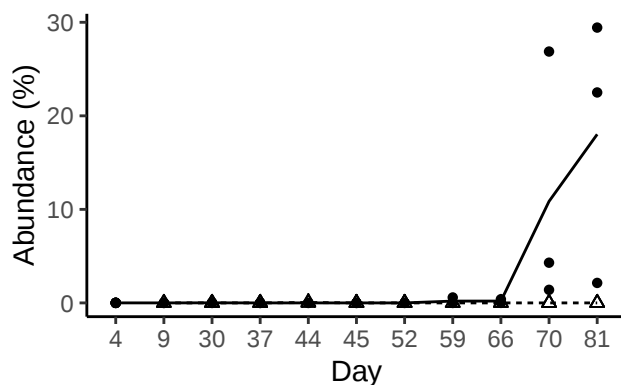


ASV1

Bacteria Proteobacteria Gammaproteobacteria Enterobacterales
Enterobacteriaceae Escherichia/Shigella NA

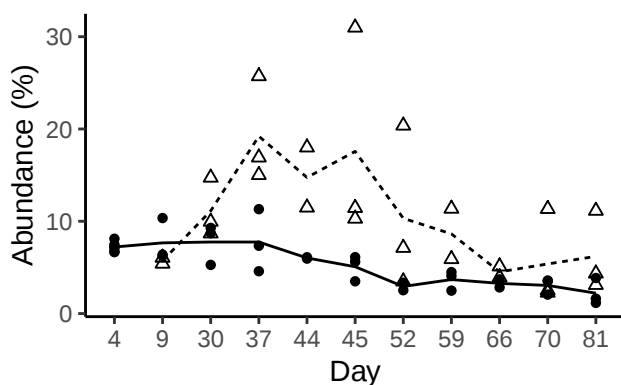
H2Addition ● No -△- Yes



ASV4

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Fermentimonas caenicola

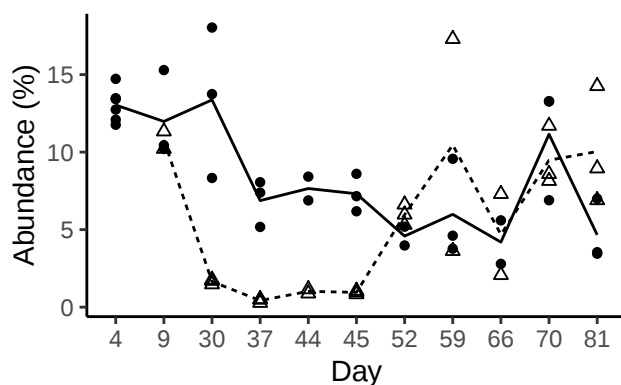
H2Addition ● No -△- Yes



ASV2

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Rikenellaceae DMER64 NA

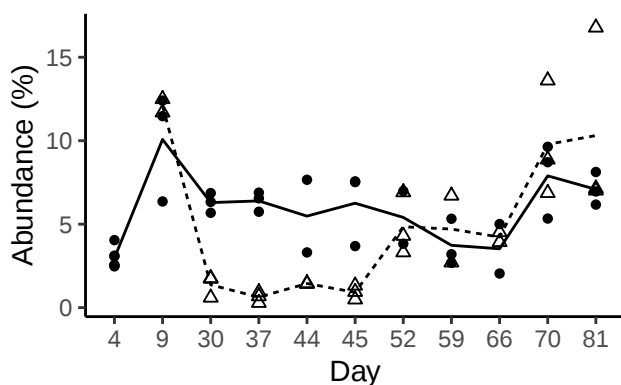
H2Addition ● No -△- Yes



ASV5

Bacteria Cloacimonetes Cloacimonadia Cloacimonadales
Cloacimonadaceae Candidatus_Cloacimonas NA

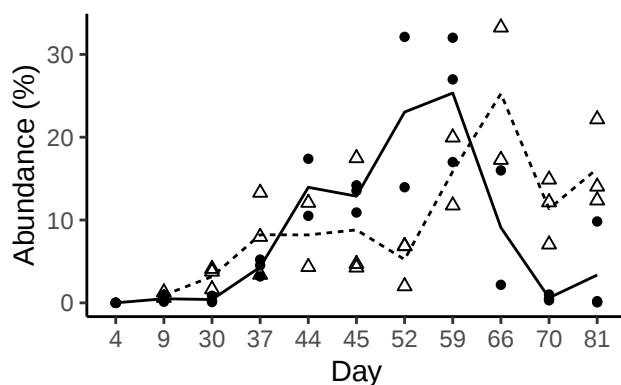
H2Addition ● No -△- Yes



ASV3

Bacteria Firmicutes Bacilli Lactobacillales
Carnobacteriaceae Trichococcus NA

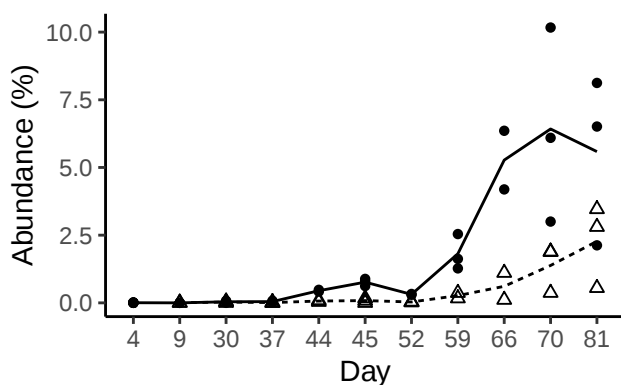
H2Addition ● No -△- Yes



ASV6

Bacteria Spirochaetes Spirochaetia Spirochaetales
Spirochaetaceae NA NA

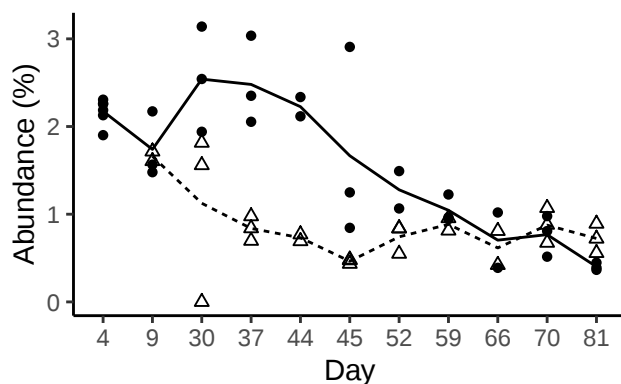
H2Addition ● No -△- Yes



ASV7

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Fastidiosipila NA

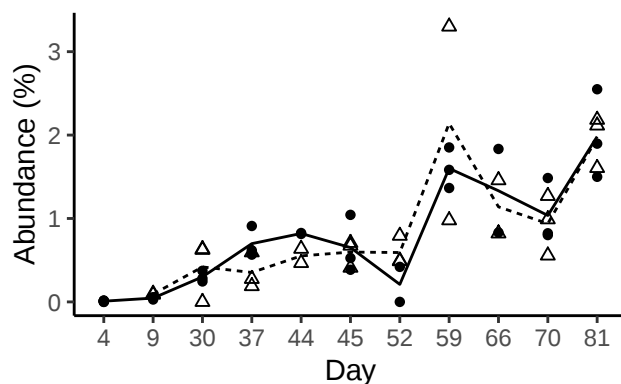
H2Addition ● No -▲- Yes



ASV10

Archaea Euryarchaeota Methanomicrobia Methanosarcinales
Methanosaetaceae Methanosaeta NA

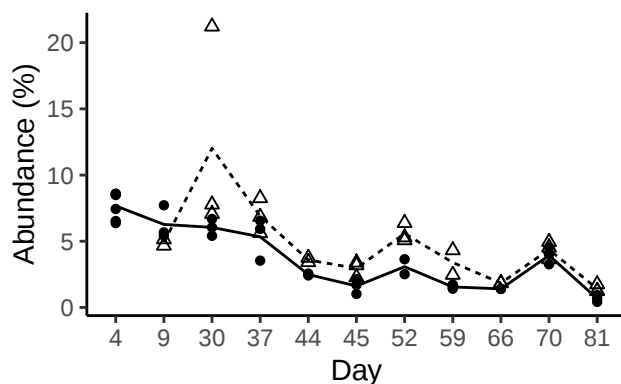
H2Addition ● No -▲- Yes



ASV8

Bacteria Firmicutes Clostridia Clostridiales
Family_XI Sedimentibacter NA

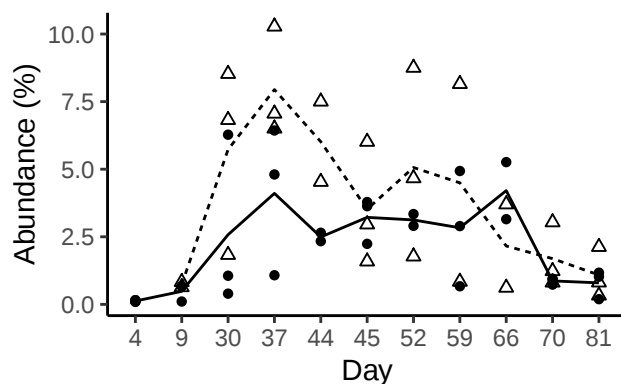
H2Addition ● No -▲- Yes



ASV11

Bacteria Chloroflexi Anaerolineae Anaerolineales
Anaerolineaceae NA NA

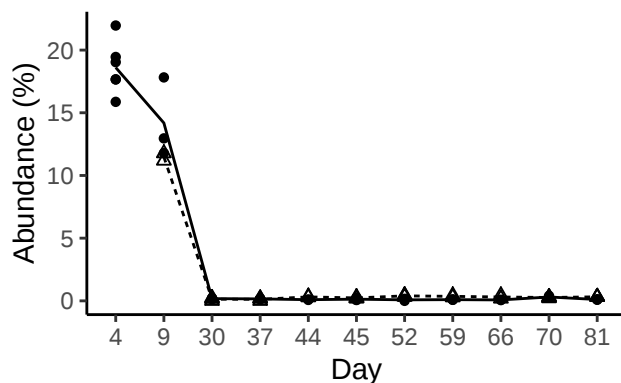
H2Addition ● No -▲- Yes



ASV9

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Rikenellaceae Rikenellaceae_RC9_gut_group NA

