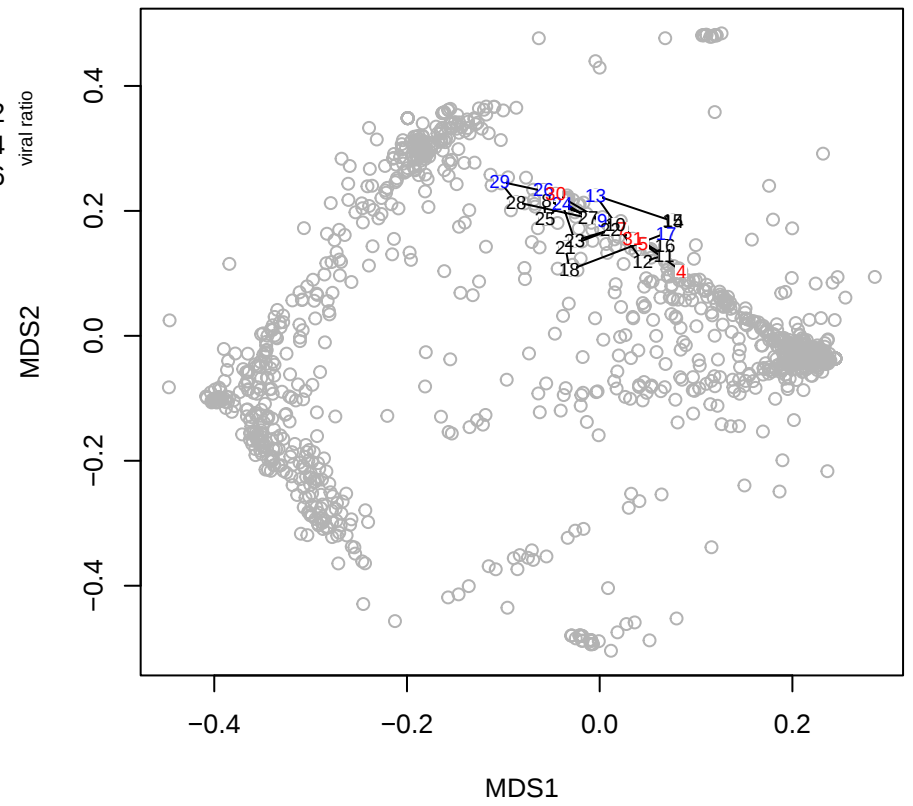
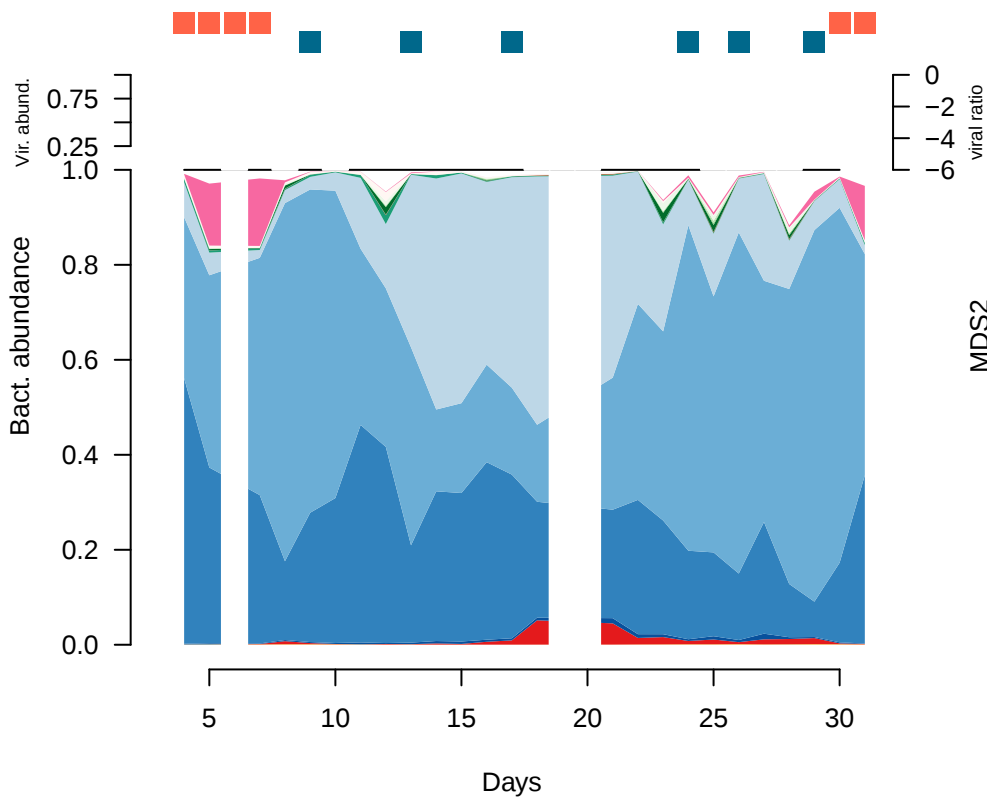
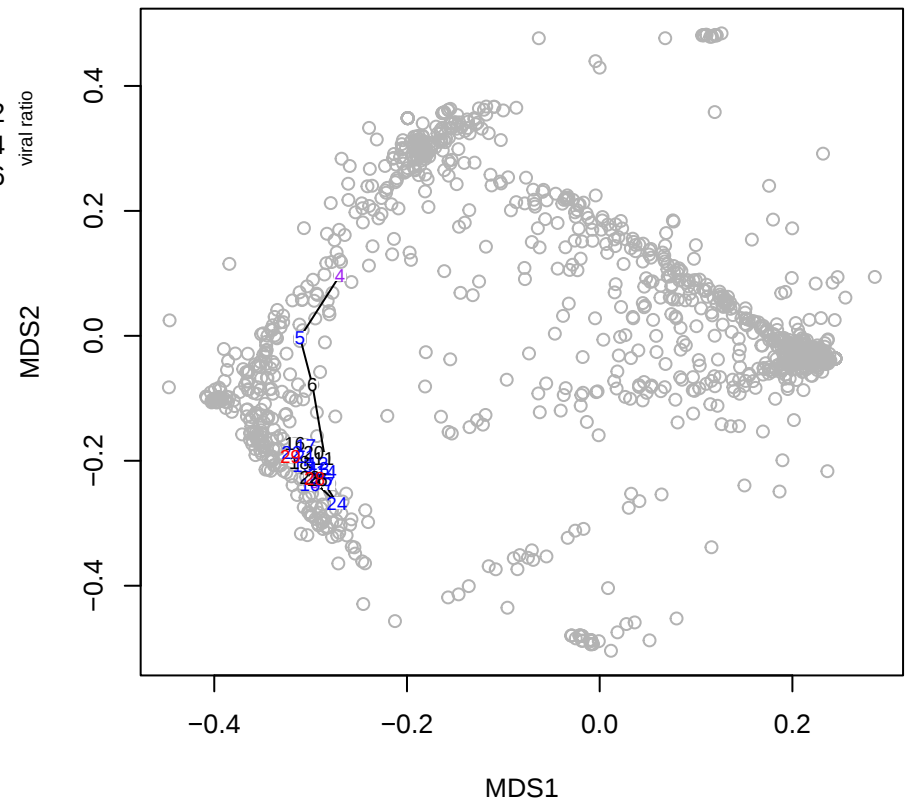
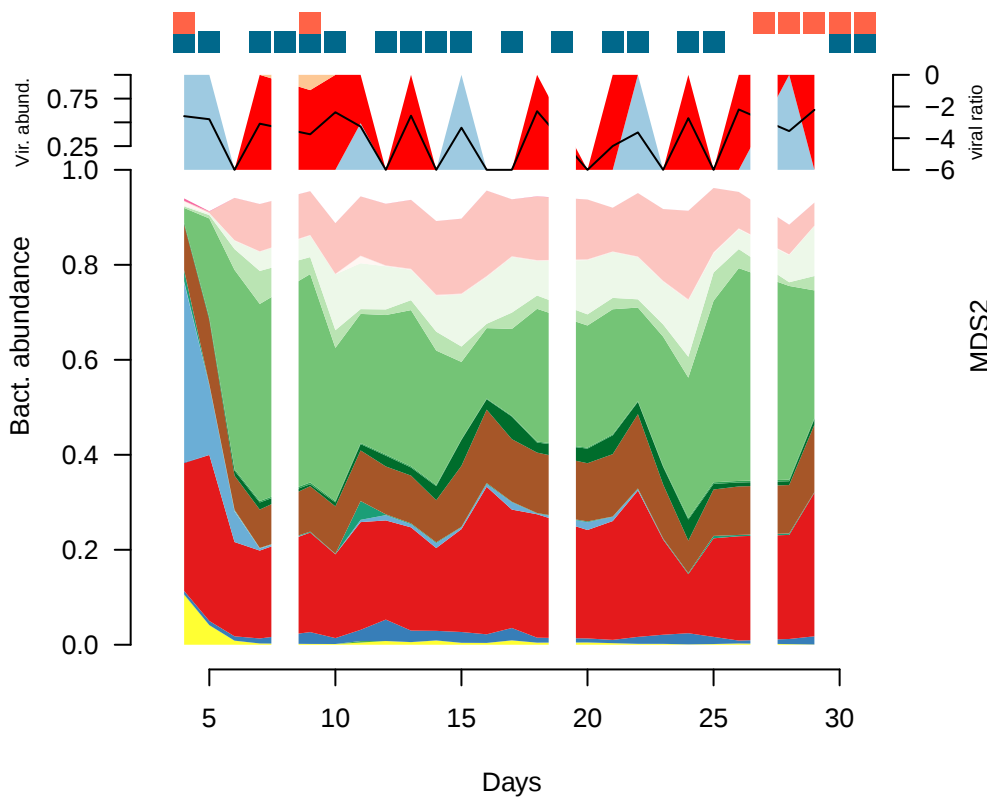


Streptococcus	Streptococcus satellite phage Javan368
Staphylococcus aureus	Streptococcus satellite phage Javan167
Sneathia amnii	Streptococcus satellite phage Javan160
Sneathia	Streptococcus phage phi-SsuZKB4_rum
Pseudomonas aeruginosa	Streptococcus phage LYGO9
Prevotella timonensis	Streptococcus phage LF2
Prevotella disiens	Streptococcus phage Javan87
Prevotella bivia	Streptococcus phage Javan69
Prevotella amnii	Streptococcus phage Javan68
Prevotella	Streptococcus phage Javan53
Peptoniphilus lacrimalis	Streptococcus phage Javan457
Megasphaera sp. UPII 199-6	Streptococcus phage Javan42
Massilia timonae	Streptococcus phage Javan269
Listeria	Streptococcus phage Javan26
Limosilactobacillus fermentum	Streptococcus phage Javan150
Lactobacillus jensenii	Streptococcus phage Javan149
Lactobacillus iners	Streptococcus phage Javan141
Lactobacillus crispatus	Streptococcus phage Javan140
Lactobacillus	Streptococcus phage Javan131
Gardnerella vaginalis	Streptococcus phage Javan11
Fannyhessea vaginae	Streptococcus phage Javan10
Escherichia	Streptococcus phage IPP61
Enterococcus faecalis	Staphylococcus phage vB_SepS_BE01
Bacillus subtilis	Staphylococcus phage UPMK_1
Aerococcus	Staphylococcus phage PhiSepi-HH3
	Staphylococcus virus vB_SepS_459
	Staphylococcus virus PH15
	Propionibacterium phage pa35
	Escherichia virus DE3
	Escherichia phage DN1
	Lactobacillus phage vB_Lga_AB1
	Lactobacillus phage phiadh
	Lactobacillus phage Lv-1
	Lactobacillus phage JNU_P7
	Gardnerella phage vB_Gva_AB1
	Escherichia phage CMS-2020a
	Enterobacteria phage IME10
	crAssphage cr53_1
	Phage FAKO05_000032F
	Lactobacillus phage vB_Lcr_AB1
	Lactobacillus phage phi_jlb1
	Lactobacillus phage KC5a
	Staphylococcus phage vB_SepM_BE05
	uncultured marine virus
	Streptococcus satellite phage Javan43
	Streptococcus satellite phage Javan4
	Streptococcus satellite phage Javan24
	Campylobacter phage A18a

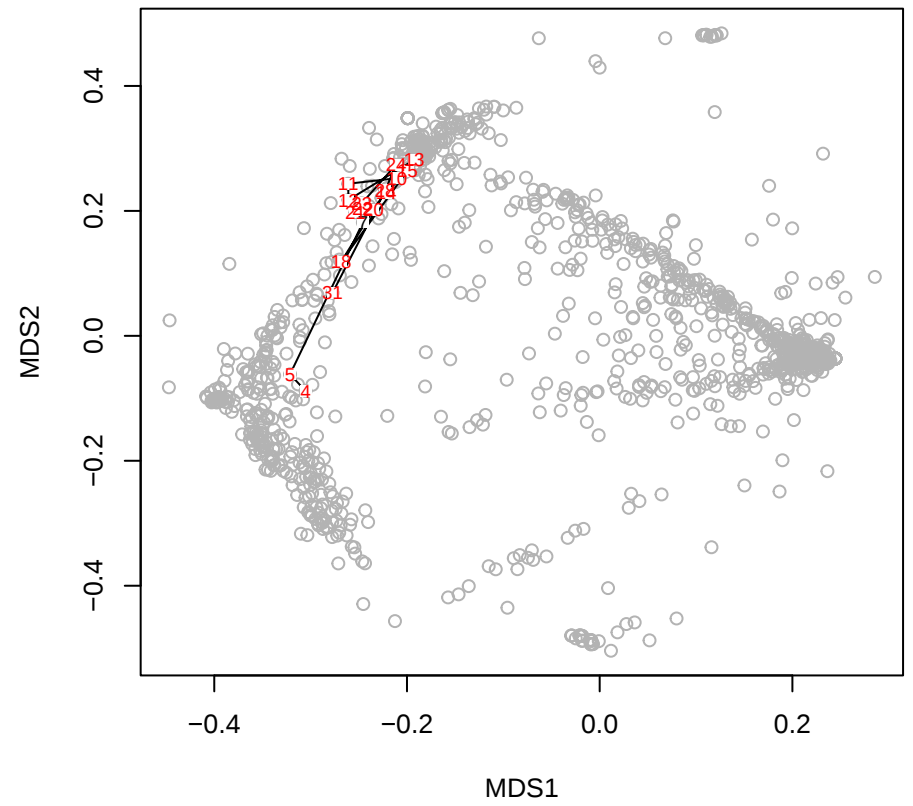
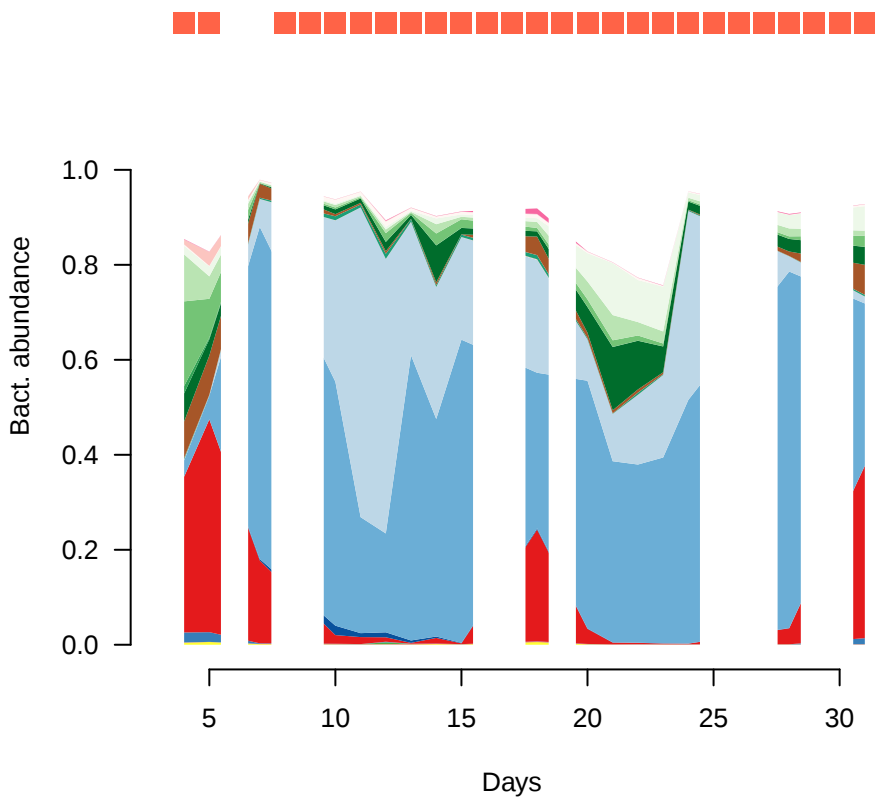
Subject 104



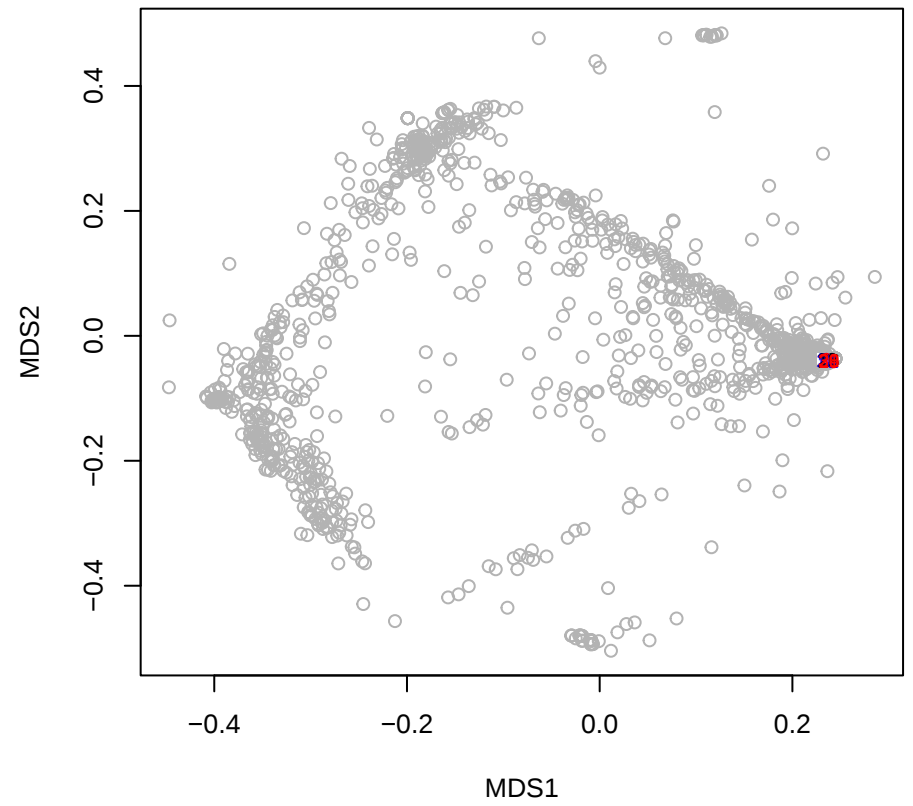
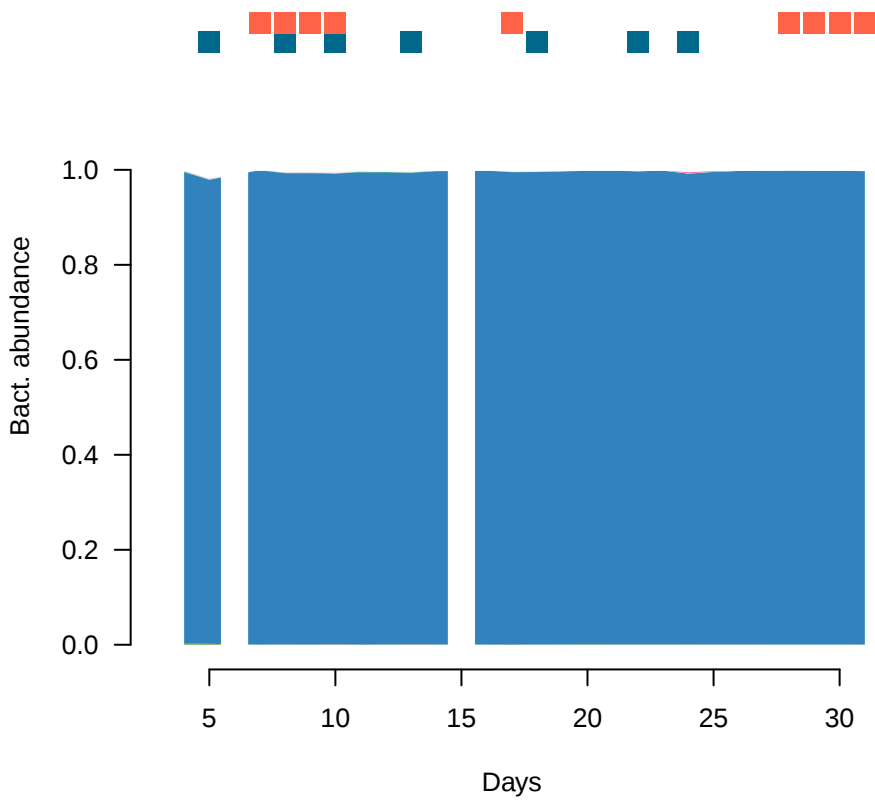
Subject 120



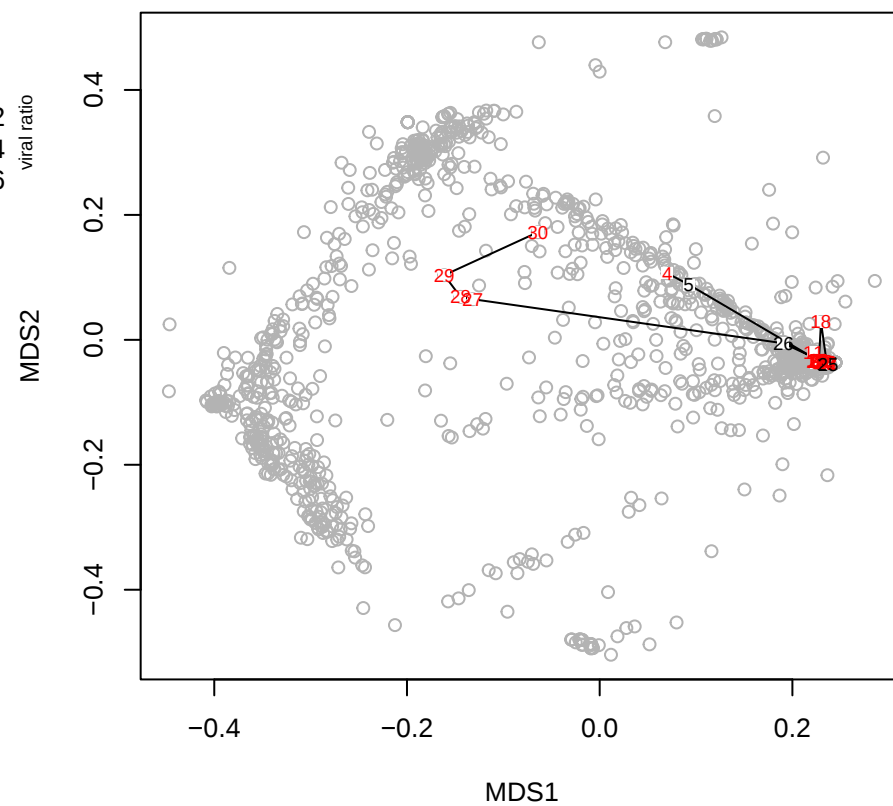
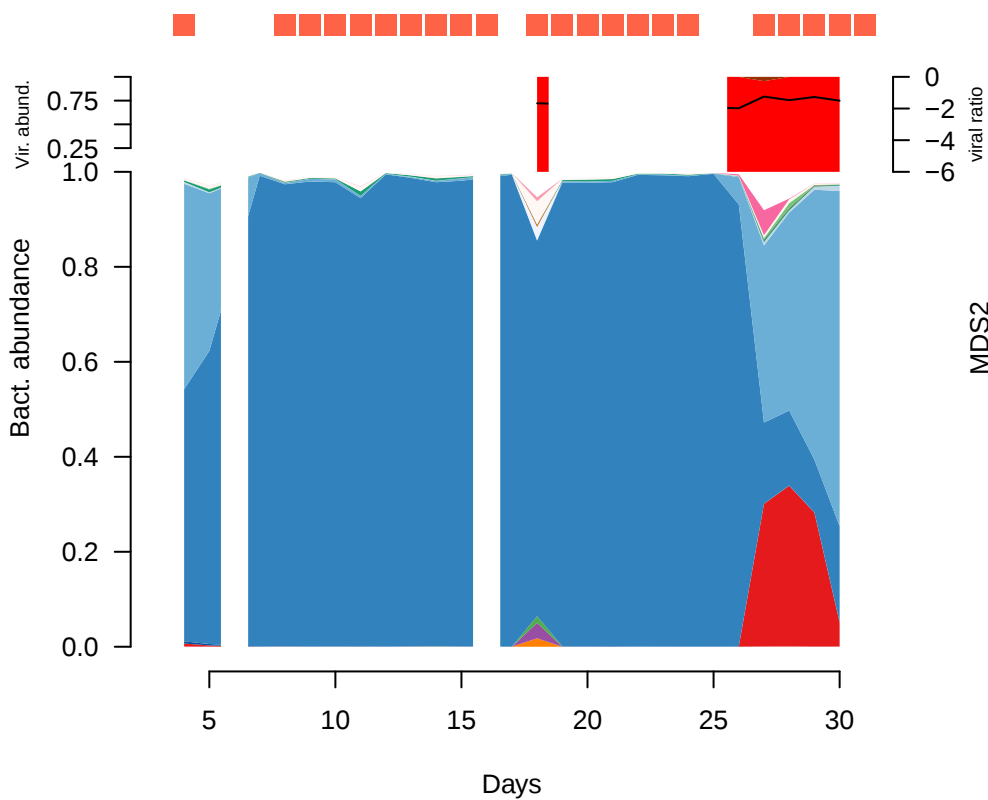
Subject 141



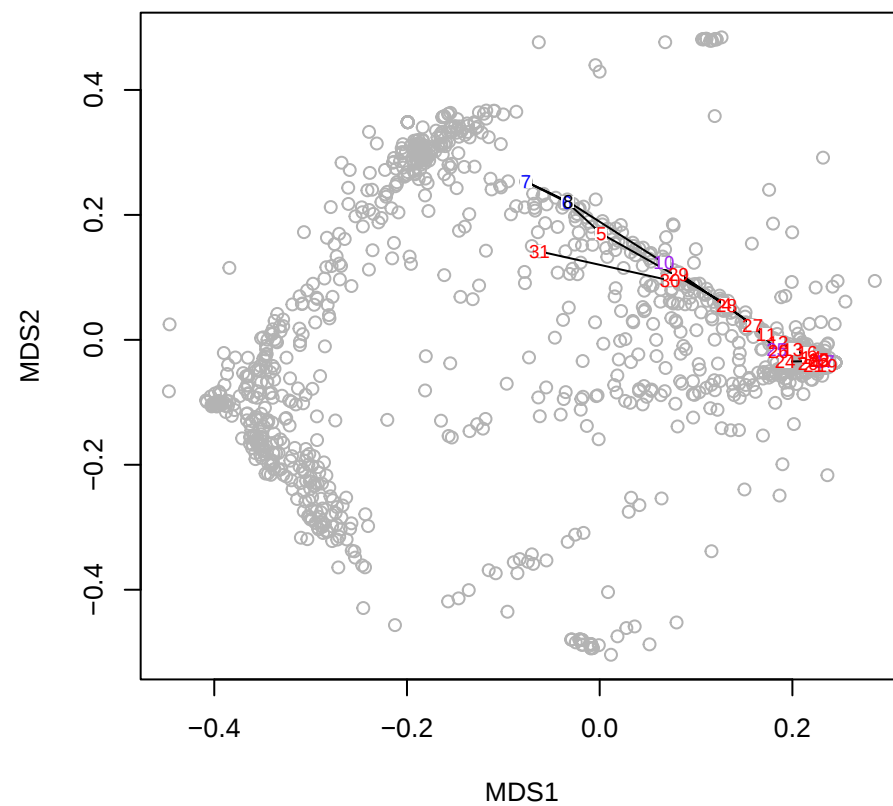
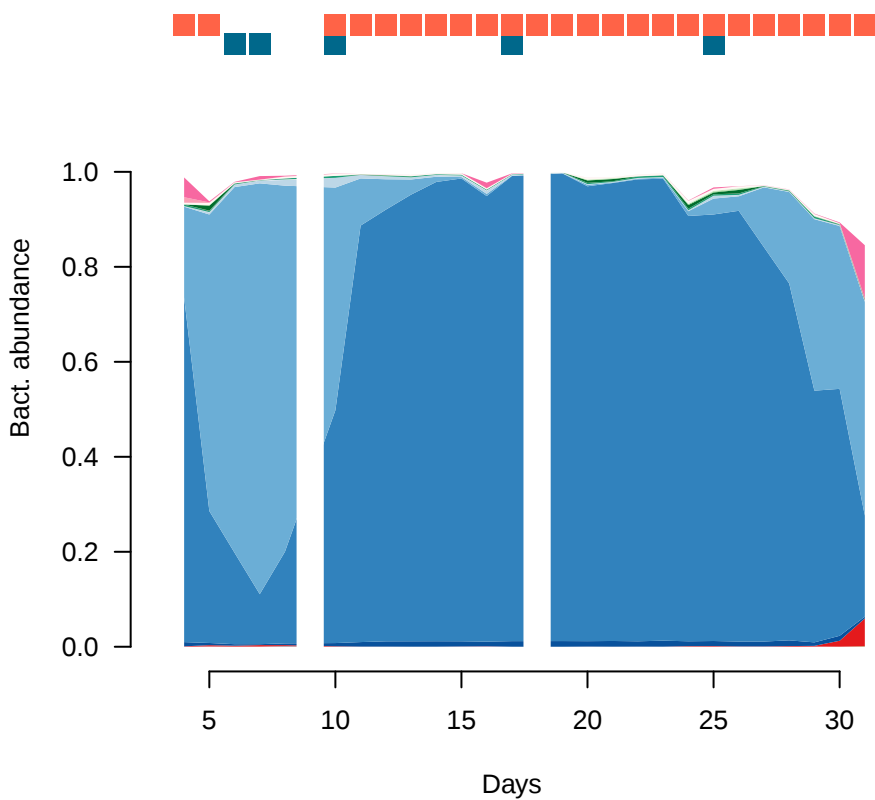
Subject 156



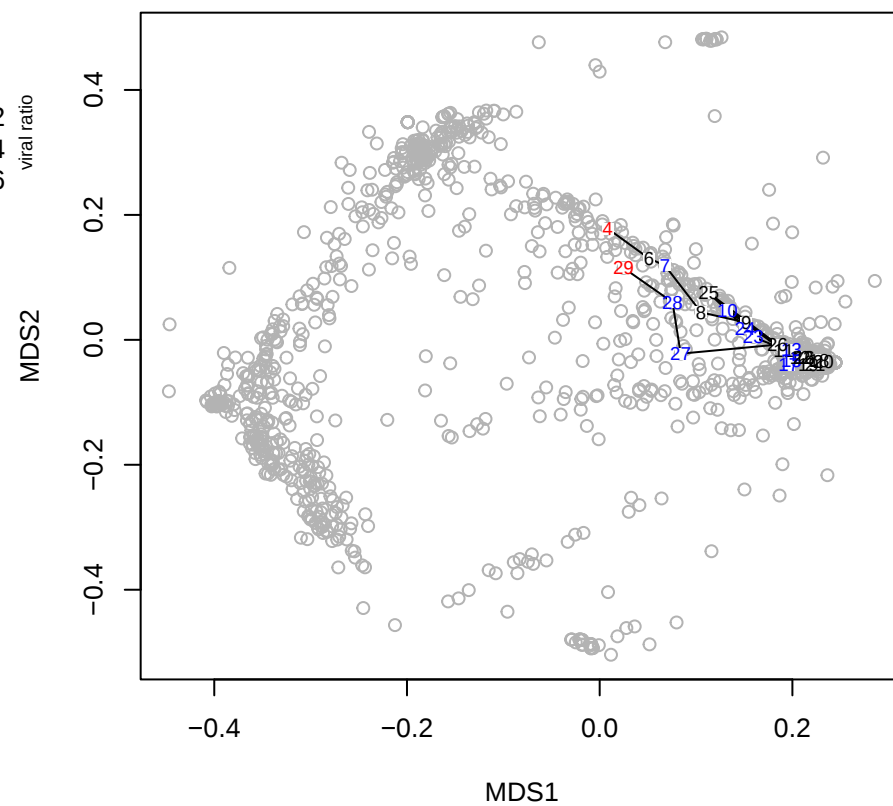
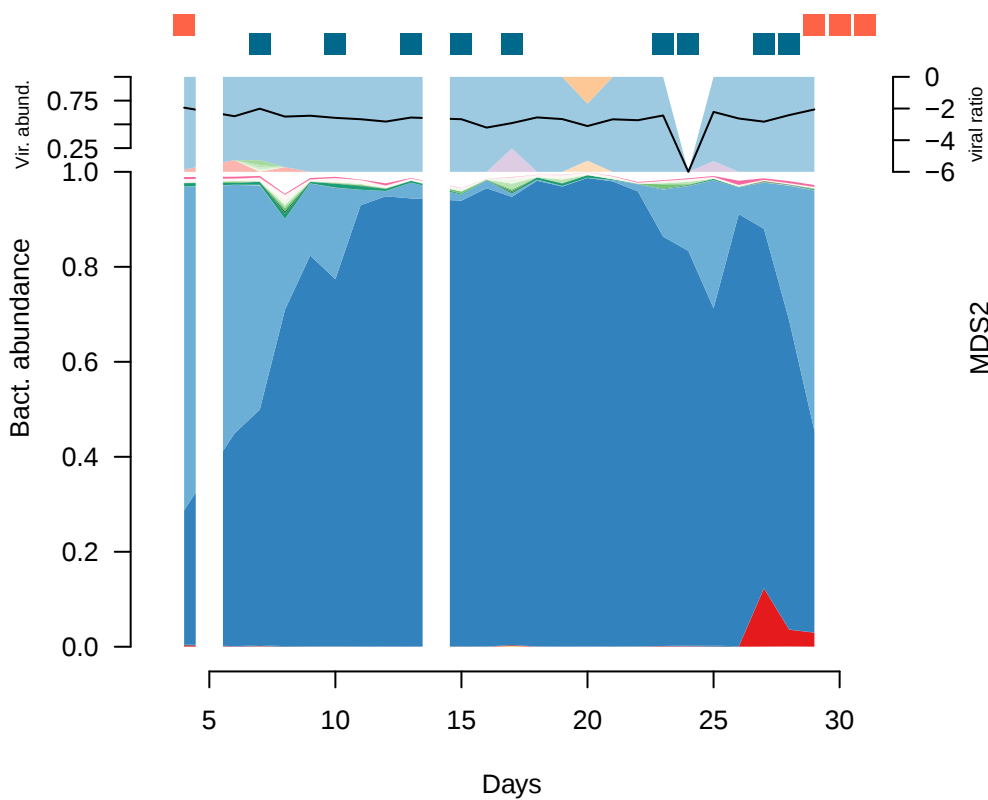
Subject 26



