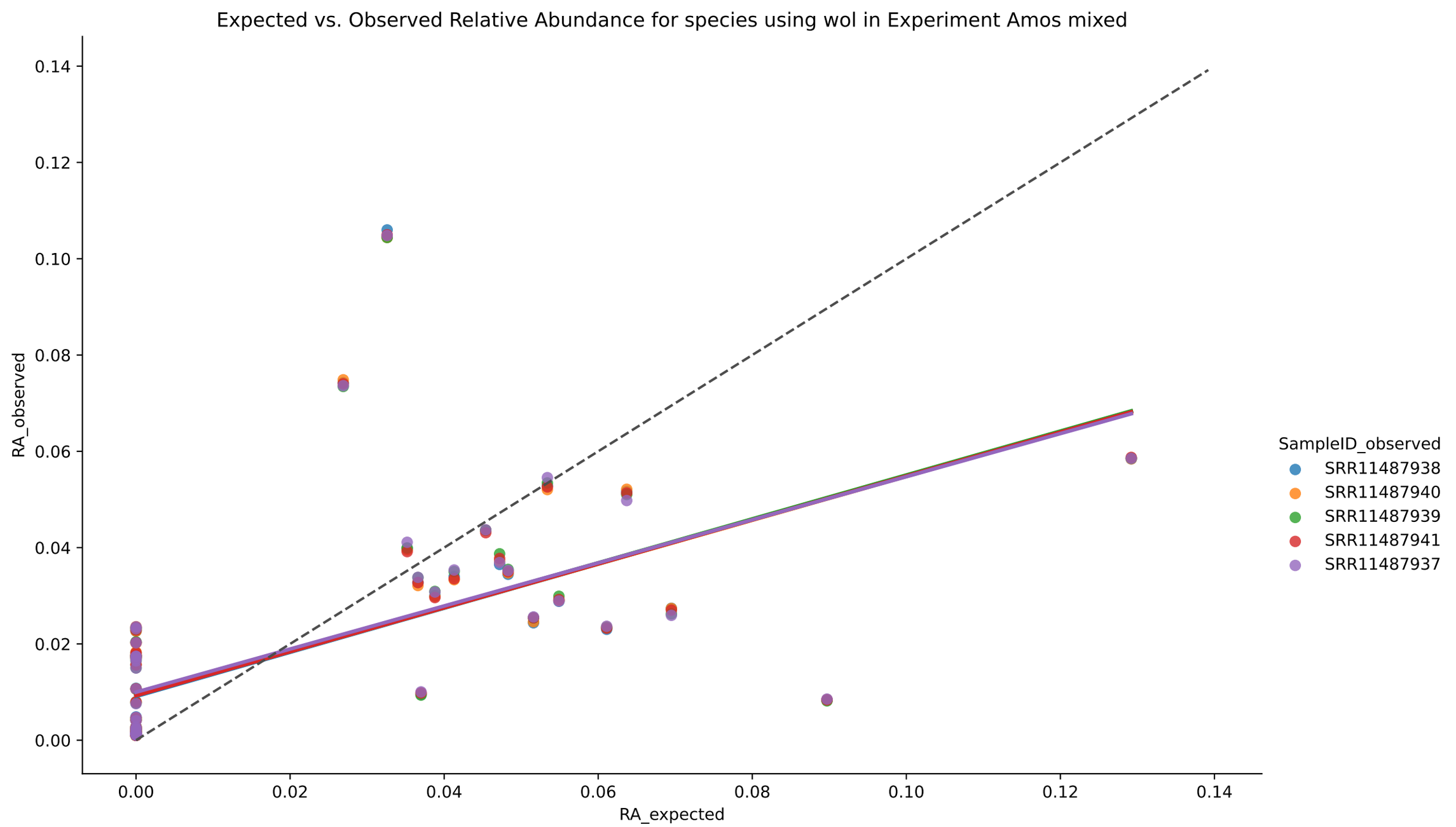
r^2 = 0.2953 for SRR11487937	MAE = 0.0220 for SRR11487937	Aitchison = 4.3151 for SRR11487937
r^2 = 0.3349 for SRR11487938	MAE = 0.0225 for SRR11487938	Aitchison = 5.4694 for SRR11487938
r^2 = 0.2902 for SRR11487939	MAE = 0.0216 for SRR11487939	Aitchison = 4.3596 for SRR11487939
r^2 = 0.3187 for SRR11487940	MAE = 0.0208 for SRR11487940	Aitchison = 4.1689 for SRR11487940
r^2 = 0.3282 for SRR11487941	MAE = 0.0213 for SRR11487941	Aitchison = 4.1996 for SRR11487941



r² = 0.4748 for SRR11487937	MAE = 0.0179 for SRR11487937	Aitchison = 4.2221 for SRR11487937
r² = 0.3898 for SRR11487938	MAE = 0.0198 for SRR11487938	Aitchison = 4.1941 for SRR11487938
r² = 0.4313 for SRR11487939	MAE = 0.0188 for SRR11487939	Aitchison = 4.3711 for SRR11487939
r² = 0.4043 for SRR11487940	MAE = 0.0194 for SRR11487940	Aitchison = 3.9960 for SRR11487940
r² = 0.4526 for SRR11487941	MAE = 0.0185 for SRR11487941	Aitchison = 4.2151 for SRR11487941



r² = 0.7602 for SRR11487937	MAE = 0.0126 for SRR11487937	Aitchison = 3.3944 for SRR11487937
r² = 0.7525 for SRR11487938	MAE = 0.0132 for SRR11487938	Aitchison = 3.2798 for SRR11487938
r² = 0.7560 for SRR11487939	MAE = 0.0130 for SRR11487939	Aitchison = 3.2503 for SRR11487939
r² = 0.7626 for SRR11487940	MAE = 0.0126 for SRR11487940	Aitchison = 3.4008 for SRR11487940
r² = 0.7559 for SRR11487941	MAE = 0.0130 for SRR11487941	Aitchison = 3.2545 for SRR11487941



r² = 0.3644 for SRR11487937	MAE = 0.0140 for SRR11487937	Aitchison = 11.1613 for SRR11487937
r² = 0.3751 for SRR11487938	MAE = 0.0132 for SRR11487938	Aitchison = 11.6754 for SRR11487938
r² = 0.3758 for SRR11487939	MAE = 0.0134 for SRR11487939	Aitchison = 11.3952 for SRR11487939
r² = 0.3749 for SRR11487940	MAE = 0.0134 for SRR11487940	Aitchison = 11.5610 for SRR11487940
r² = 0.3762 for SRR11487941	MAE = 0.0134 for SRR11487941	Aitchison = 11.5483 for SRR11487941