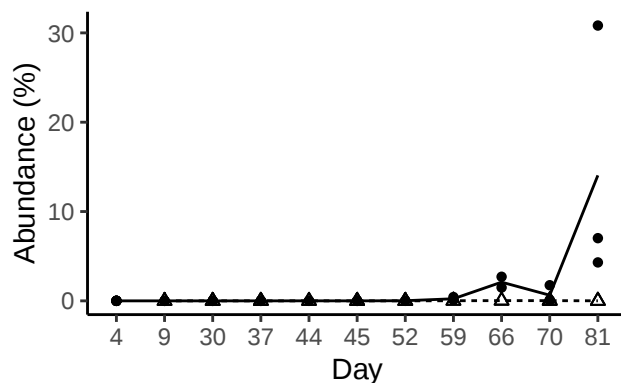
H2Addition ● No -▲- Yes



ASV12

Bacteria Chloroflexi Anaerolineae Anaerolineales
Anaerolineaceae Pelolinea NA

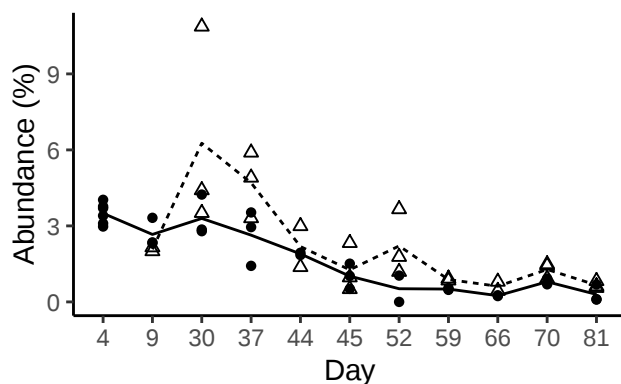
H2Addition ● No -▲- Yes



ASV13

Bacteria Firmicutes Clostridia Clostridiales
Family_XI Sedimentibacter NA

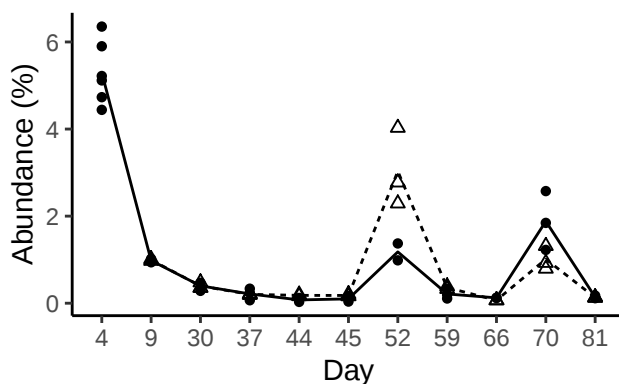
H2Addition —●— No —△— Yes



ASV16

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Bacteroidales_UCG-001 NA NA

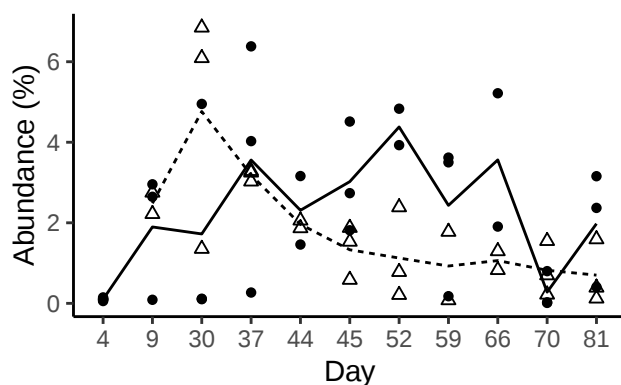
H2Addition —●— No —△— Yes



ASV14

Archaea Euryarchaeota Methanomicrobium Methanosarcinales
Methanosarcinaceae Methanosarcina NA

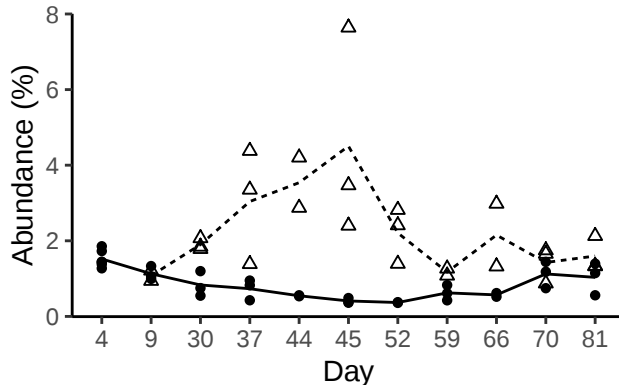
H2Addition —●— No —△— Yes



ASV17

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Petrimonas mucosa

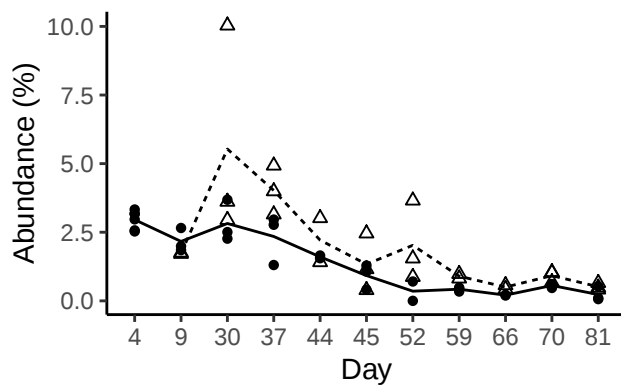
H2Addition —●— No —△— Yes



ASV15

Bacteria Firmicutes Clostridia Clostridiales
Family_XI Sedimentibacter NA

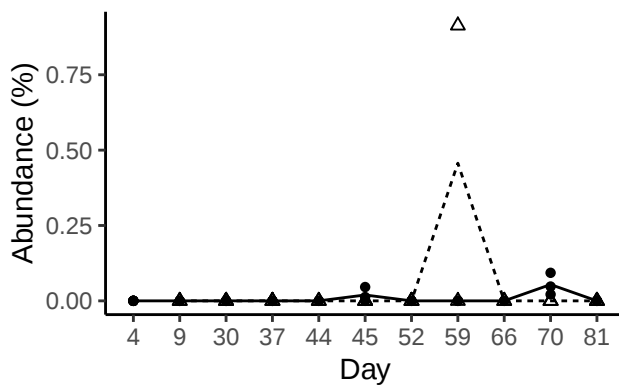
H2Addition —●— No —△— Yes



ASV18

Bacteria Chloroflexi Anaerolineae Anaerolineales
Anaerolineaceae NA NA

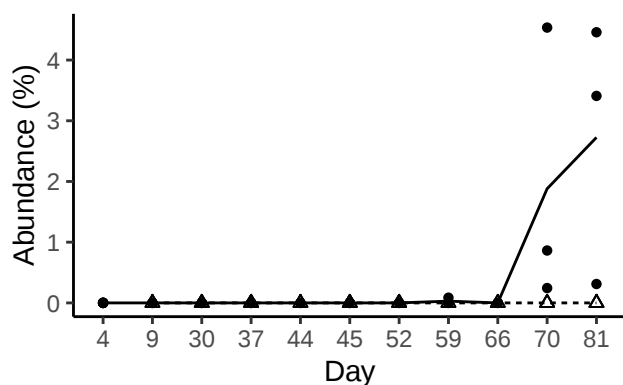
H2Addition —●— No —△— Yes



ASV19

Bacteria Proteobacteria Gammaproteobacteria Enterobacteriales
Enterobacteriaceae Escherichia/Shigella NA

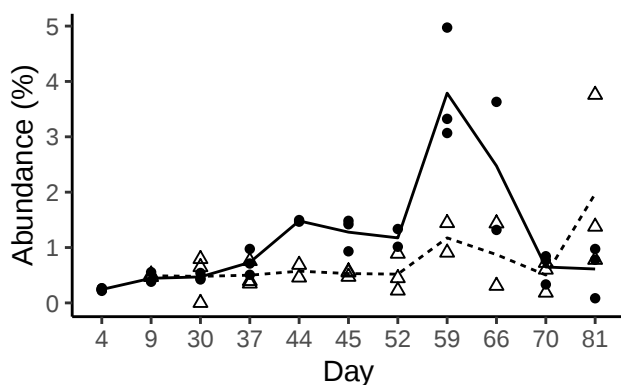
H2Addition —●— No —△— Yes



ASV22

Bacteria Firmicutes Clostridia Clostridiales
Peptococcaceae Pelotomaculum NA

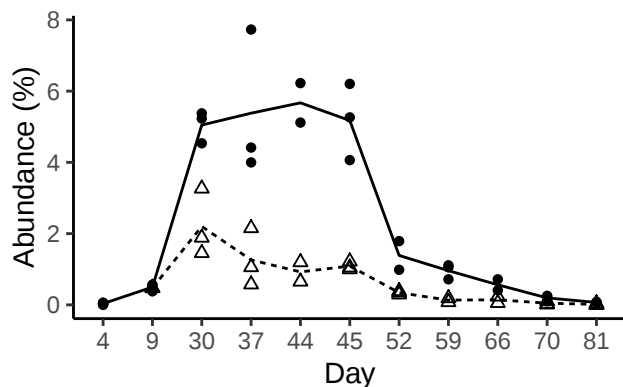
H2Addition —●— No —△— Yes



ASV20

Bacteria Firmicutes Bacilli Lactobacillales
Streptococcaceae Streptococcus henryi

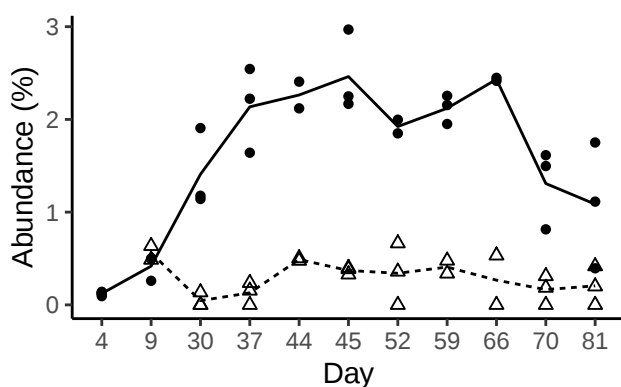
H2Addition —●— No —△— Yes



ASV23

Bacteria Cloacimonetes Cloacimonadia Cloacimonadales
Cloacimonadaceae W5 NA

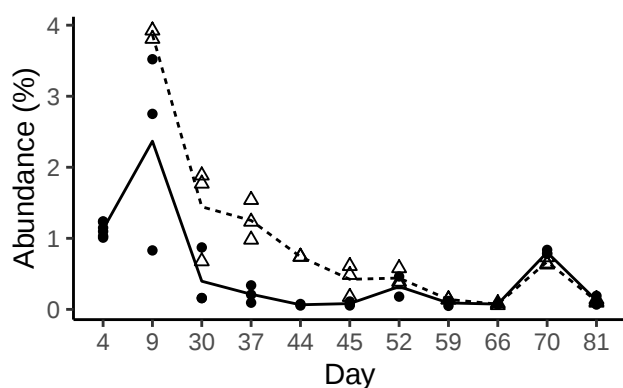
H2Addition —●— No —△— Yes



ASV21

Bacteria Firmicutes Clostridia Clostridiales
Caldicoprobacteraceae Caldicoprobacter NA

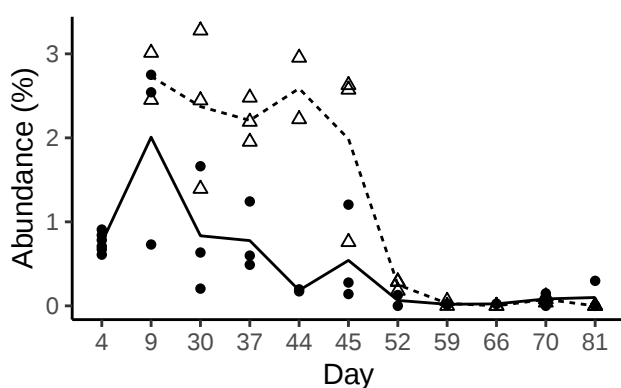
H2Addition —●— No —△— Yes



ASV24

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Ruminoclostridium_1 NA

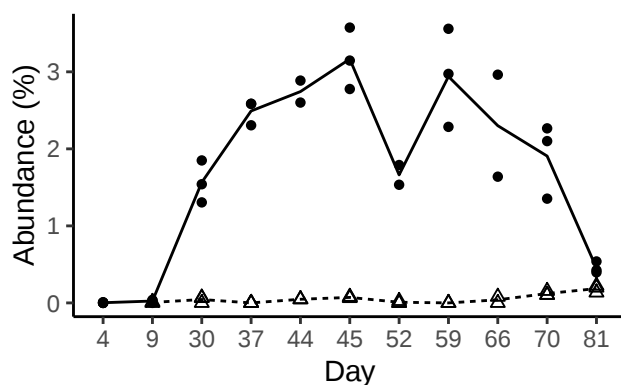
H2Addition —●— No —△— Yes



ASV25

Bacteria Proteobacteria Deltaproteobacteria Syntrophobacterales
Syntrophaceae Smithella NA