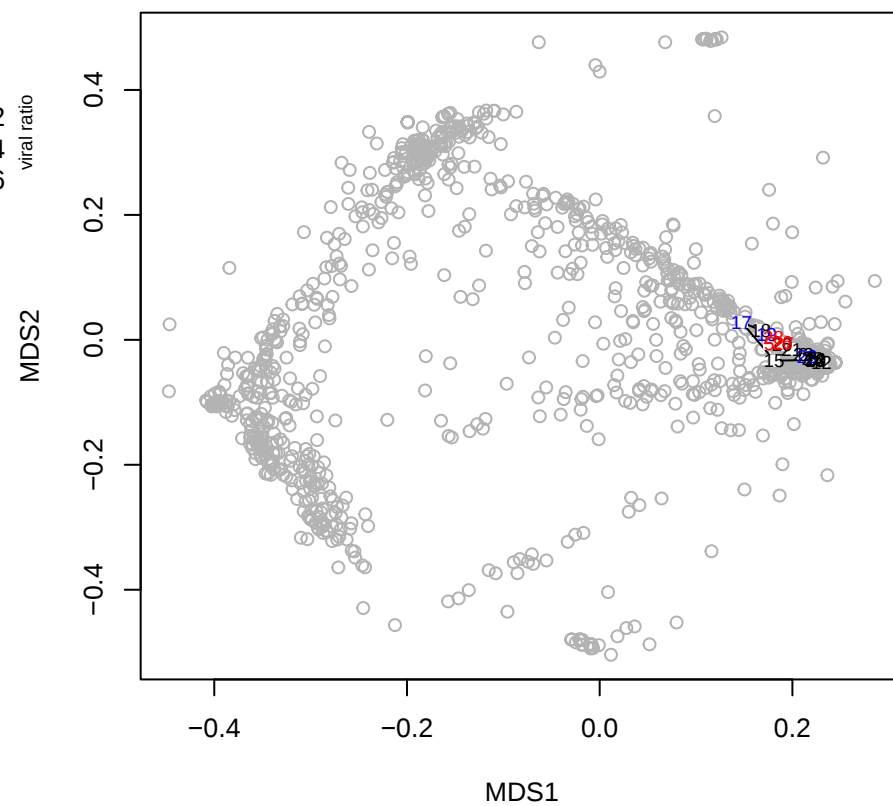
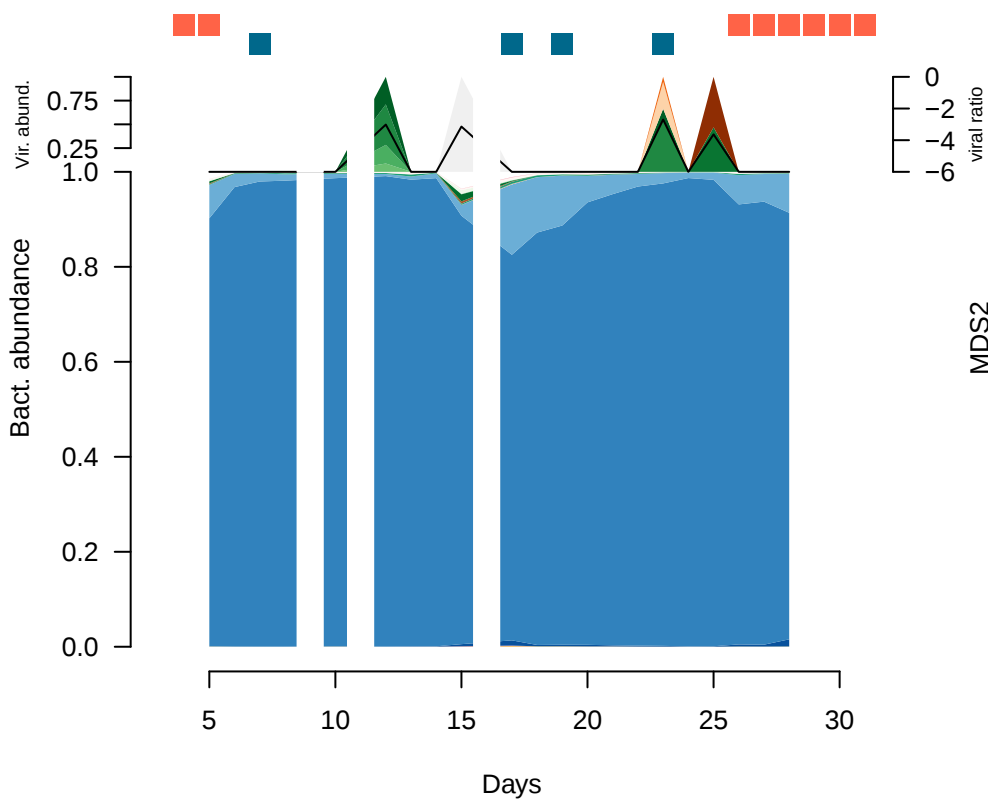
Subject 35



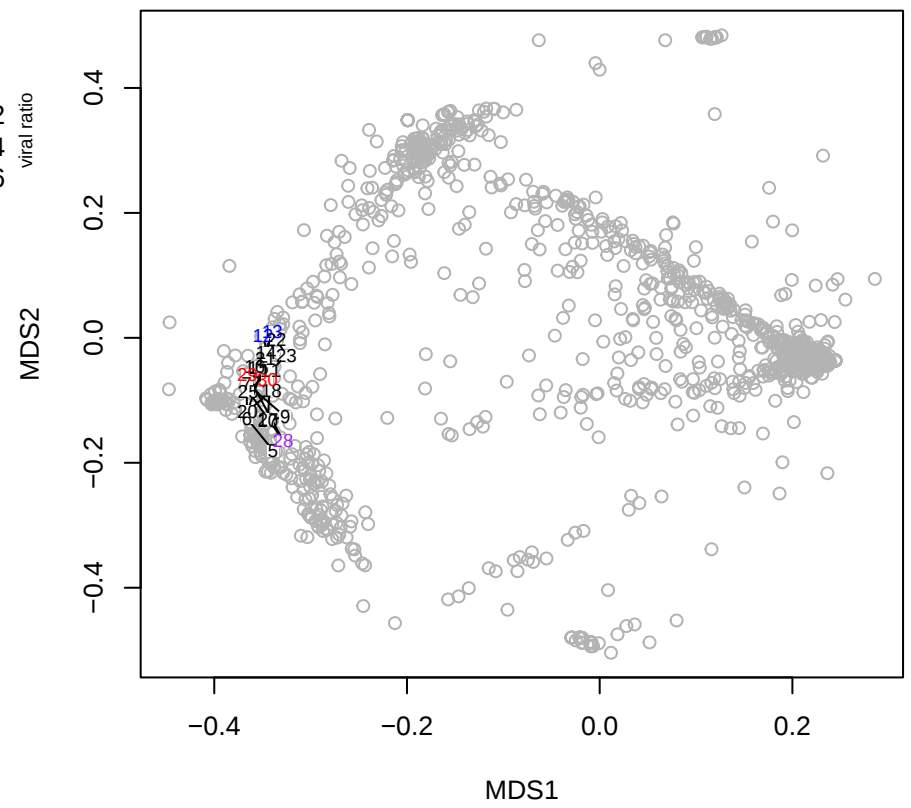
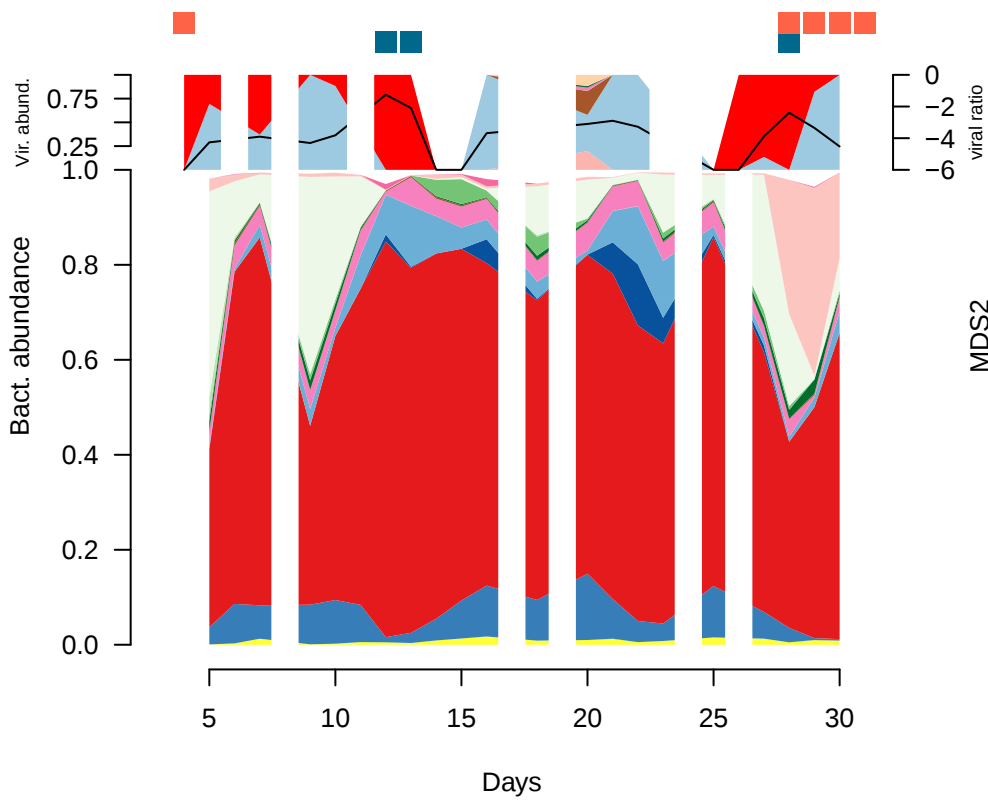
Subject 95



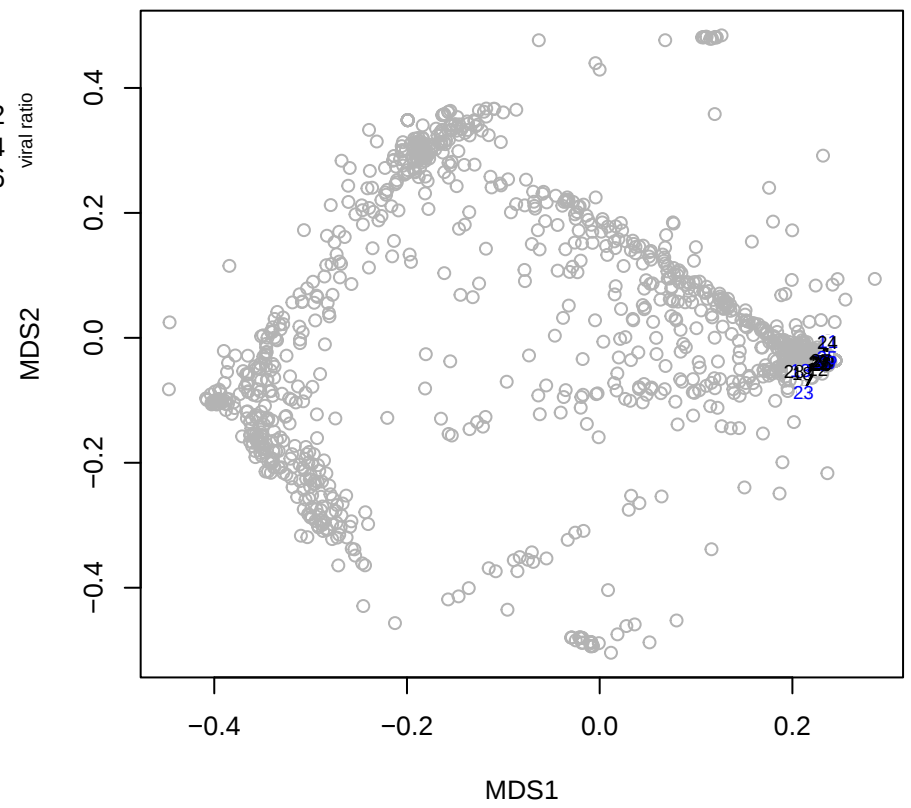
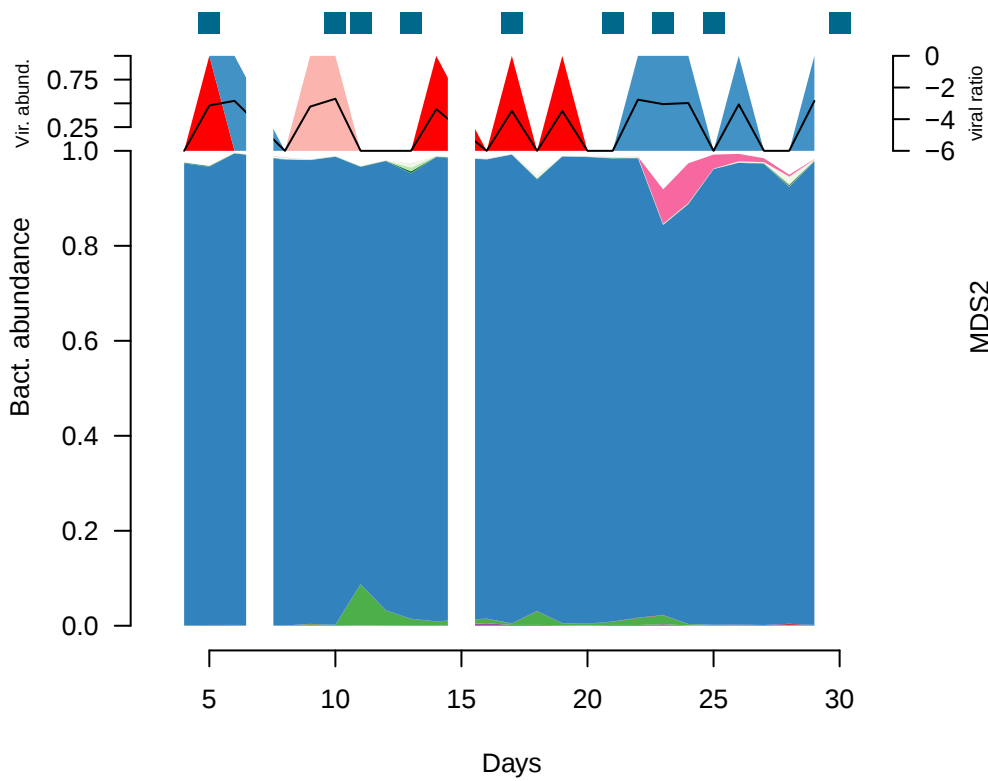
Subject 106



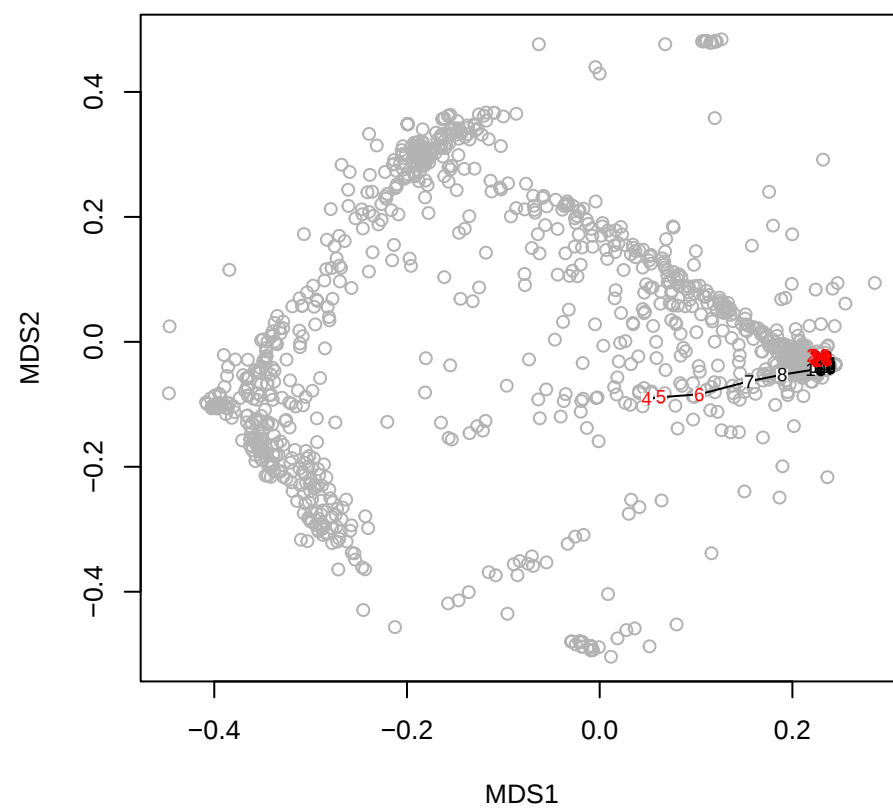
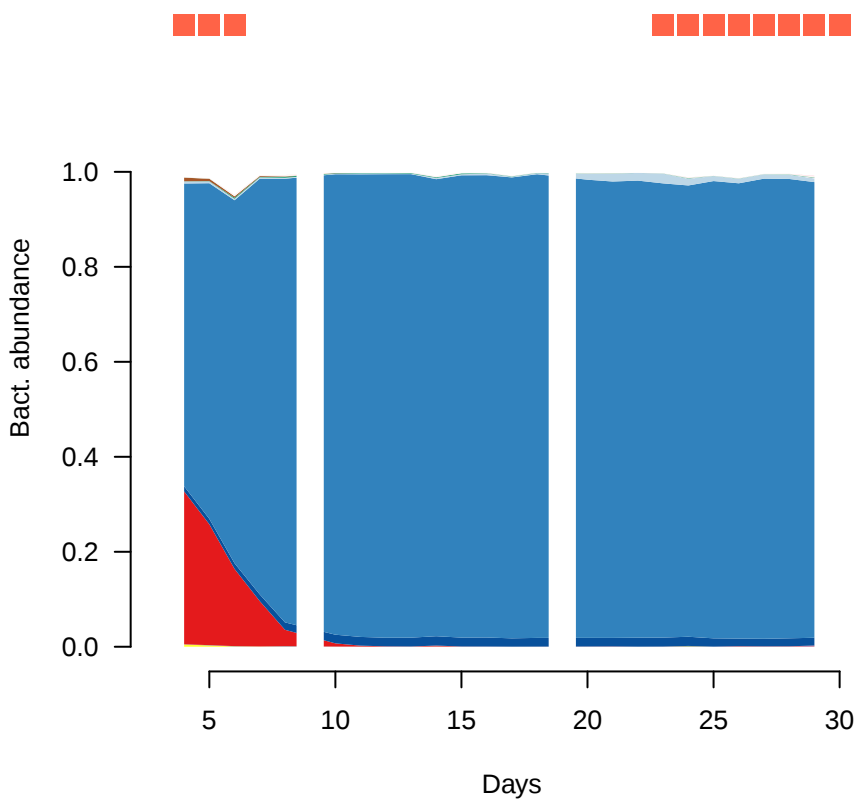
Subject 124



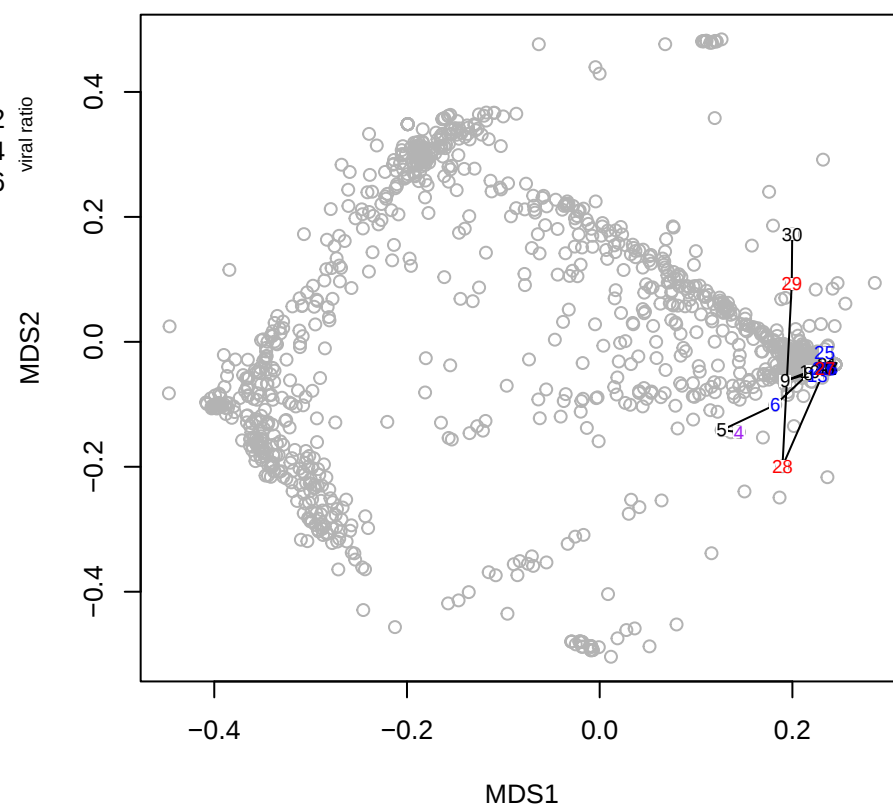
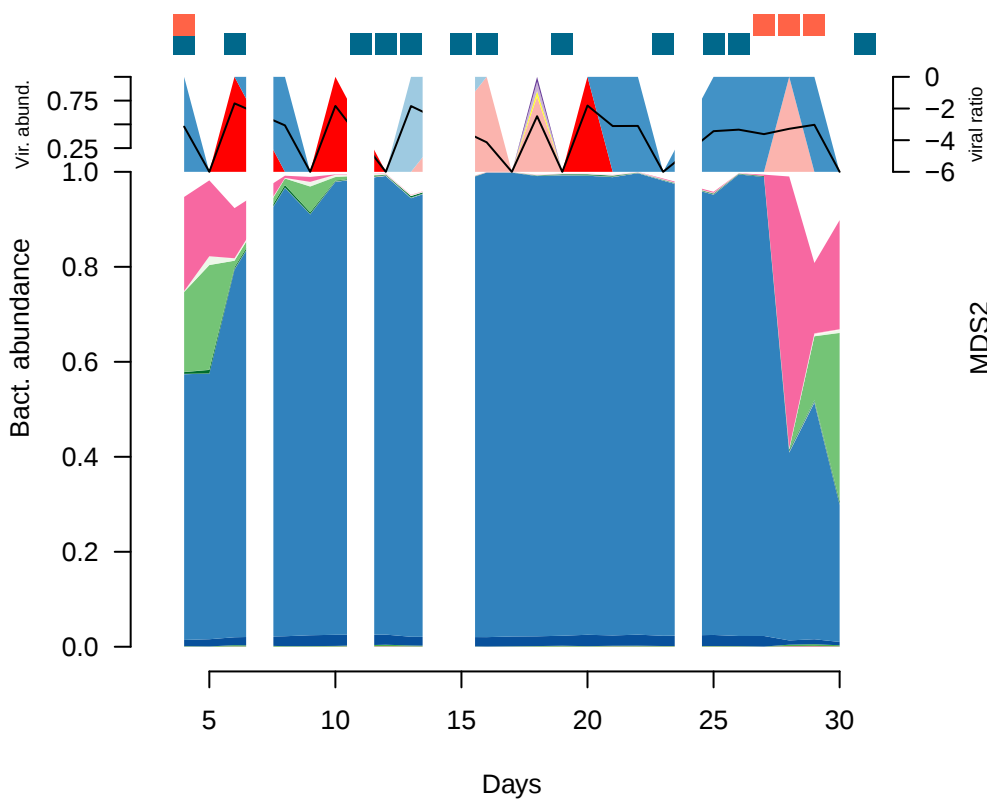
Subject 144



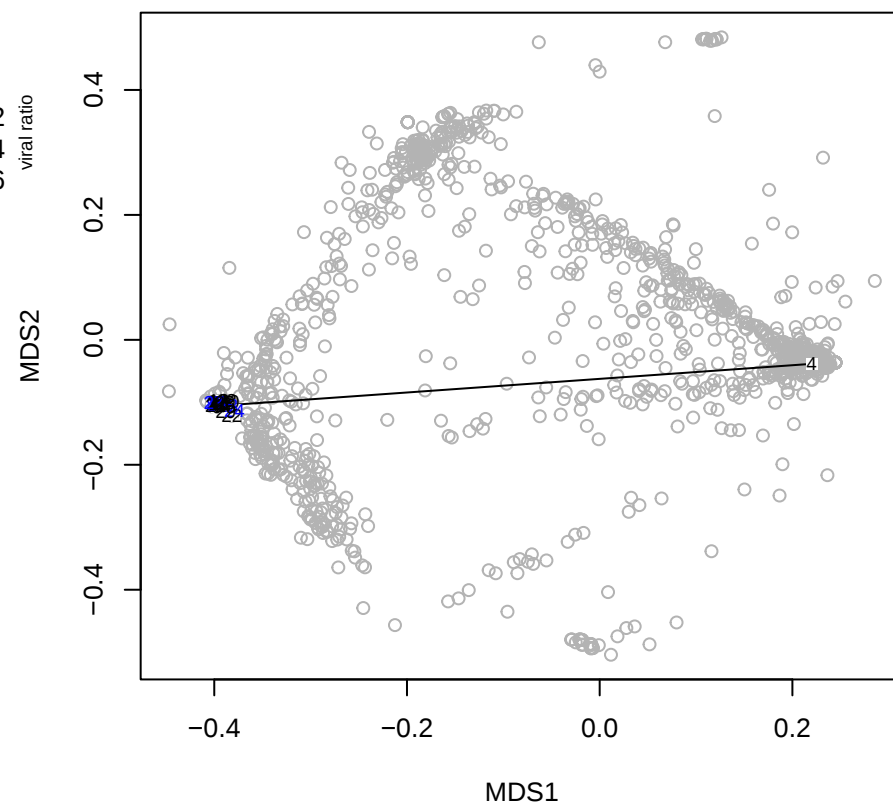
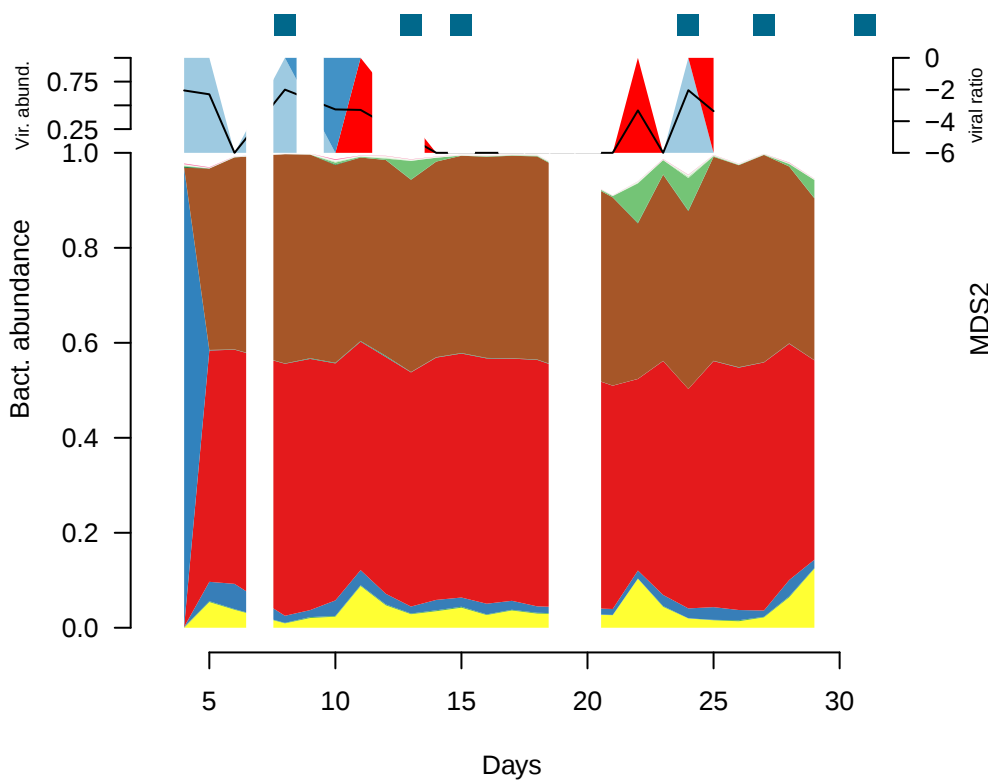
Subject 28



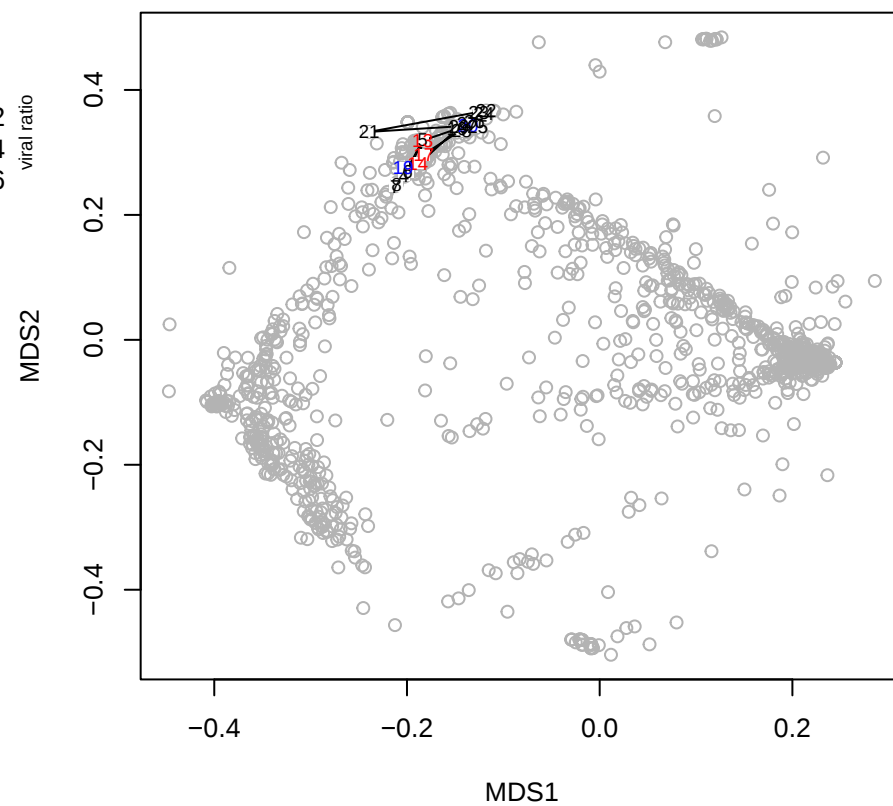
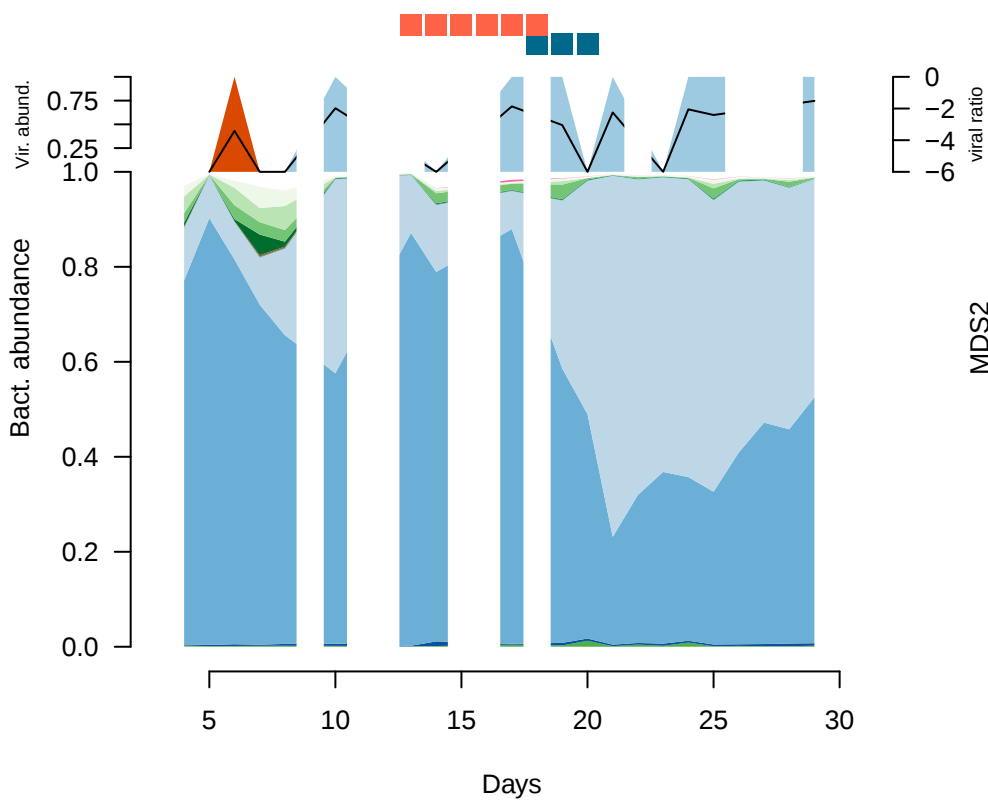
Subject 45



