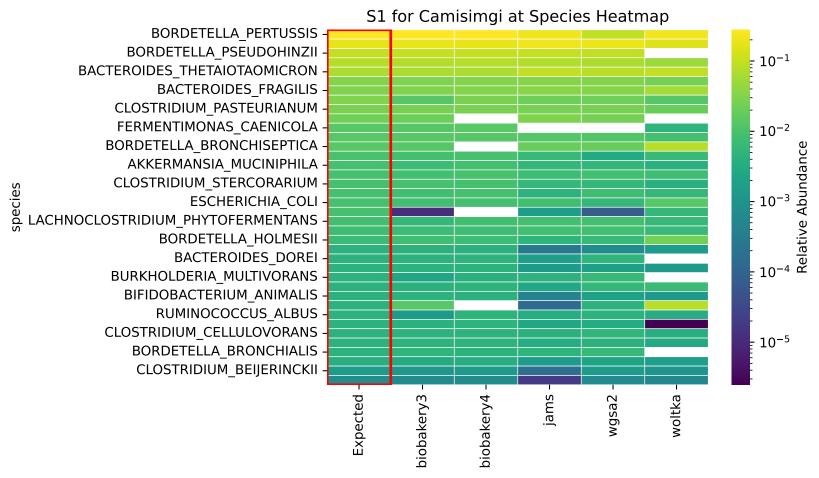


S1 for Camisimgi at Genus Heatmap **BORDETELLA** -**CLOSTRIDIUM -** 10^{-1} **BACTEROIDES -BACTEROIDES -**FERMENTIMONAS - 10^{-2} **CLOSTRIDIUM -**Positive Abundance **ESCHERICHIA** -AKKERMANSIA genus **EUBACTERIUM -**LACHNOCLOSTRIDIUM -ACHROMOBACTER -ODORIBACTER -**BURKHOLDERIA** -BIFIDOBACTERIUM -**ERYSIPELOTHRIX** - 10^{-6} **BUTYRIVIBRIO** -**RUMINOCOCCUS** -CELLULOSILYTICUM - 10^{-7} wgsa2 jams Expected oiobakery3 oiobakery4 woltka

S2 for Camisimgi at Genus Heatmap **BORDETELLA** 10^{-1} CLOSTRIDIUM ACHROMOBACTER - 10^{-2} ROSEBURIA -0 5 6 7 8 Relative Abundance BACTEROIDES **BACTEROIDES** genus **RUMINICLOSTRIDIUM -**PARABACTEROIDES -**CLOSTRIDIUM -DESULFOVIBRIO** - 10^{-6} **BUTYRIVIBRIO** -PARABACTEROIDES - 10^{-7} jams wgsa2 Expected biobakery3 woltka biobakery4



S2 for Camisimgi at Species Heatmap **BORDETELLA PERTUSSIS -**ACHROMOBACTER XYLOSOXIDANS CLOSTRIDIUM BOTULINUM - 10^{-1} ROSEBURIA HOMINIS -CLOSTRIDIUM PERFRINGENS -BACTEROIDES FRAGILIS -CLOSTRIDIUM SCATOLOGENES - 10^{-2} BACTEROIDES THETAIOTAOMICRON -BACTEROIDES DOREI -CLOSTRIDIUM CELLULOVORANS -CLOSTRIDIUM BUTYRICUM -10⁻³ € 10-4 c RUMINICLOSTRIDIUM_THERMOCELLUM -CLOSTRIDIUM_ACETICUM -PARABACTEROIDES DISTASONIS -BUTYRIVIBRIO HUNGATEI -DESULFOVIBRIO AFRICANUS -CLOSTRIDIUM PASTEURIANUM -CLOSTRIDIUM STERCORARIUM -CLOSTRIDIUM SACCHAROBUTYLICUM - 10^{-5} CLOSTRIDIUM SPOROGENES -PARABACTEROIDES_SP._YL27 wgsa2 woltka oiobakery3

SRR17380241 for Tourlousse at Genus Heatmap **BIFIDOBACTERIUM -**STREPTOCOCCUS - 10^{-1} COLLINSELLA -AKKERMANSIA -ESCHERICHIA -RUMINOCOCCUS -Relative Abundance ANAEROSTIPES -**ENTEROCLOSTER -**BACILLUS genus CUTIBACTERIUM -STAPHYLOCOCCUS -PARABACTEROIDES -MEGASPHAERA -**BACTEROIDES -**BLAUTIA -PSEUDOMONAS -**MEGAMONAS** - 10^{-2} FLAVONIFRACTOR -LACTOBACILLUS wgsa2 jams Expected oiobakery3 oiobakery4 woltka