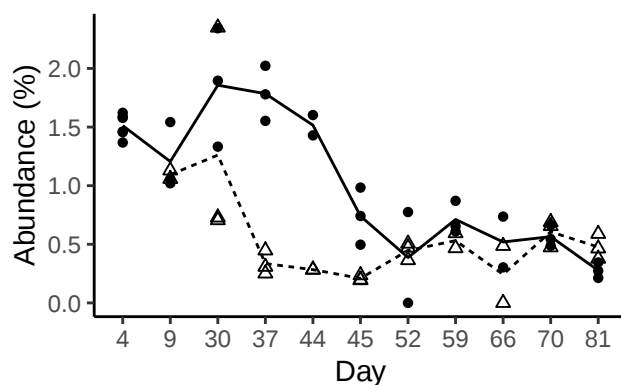
H2Addition —●— No -△- Yes



ASV28

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Fastidiosipila NA

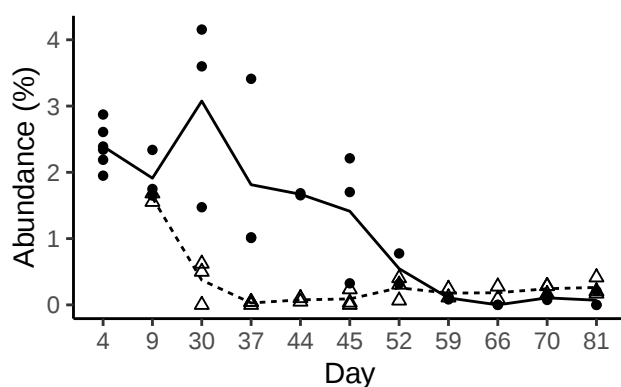
H2Addition —●— No -△- Yes



ASV26

Bacteria Bacteroidetes Bacteroidia Sphingobacteriales
ST-12K33 NA NA

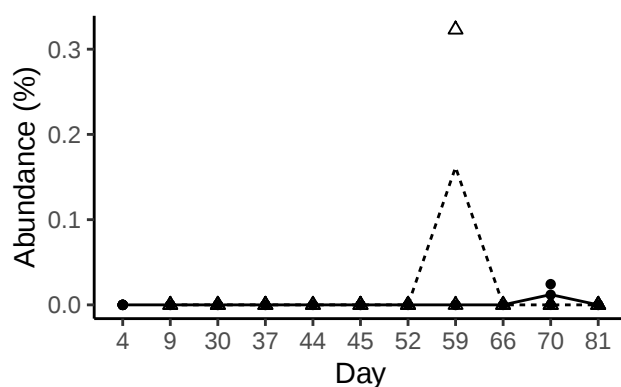
H2Addition —●— No -△- Yes



ASV29

Bacteria Acidobacteria Aminicenantia Aminicenantales
NA NA NA

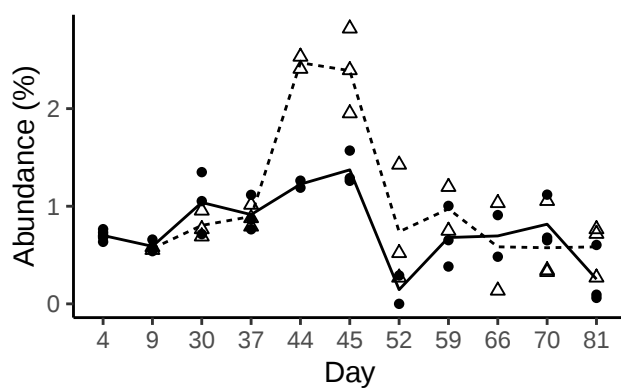
H2Addition —●— No -△- Yes



ASV27

Bacteria Firmicutes Clostridia MBA03
NA NA NA

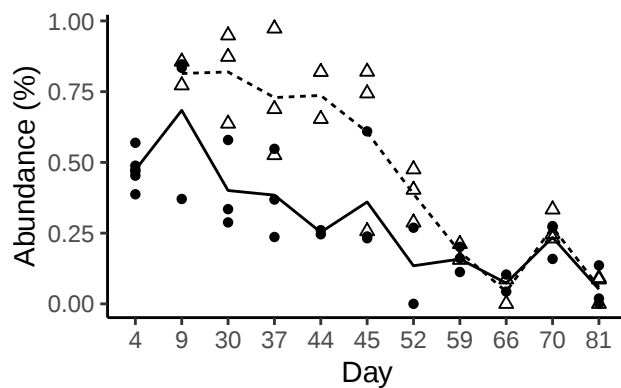
H2Addition —●— No -△- Yes



ASV30

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Ruminiclostridium NA

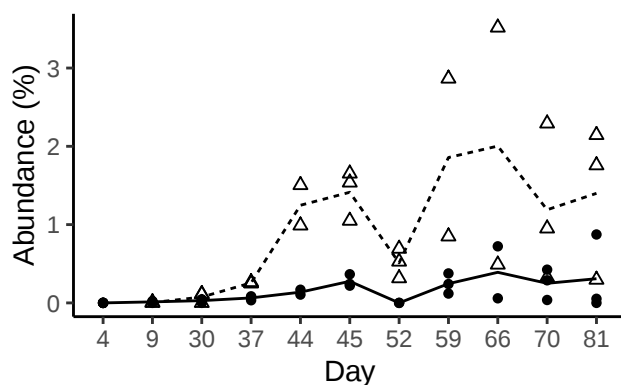
H2Addition —●— No -△- Yes



ASV31

Bacteria Firmicutes Clostridia DTU014
NA NA NA

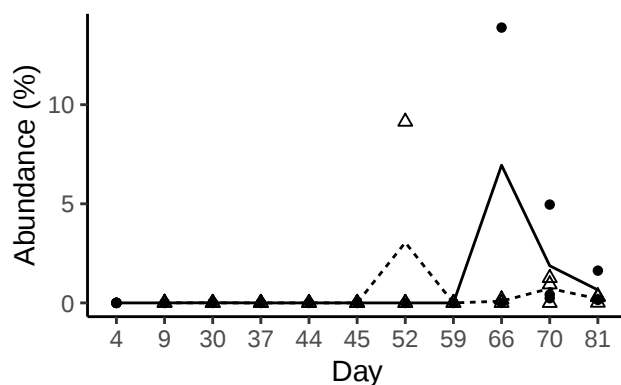
H2Addition —●— No -△- Yes



ASV34

Bacteria Proteobacteria Gammaproteobacteria Enterobacteriales
Enterobacteriaceae Enterobacter NA

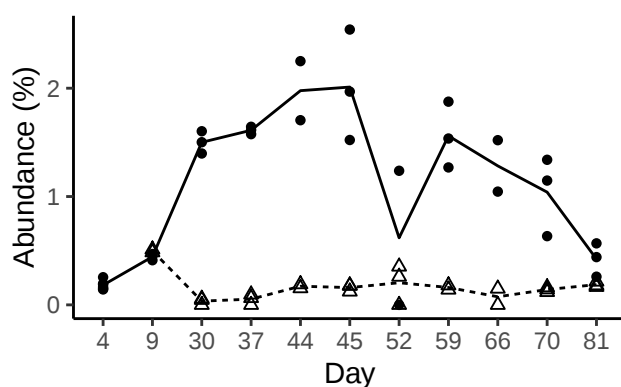
H2Addition —●— No -△- Yes



ASV32

Bacteria Cloacimonetes Cloacimonadia Cloacimonadales
Cloacimonadaceae W5 NA

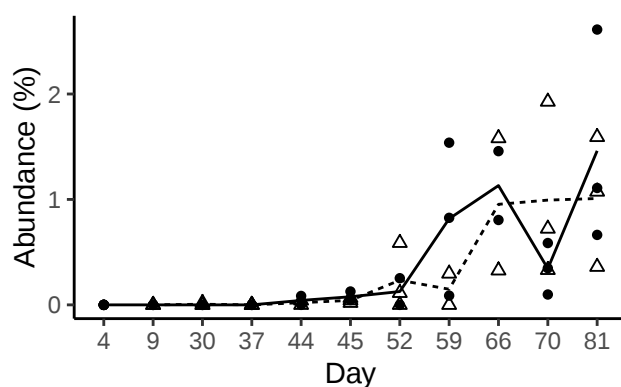
H2Addition —●— No -△- Yes



ASV35

Bacteria Actinobacteria Actinobacteria Propionibacteriales
Propionibacteriaceae NA NA

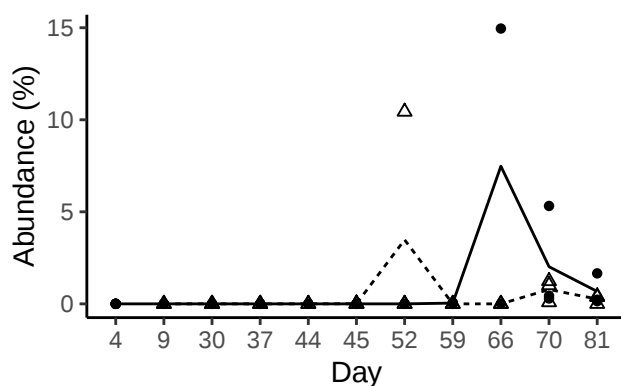
H2Addition —●— No -△- Yes



ASV33

Bacteria Proteobacteria Gammaproteobacteria Enterobacteriales
Enterobacteriaceae Enterobacter NA