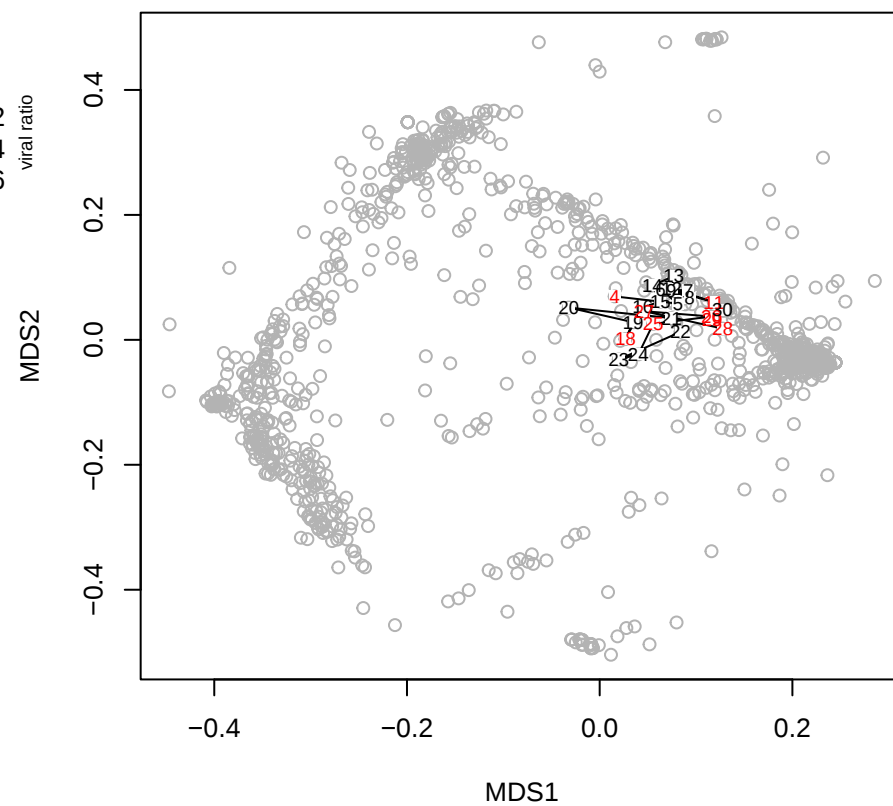
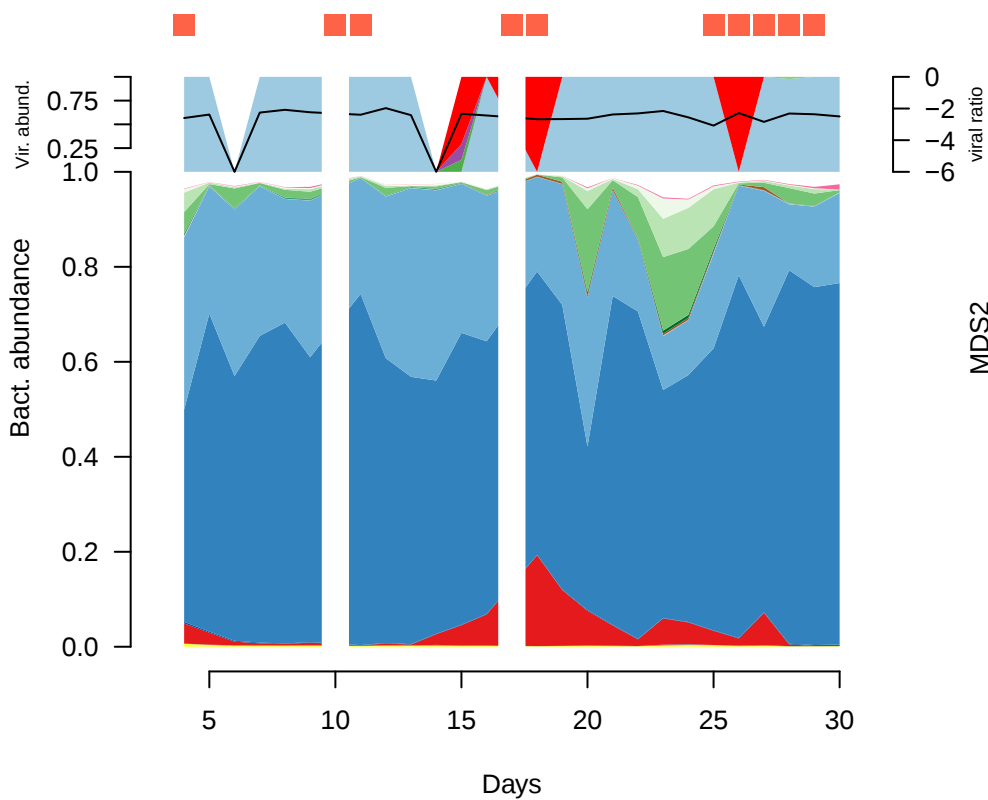
Subject 60



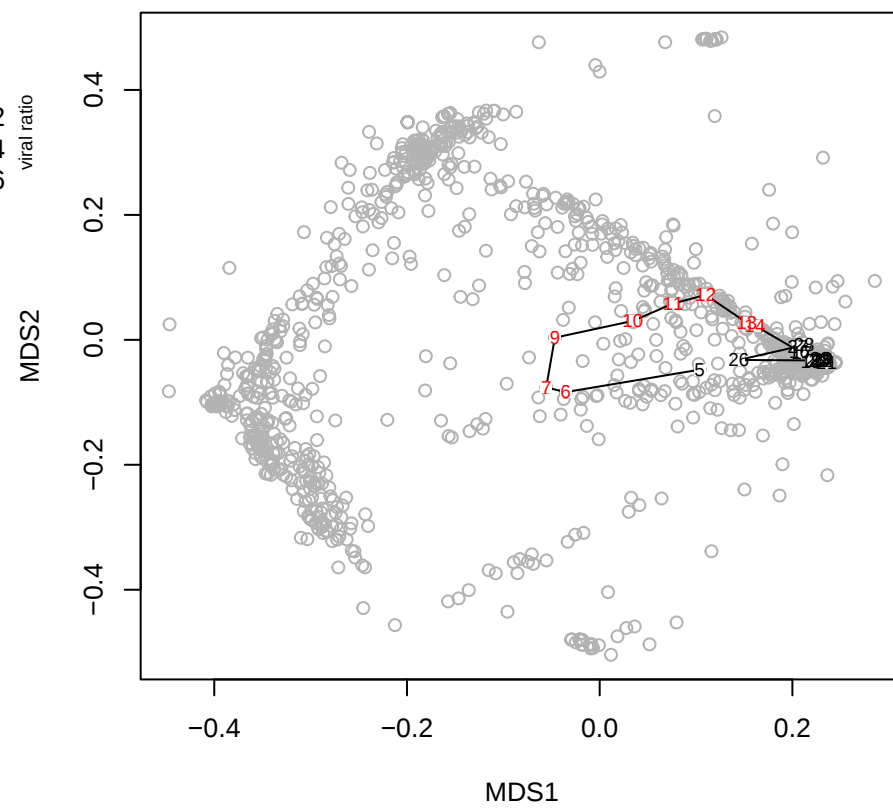
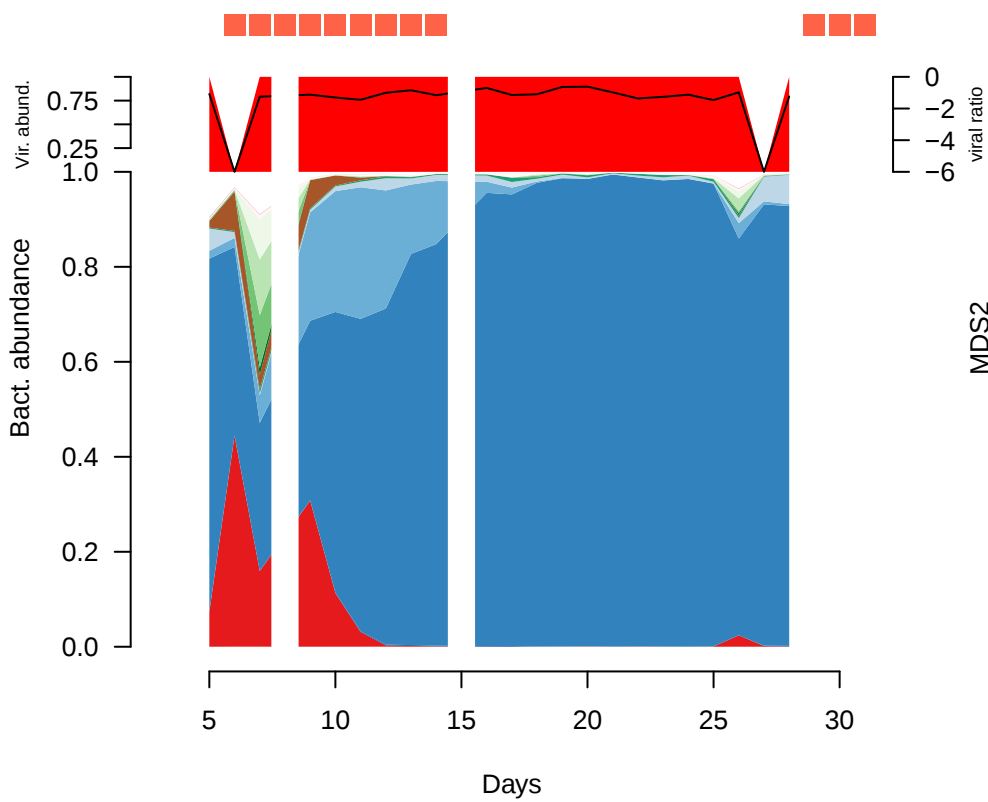
Subject 84



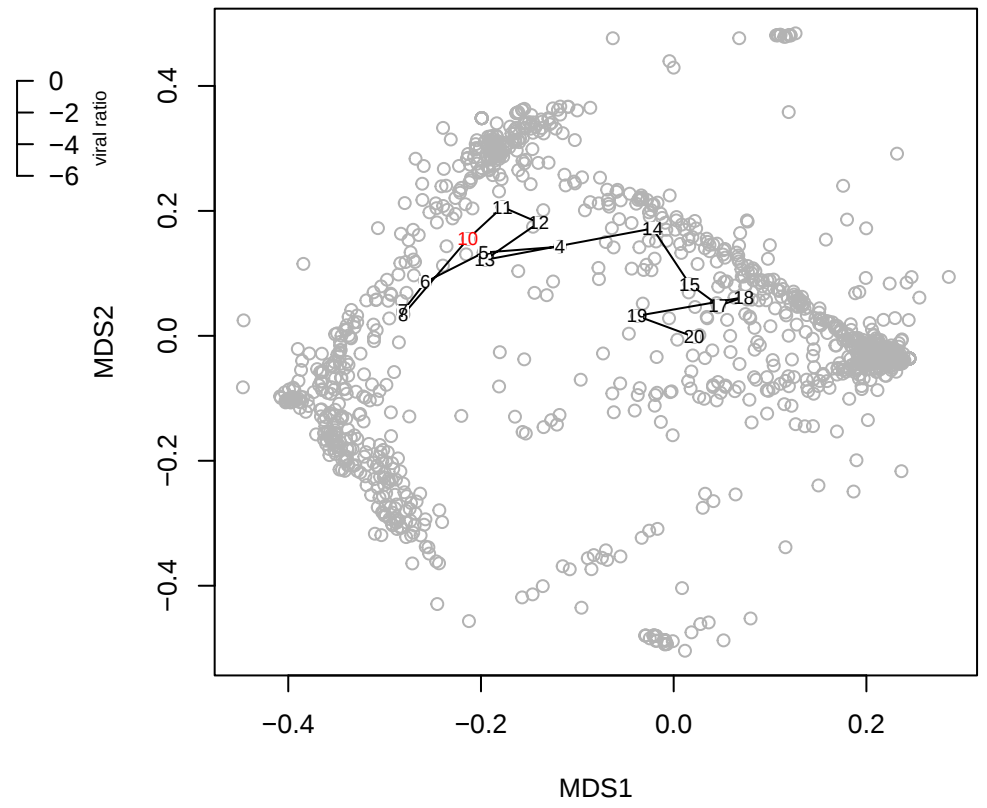
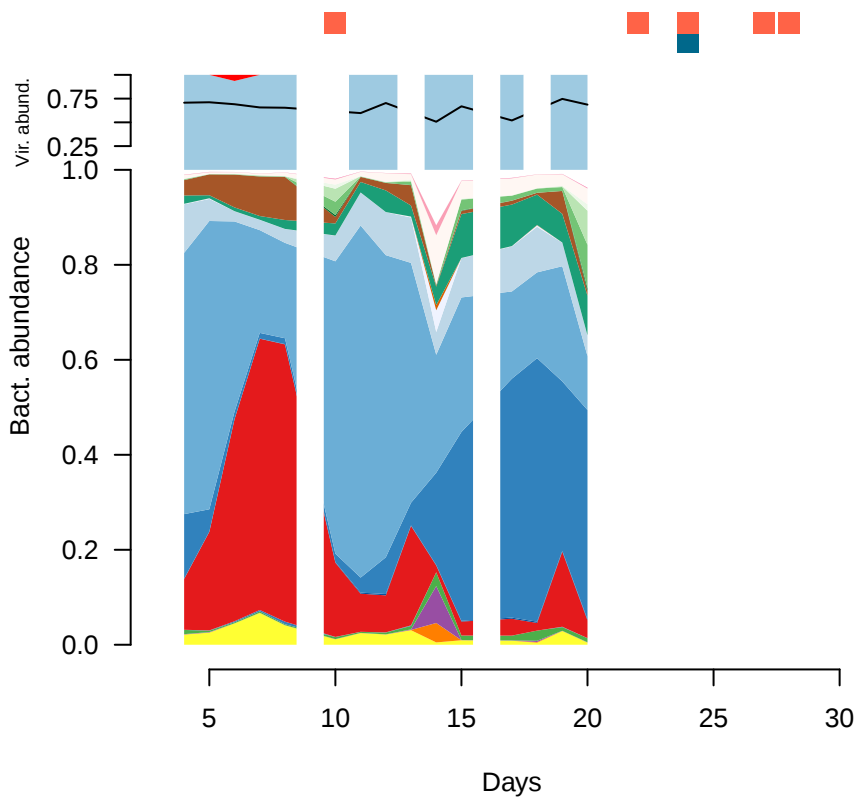
Subject 97



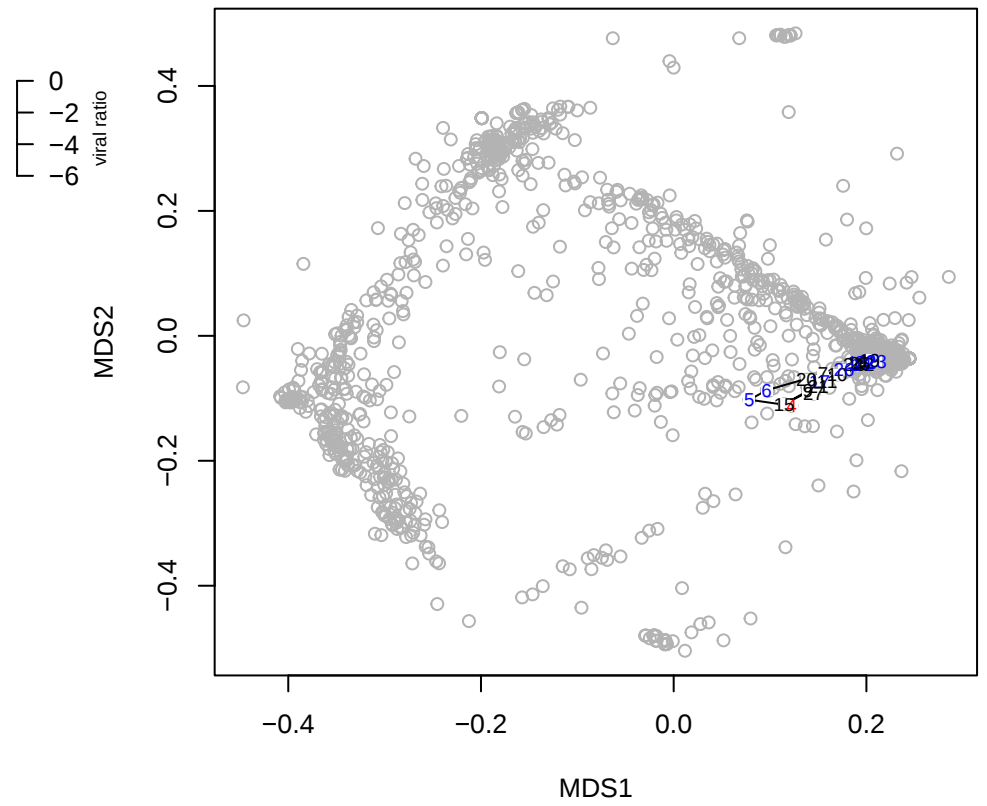
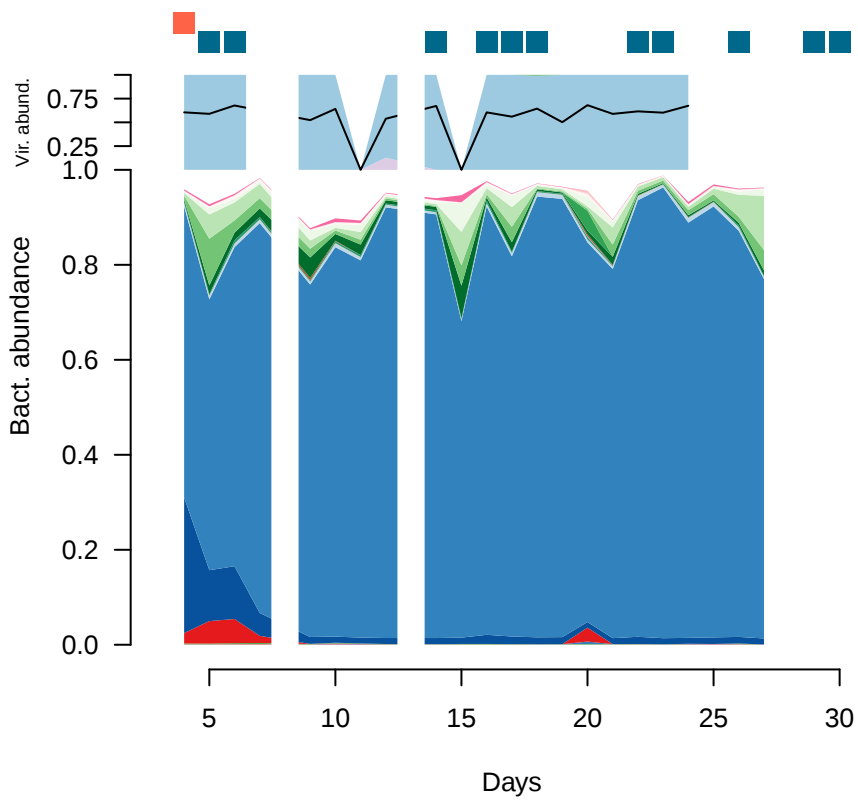
Subject 110



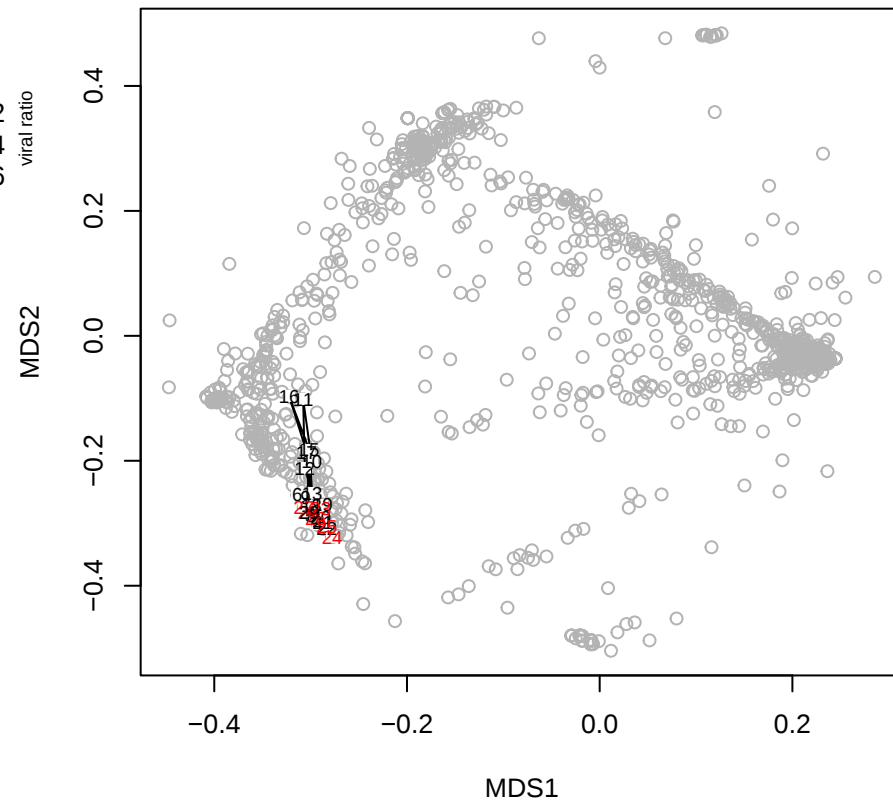
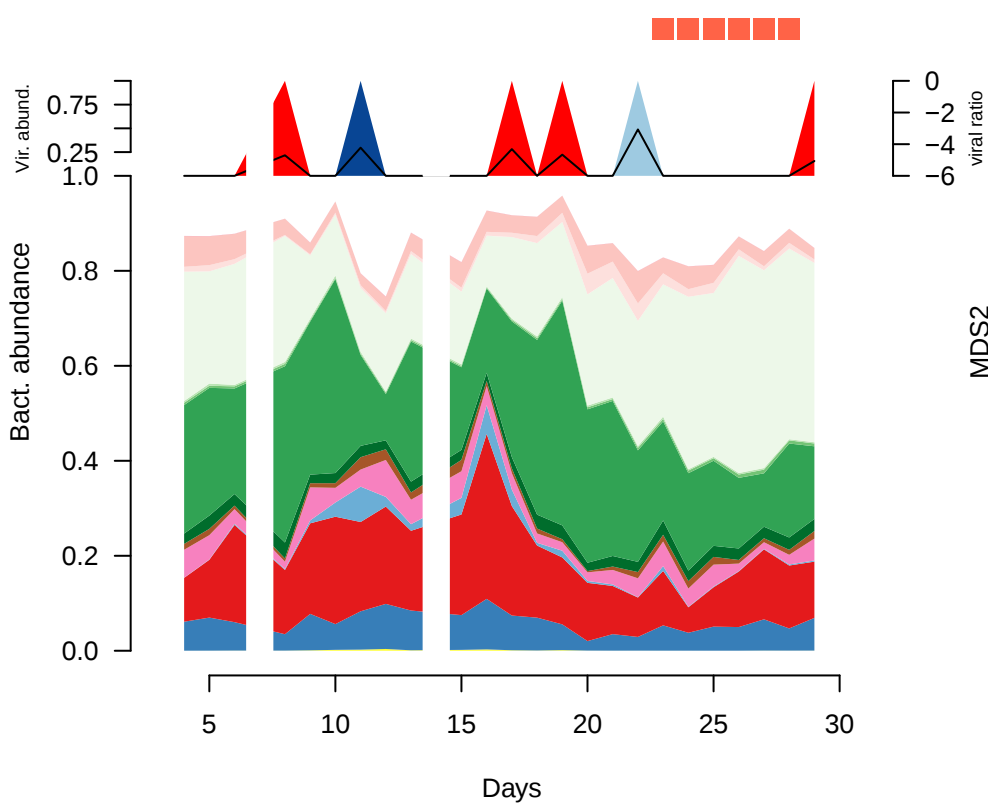
Subject 127



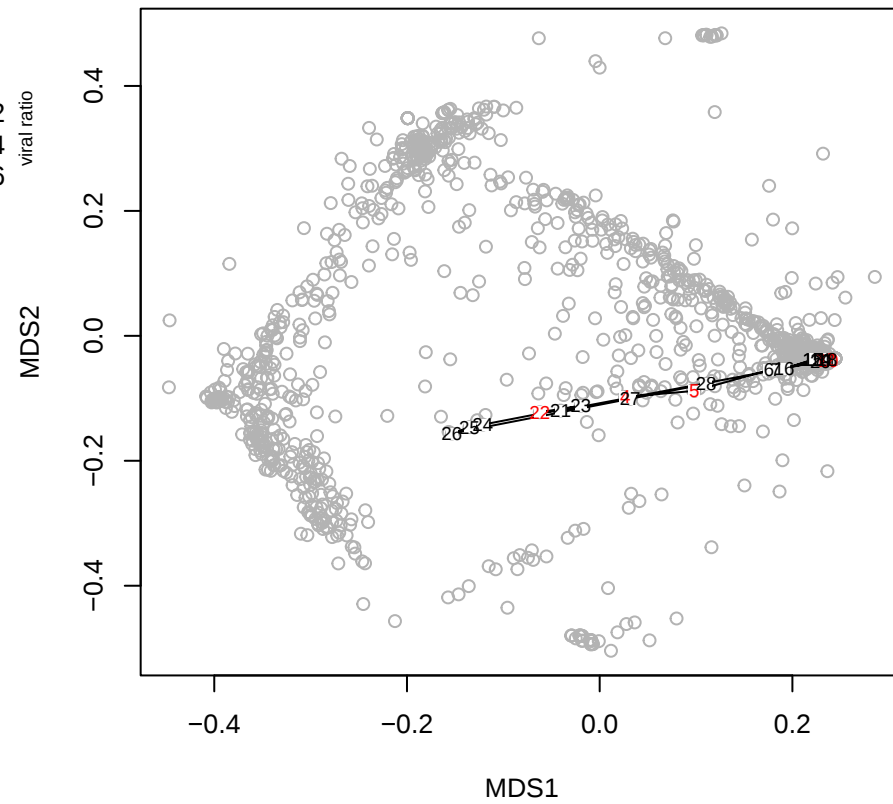
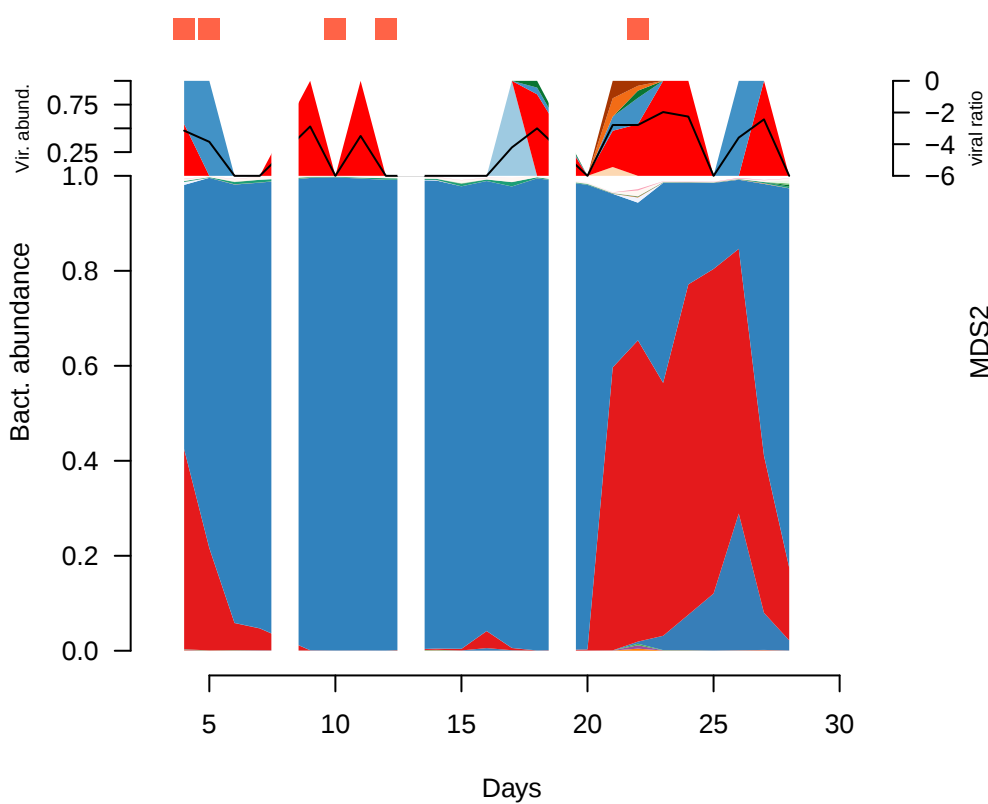
Subject 145



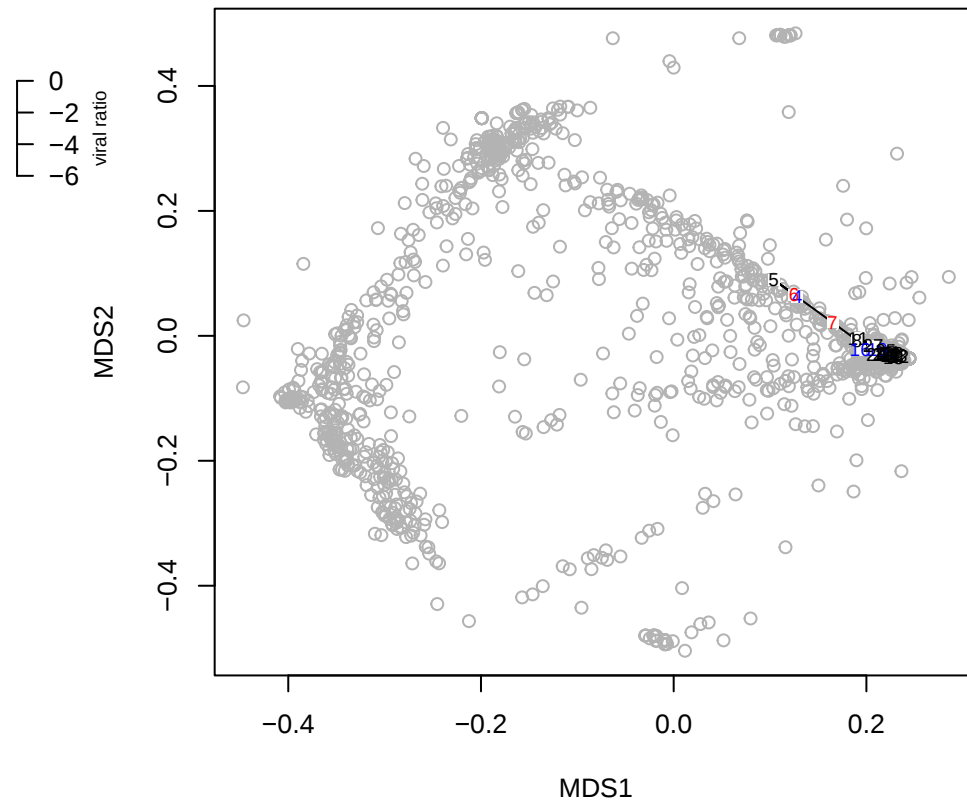
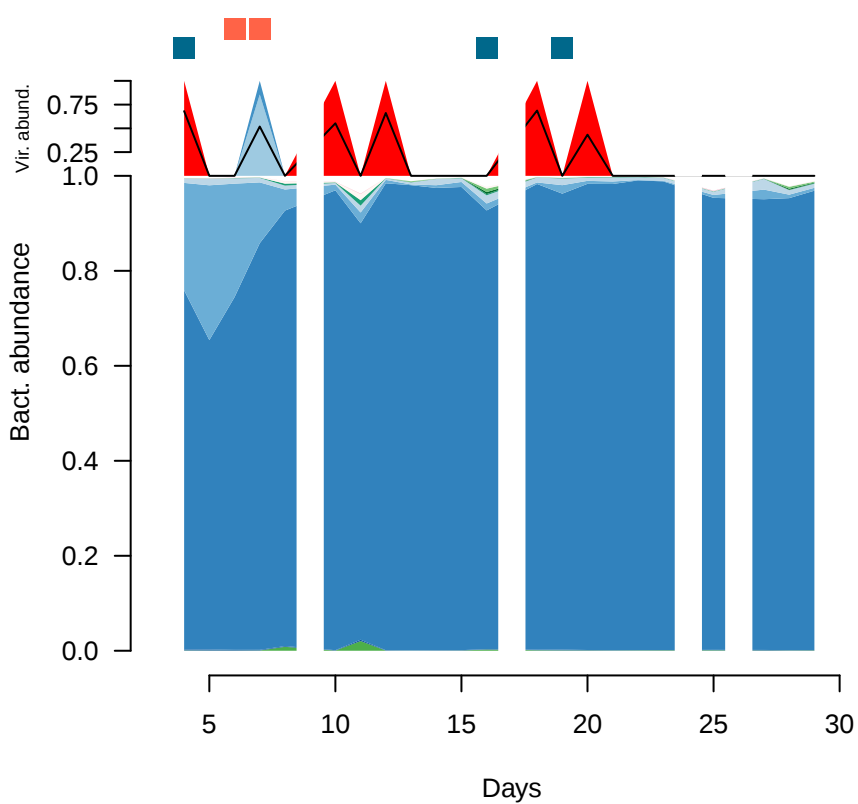
Subject 30