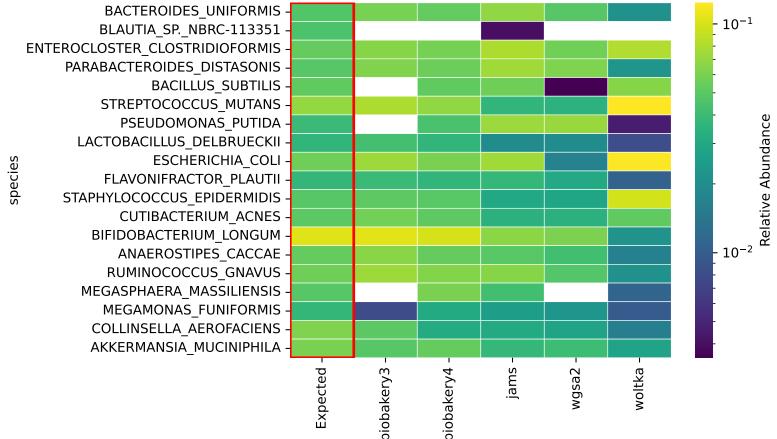
SRR17380242 for Tourlousse at Genus Heatmap **BIFIDOBACTERIUM -**STREPTOCOCCUS - 10^{-1} COLLINSELLA -AKKERMANSIA -ESCHERICHIA -RUMINOCOCCUS -Relative Abundance ANAEROSTIPES -ENTEROCLOSTER -**BACILLUS** genus CUTIBACTERIUM -STAPHYLOCOCCUS -PARABACTEROIDES -MEGASPHAERA -**BACTEROIDES -**BLAUTIA -PSEUDOMONAS -**MEGAMONAS** - 10^{-2} FLAVONIFRACTOR -LACTOBACILLUS wgsa2 jams Expected oiobakery3 oiobakery4 woltka

SRR17380243 for Tourlousse at Genus Heatmap **BIFIDOBACTERIUM -**STREPTOCOCCUS - 10^{-1} COLLINSELLA -AKKERMANSIA -ESCHERICHIA -RUMINOCOCCUS -Relative Abundance ANAEROSTIPES -ENTEROCLOSTER -**BACILLUS** genus CUTIBACTERIUM -STAPHYLOCOCCUS -PARABACTEROIDES -MEGASPHAERA -**BACTEROIDES -**BLAUTIA -PSEUDOMONAS -**MEGAMONAS** - 10^{-2} FLAVONIFRACTOR -LACTOBACILLUS wgsa2 jams Expected oiobakery3 oiobakery4 woltka

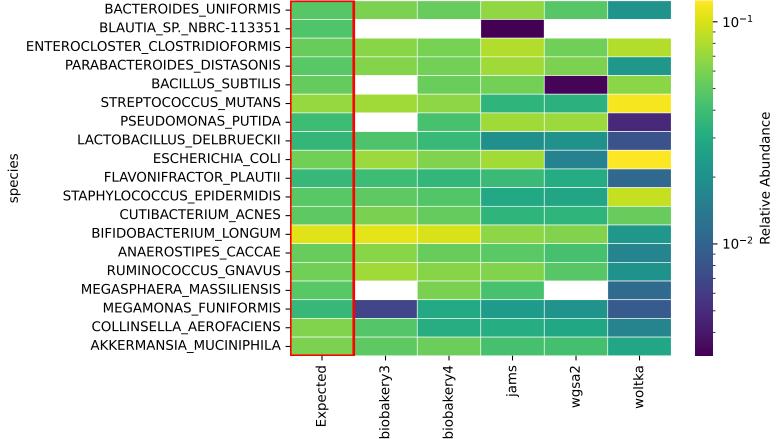
SRR17380244 for Tourlousse at Genus Heatmap **BIFIDOBACTERIUM -**STREPTOCOCCUS - 10^{-1} COLLINSELLA -AKKERMANSIA -ESCHERICHIA -RUMINOCOCCUS -Relative Abundance ANAEROSTIPES -ENTEROCLOSTER -**BACILLUS** genus CUTIBACTERIUM -STAPHYLOCOCCUS -PARABACTEROIDES -MEGASPHAERA -**BACTEROIDES -**BLAUTIA -PSEUDOMONAS -**MEGAMONAS** - 10^{-2} FLAVONIFRACTOR -LACTOBACILLUS wgsa2 jams Expected oiobakery3 oiobakery4 woltka