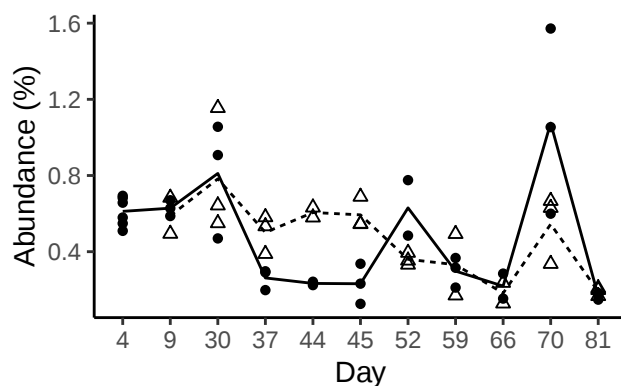
H2Addition —●— No -△- Yes



ASV36

Bacteria Firmicutes Clostridia MBA03
NA NA NA

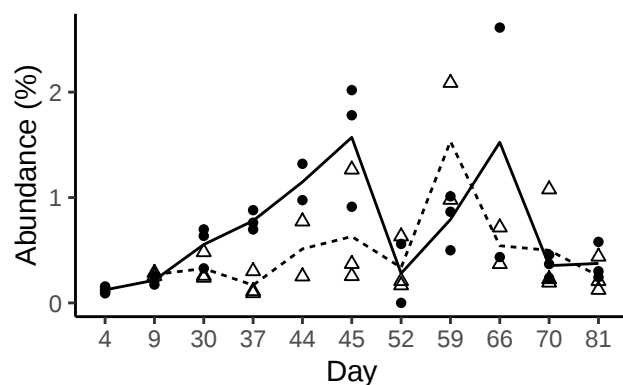
H2Addition —●— No -△- Yes



ASV37

Bacteria Synergistetes Synergistia Synergistales
Synergistaceae NA NA

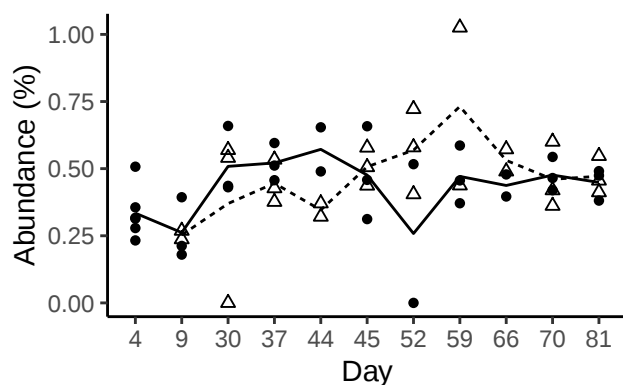
H2Addition —●— No -△- Yes



ASV40

Bacteria Firmicutes Clostridia Clostridiales
Peptostreptococcaceae Romboutsia NA

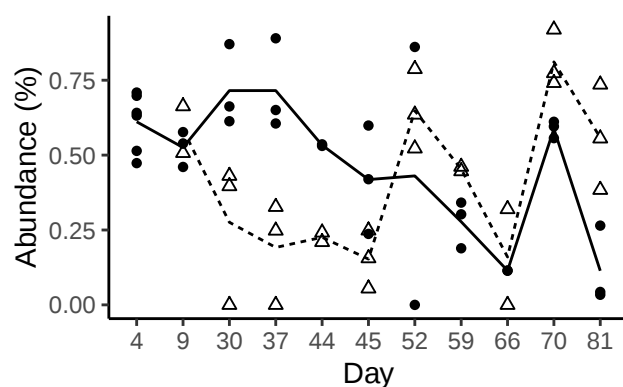
H2Addition —●— No -△- Yes



ASV38

Bacteria Firmicutes Clostridia Clostridiales
Family_XIII NA NA

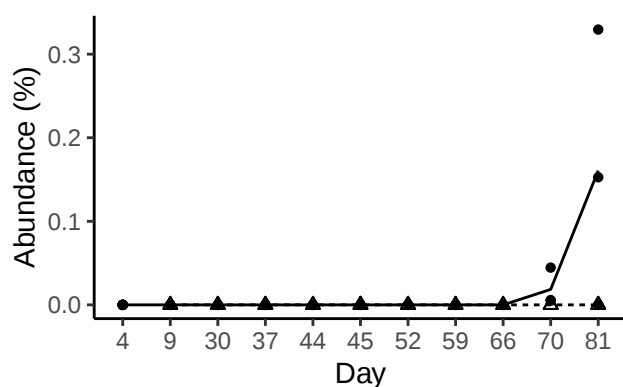
H2Addition —●— No -△- Yes



ASV41

Bacteria Patescibacteria Saccharimonadia Saccharimonadales
Saccharimonadaceae NA NA

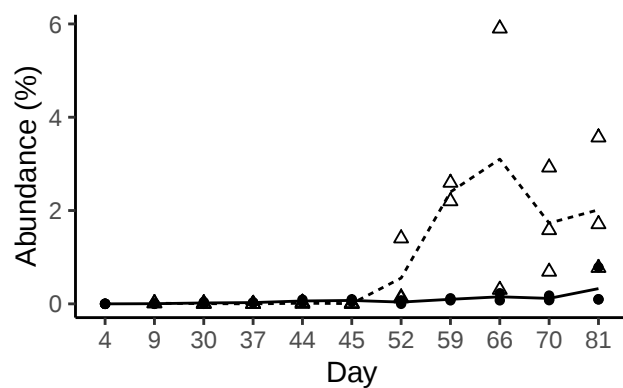
H2Addition —●— No -△- Yes



ASV39

Bacteria WPS-2 NA NA
NA NA NA

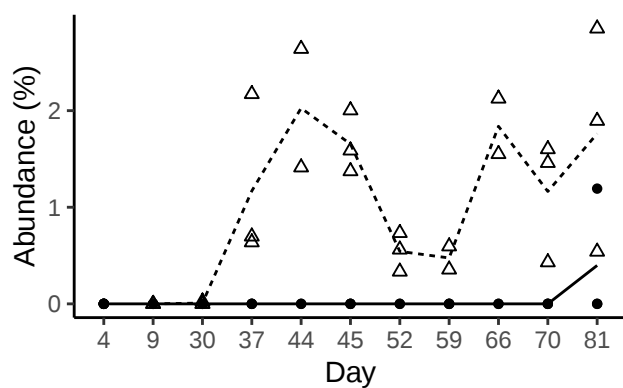
H2Addition —●— No -△- Yes



ASV42

Bacteria Firmicutes Negativicutes Selenomonadales
Veillonellaceae Sporomusa sphaeroides

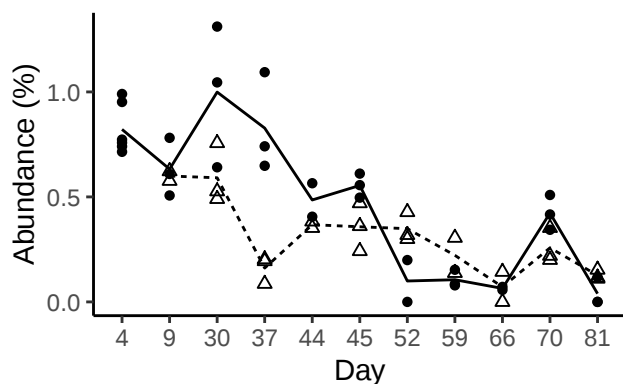
H2Addition —●— No -△- Yes



ASV43

Bacteria Firmicutes Clostridia MBA03
NA NA NA

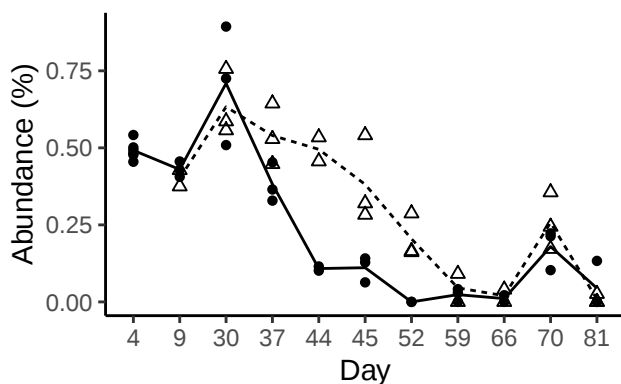
H2Addition —●— No -△- Yes



ASV46

Bacteria Firmicutes Clostridia MBA03
NA NA NA

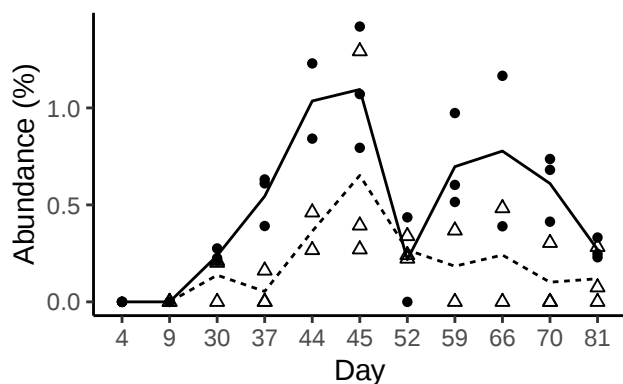
H2Addition —●— No -△- Yes



ASV44

Bacteria Proteobacteria Deltaproteobacteria Desulfovibrionales
Desulfovibrionaceae Desulfovibrio NA

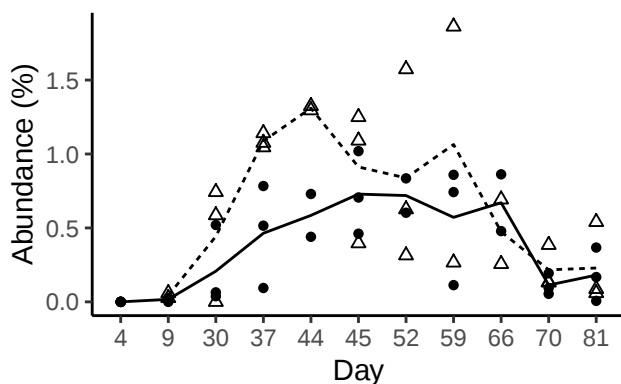
H2Addition —●— No -△- Yes



ASV47

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Prolixibacteraceae NA NA

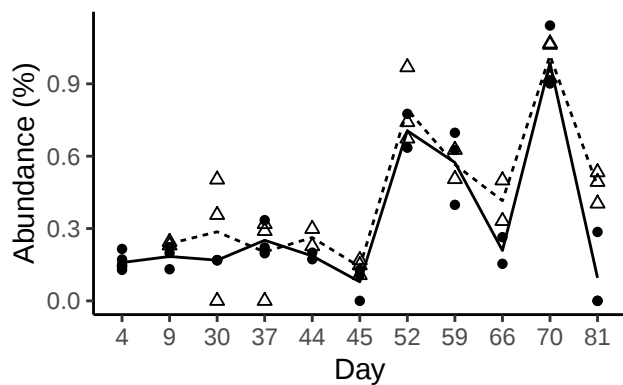
H2Addition —●— No -△- Yes



ASV45

Bacteria Firmicutes Clostridia Clostridiales
Syntrophomonadaceae Syntrophomonas NA