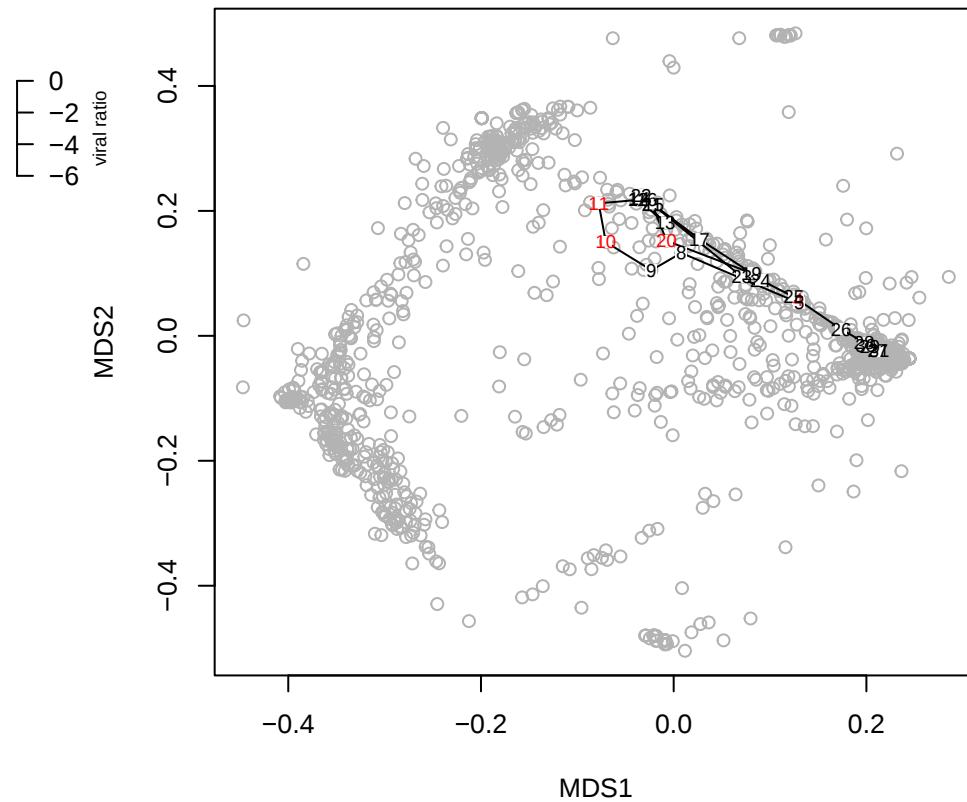
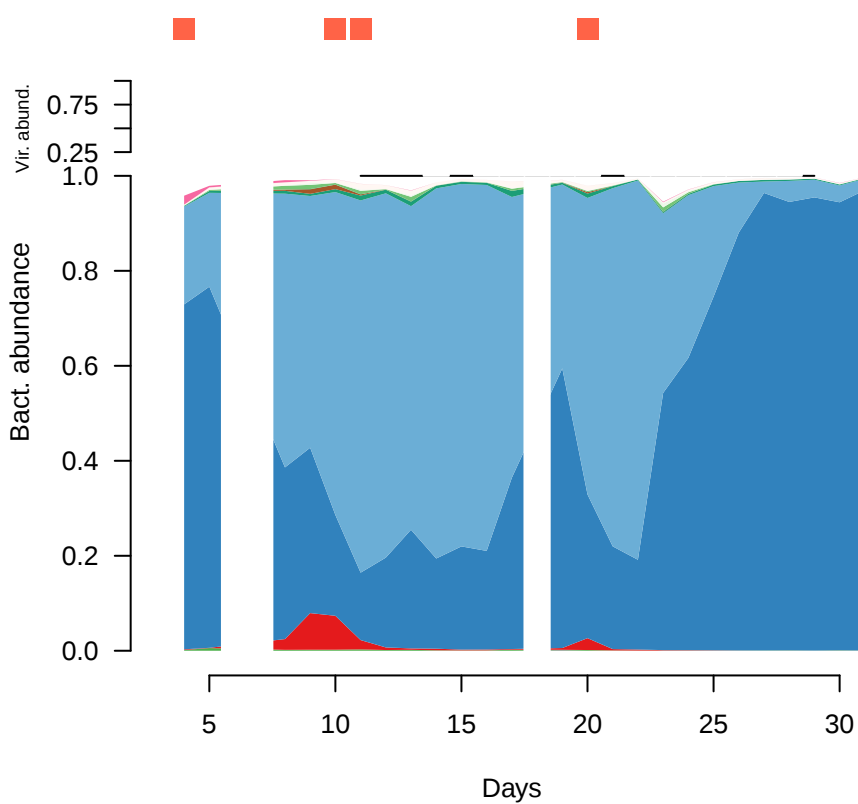
Subject 62



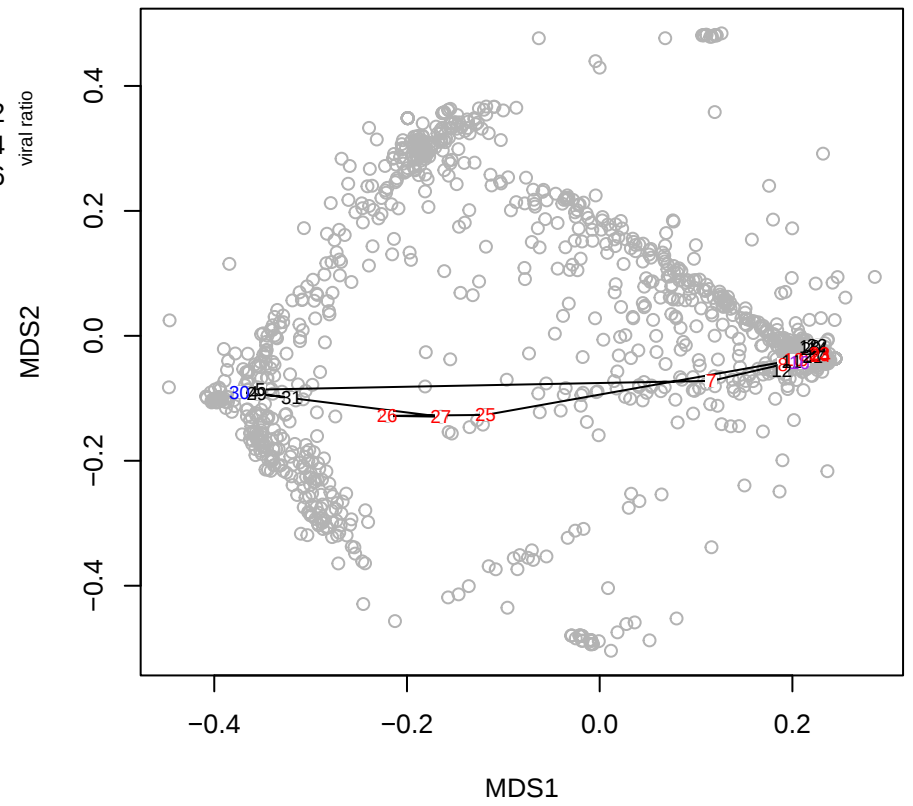
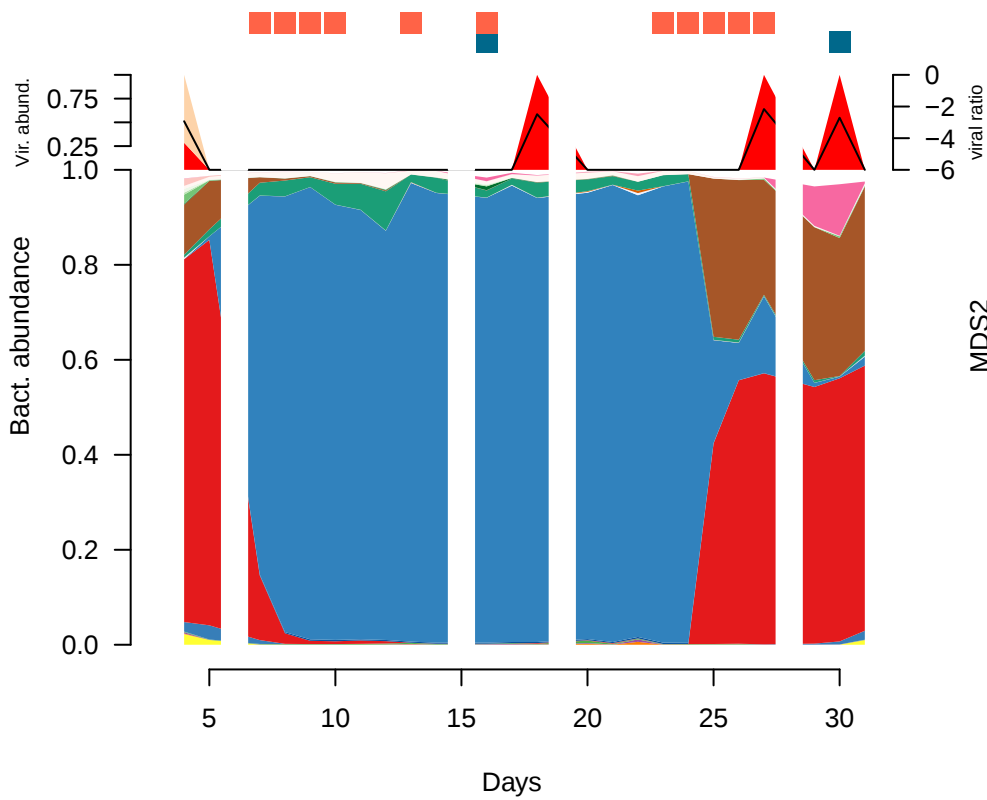
Subject 86



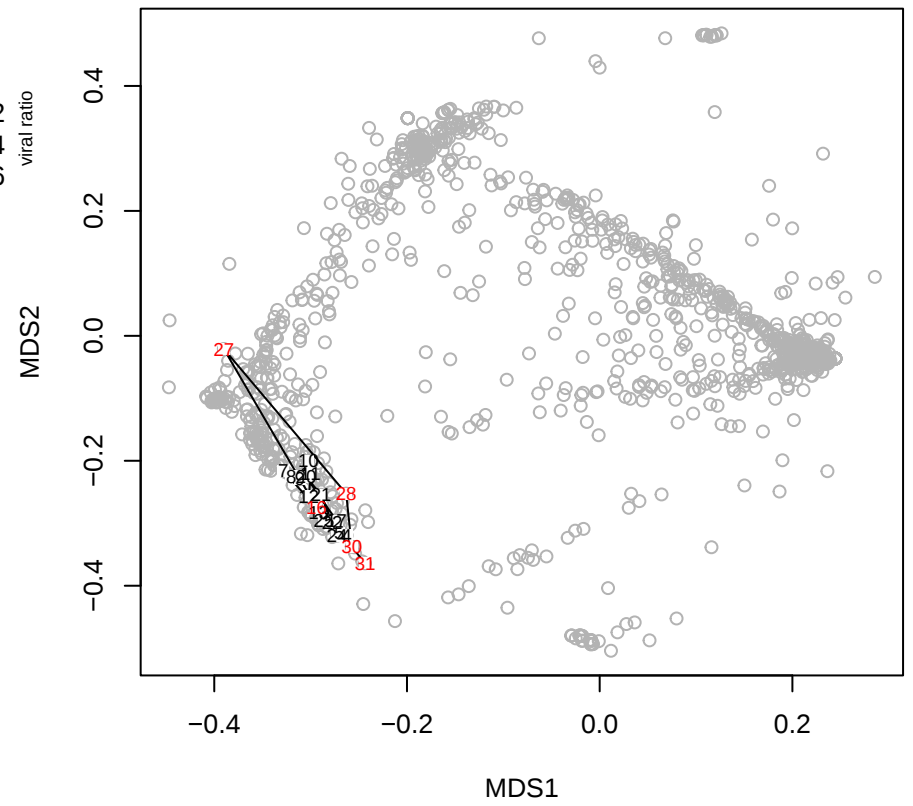
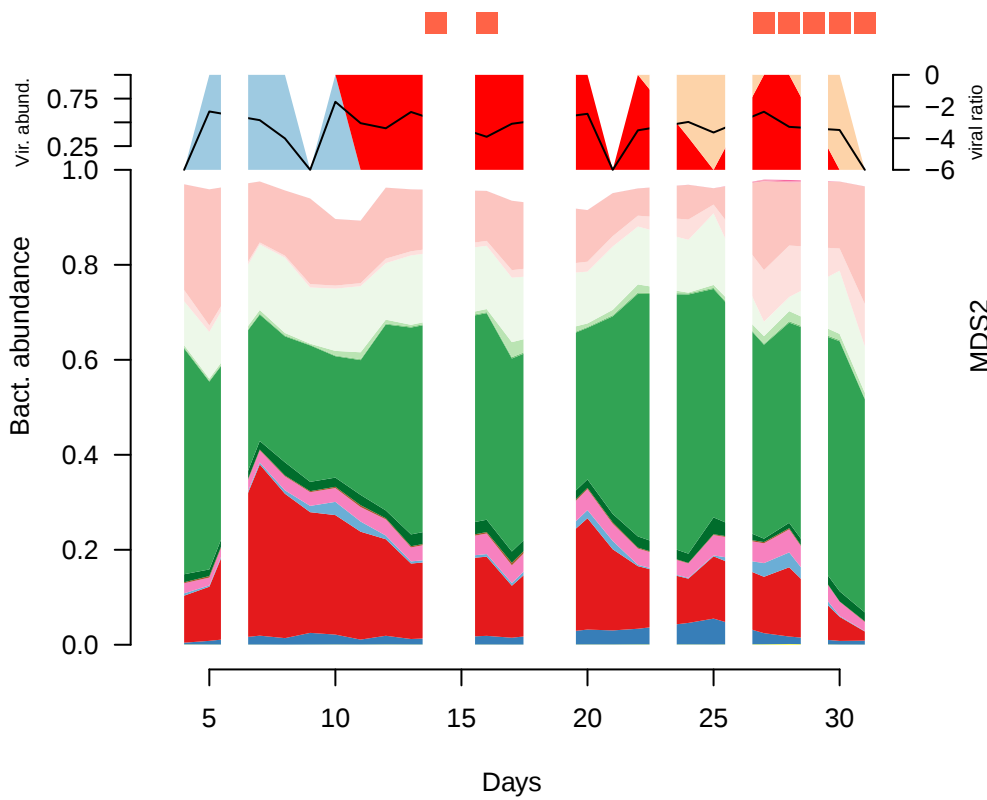
Subject 98



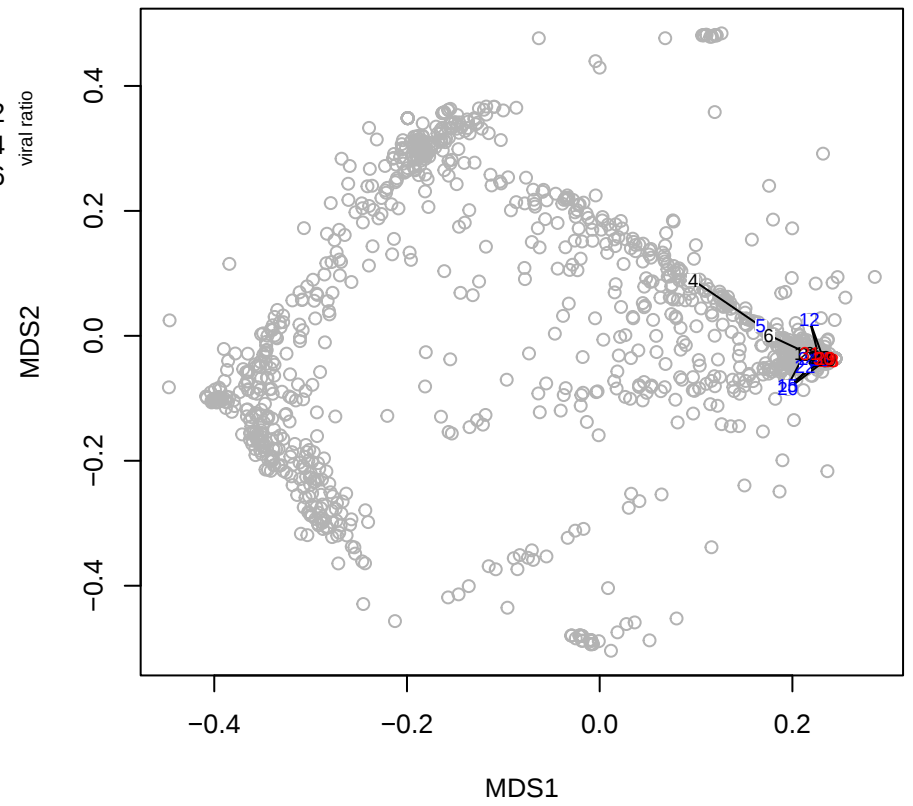
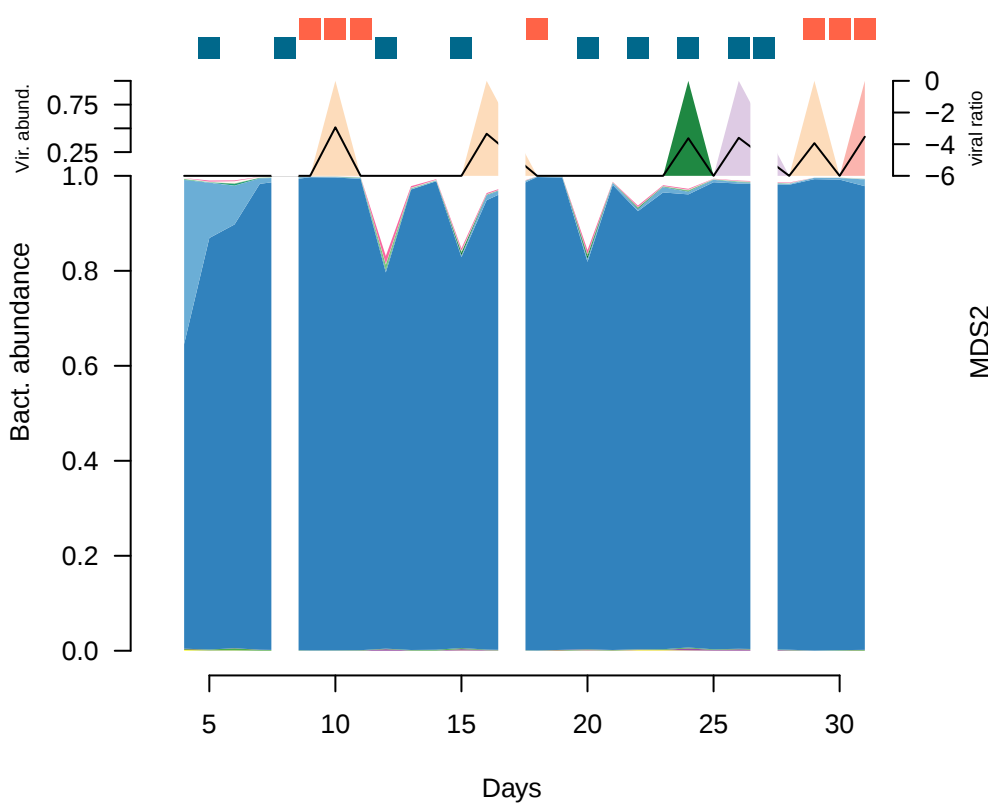
Subject 115



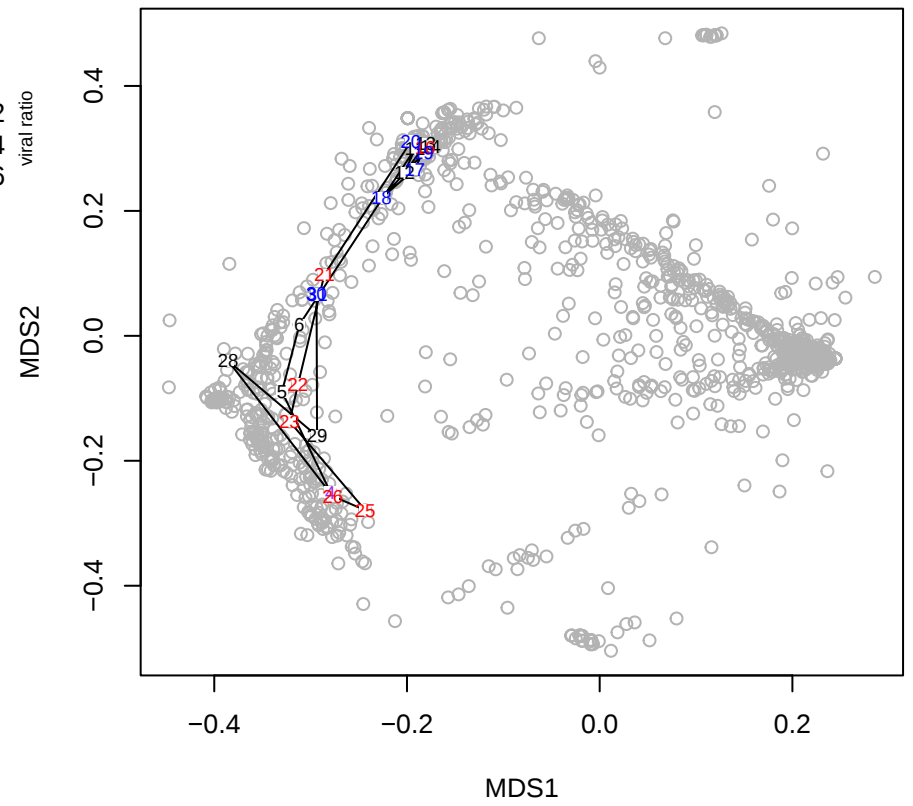
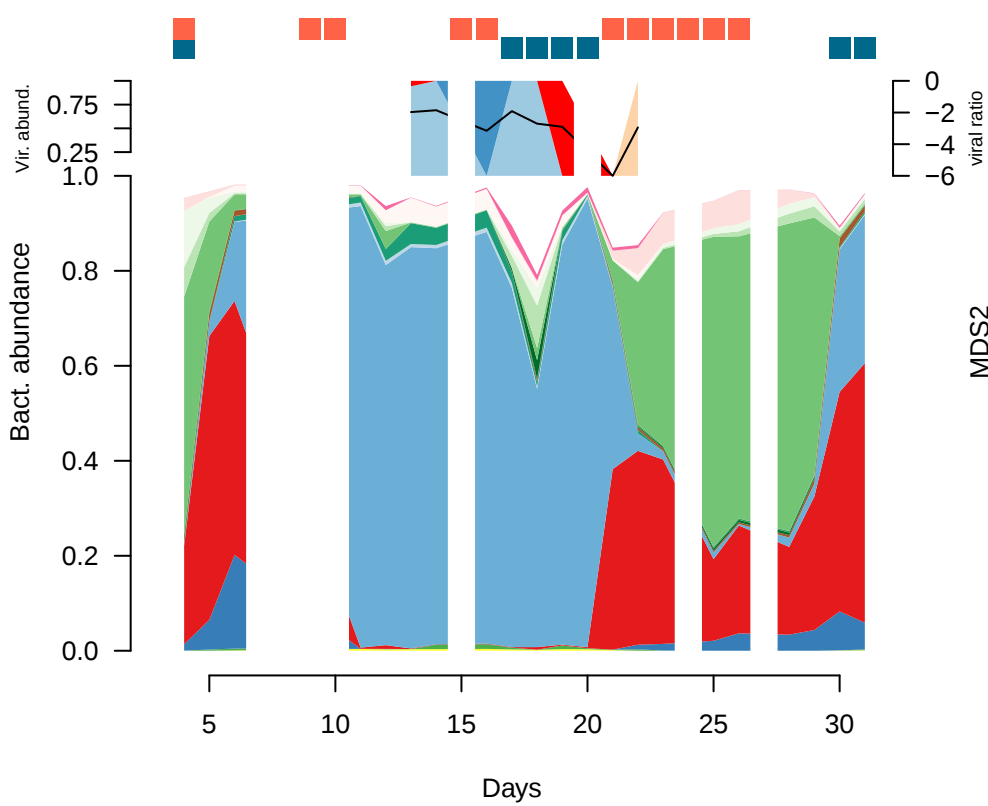
Subject 130



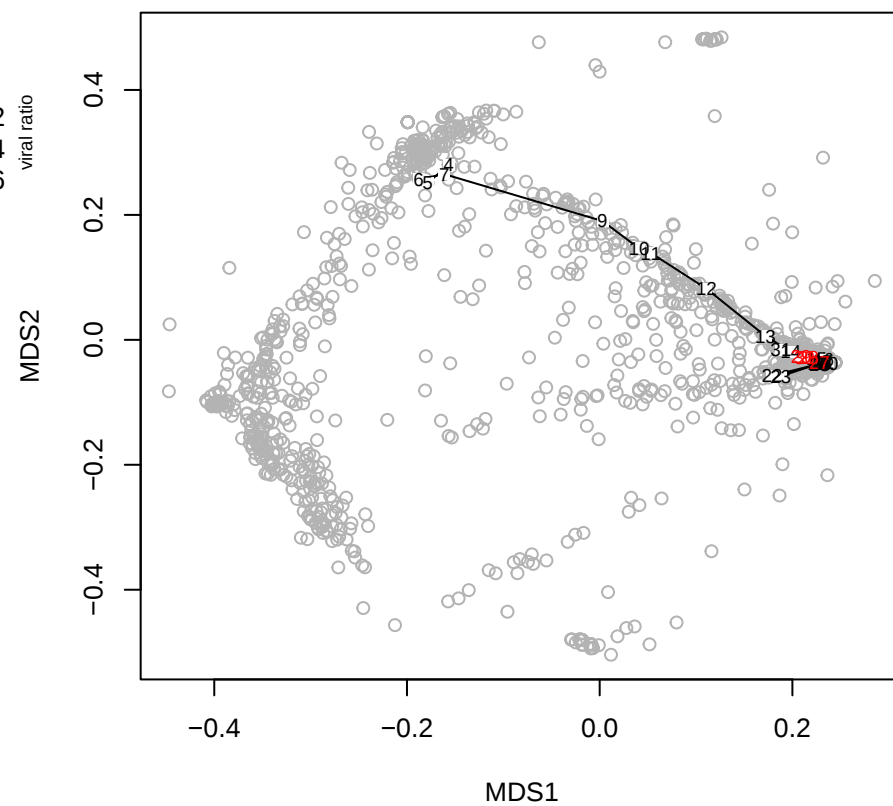
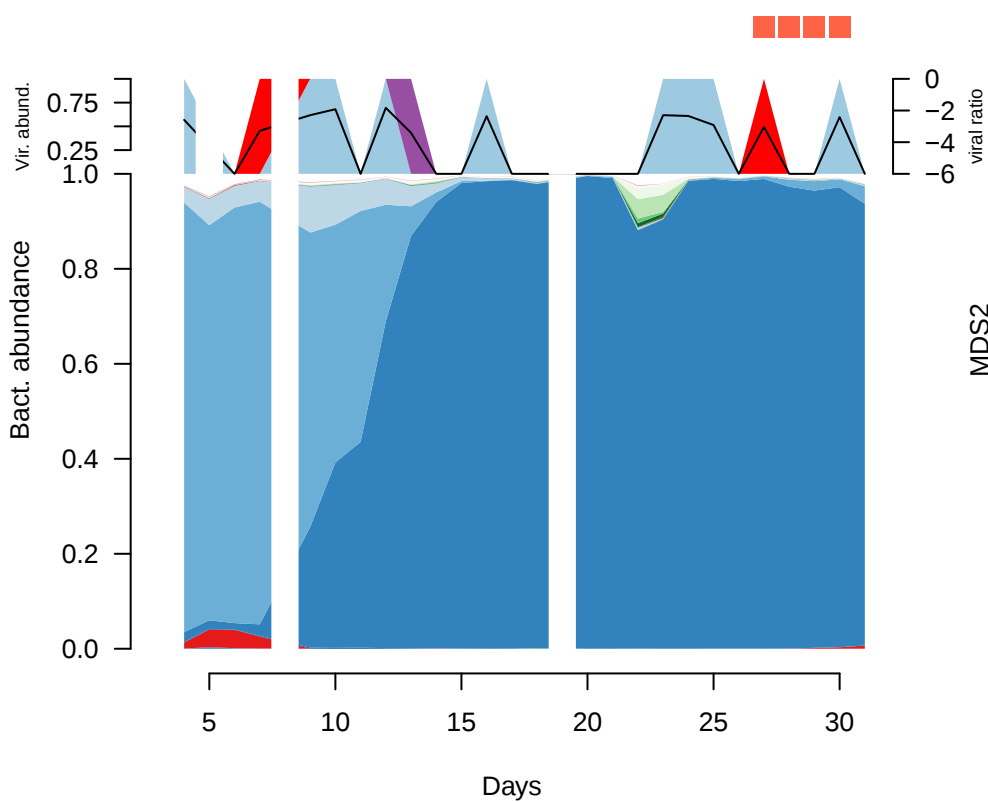
Subject 148



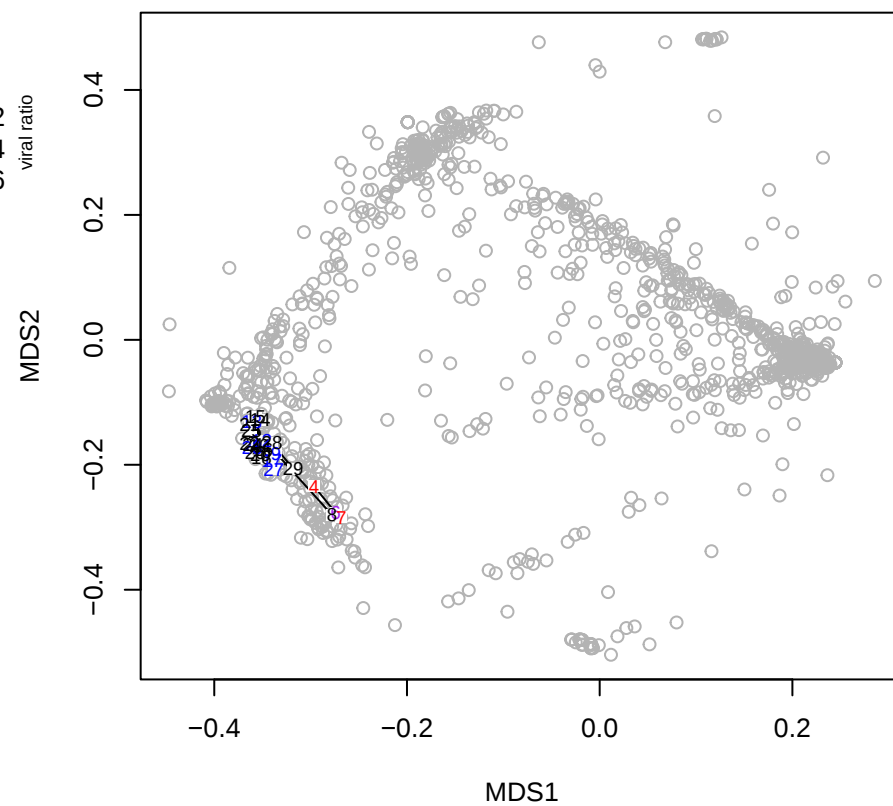
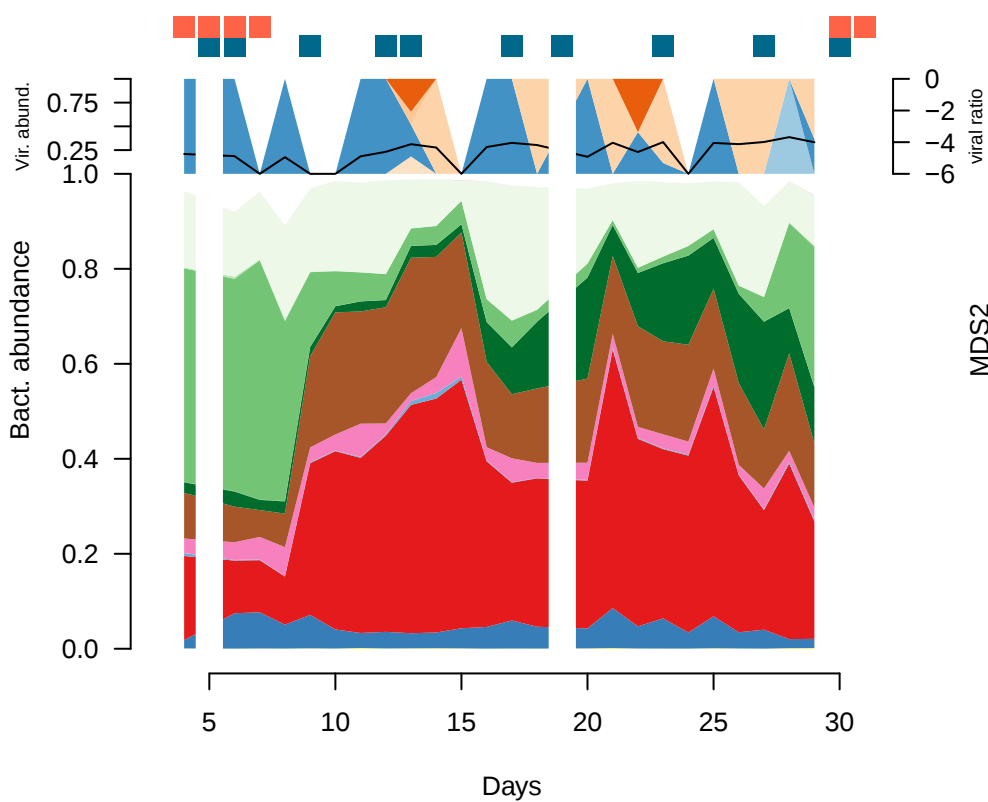
Subject 164