SRR17380245 for Tourlousse at Genus Heatmap **BIFIDOBACTERIUM -**STREPTOCOCCUS - 10^{-1} COLLINSELLA -AKKERMANSIA -ESCHERICHIA -**RUMINOCOCCUS -**Relative Abundance ANAEROSTIPES -**ENTEROCLOSTER -**BACILLUS genus CUTIBACTERIUM -STAPHYLOCOCCUS -PARABACTEROIDES -MEGASPHAERA -**BACTEROIDES -**BLAUTIA -PSEUDOMONAS -**MEGAMONAS** - 10^{-2} FLAVONIFRACTOR -LACTOBACILLUS wgsa2 jams Expected oiobakery3 oiobakery4 woltka

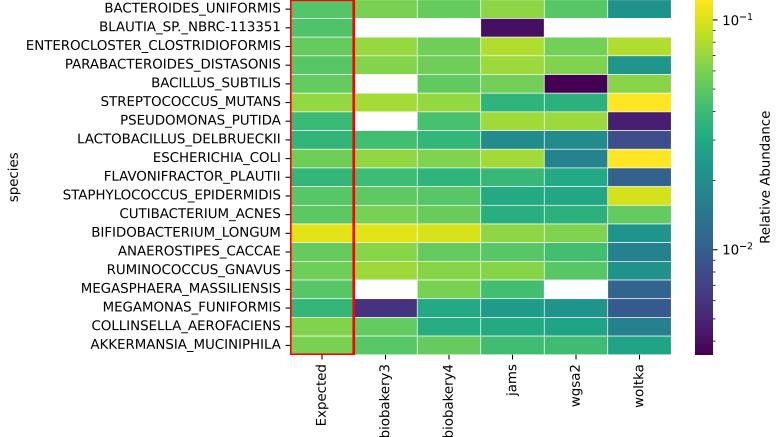
SRR17380246 for Tourlousse at Genus Heatmap **BIFIDOBACTERIUM -**STREPTOCOCCUS - 10^{-1} COLLINSELLA -AKKERMANSIA -ESCHERICHIA -RUMINOCOCCUS -Relative Abundance ANAEROSTIPES -**ENTEROCLOSTER -BACILLUS** genus CUTIBACTERIUM -STAPHYLOCOCCUS -PARABACTEROIDES -MEGASPHAERA -**BACTEROIDES -**BLAUTIA -PSEUDOMONAS -**MEGAMONAS** - 10^{-2} FLAVONIFRACTOR -LACTOBACILLUS wgsa2 jams Expected oiobakery3 oiobakery4 woltka