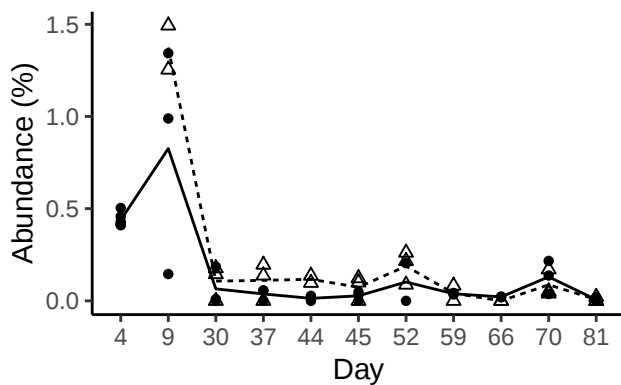
H2Addition —●— No -△- Yes



ASV48

Bacteria Firmicutes Clostridia Clostridiales
Lachnospiraceae Herbinix NA

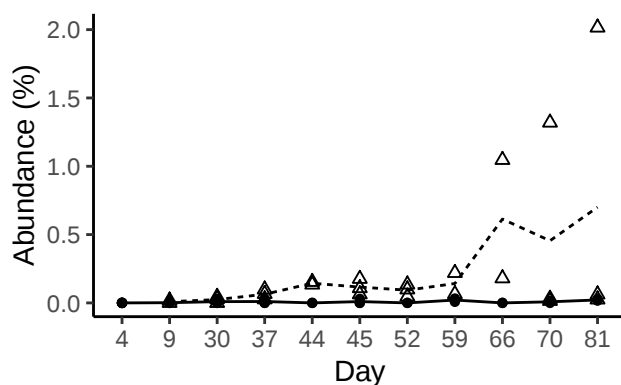
H2Addition —●— No -△- Yes



ASV49

Bacteria Firmicutes Clostridia Clostridiales
Heliobacteriaceae Hydrogenispora NA

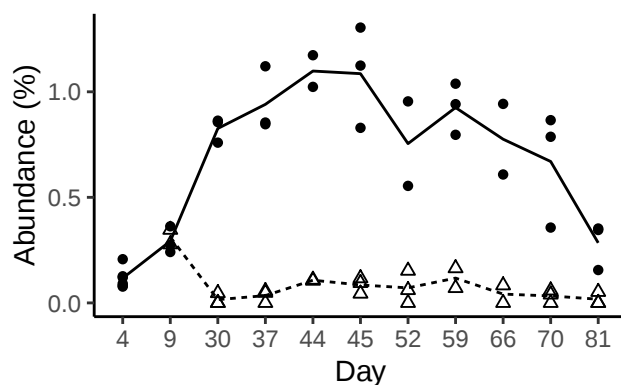
H2Addition ● No -△- Yes



ASV52

Bacteria Cloacimonetes Cloacimonadia Cloacimonadales
Cloacimonadaceae W5 NA

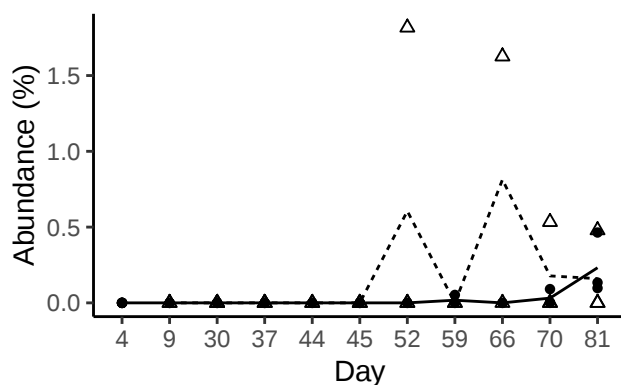
H2Addition ● No -△- Yes



ASV50

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Dysgonomonas oryzae

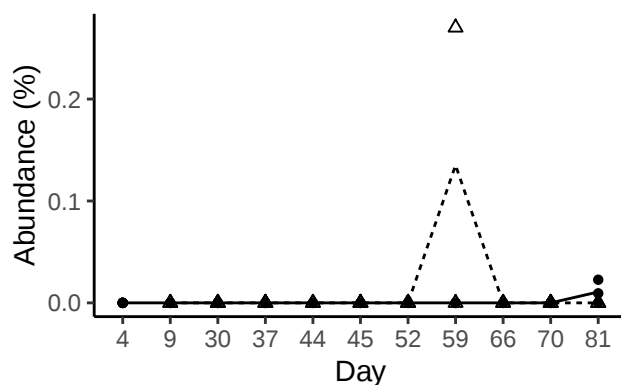
H2Addition ● No -△- Yes



ASV53

Bacteria Chloroflexi Anaerolineae Anaerolineales
Anaerolineaceae NA NA

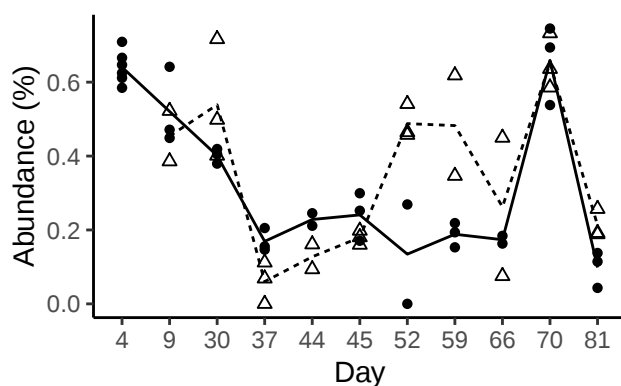
H2Addition ● No -△- Yes



ASV51

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae NA NA

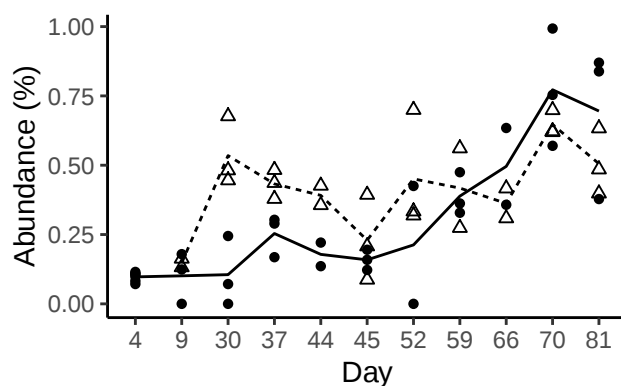
H2Addition ● No -△- Yes



ASV54

Bacteria Firmicutes Clostridia Clostridiales
Syntrophomonadaceae Syntrophomonas NA

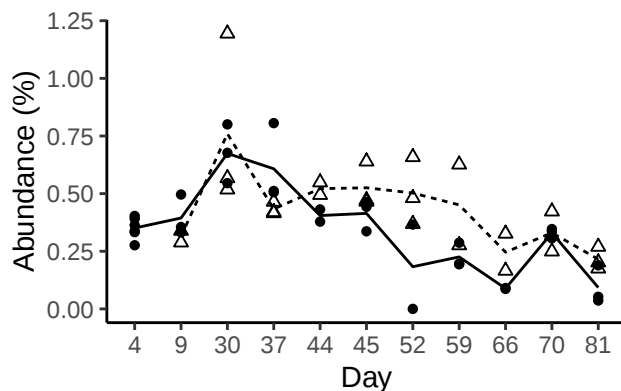
H2Addition ● No -△- Yes



ASV55

Bacteria Firmicutes Clostridia DTU014
NA NA NA

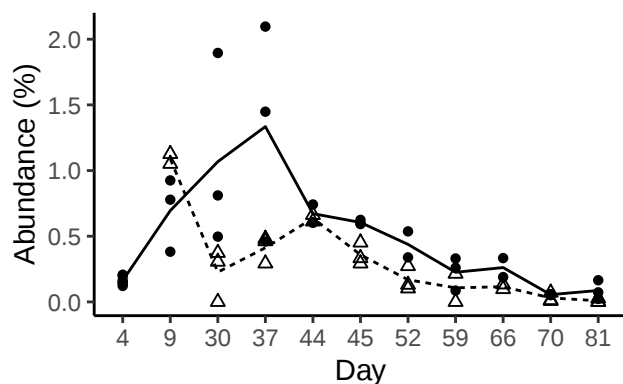
H2Addition —●— No —△— Yes



ASV58

Bacteria Bacteroidetes Bacteroidia Bacteroidales
ML635J-40_aquatic_group NA NA

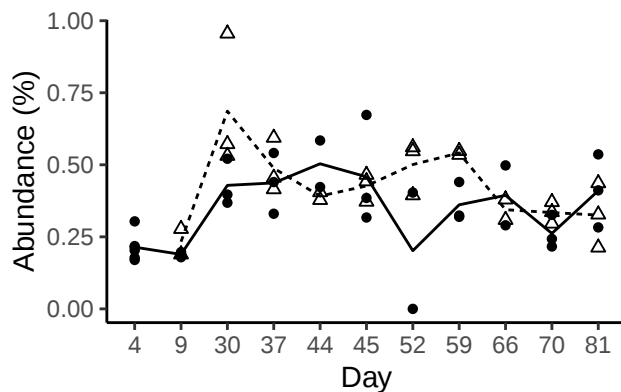
H2Addition —●— No —△— Yes



ASV56

Bacteria Firmicutes Clostridia Clostridiales
Peptostreptococcaceae Paeniclostridium NA

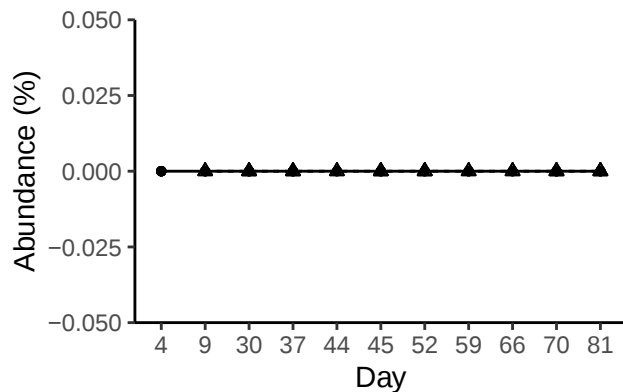
H2Addition —●— No —△— Yes



ASV59

Bacteria Bacteroidetes Bacteroidia Sphingobacteriales
Lentimicrobiaceae NA NA

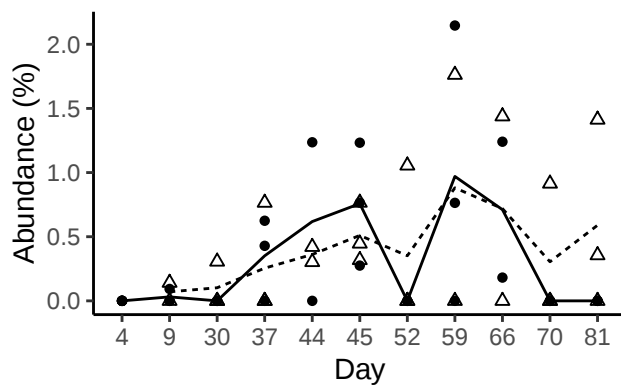
H2Addition —●— No —△— Yes



ASV57

Bacteria Firmicutes Bacilli Lactobacillales
Carnobacteriaceae Trichococcus NA

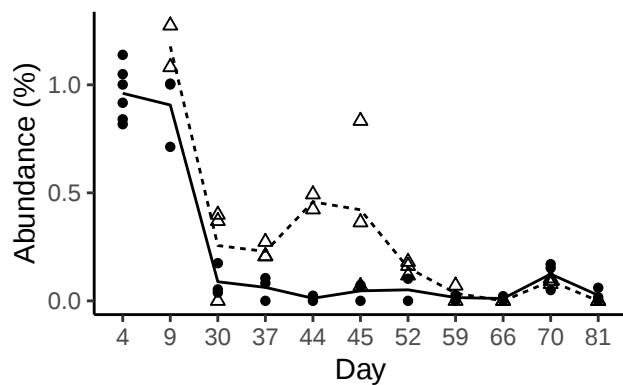
H2Addition —●— No —△— Yes



ASV60

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Ruminiclostridium_1 NA

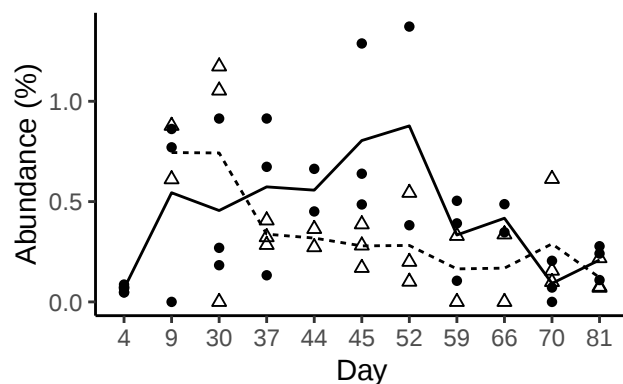
H2Addition —●— No —△— Yes



ASV61

Archaea Euryarchaeota Methanomicrobia Methanosarcinales
Methanosarcinaceae Methanosarcina NA