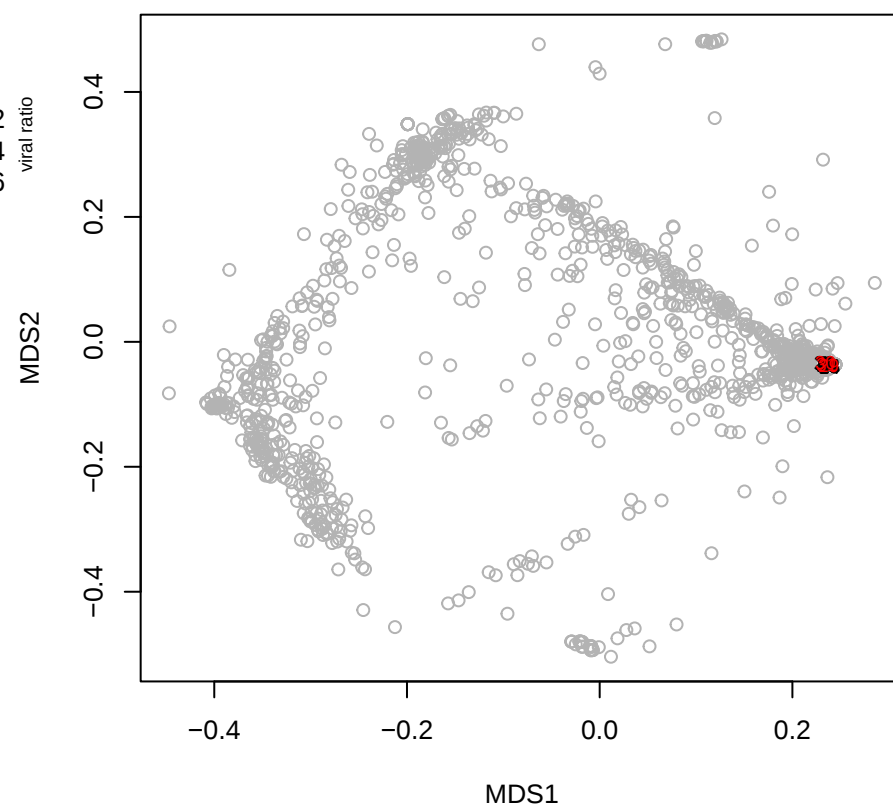
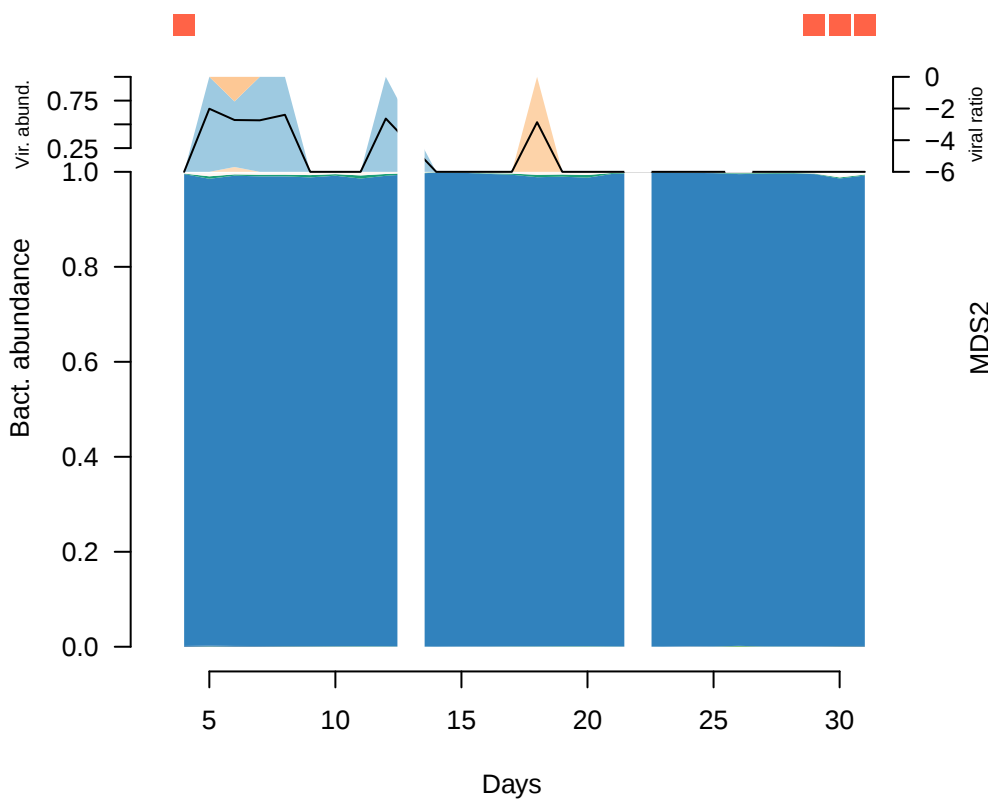
Subject 32



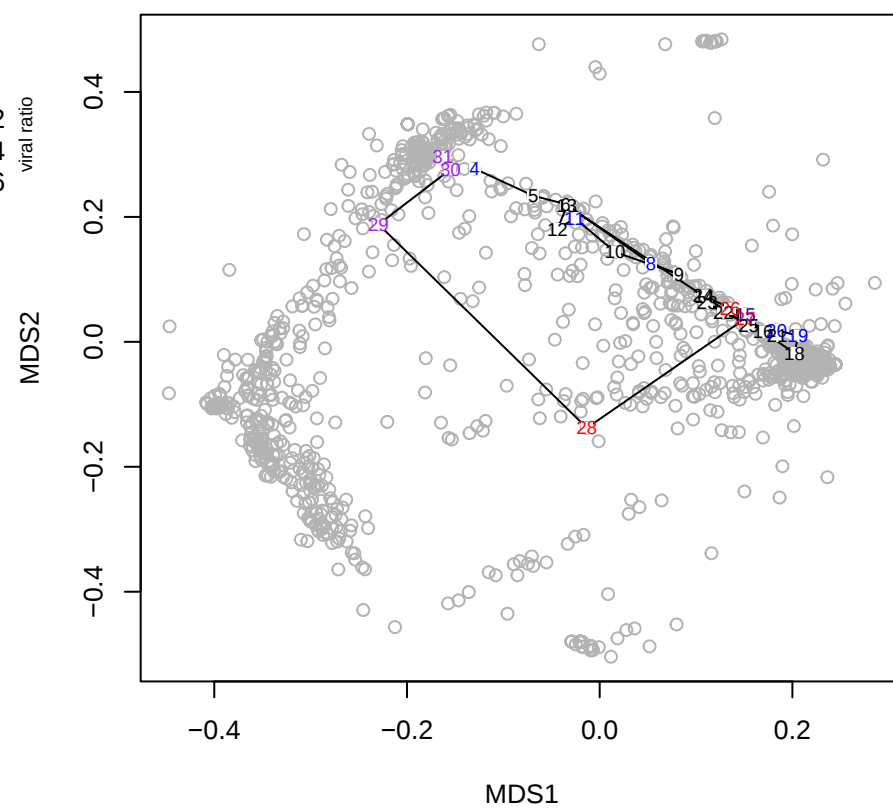
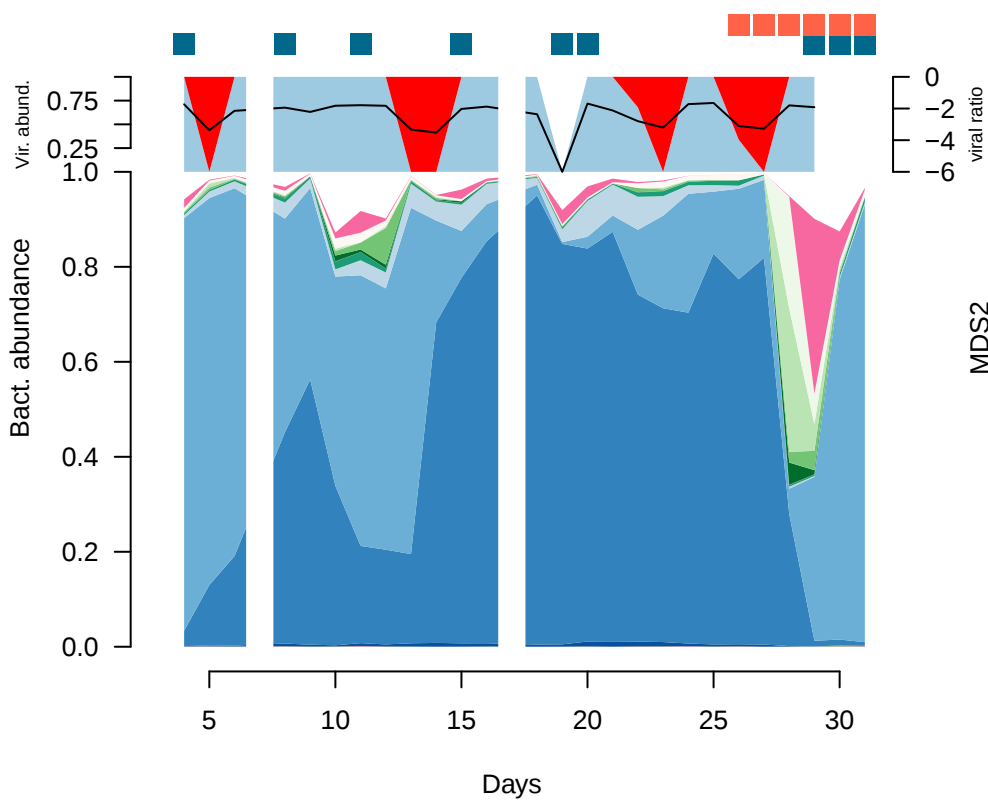
Subject 48



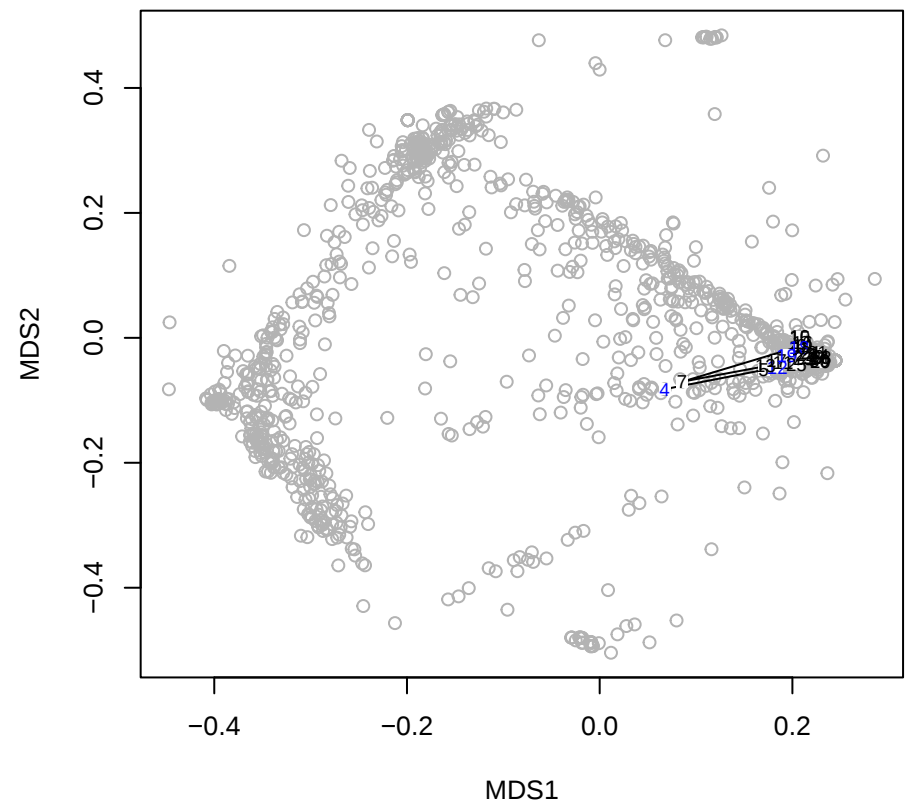
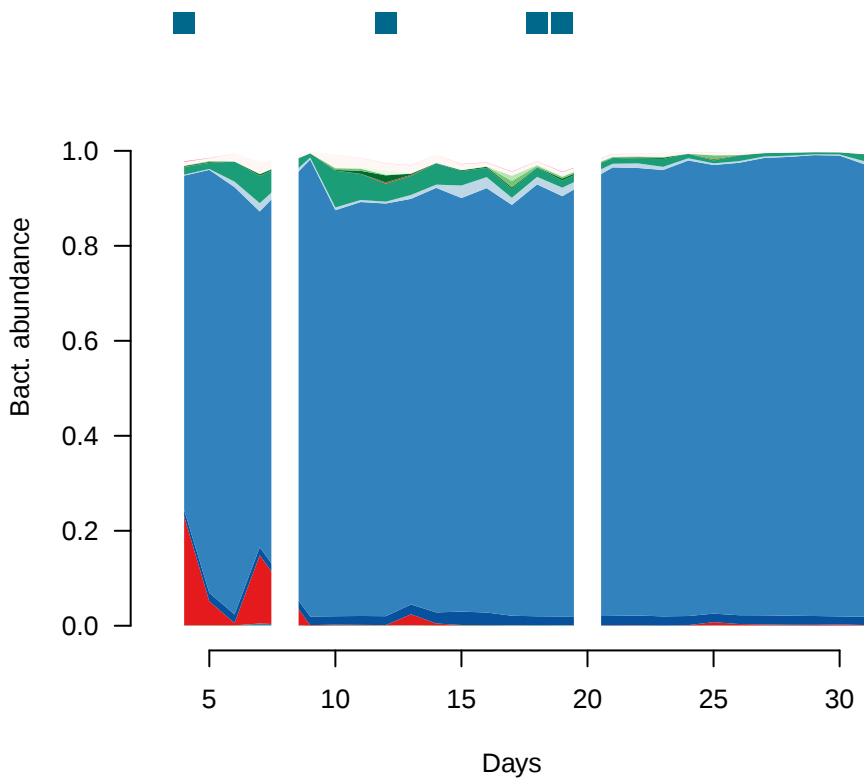
Subject 75



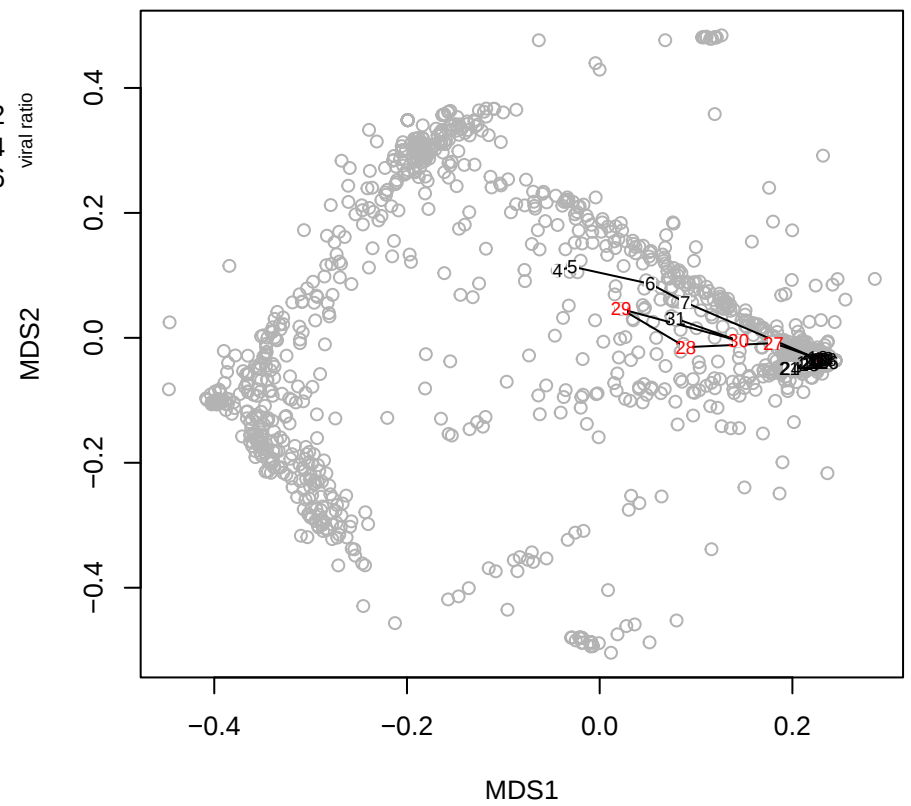
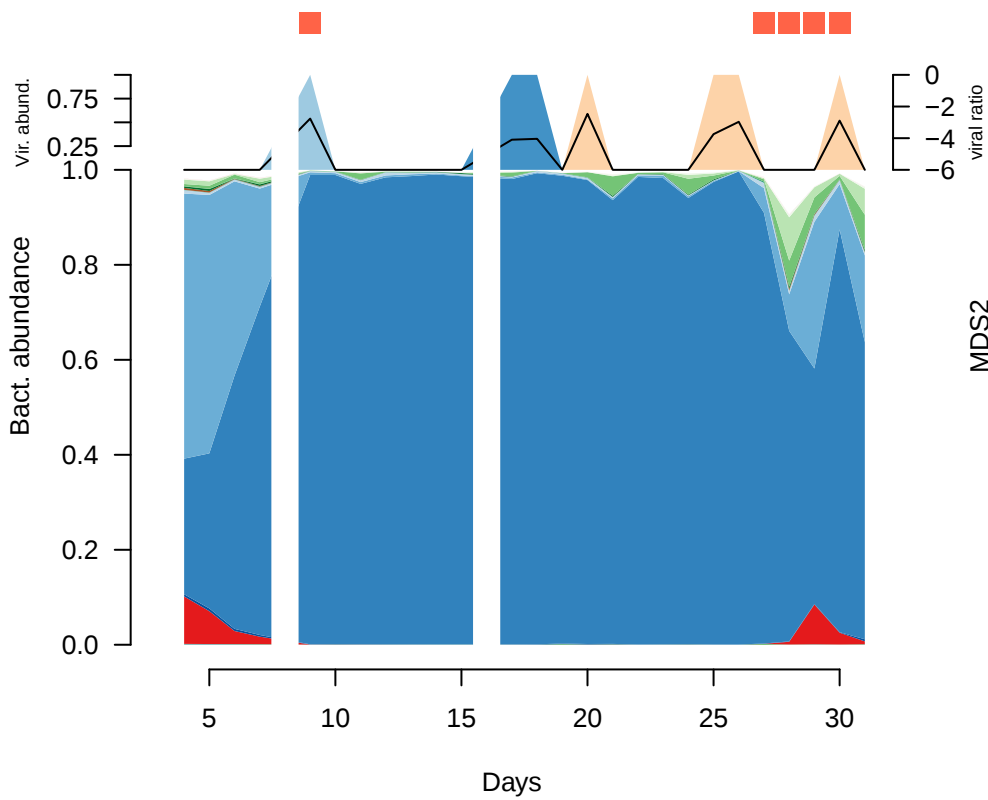
Subject 87



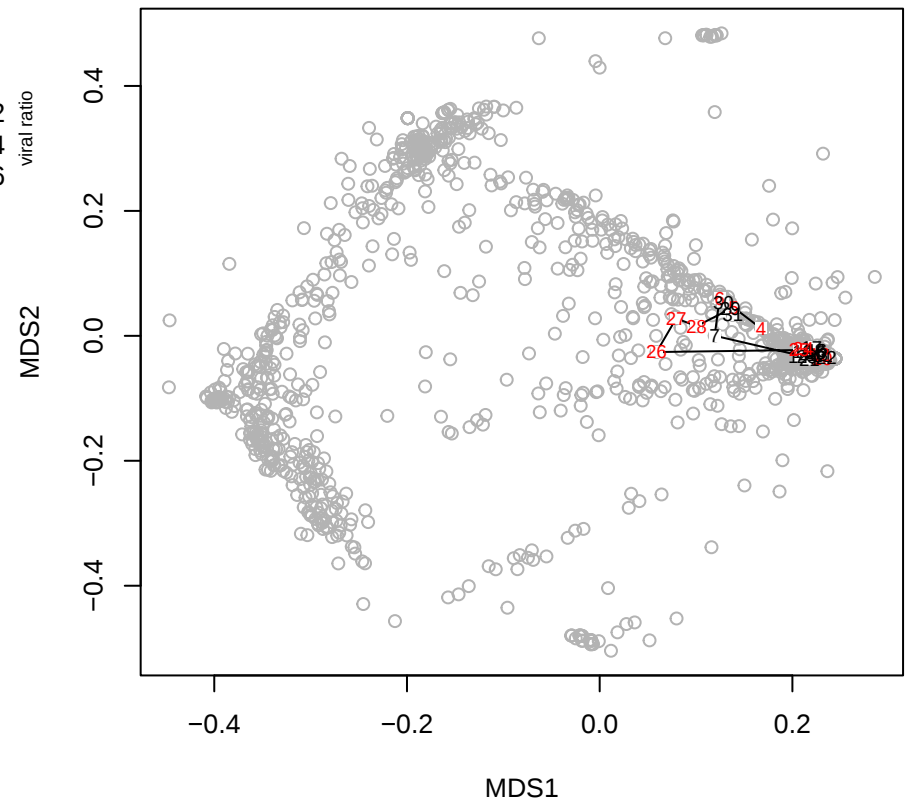
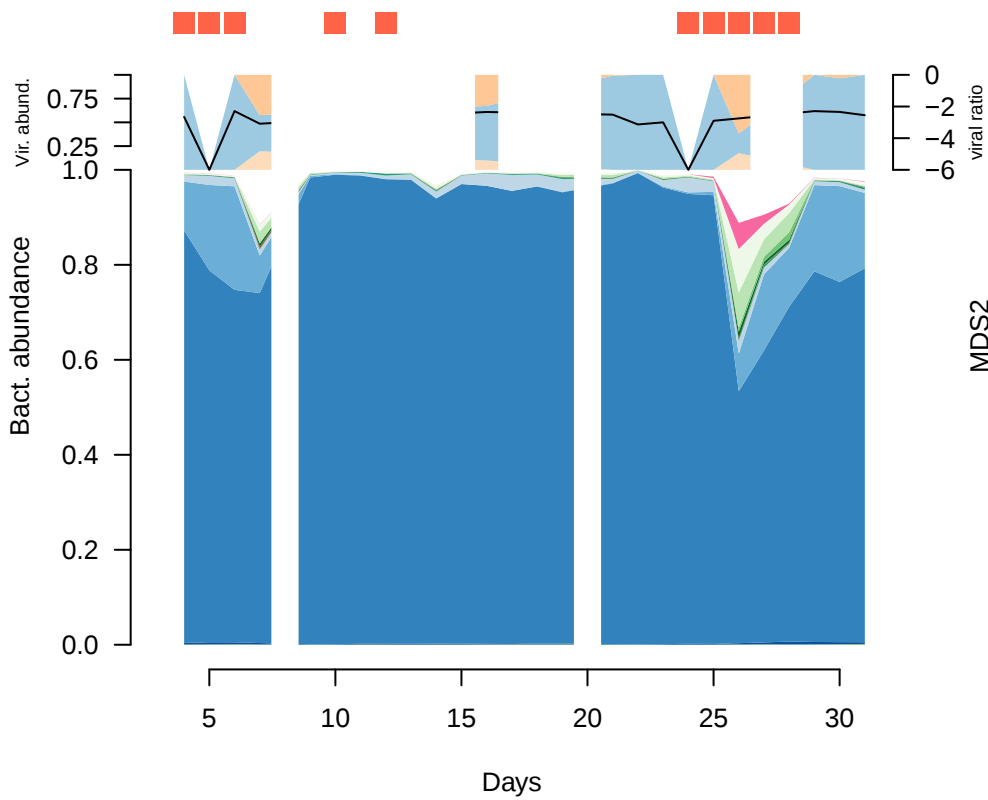
Subject 117



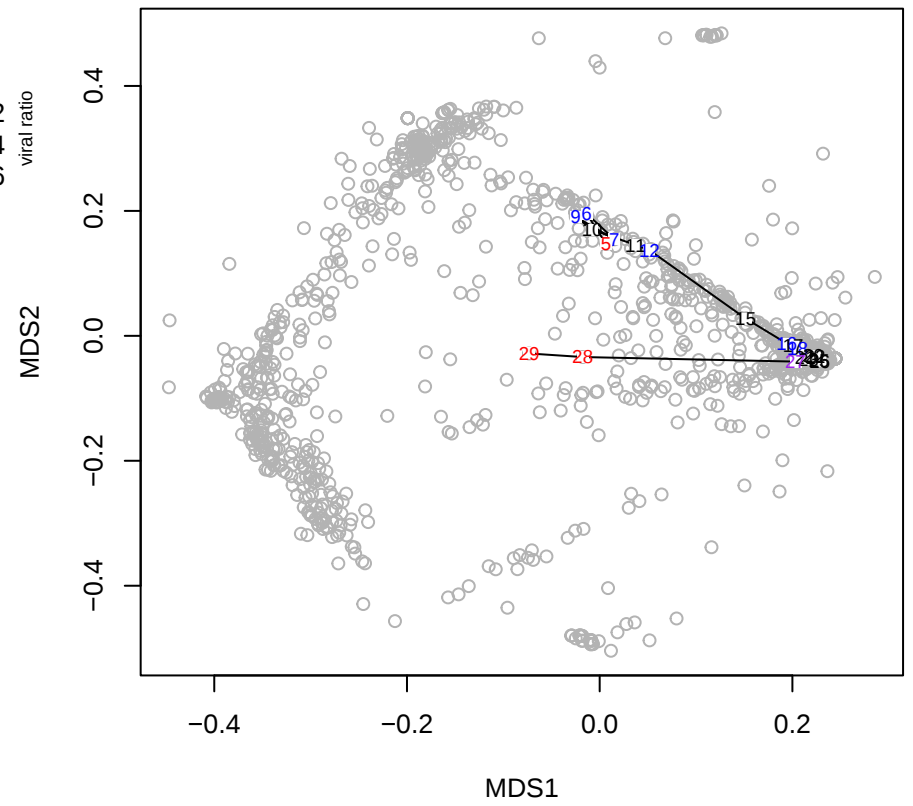
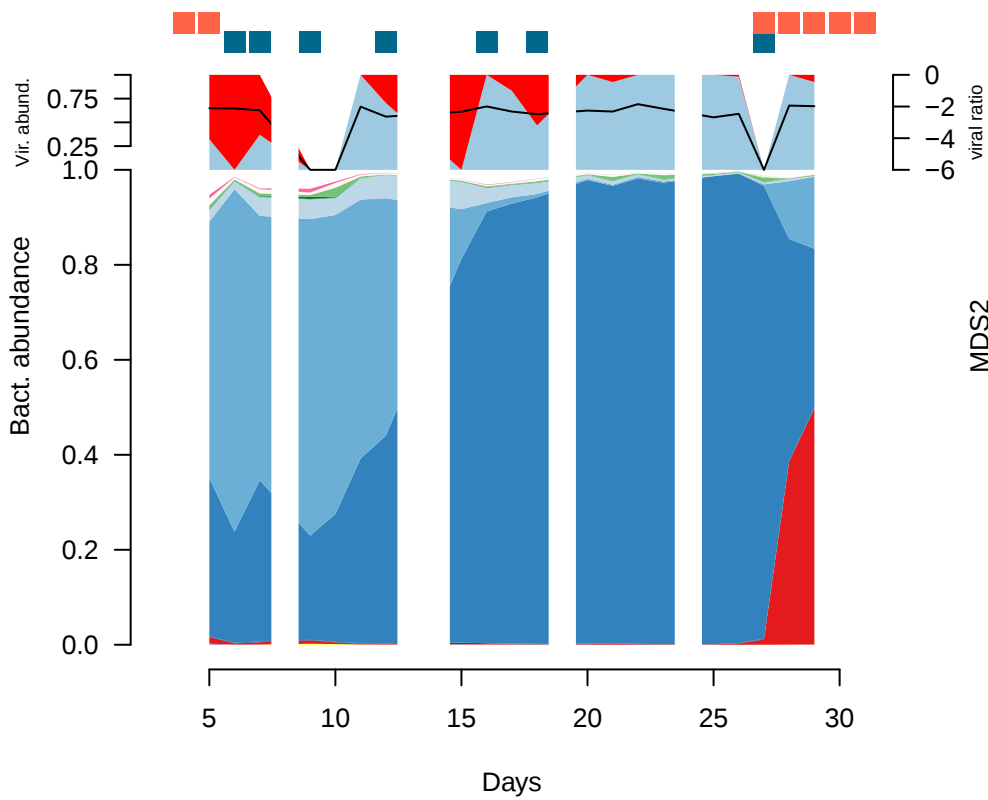
Subject 137



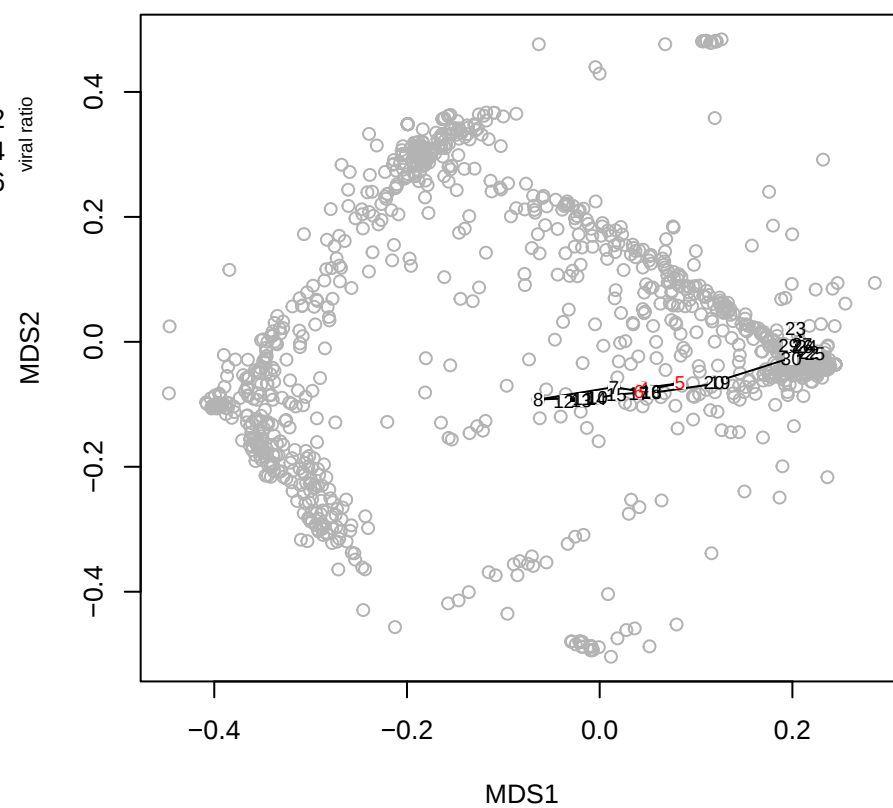
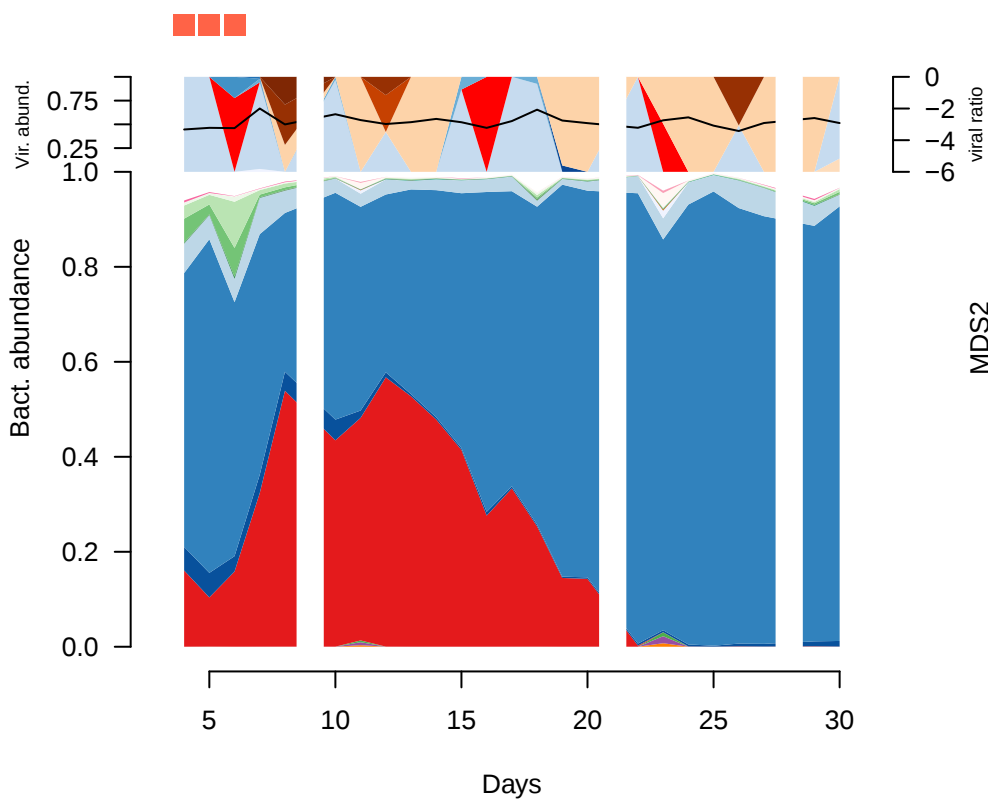
Subject 151