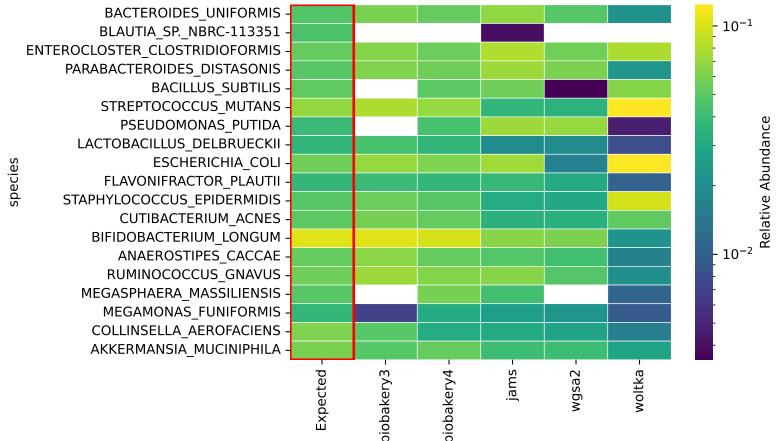


SRR17380242 for Tourlousse at Species Heatmap

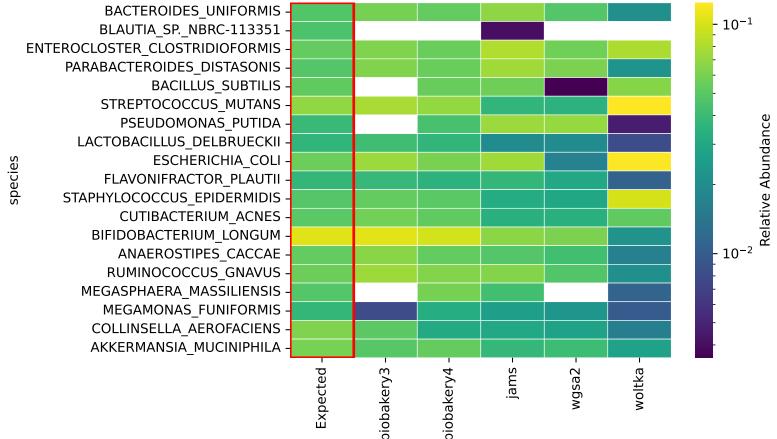


SRR17380243 for Tourlousse at Species Heatmap

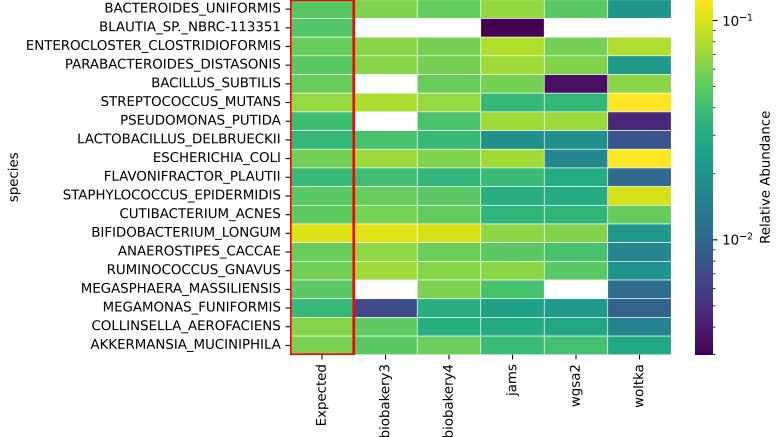




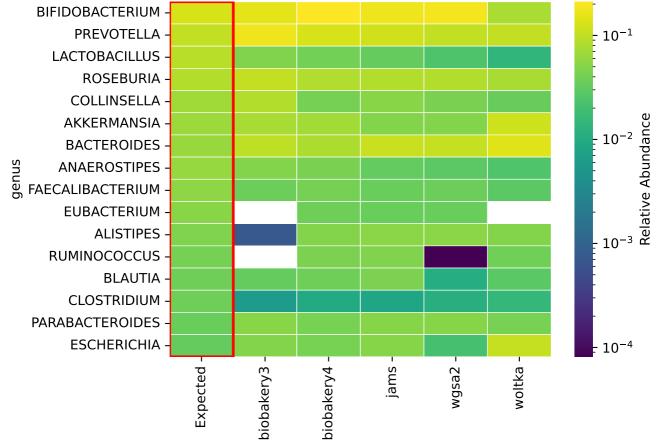
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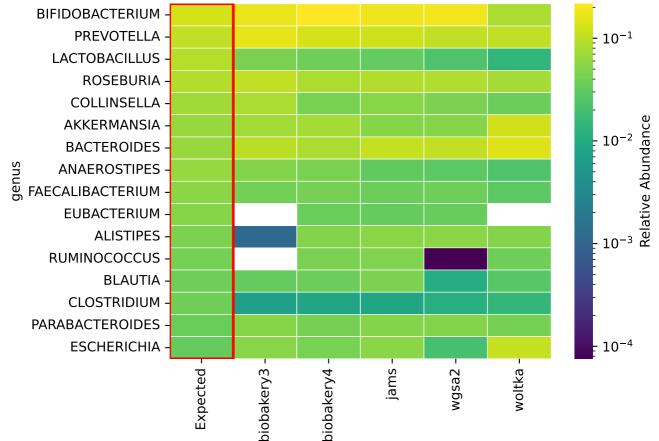
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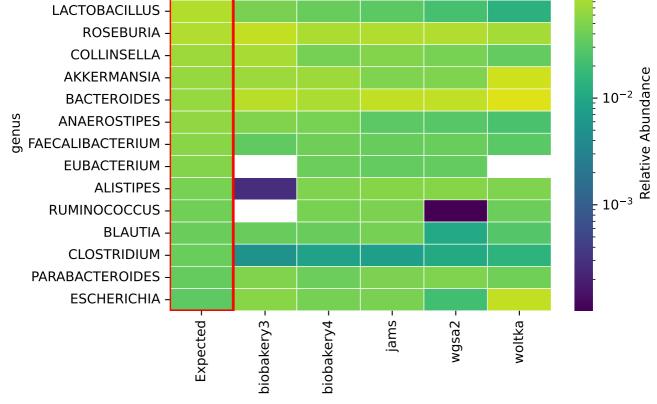
SRR11487937 for Mixed at Genus Heatmap
BIFIDOBACTERIUM -