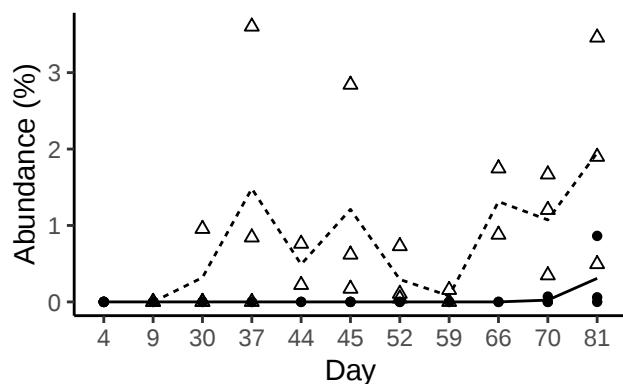
H2Addition —●— No -△- Yes



ASV64

Bacteria Firmicutes Negativicutes Selenomonadales
Veillonellaceae Sporomusa NA

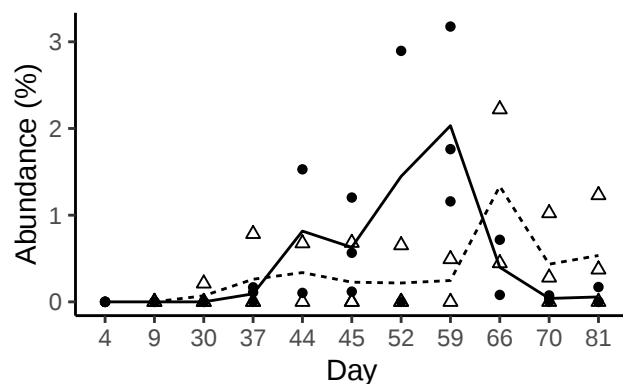
H2Addition —●— No -△- Yes



ASV62

Bacteria Firmicutes Bacilli Lactobacillales
Carnobacteriaceae Trichococcus NA

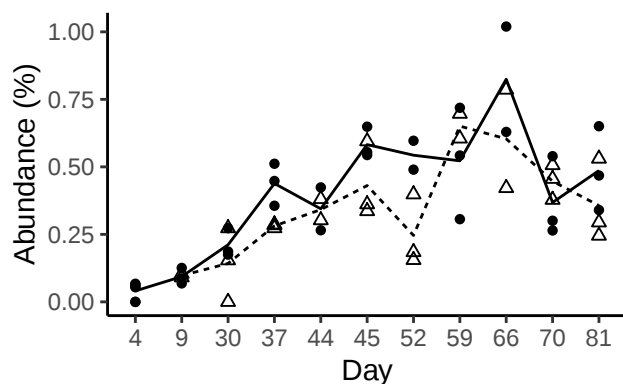
H2Addition —●— No -△- Yes



ASV65

Bacteria Synergistetes Synergistia Synergistales
Synergistaceae Syner-01 NA

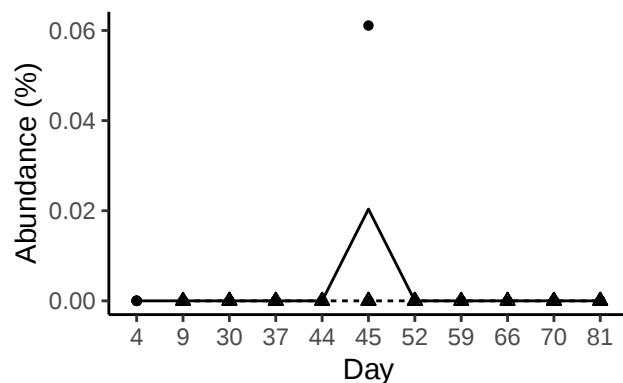
H2Addition —●— No -△- Yes



ASV63

Bacteria Thermotogae Thermotogae Petrotogales
Petrotogaceae Deffluviitoga tunisiensis

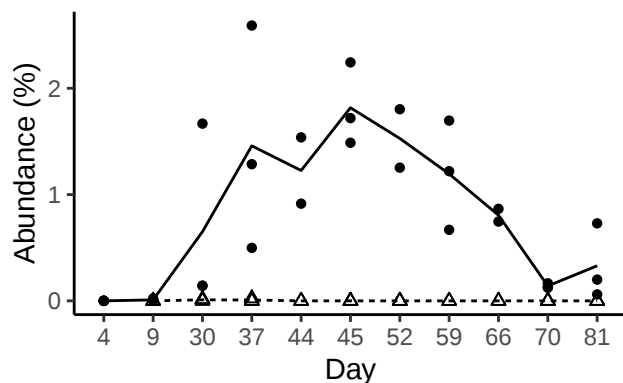
H2Addition —●— No -△- Yes



ASV66

Bacteria Proteobacteria Deltaproteobacteria Desulfobivirionales
Desulfomicrobiaceae Desulfomicrobium NA

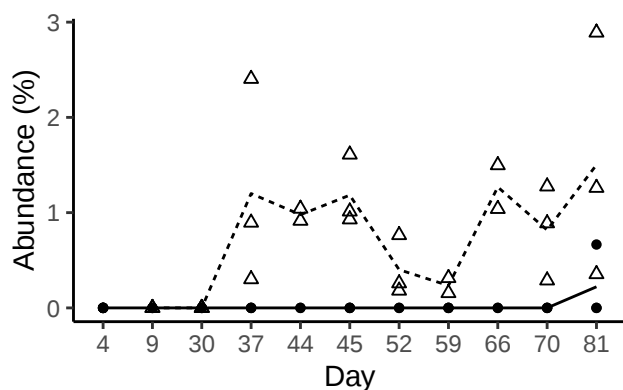
H2Addition —●— No -△- Yes



ASV67

Bacteria Firmicutes Negativicutes Selenomonadales
Veillonellaceae Sporomusa sphaeroides

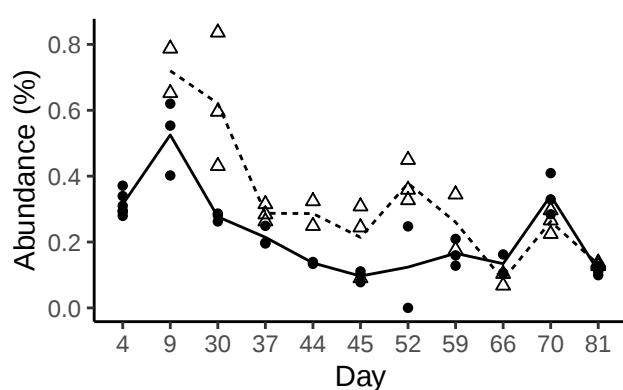
H2Addition —●— No —△— Yes



ASV70

Bacteria Firmicutes Clostridia Clostridiales
Christensenellaceae Christensenellaceae_R-7_group NA

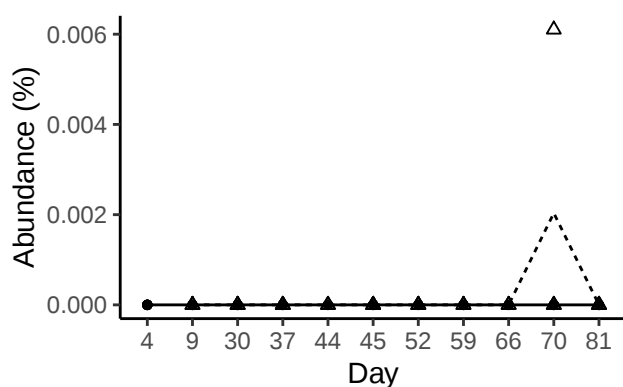
H2Addition —●— No —△— Yes



ASV68

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Fastidiosipila NA

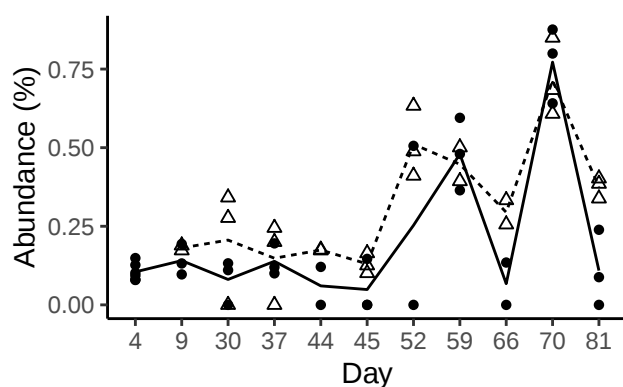
H2Addition —●— No —△— Yes



ASV71

Bacteria Firmicutes Clostridia Clostridiales
Syntrophomonadaceae Syntrophomonas NA

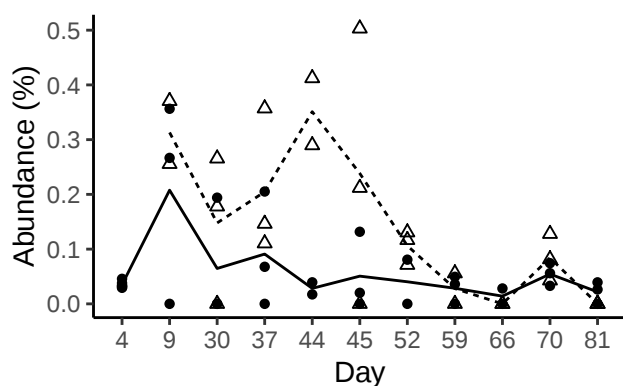
H2Addition —●— No —△— Yes



ASV69

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Ruminiclostridium NA

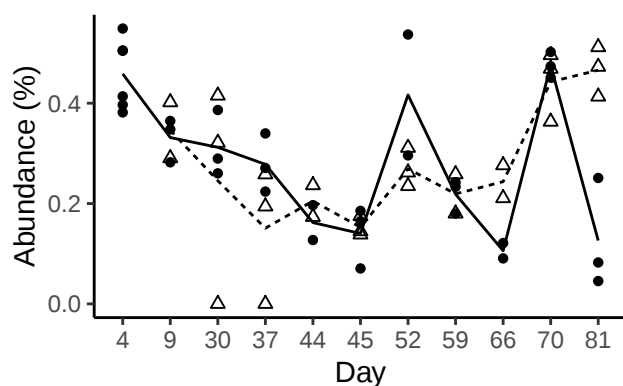
H2Addition —●— No —△— Yes



ASV72

Bacteria Firmicutes Clostridia Clostridiales
Syntrophomonadaceae Syntrophomonas NA

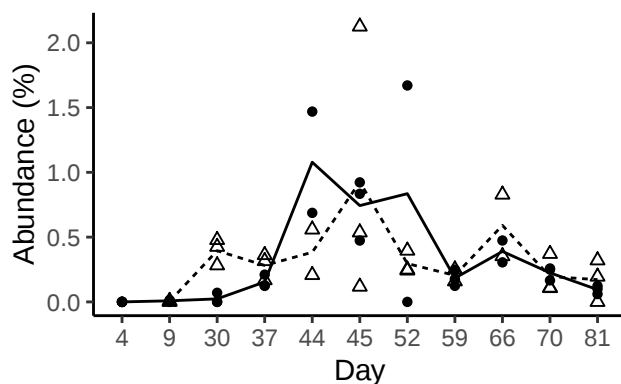
H2Addition —●— No —△— Yes



ASV73

Bacteria Proteobacteria Deltaproteobacteria Desulfovibrionales
Desulfovibrionaceae Desulfovibrio NA

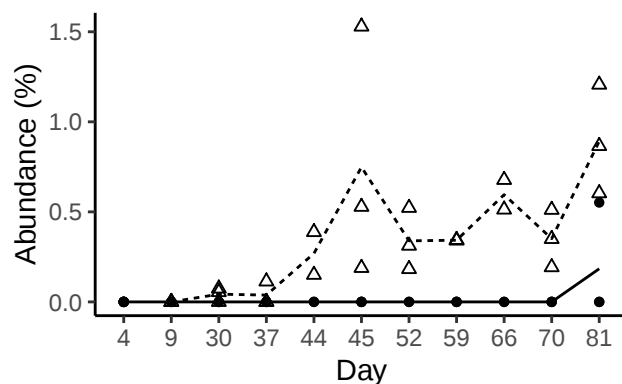
H2Addition —●— No —△— Yes



ASV76

Archaea Euryarchaeota Methanobacteria Methanobacteriales
Methanobacteriaceae Methanobacterium NA