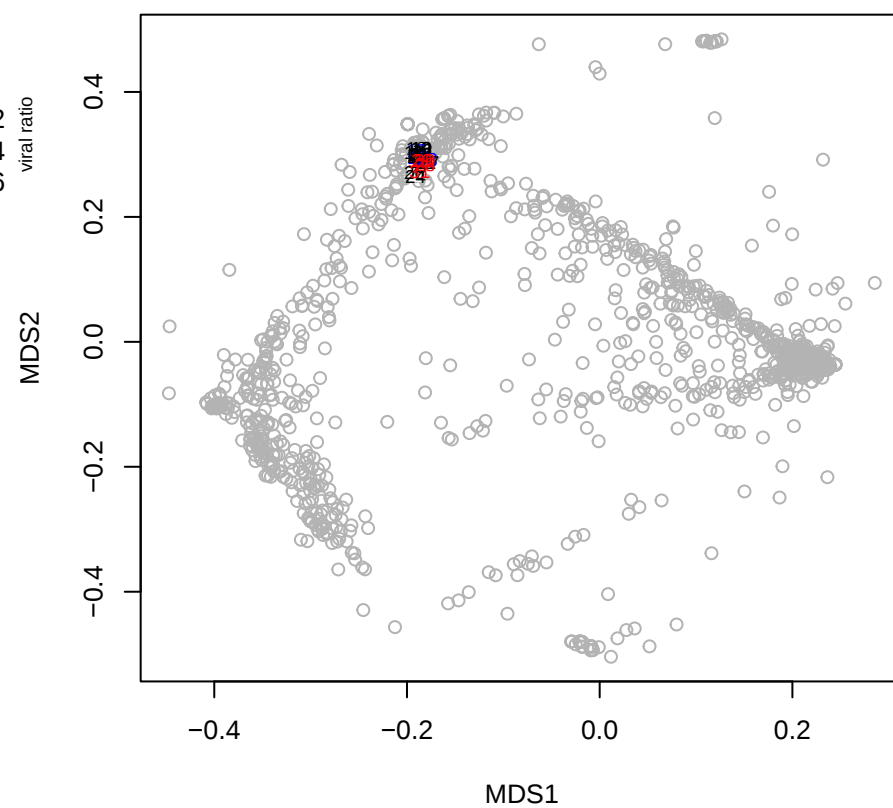
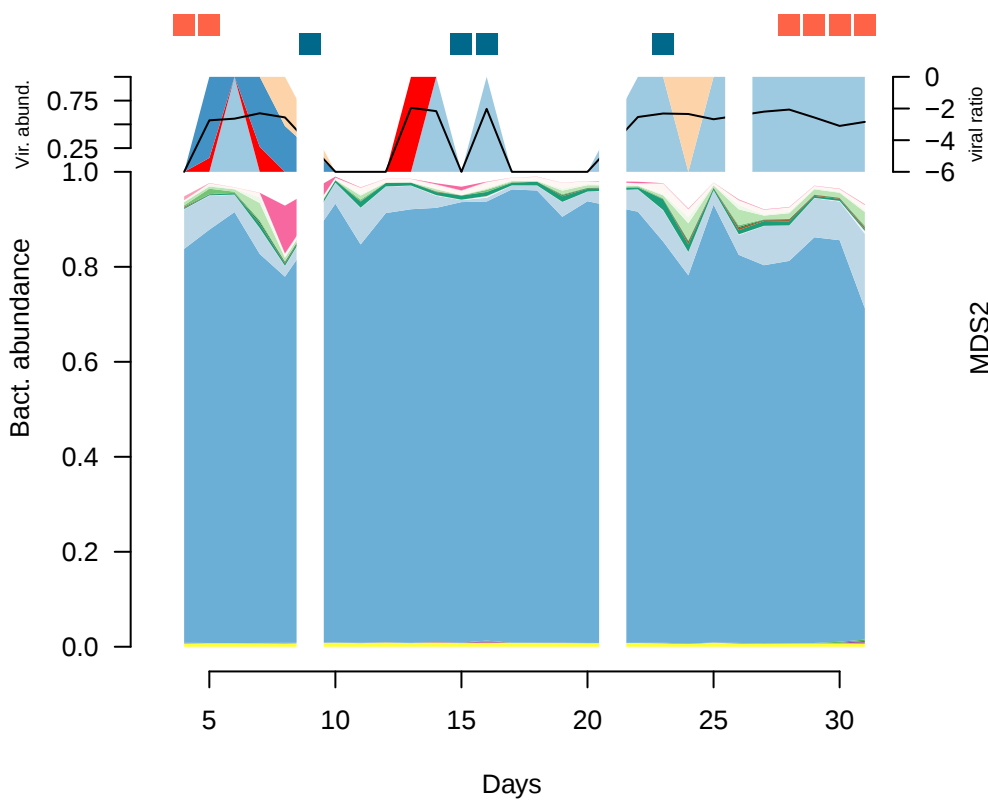
Subject 33



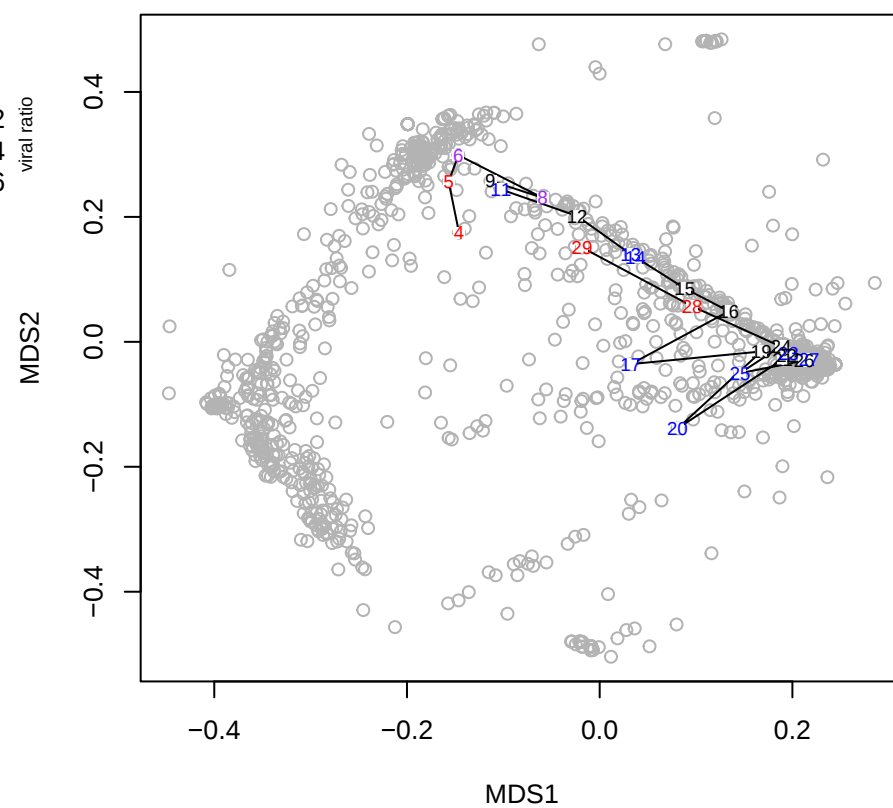
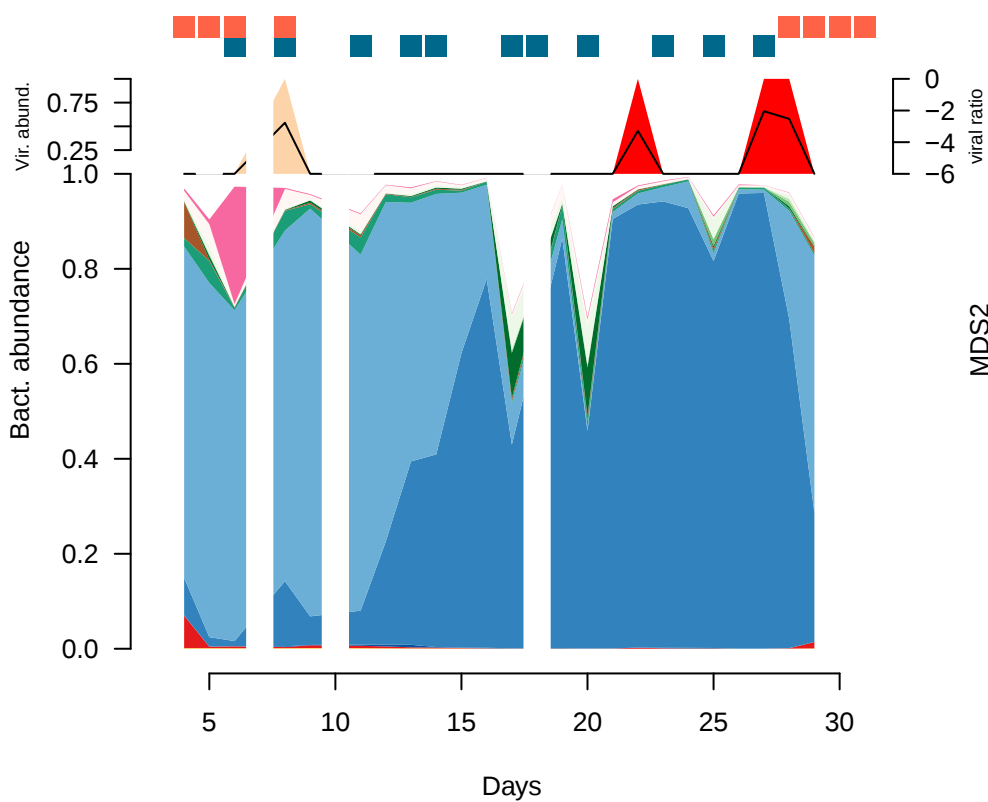
Subject 53



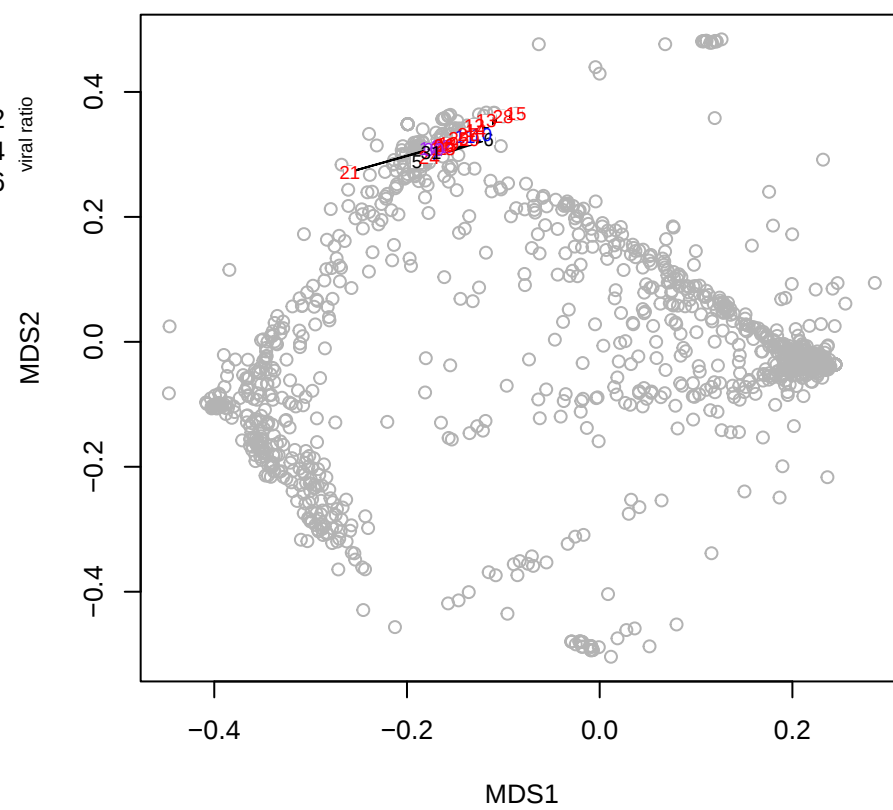
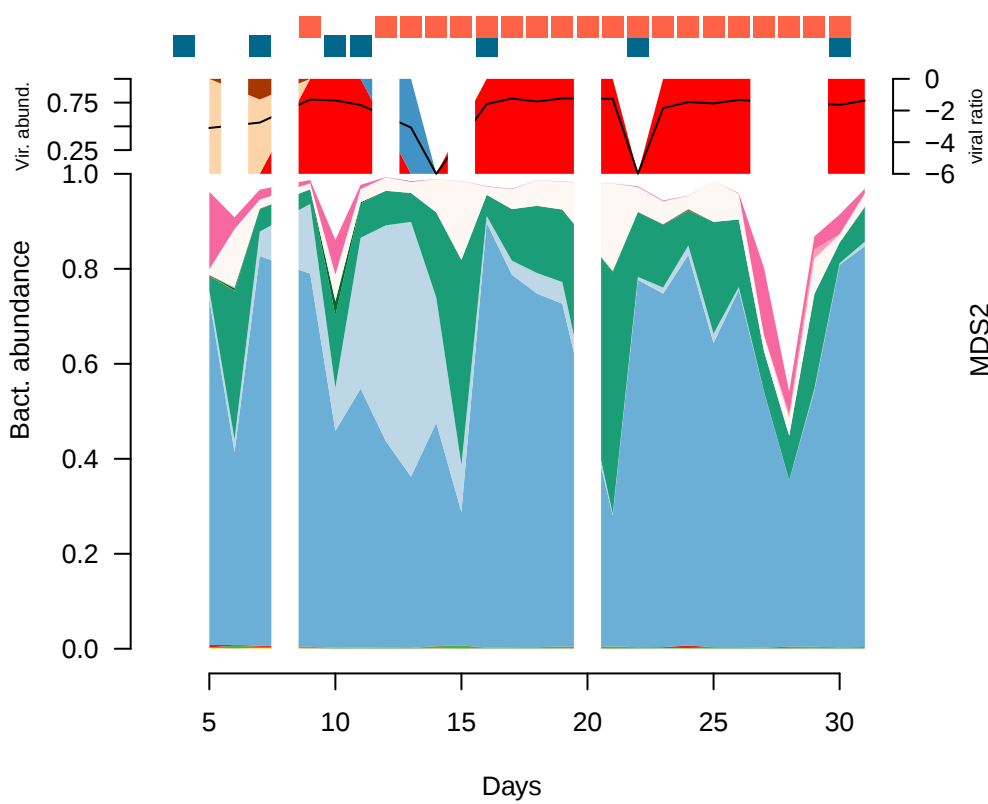
Subject 76



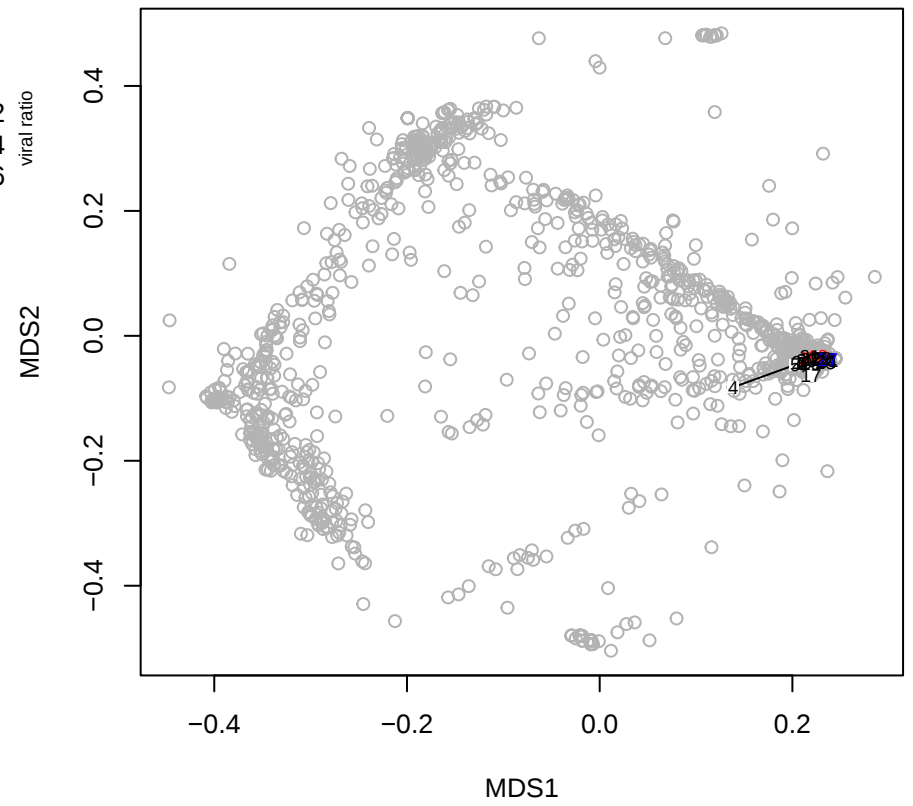
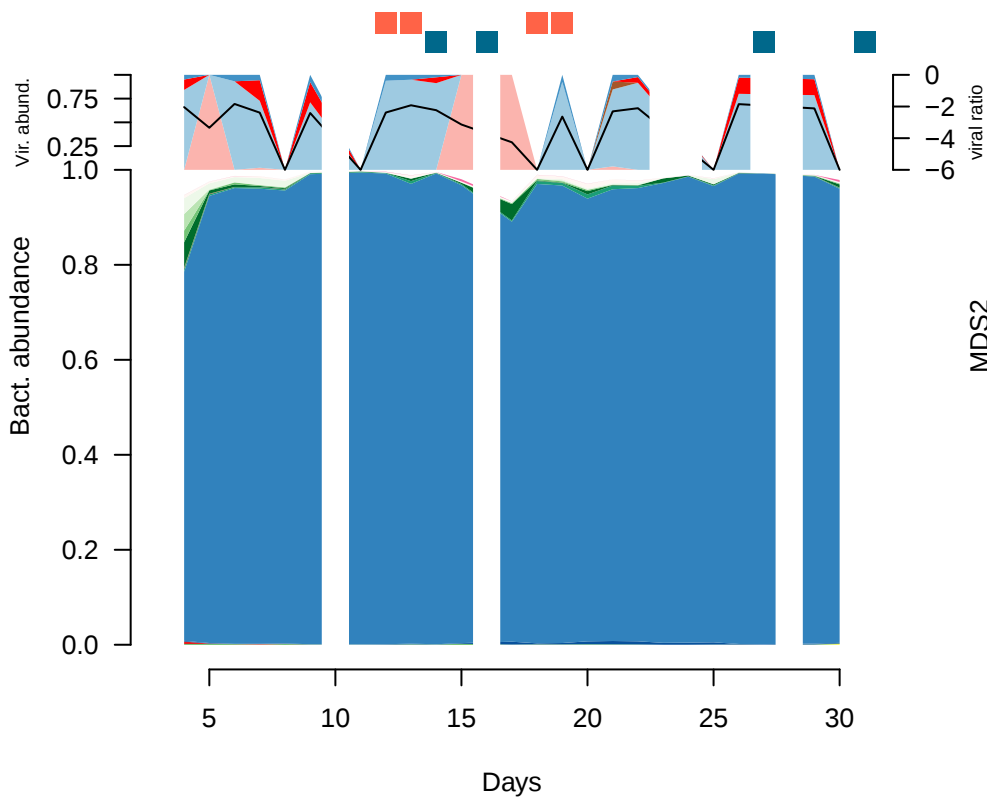
Subject 88



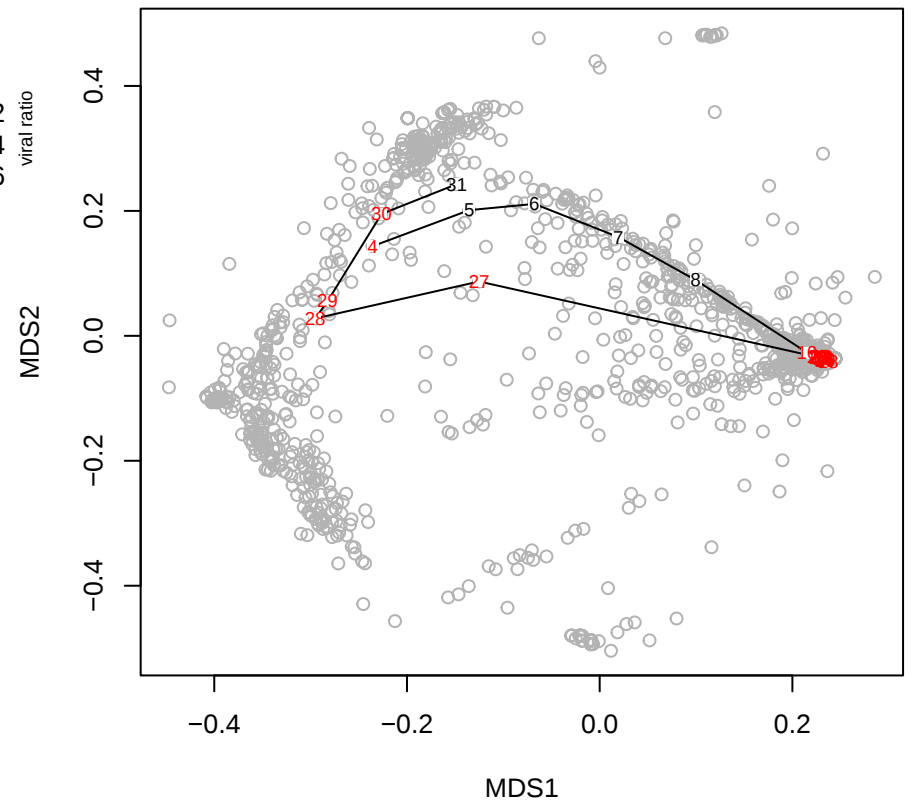
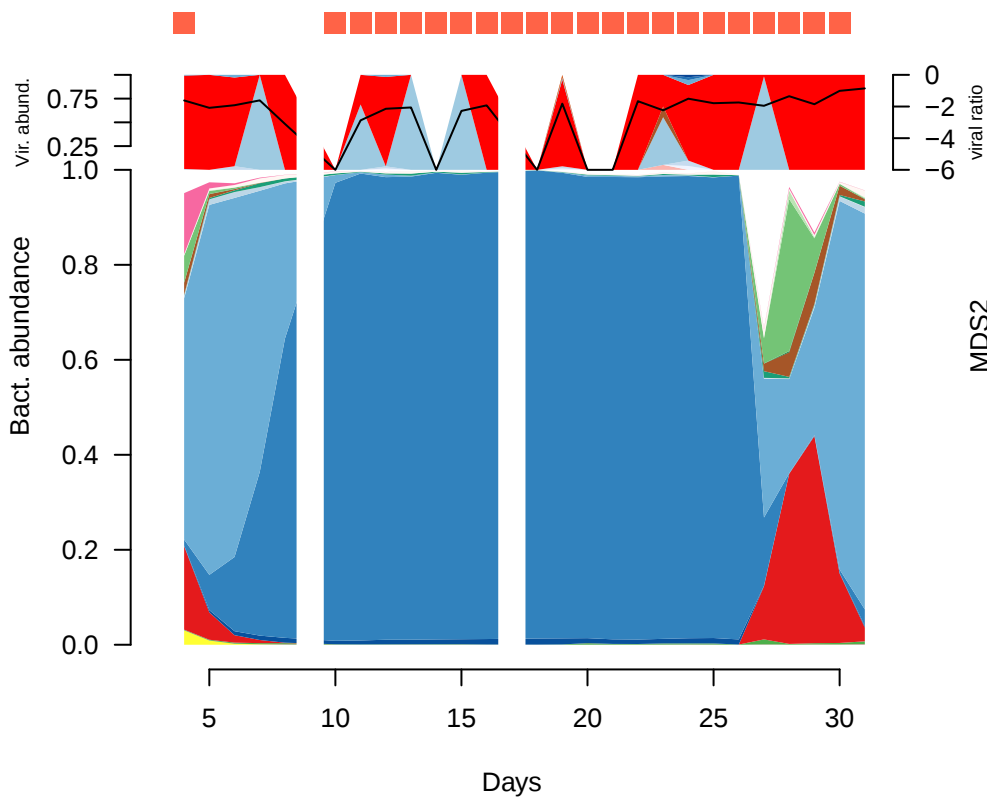
Subject 119



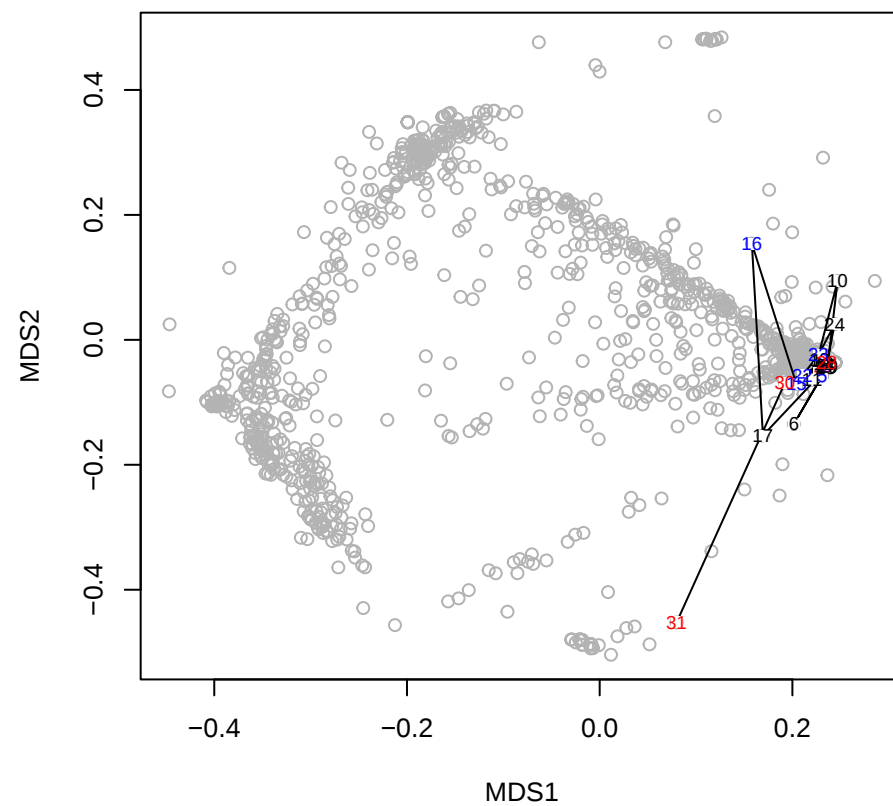
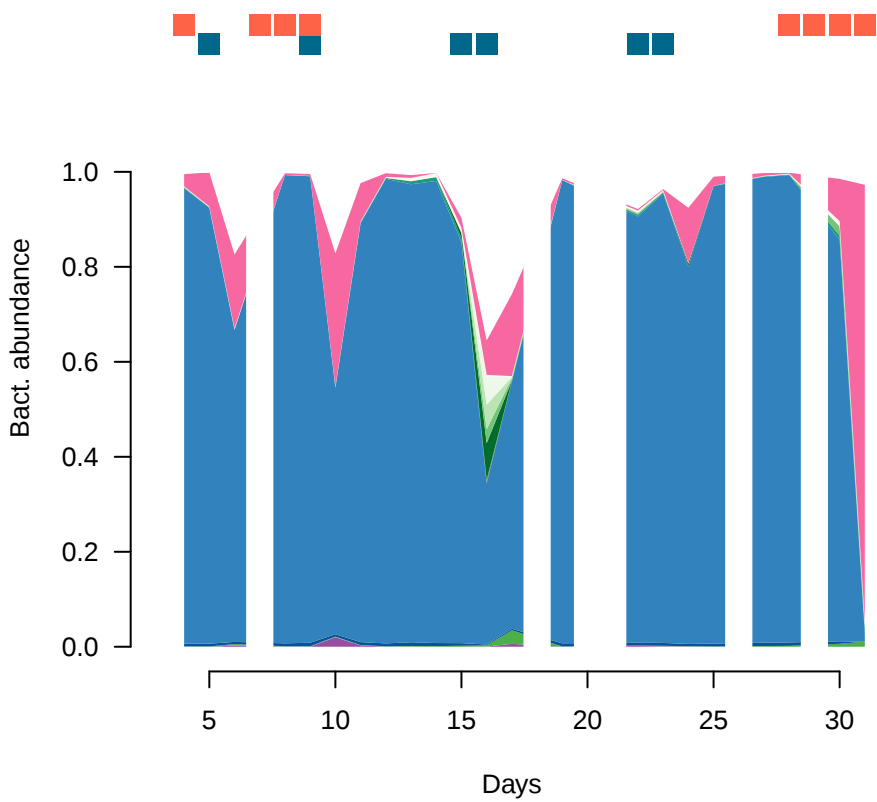
Subject 140



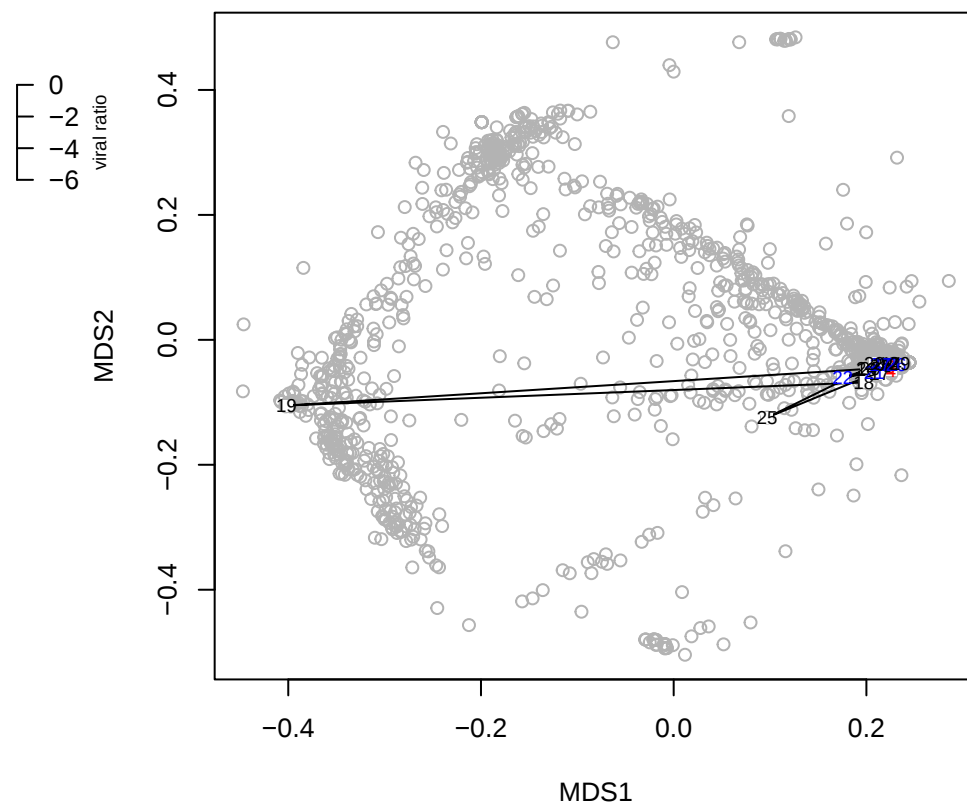
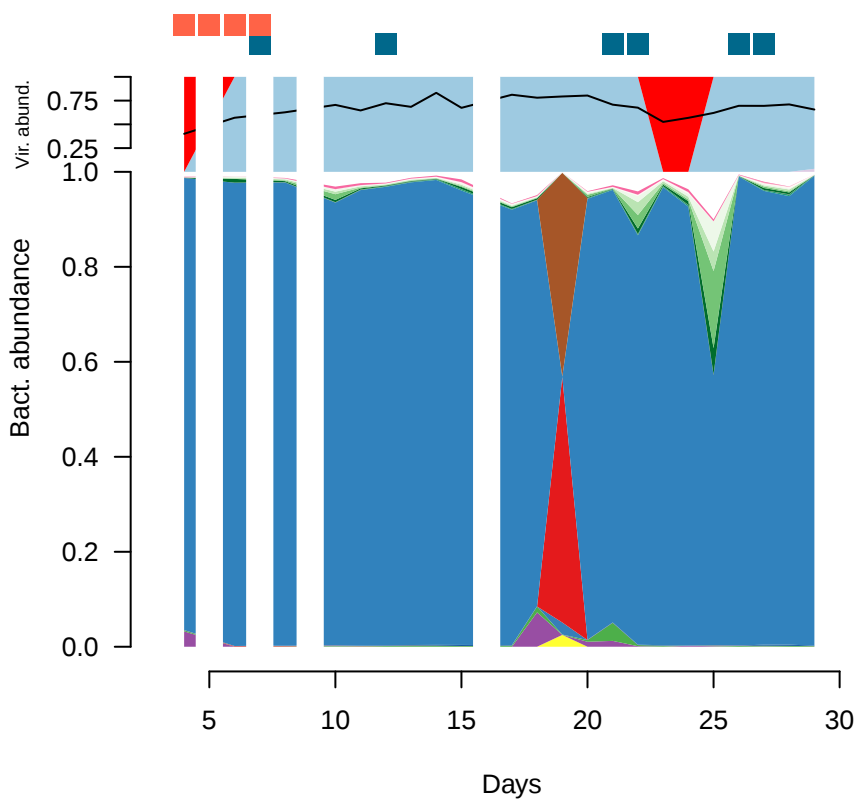
Subject 153