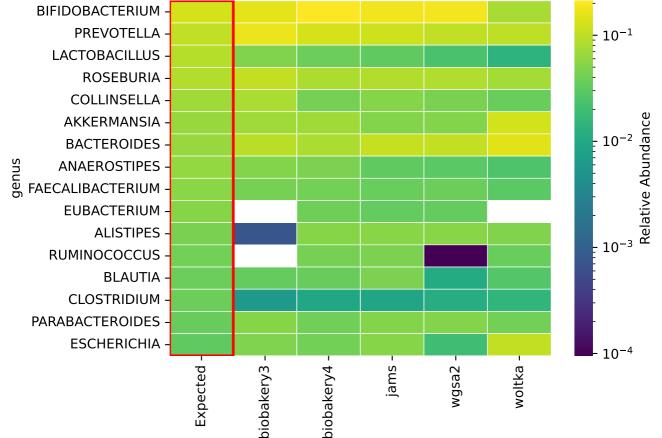
SRR11487938 for Mixed at Genus Heatmap **BIFIDOBACTERIUM** -



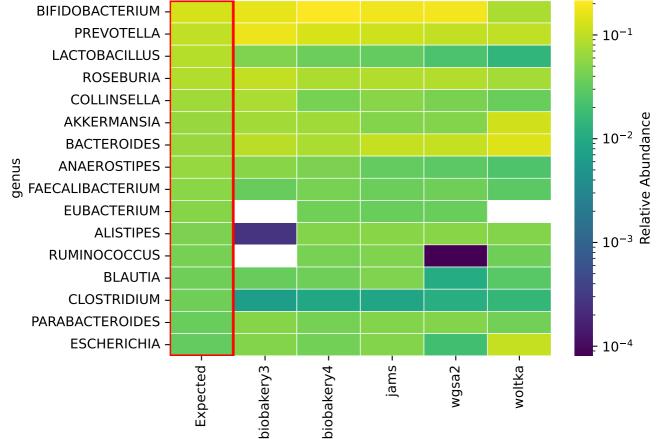
SRR11487939 for Mixed at Genus Heatmap **BIFIDOBACTERIUM** -PREVOTELLA - 10^{-1} LACTOBACILLUS -**ROSEBURIA** -COLLINSELLA -Relative Abundance AKKERMANSIA - 10^{-2} **BACTEROIDES** genus ANAEROSTIPES -FAECALIBACTERIUM -**EUBACTERIUM -**ALISTIPES -10⁻³



SRR11487940 for Mixed at Genus Heatmap



SRR11487941 for Mixed at Genus Heatmap
BIFIDOBACTERIUM -



SRR11487937 for Mixed at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES_FINEGOLDII -ANAEROSTIPES HADRUS - 10^{-1} BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -BLAUTIA WEXLERAE -CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -ESCHERICHIA COLI -- 10⁻² EUBACTERIUM HALLII -Relative FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI -PREVOTELLA MELANINOGENICA -ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS - 10^{-3} RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

SRR11487938 for Mixed at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES_FINEGOLDII -ANAEROSTIPES HADRUS - 10^{-1} BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -**Abundance** BLAUTIA_WEXLERAE -CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -ESCHERICHIA COLI -EUBACTERIUM HALLII - 10^{-2} Relative FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI -PREVOTELLA MELANINOGENICA -ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS -RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

SRR11487939 for Mixed at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES_FINEGOLDII - 10^{-1} ANAEROSTIPES HADRUS -BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -Relative Abundance BLAUTIA WEXLERAE -CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS - 10^{-2} ESCHERICHIA COLI -EUBACTERIUM HALLII -FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI - 10^{-3} PREVOTELLA MELANINOGENICA -ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS -RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