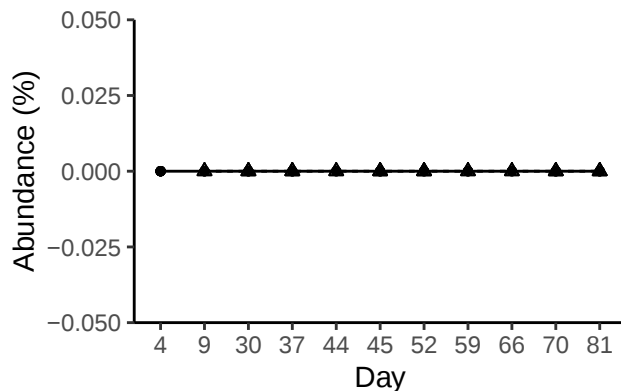
H2Addition —●— No —△— Yes



ASV74

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Proteiniphilum NA

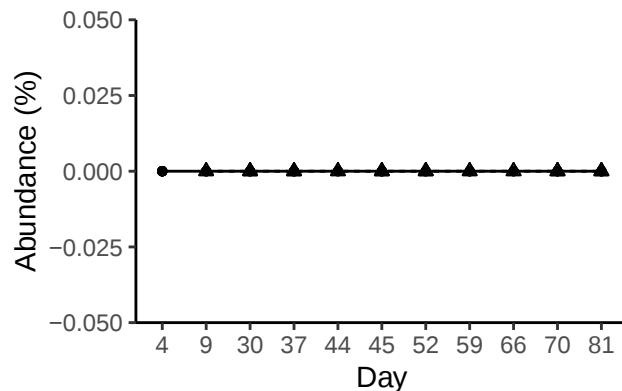
H2Addition —●— No —△— Yes



ASV77

Archaea Euryarchaeota Methanomicrobia Methanosarcinales
Methanosacetaceae Methanoseta NA

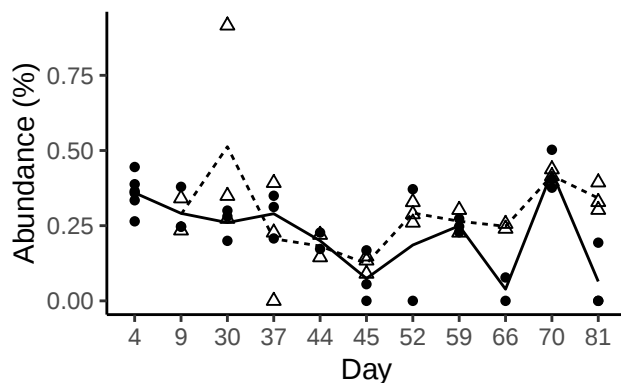
H2Addition —●— No —△— Yes



ASV75

Bacteria Firmicutes Clostridia Clostridiales
Syntrophomonadaceae Syntrophomonas NA

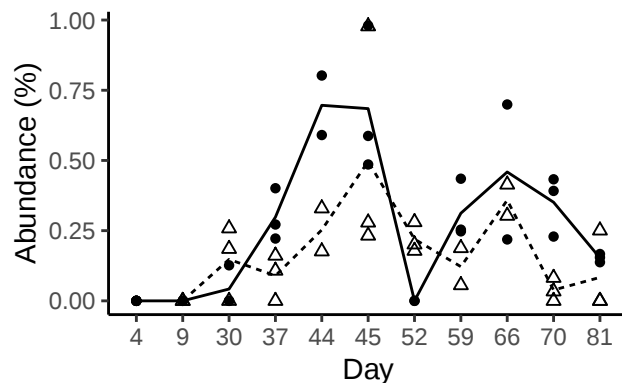
H2Addition —●— No —△— Yes



ASV78

Bacteria Proteobacteria Deltaproteobacteria Desulfovibrionales
Desulfovibrionaceae Desulfovibrio NA

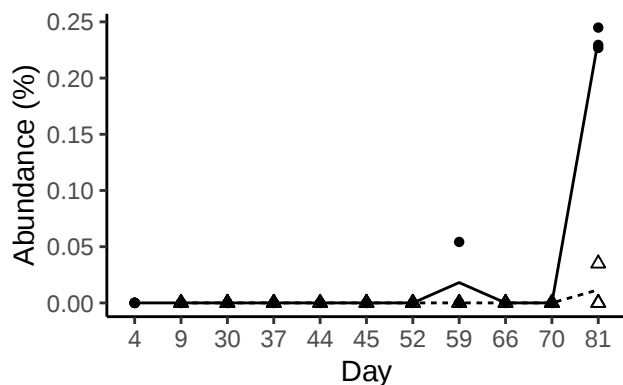
H2Addition —●— No —△— Yes



ASV79

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Petrimonas NA

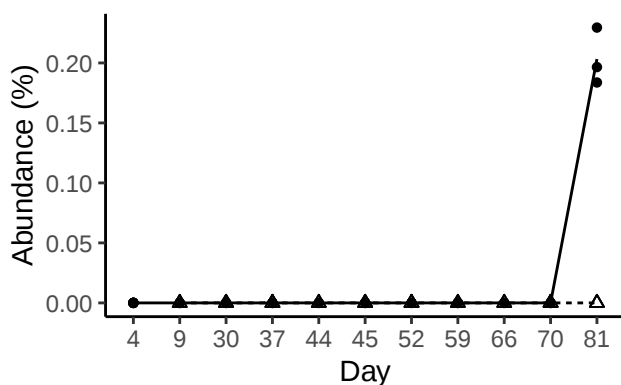
H2Addition ● No -▲- Yes



ASV82

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Petrimonas NA

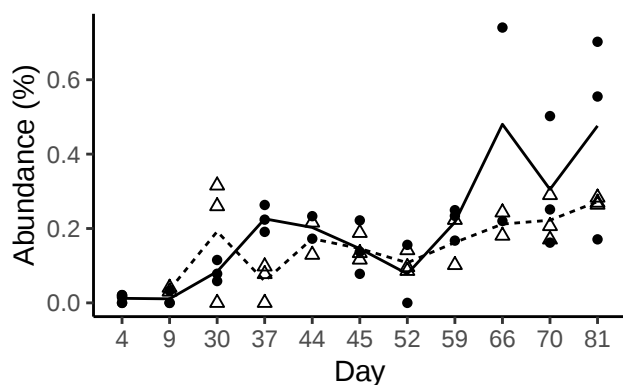
H2Addition ● No -▲- Yes



ASV80

Bacteria Atribacteria Caldatribacteriia Caldatribacteriales
Caldatribacteriaceae Candidatus_Caldatribacterium NA

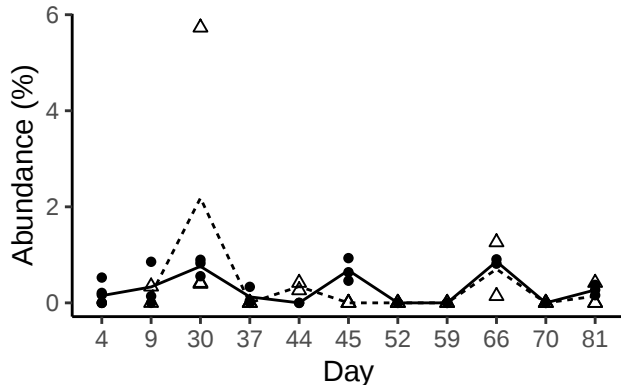
H2Addition ● No -▲- Yes



ASV83

Bacteria Fusobacteria Fusobacteriia Fusobacteriales
Fusobacteriaceae Cetobacterium NA

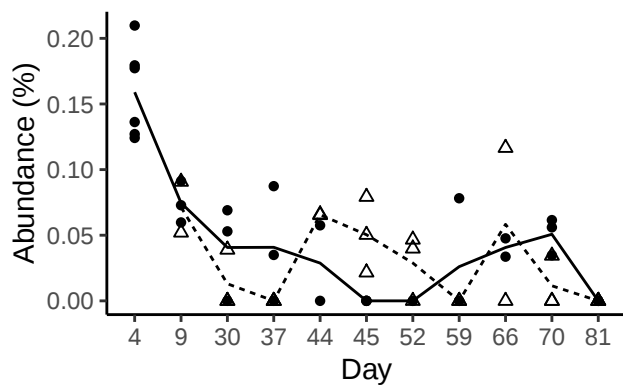
H2Addition ● No -▲- Yes



ASV81

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Proteiniphilum NA

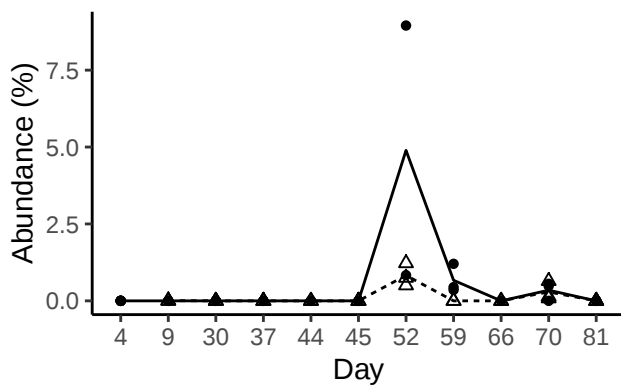
H2Addition ● No -▲- Yes



ASV84

Bacteria Cyanobacteria Oxyphotobacteria Chloroplast
NA NA NA

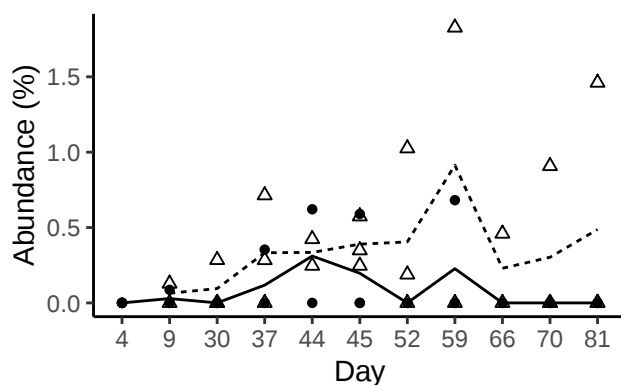
H2Addition ● No -▲- Yes



ASV85

Bacteria Firmicutes Bacilli Lactobacillales
Carnobacteriaceae Trichococcus NA

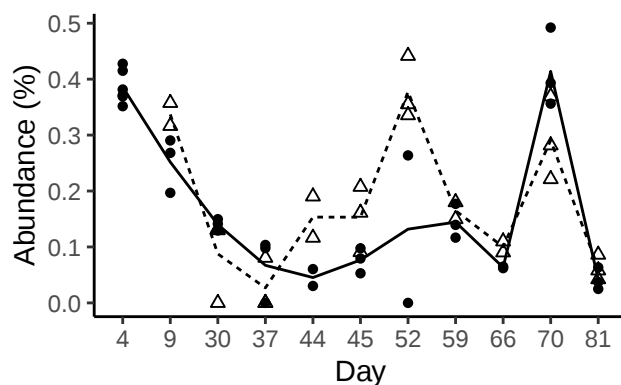
H2Addition —●— No —△— Yes



ASV88

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae NA NA

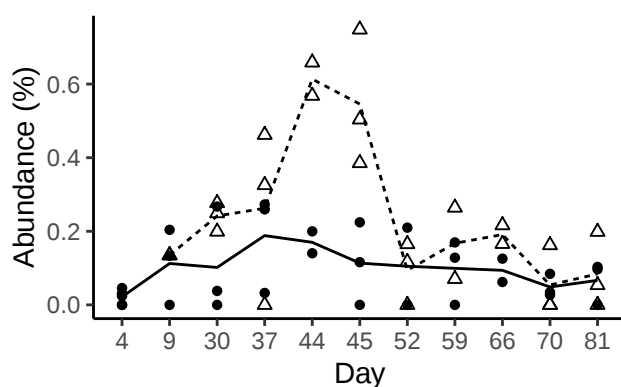
H2Addition —●— No —△— Yes



ASV86

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Marinilibacteriaceae Ruminofilibacter xylanolyticum