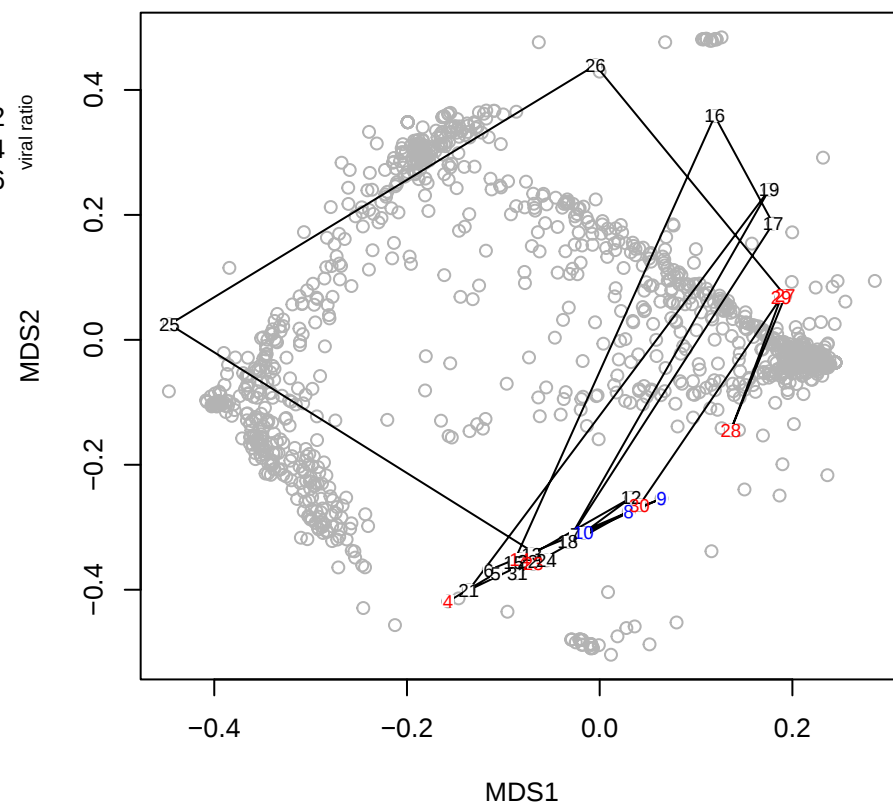
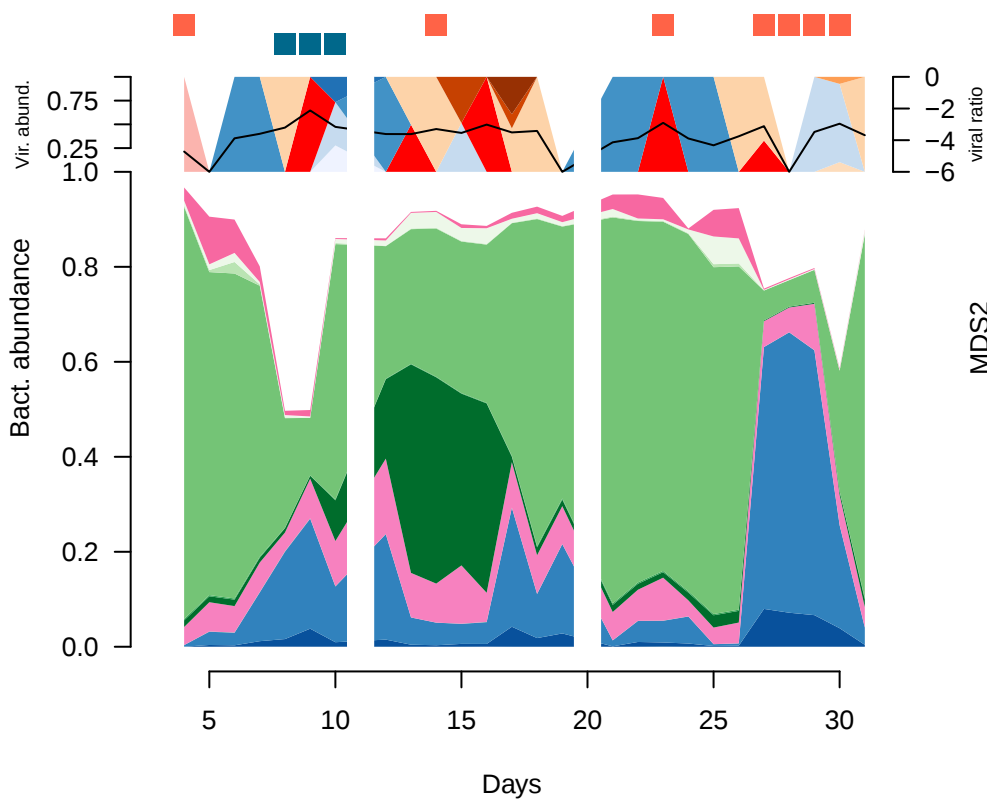
Subject 34



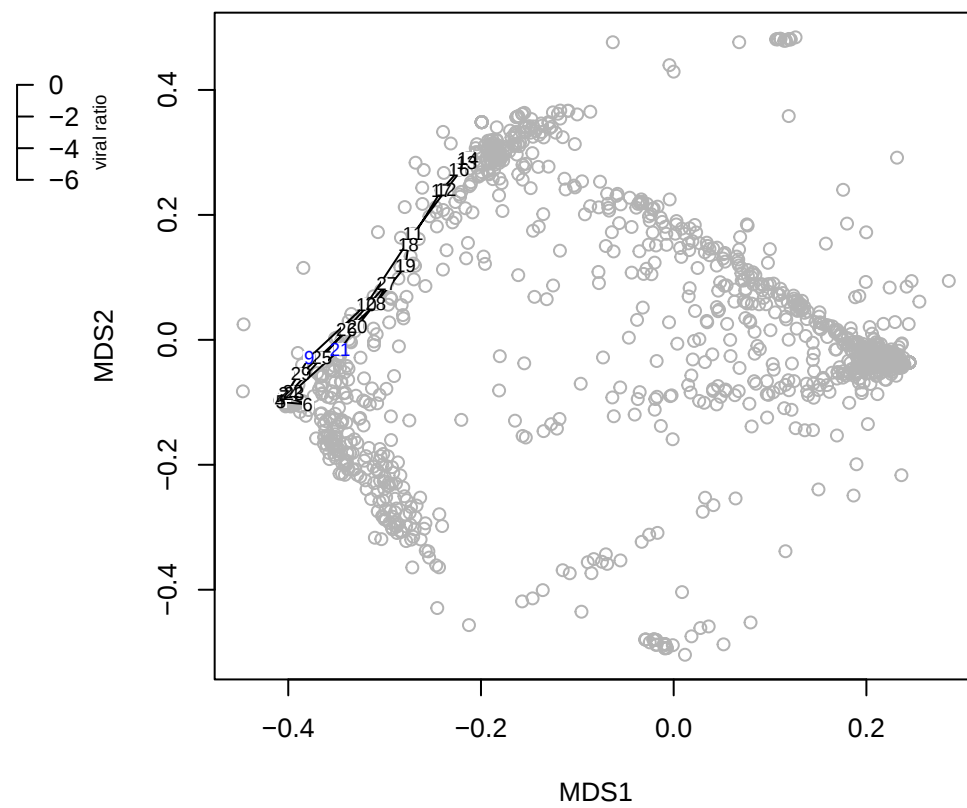
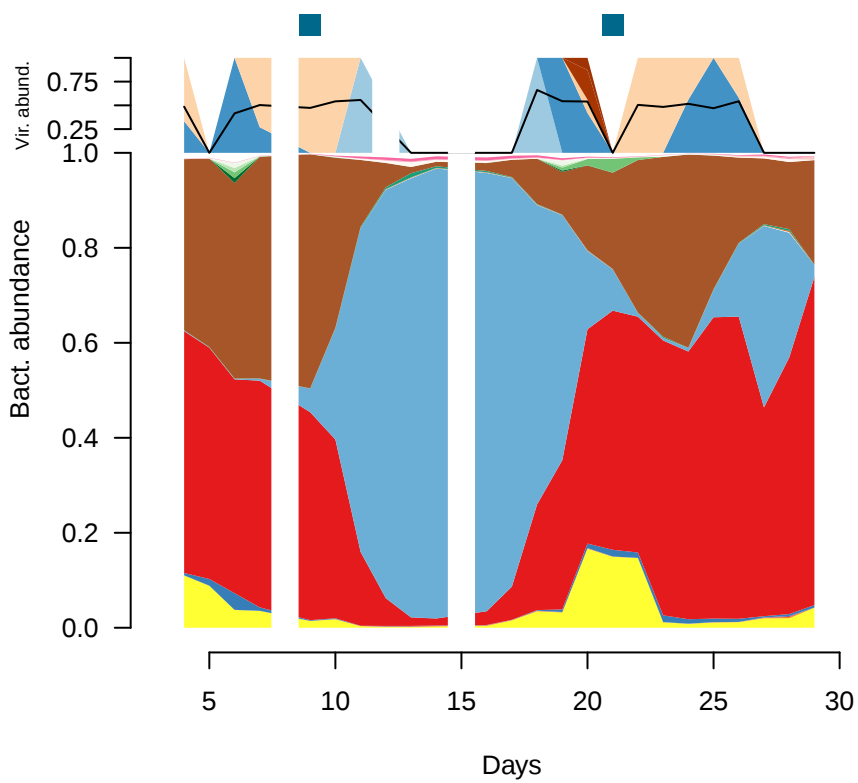
Subject 56



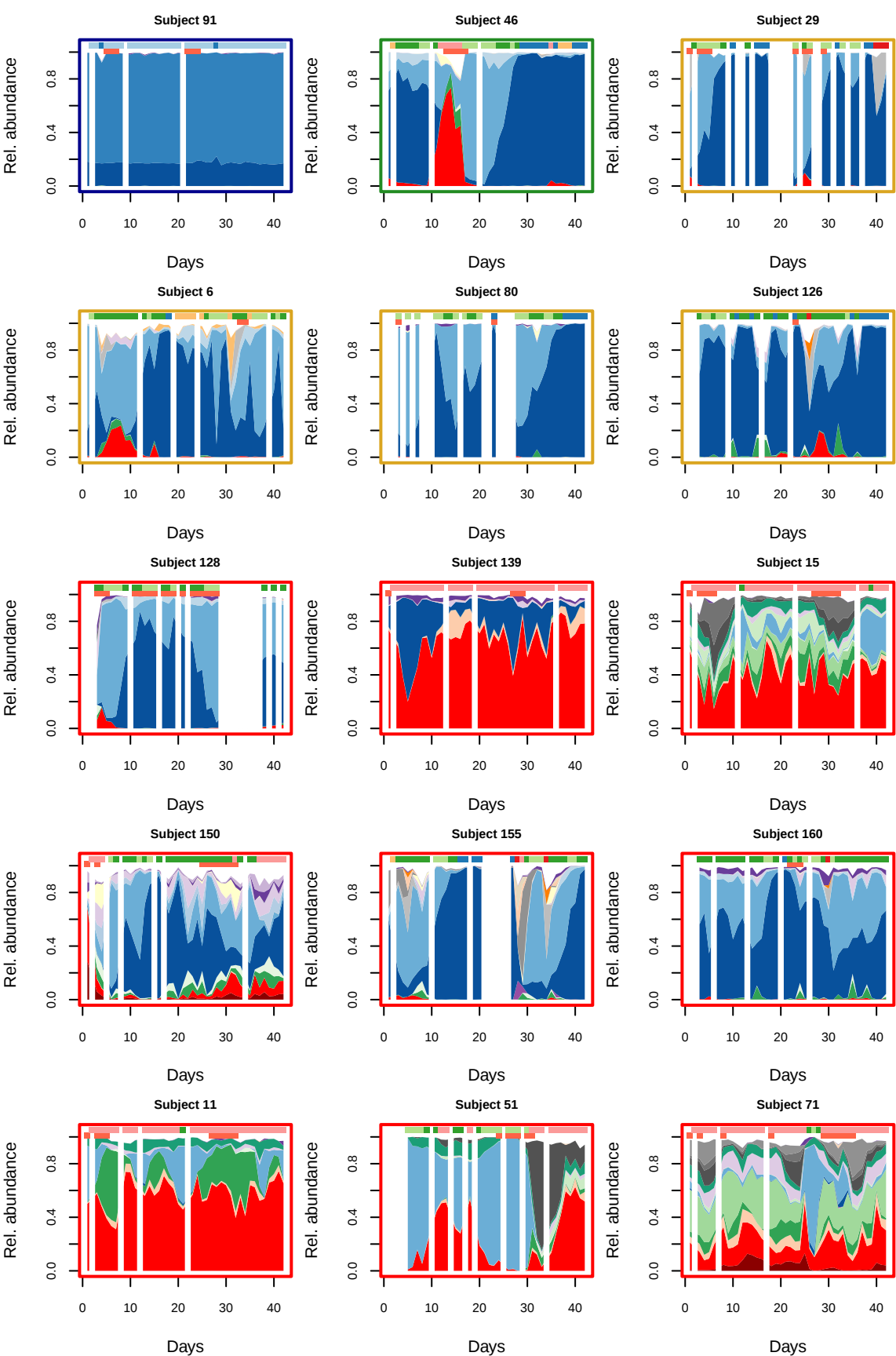
Subject 77



Subject 93



Streptococcus	Streptococcus satellite phage Javan368
Staphylococcus aureus	Streptococcus satellite phage Javan167
Sneathia amnii	Streptococcus satellite phage Javan160
Sneathia	Streptococcus phage phi-SsuZKB4_rum
Pseudomonas aeruginosa	Streptococcus phage LYGO9
Prevotella timonensis	Streptococcus phage LF2
Prevotella disiens	Streptococcus phage Javan87
Prevotella bivia	Streptococcus phage Javan69
Prevotella amnii	Streptococcus phage Javan68
Prevotella	Streptococcus phage Javan53
Peptoniphilus lacrimalis	Streptococcus phage Javan457
Megasphaera sp. UPII 199-6	Streptococcus phage Javan42
Massilia timonae	Streptococcus phage Javan269
Listeria	Streptococcus phage Javan26
Limosilactobacillus fermentum	Streptococcus phage Javan150
Lactobacillus jensenii	Streptococcus phage Javan149
Lactobacillus iners	Streptococcus phage Javan141
Lactobacillus crispatus	Streptococcus phage Javan140
Lactobacillus	Streptococcus phage Javan131
Gardnerella vaginalis	Streptococcus phage Javan11
Fannyhessea vaginae	Streptococcus phage Javan10
Escherichia	Streptococcus phage IPP61
Enterococcus faecalis	Staphylococcus phage vB_SepS_BE01
Bacillus subtilis	Staphylococcus phage UPMK_1
Aerococcus	Staphylococcus phage PhiSepi-HH3
	Staphylococcus virus vB_SepS_459
	Staphylococcus virus PH15
	Propionibacterium phage pa35
	Escherichia virus DE3
	Escherichia phage DN1
	Lactobacillus phage vB_Lga_AB1
	Lactobacillus phage phiadh
	Lactobacillus phage Lv-1
	Lactobacillus phage JNU_P7
	Gardnerella phage vB_Gva_AB1
	Escherichia phage CMS-2020a
	Enterobacteria phage IME10
	crAssphage cr53_1
	Phage FAKO05_000032F
	Lactobacillus phage vB_Lcr_AB1
	Lactobacillus phage phi_jlb1
	Lactobacillus phage KC5a
	Staphylococcus phage vB_SepM_BE05
	uncultured marine virus
	Streptococcus satellite phage Javan43
	Streptococcus satellite phage Javan4
	Streptococcus satellite phage Javan24
	Campylobacter phage A18a



- Dynamics**
- constant eubiotic
 - menses dysbiotic
 - unstable
 - constant dysbiotic

- CST**
- V
 - IV-C
 - IV-B
 - III-B
 - III-A
 - I-B
 - I-A

- bleeding**
- yes

- Taxa**
- Ureaplasma_urealyticum
 - Ureaplasma
 - Haemophilus_influenzae
 - Haemophilus
 - Salmonella
 - Escherichia/Shigella
 - Sneathia_sanguinegens
 - Sneathia_amnii
 - Sneathia
 - Veillonella_montpellierensis
 - Megasphaera
 - Dialister
 - Fastidiosipila
 - Ezakiella
 - Streptococcus
 - Lactobacillus_jensenii
 - Lactobacillus_iners
 - Lactobacillus_crispatus
 - Lactobacillus
 - Enterococcus
 - Prevotella_disiens
 - Prevotella_amnii
 - Prevotella
 - Atopobium_vaginae
 - Gardnerella_vaginalis
 - Gardnerella

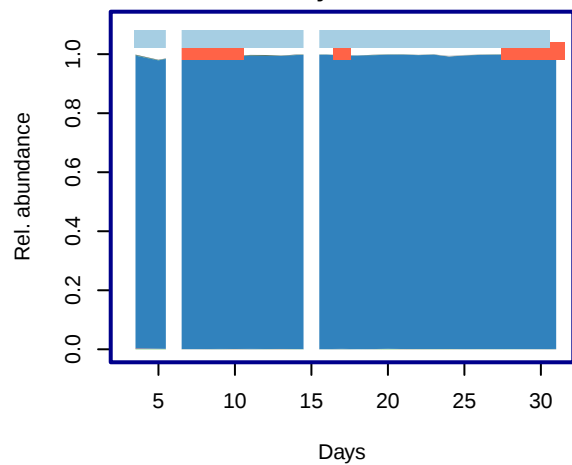
- Dynamics
- constant eubiotic
 - menses dysbiotic
 - unstable
 - constant dysbiotic

- CST
- V
 - IV-C
 - IV-B
 - III-B
 - III-A
 - I-B
 - I-A

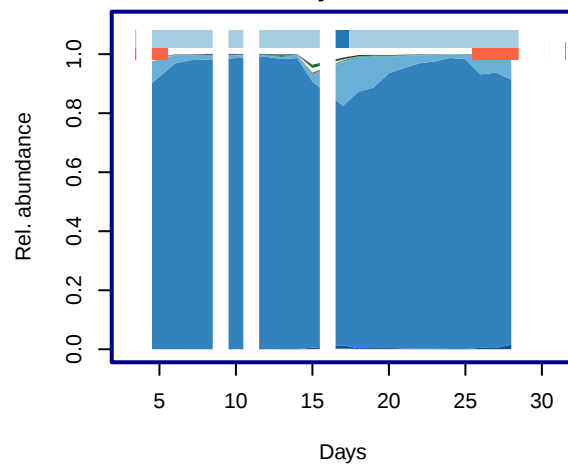
- bleeding
- yes

- Taxa
- Streptococcus
 - Staphylococcus aureus
 - Sneathia amnii
 - Sneathia
 - Pseudomonas aeruginosa
 - Prevotella timonensis
 - Prevotella disiens
 - Prevotella bivia
 - Prevotella amnii
 - Prevotella
 - Peptoniphilus lacrimalis
 - Megasphaera sp. UPII 199-6
 - Massilia timonae
 - Listeria
 - Limosilactobacillus fermentum
 - Lactobacillus jensenii
 - Lactobacillus iners
 - Lactobacillus crispatus
 - Lactobacillus
 - Gardnerella vaginalis
 - Fannyhessea vaginae
 - Escherichia
 - Enterococcus faecalis
 - Bacillus subtilis
 - Aerococcus