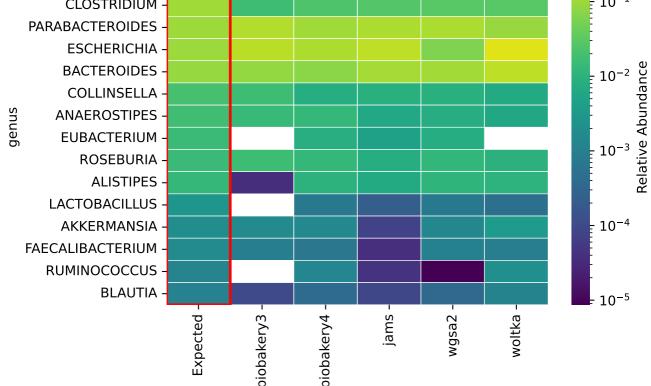
SRR11487940 for Mixed at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES_FINEGOLDII -ANAEROSTIPES HADRUS - 10^{-1} BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -Abundance BLAUTIA_WEXLERAE -CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -ESCHERICHIA COLI - 10^{-2} EUBACTERIUM HALLII -Relative FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI -PREVOTELLA MELANINOGENICA -ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS - 10^{-3} RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

SRR11487941 for Mixed at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES_FINEGOLDII - 10^{-1} ANAEROSTIPES HADRUS -BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -Relative Abundance BLAUTIA WEXLERAE -CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS - 10^{-2} ESCHERICHIA COLI -EUBACTERIUM HALLII -FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI - 10^{-3} PREVOTELLA MELANINOGENICA -ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS -RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

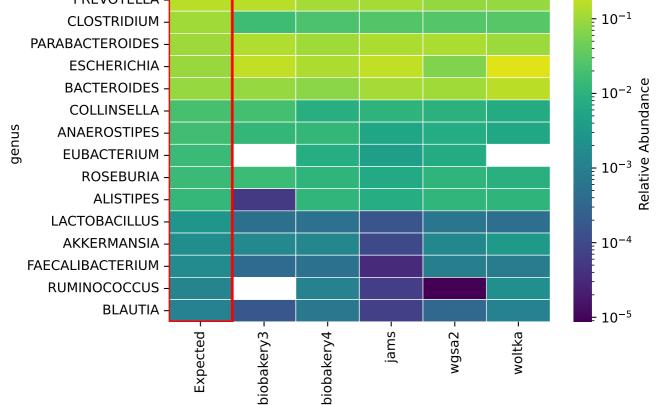
SRR11487931 for Hilo at Genus Heatmap **BIFIDOBACTERIUM** -PREVOTELLA -**CLOSTRIDIUM -** 10^{-1} PARABACTEROIDES -ESCHERICHIA -Relative Abundance **BACTEROIDES -**10-2 COLLINSELLA genus ANAEROSTIPES -**EUBACTERIUM -**10⁻³ ROSEBURIA -**ALISTIPES -**LACTOBACILLUS -AKKERMANSIA - 10^{-4} FAECALIBACTERIUM -**RUMINOCOCCUS -**BLAUTIA jams wgsa2 Expected oiobakery3 woltka biobakery4

SRR11487932 for Hilo at Genus Heatmap **BIFIDOBACTERIUM** -PREVOTELLA - 10^{-1} **CLOSTRIDIUM -**PARABACTEROIDES -ESCHERICHIA -Relative Abundance **BACTEROIDES -** 10^{-2} **COLLINSELLA**genus ANAEROSTIPES -**EUBACTERIUM -**10⁻³ ROSEBURIA -**ALISTIPES -**LACTOBACILLUS -AKKERMANSIA - 10^{-4} FAECALIBACTERIUM -**RUMINOCOCCUS -**BLAUTIA wgsa2 jams Expected woltka oiobakery3 biobakery4