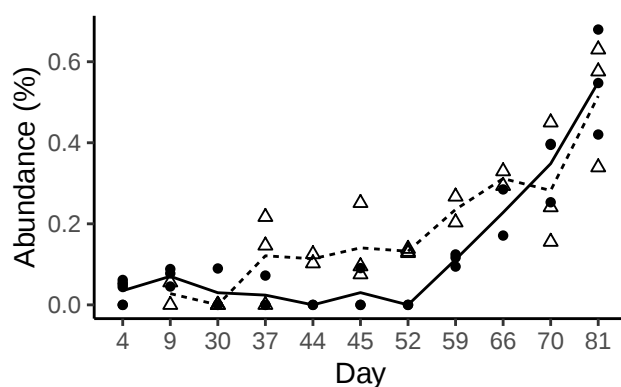
H2Addition —●— No —△— Yes



ASV89

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Petrimonas sulfuriphila

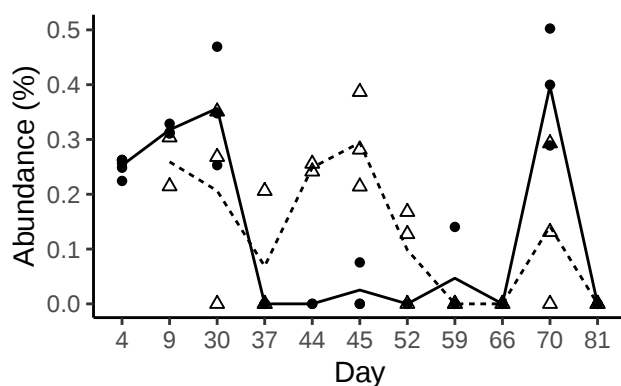
H2Addition —●— No —△— Yes



ASV87

Bacteria Firmicutes Clostridia MBA03
NA NA NA

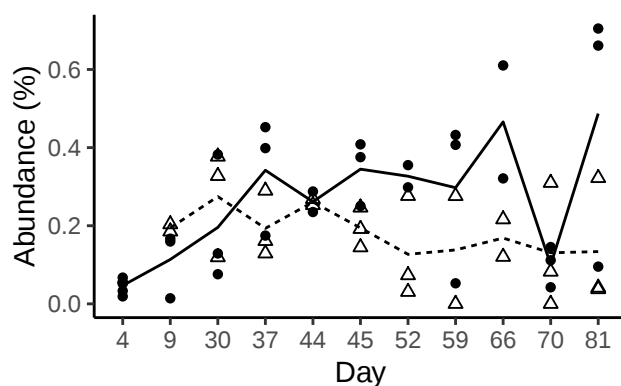
H2Addition —●— No —△— Yes



ASV90

Bacteria Proteobacteria Deltaproteobacteria Syntrophobacteriales
Syntrophaceae Syntrophus aciditrophicus

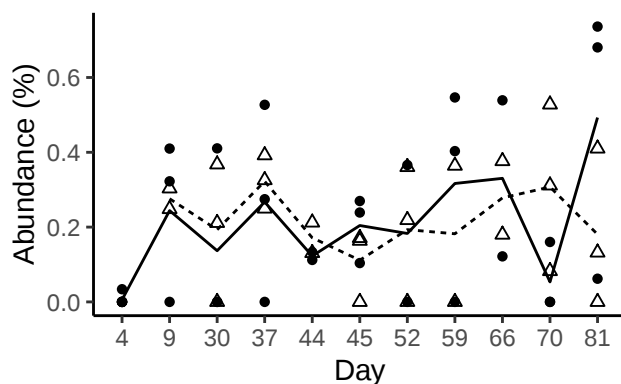
H2Addition —●— No —△— Yes



ASV91

Archaea Euryarchaeota Methanomicrobia Methanosarcinales
Methanosarcinaceae Methanosarcina NA

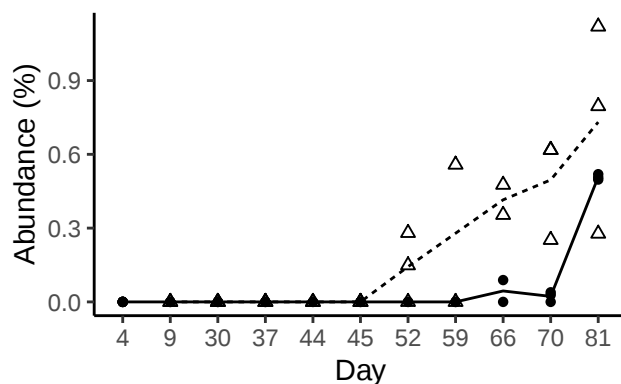
H2Addition —●— No -△- Yes



ASV94

Bacteria Firmicutes Negativicutes Selenomonadales
NA NA NA

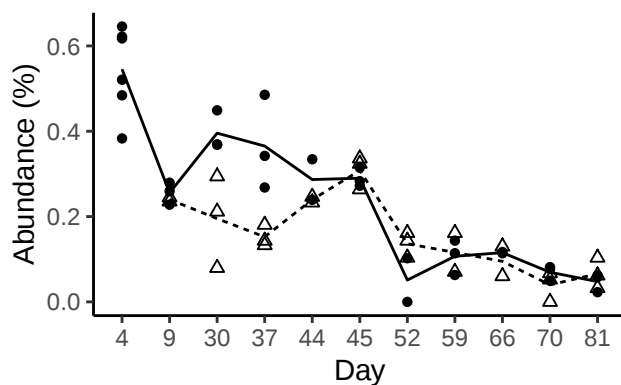
H2Addition —●— No -△- Yes



ASV92

Bacteria Patescibacteria WS6_(Dojkabacteria) NA
NA NA NA

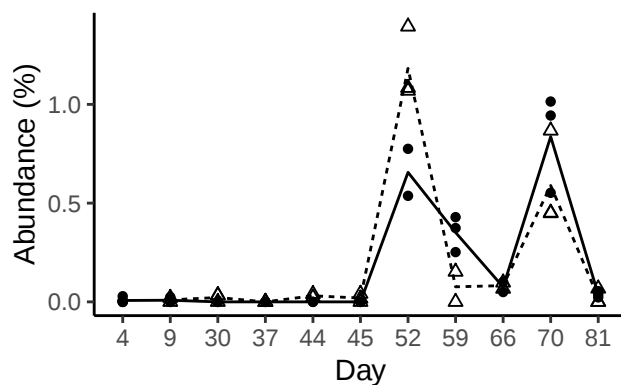
H2Addition —●— No -△- Yes



ASV95

Bacteria Firmicutes Clostridia Clostridiales
Ruminococcaceae Ercella NA

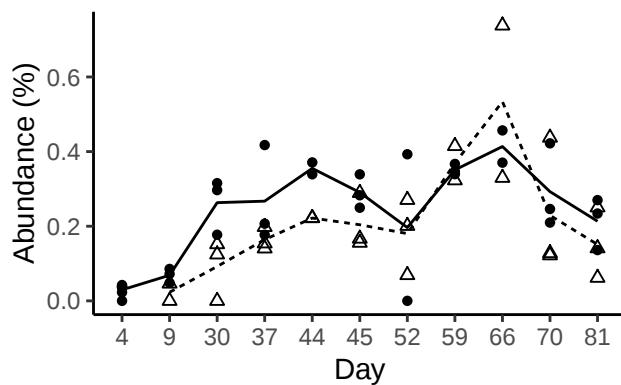
H2Addition —●— No -△- Yes



ASV93

Bacteria Firmicutes Clostridia D8A-2
NA NA NA

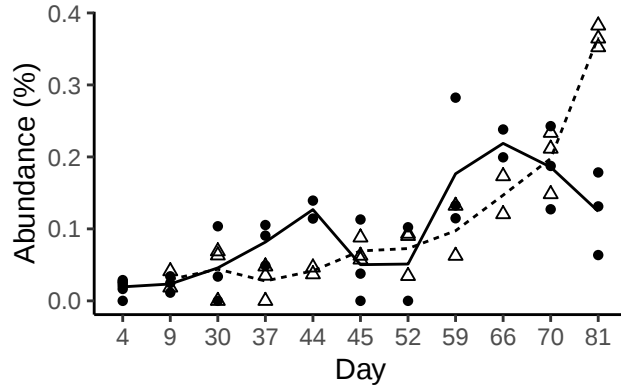
H2Addition —●— No -△- Yes



ASV96

Bacteria Thermotogae Thermotogae Kosmotogales
Kosmotogaceae Mesotoga infera

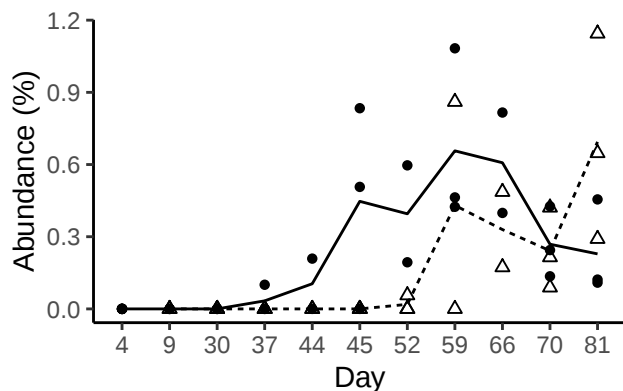
H2Addition —●— No -△- Yes



ASV97

Bacteria Proteobacteria Deltaproteobacteria Sva0485
NA NA NA

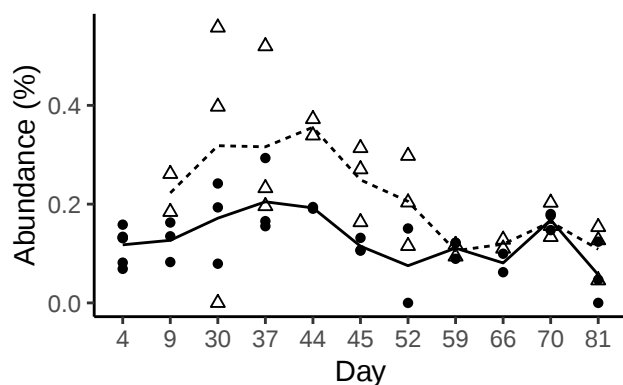
H2Addition —●— No —△— Yes



ASV100

Bacteria Atribacteria JS1 NA
NA NA NA

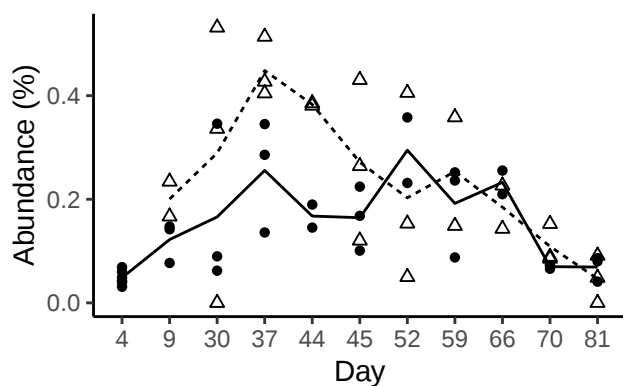
H2Addition —●— No —△— Yes



ASV98

Bacteria Firmicutes Clostridia Clostridiales
Peptococcaceae Cryptanaerobacter NA

H2Addition —●— No —△— Yes



ASV99

Bacteria Bacteroidetes Bacteroidia Bacteroidales
Dysgonomonadaceae Proteiniphilum NA

H2Addition —●— No —△— Yes