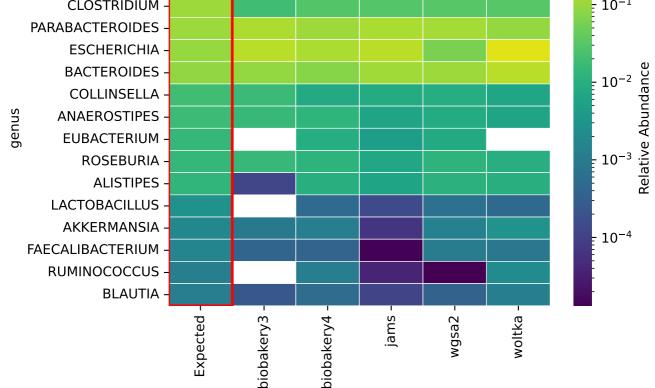
SRR11487933 for Hilo at Genus Heatmap **BIFIDOBACTERIUM** -PREVOTELLA - 10^{-1} **CLOSTRIDIUM -**PARABACTEROIDES -ESCHERICHIA -**BACTEROIDES -** 10^{-2} **COLLINSELLA**genus ANAEROSTIPES -**EUBACTERIUM -** 10^{-3}



SRR11487934 for Hilo at Genus Heatmap **BIFIDOBACTERIUM** -PREVOTELLA - 10^{-1} **CLOSTRIDIUM -**PARABACTEROIDES -ESCHERICHIA -Relative Abundance **BACTEROIDES -** 10^{-2} **COLLINSELLA**genus ANAEROSTIPES -**EUBACTERIUM -**10⁻³ ROSEBURIA -**ALISTIPES -**LACTOBACILLUS -



SRR11487935 for Hilo at Genus Heatmap **BIFIDOBACTERIUM** -PREVOTELLA - 10^{-1} **CLOSTRIDIUM -**PARABACTEROIDES -ESCHERICHIA -**BACTEROIDES -**10-2 **COLLINSELLA-**ANAEROSTIPES -



SRR11487931 for Hilo at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES FINEGOLDII -ANAEROSTIPES HADRUS - 10^{-1} BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM - 10^{-2} BLAUTIA WEXLERAE -CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -ESCHERICHIA COLI -· 10⁻³ Relative EUBACTERIUM HALLII -FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS - 10^{-4} PREVOTELLA COPRI -PREVOTELLA MELANINOGENICA -ROSEBURIA_HOMINIS -ROSEBURIA INTESTINALIS -**├** 10⁻⁵ RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

SRR11487932 for Hilo at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES FINEGOLDII - 10^{-1} ANAEROSTIPES HADRUS -BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM - 10^{-2} BLAUTIA WEXLERAE -CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -- 10⁻³ ESCHERICHIA COLI -EUBACTERIUM HALLII -FAECALIBACTERIUM PRAUSNITZII - 10^{-4} LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI -PREVOTELLA MELANINOGENICA - 10^{-5} ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS -RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

SRR11487933 for Hilo at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES FINEGOLDII -ANAEROSTIPES HADRUS - 10^{-1} BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -BLAUTIA WEXLERAE -Abundance 10^{-2} CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -ESCHERICHIA COLI -EUBACTERIUM HALLII -Relative 10^{-3} FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI - 10^{-4} PREVOTELLA MELANINOGENICA -ROSEBURIA_HOMINIS -ROSEBURIA INTESTINALIS -RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

SRR11487934 for Hilo at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES FINEGOLDII -ANAEROSTIPES HADRUS - 10^{-1} BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -Relative Abundance BLAUTIA WEXLERAE - 10^{-2} CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -ESCHERICHIA COLI -EUBACTERIUM HALLII -FAECALIBACTERIUM PRAUSNITZII -10-3 LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI -PREVOTELLA MELANINOGENICA - 10^{-4} ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS -RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

SRR11487935 for Hilo at Species Heatmap AKKERMANSIA_MUCINIPHILA -ALISTIPES FINEGOLDII -ANAEROSTIPES HADRUS - 10^{-1} BACTEROIDES_THETAIOTAOMICRON -BACTEROIDES UNIFORMIS -BIFIDOBACTERIUM LONGUM -BLAUTIA WEXLERAE - 10^{-2} CLOSTRIDIUM BUTYRICUM species COLLINSELLA AEROFACIENS -ESCHERICHIA COLI -EUBACTERIUM HALLII -10-3 Relative FAECALIBACTERIUM PRAUSNITZII -LACTOBACILLUS_GASSERI -PARABACTEROIDES DISTASONIS -PREVOTELLA COPRI - 10^{-4} PREVOTELLA MELANINOGENICA -ROSEBURIA HOMINIS -ROSEBURIA INTESTINALIS - 10^{-5} RUMINOCOCCUS GAUVREAUII wgsa2 Expected jams woltka oiobakery3 oiobakery4