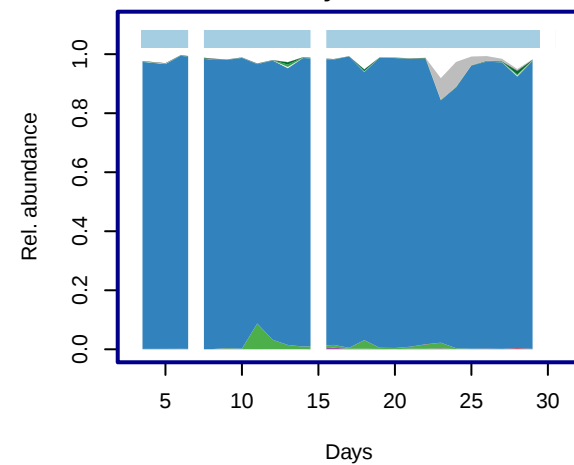
Subject 156



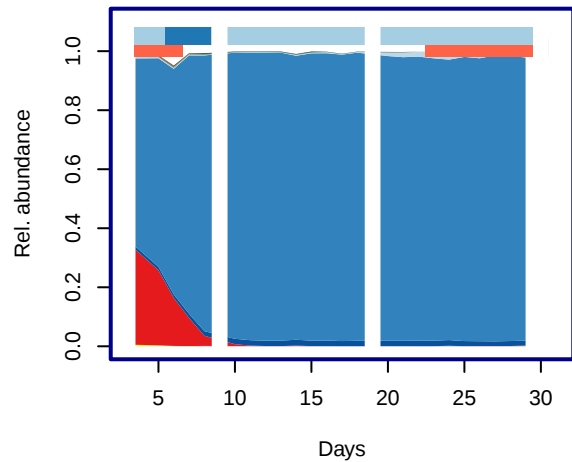
Subject 106



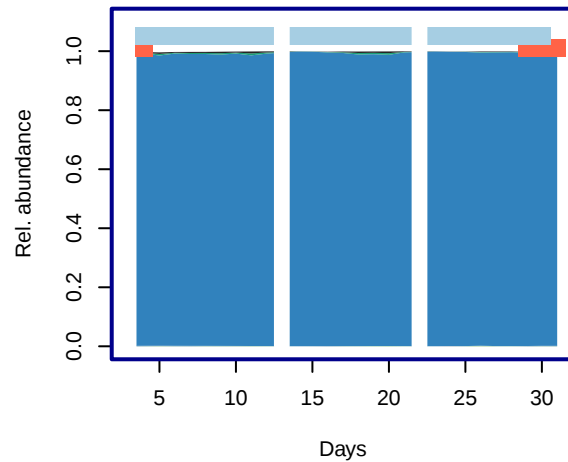
Subject 144



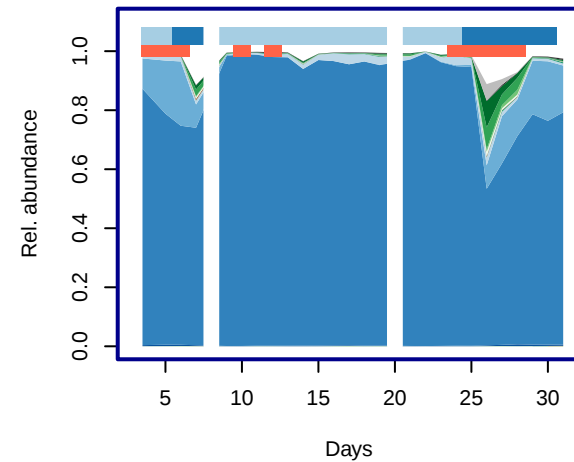
Subject 28



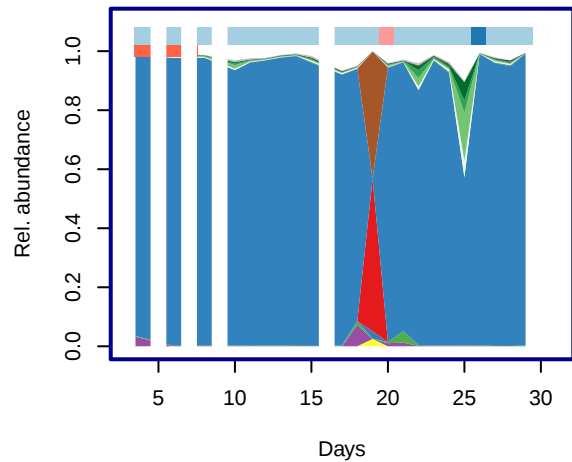
Subject 75



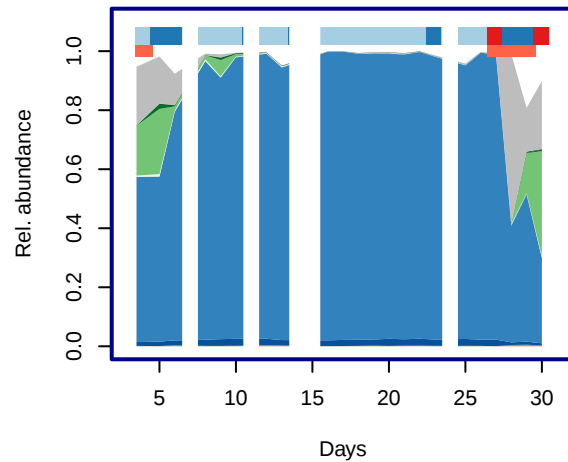
Subject 151



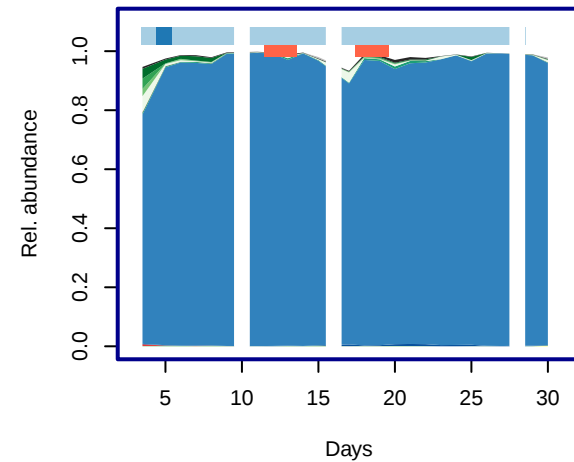
Subject 56



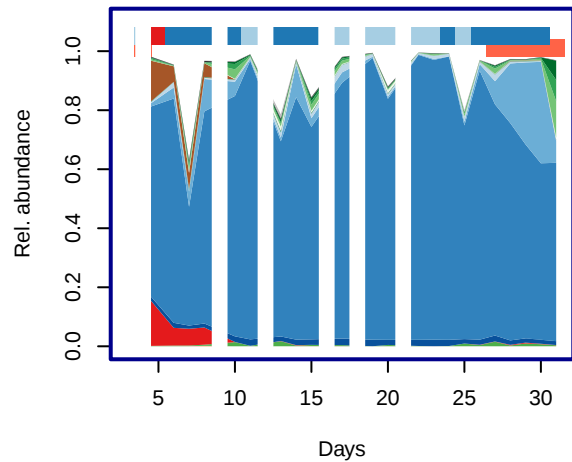
Subject 45



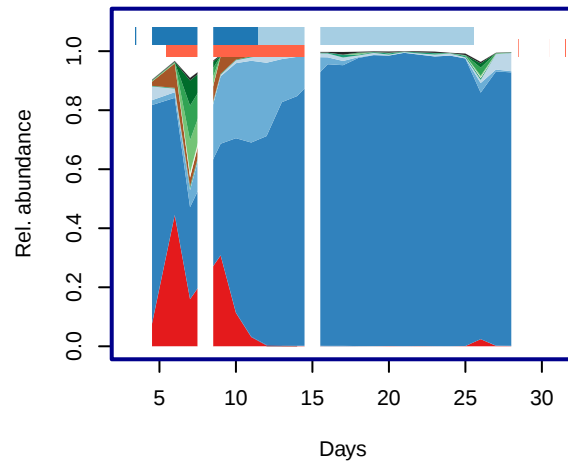
Subject 140



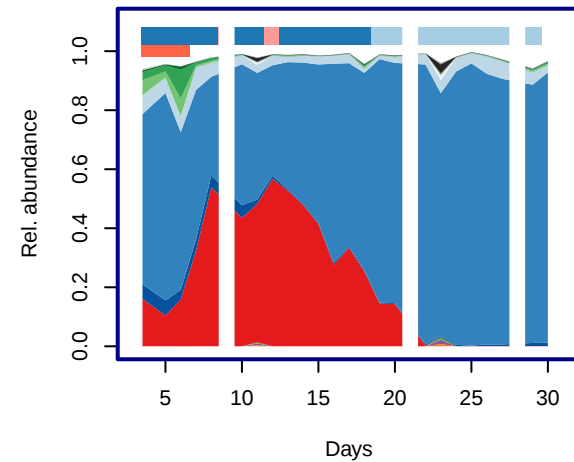
Subject 58



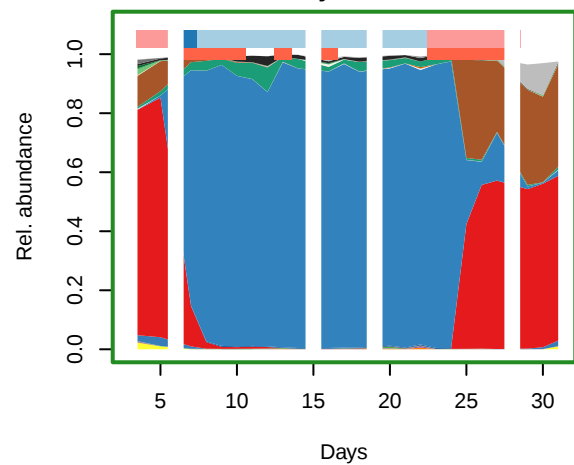
Subject 110



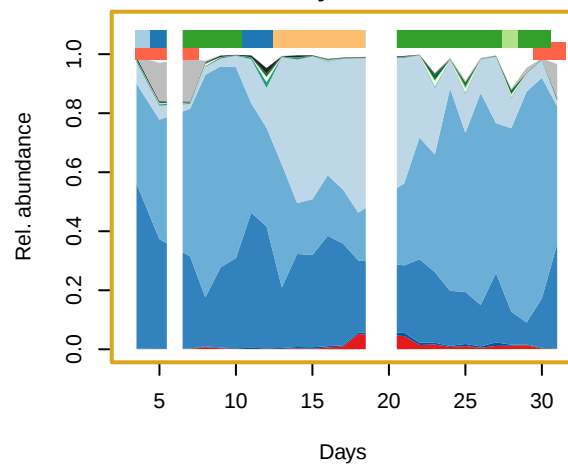
Subject 53



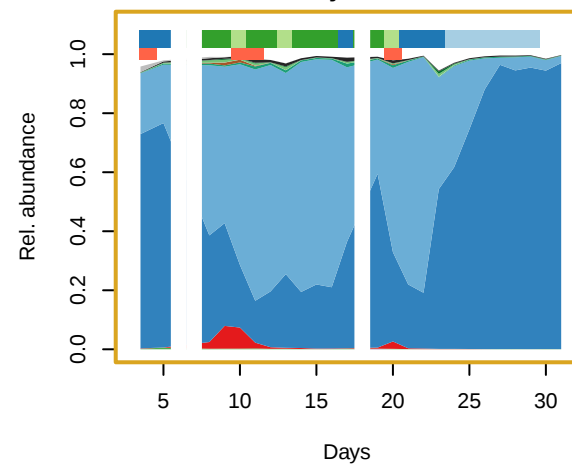
Subject 115



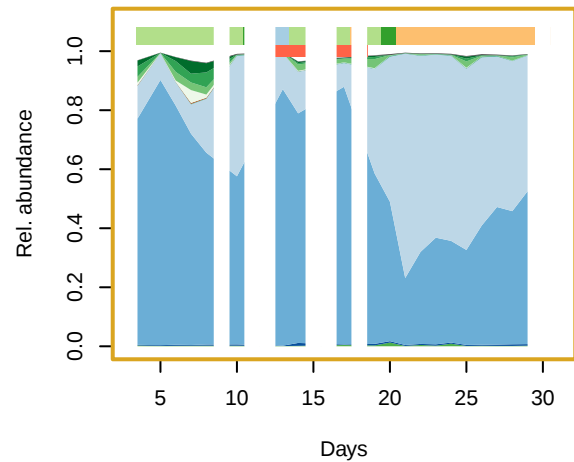
Subject 104



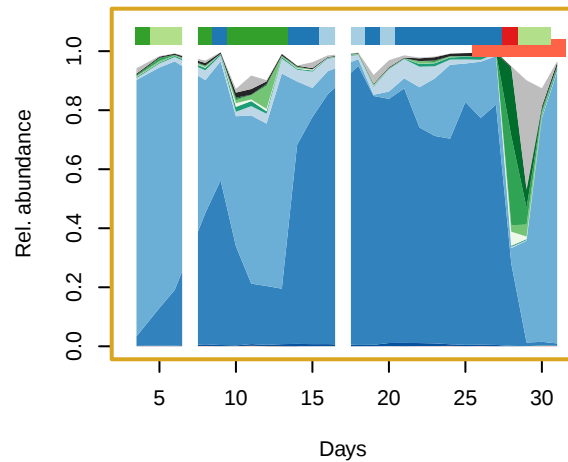
Subject 98



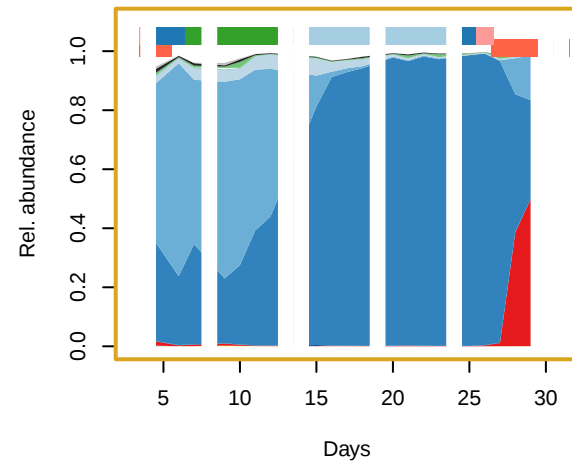
Subject 84



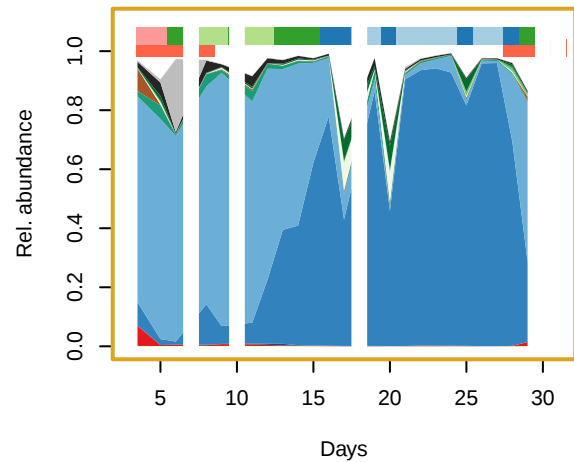
Subject 87



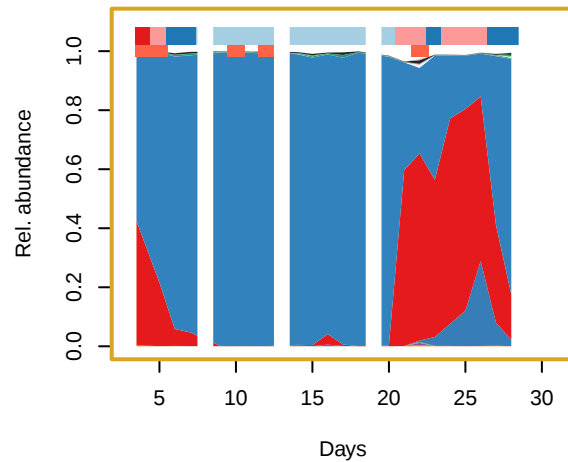
Subject 33



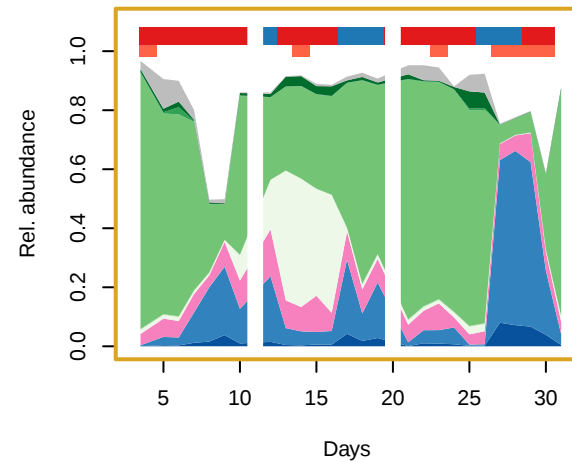
Subject 88



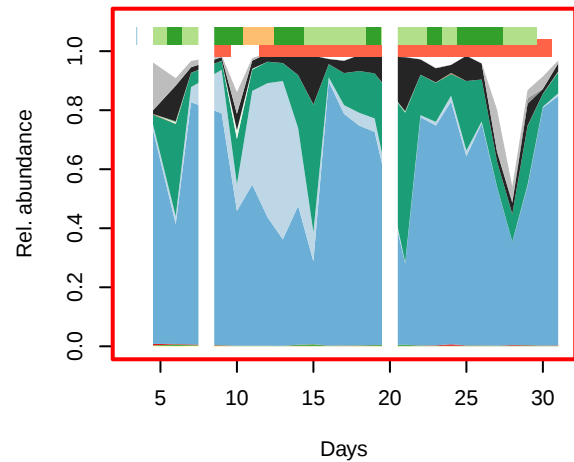
Subject 62



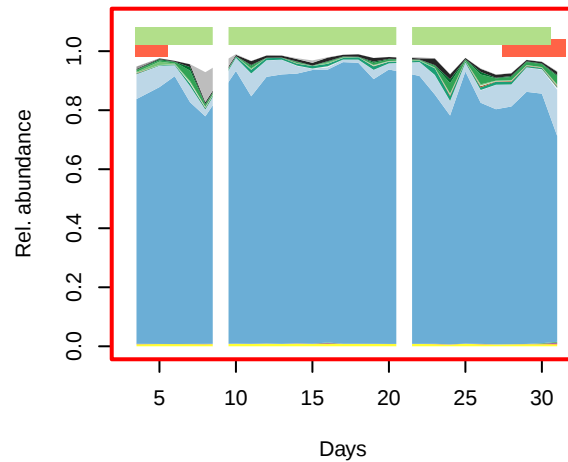
Subject 77



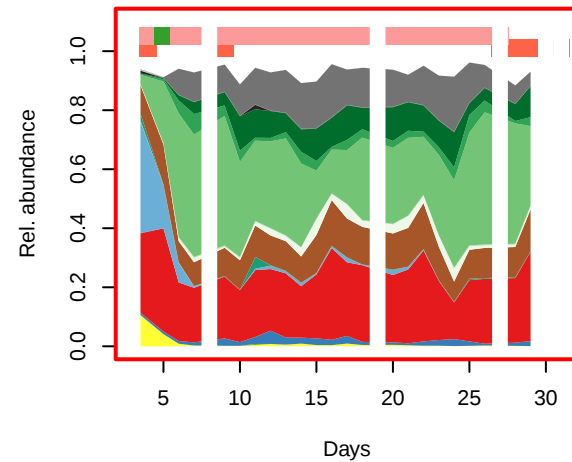
Subject 119

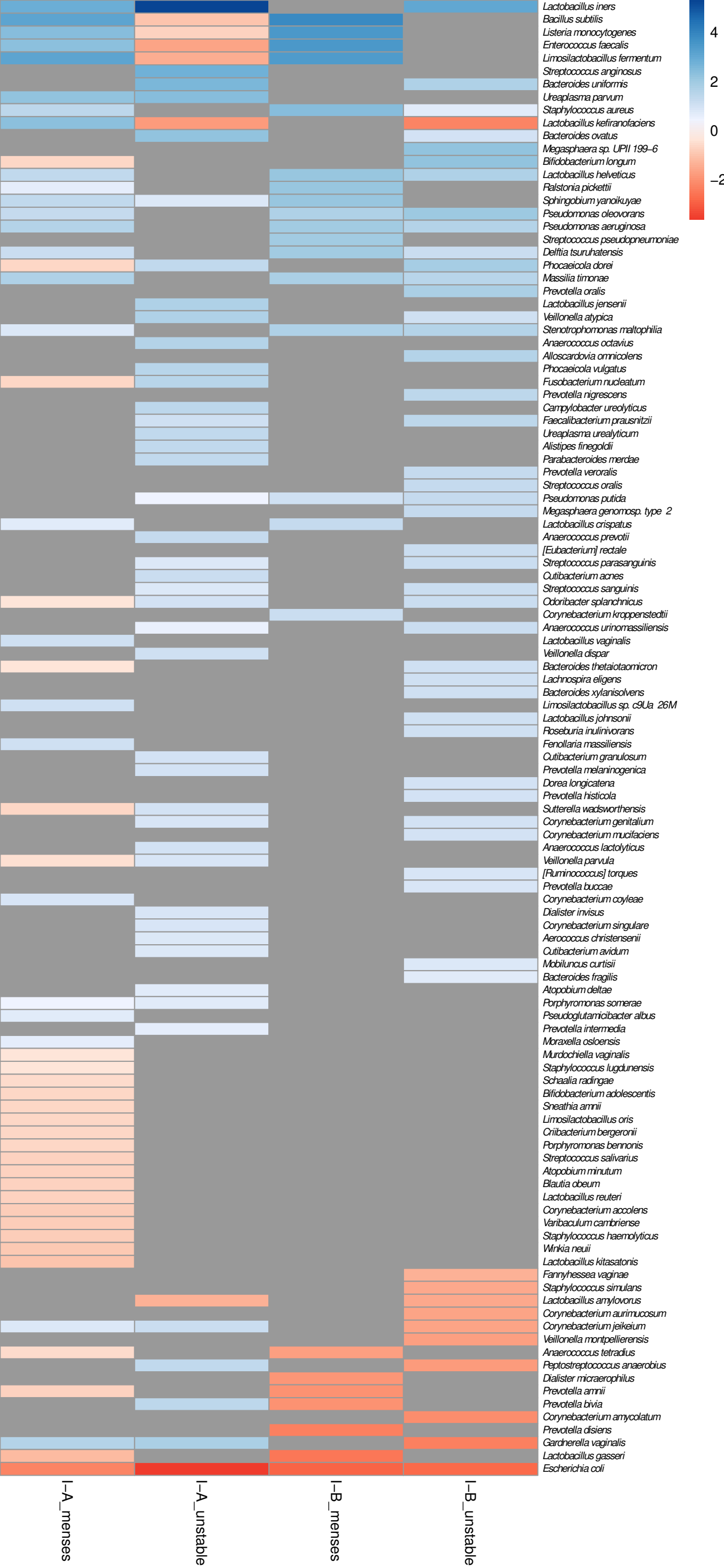


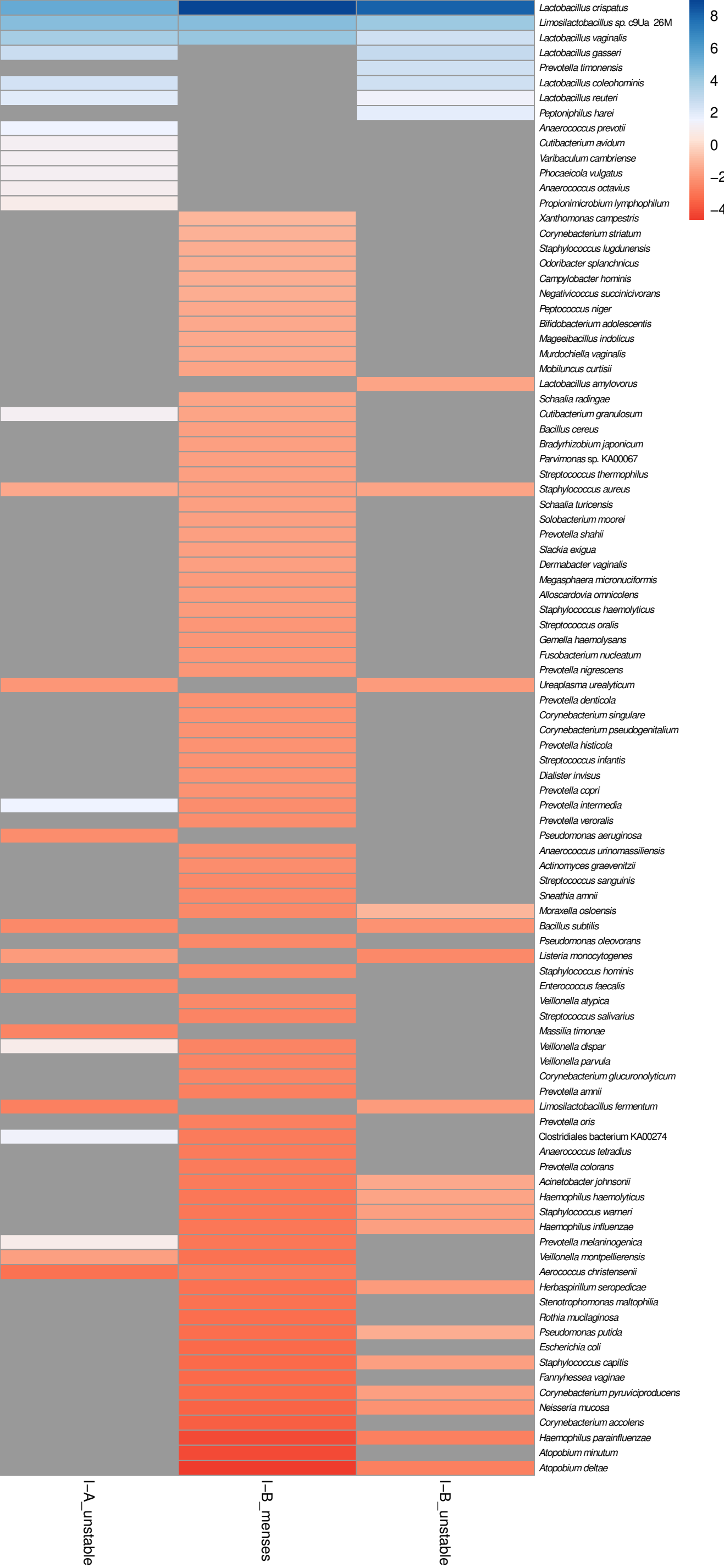
Subject 76



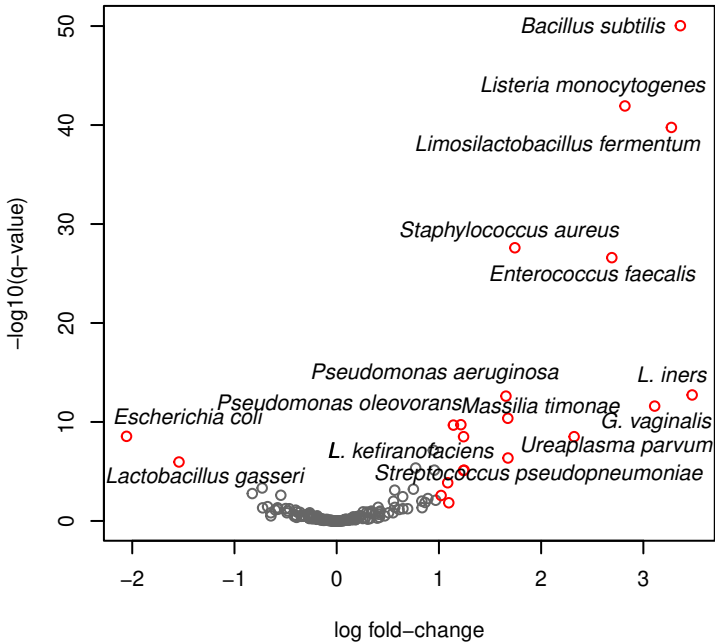
Subject 120



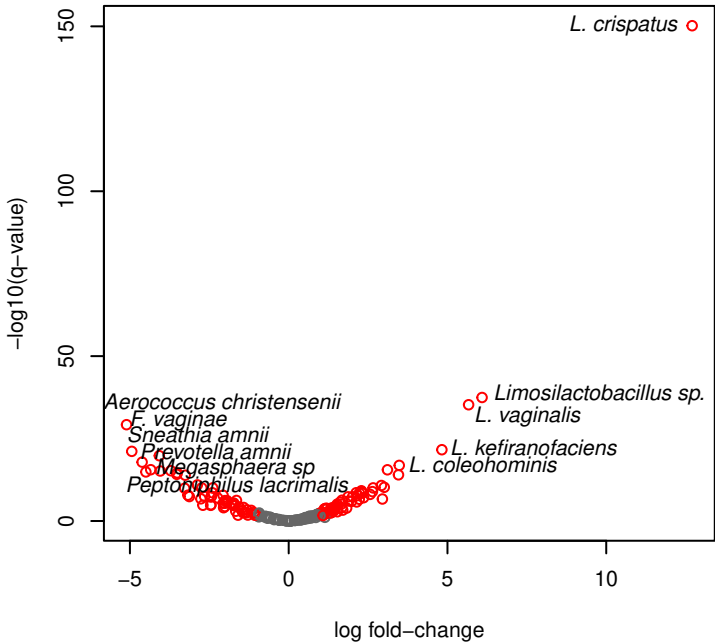




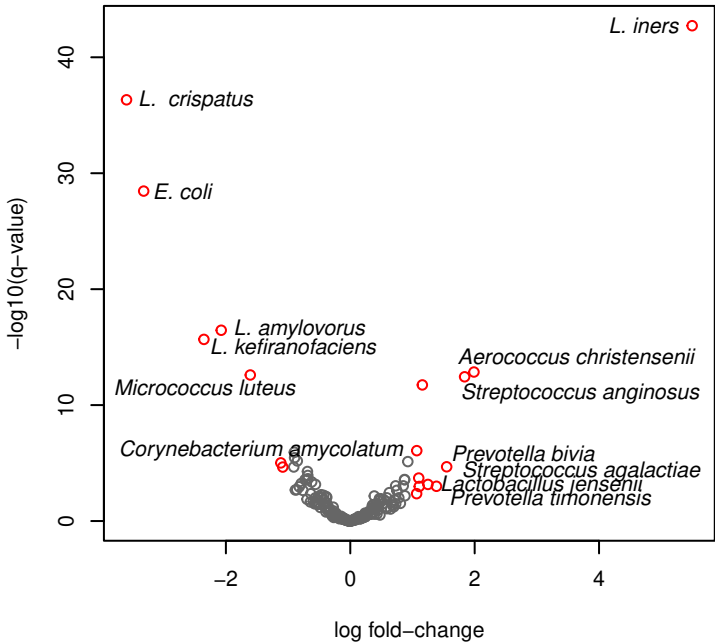
Menses dysbiotic vs. constant eubiotic



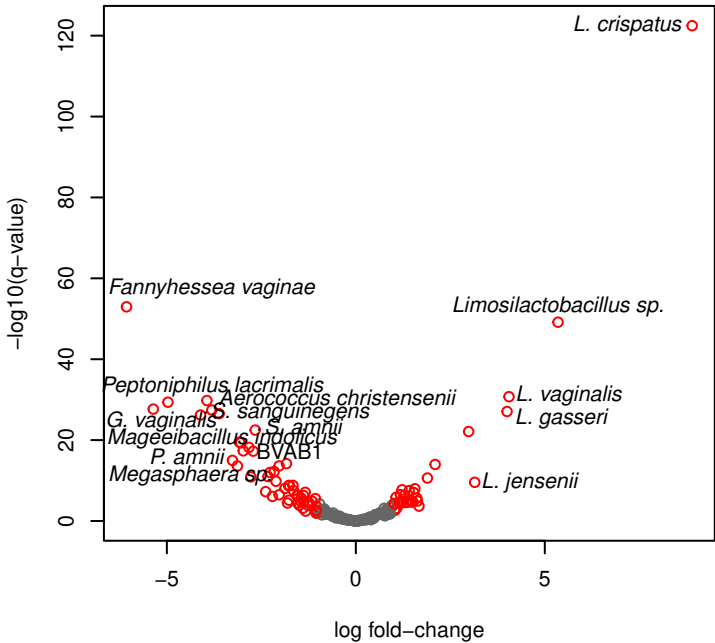
Menses dysbiotic vs. constant dysbiotic



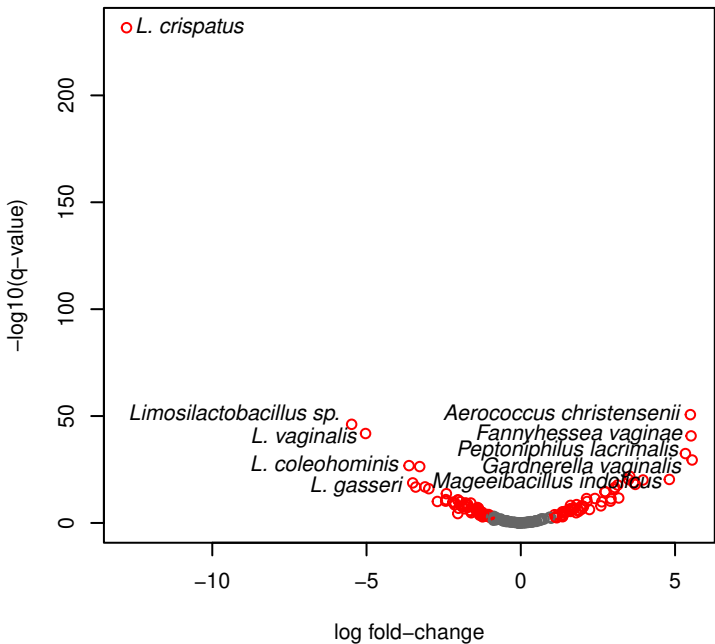
Unstable vs. constant eubiotic



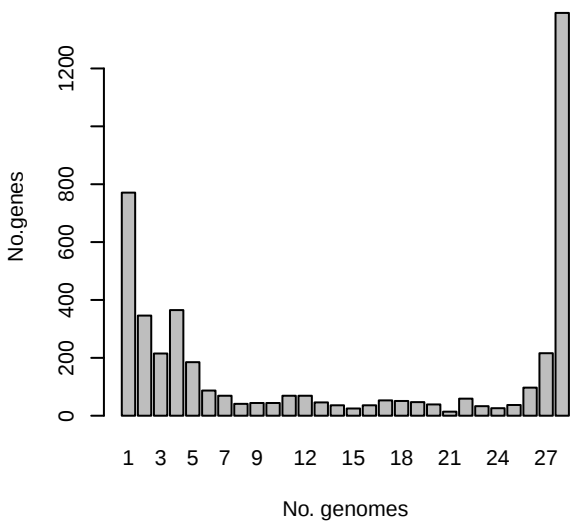
Unstable vs. constant dysbiotic



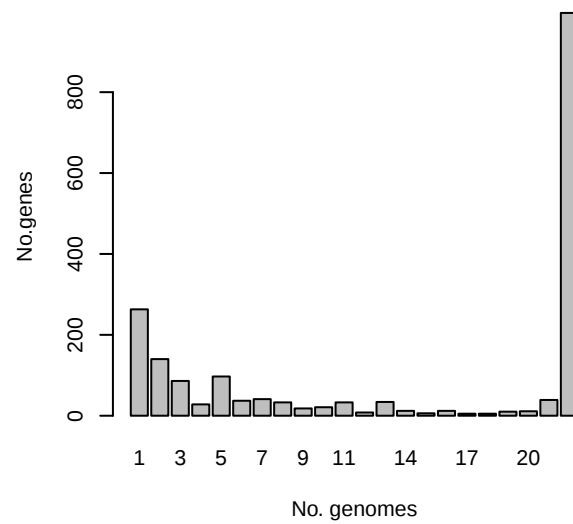
Constant dysbiotic vs. constant eubiotic



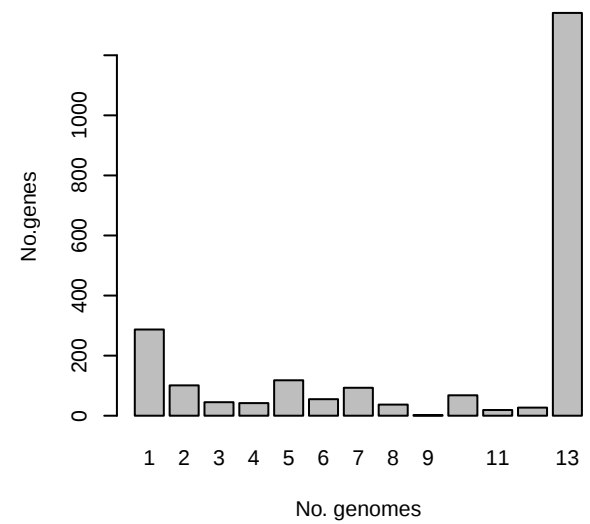
L. crispatus



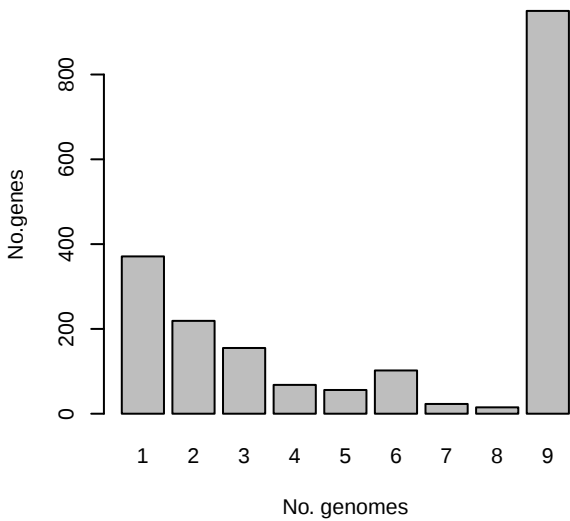
L. iners



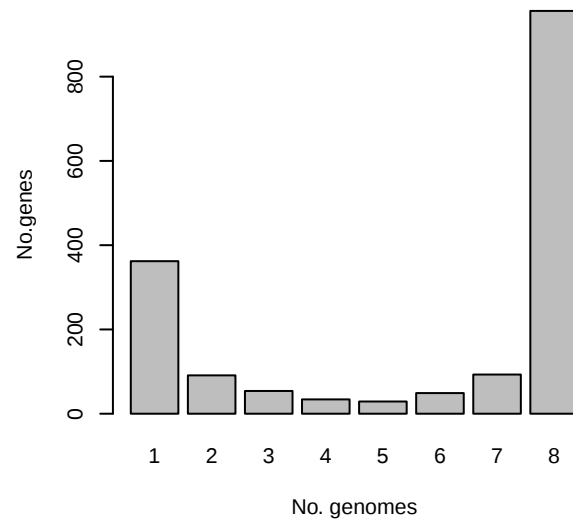
L. jensenii



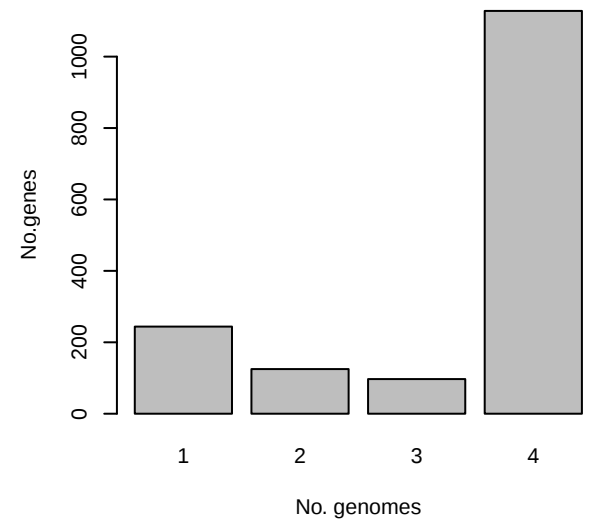
G. leopoldii



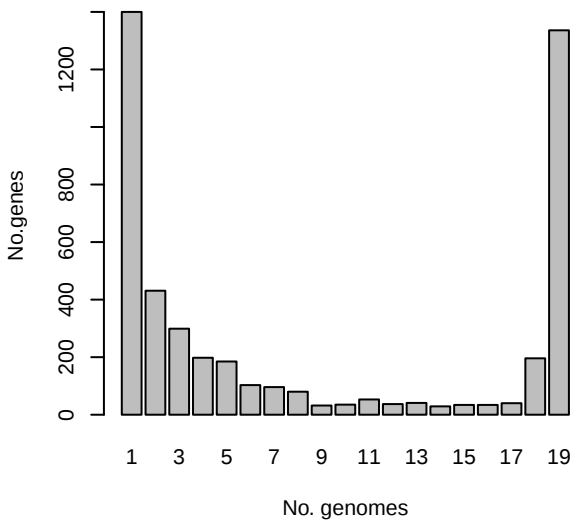
G. piovii



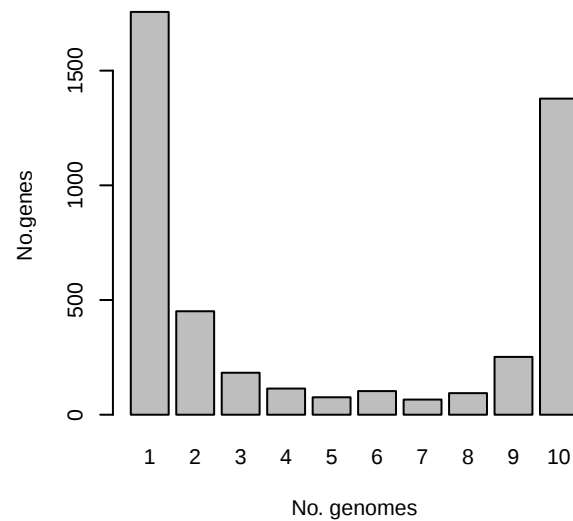
G. vaginalis



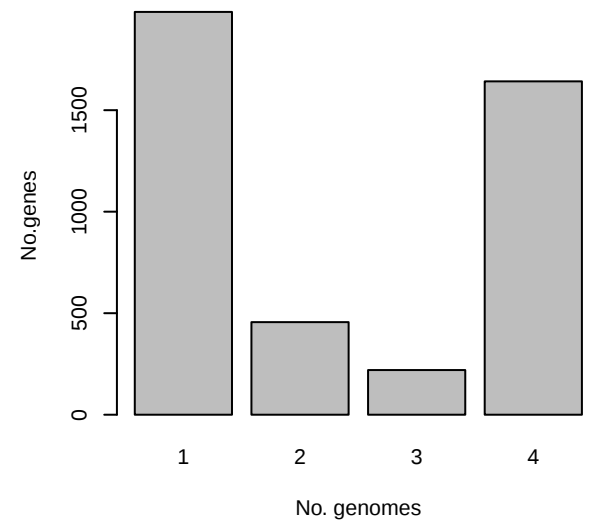
P. bivia



P. disiens



P. timonensis



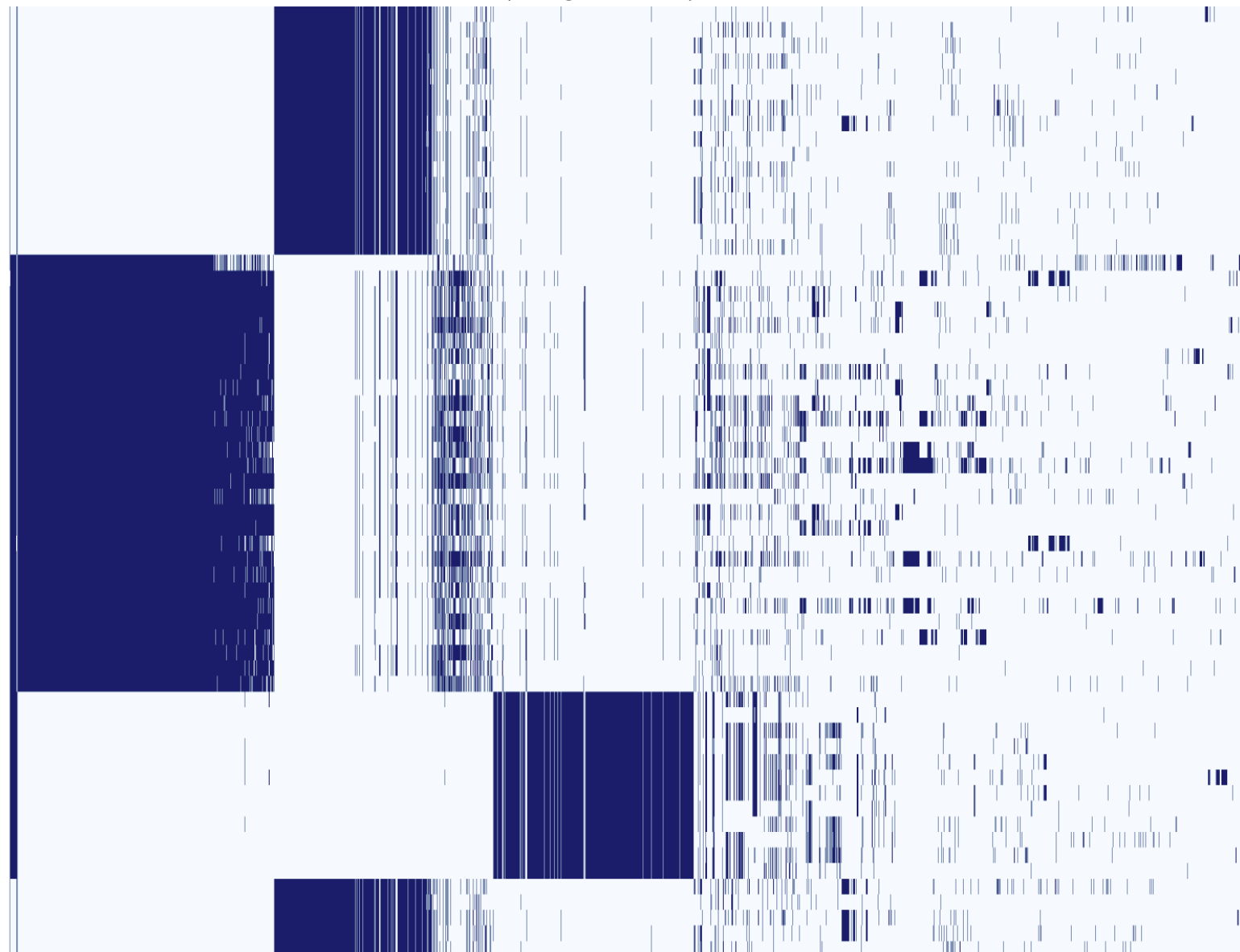
Tree
(62 strains)

Roary matrix
(8518 gene clusters)

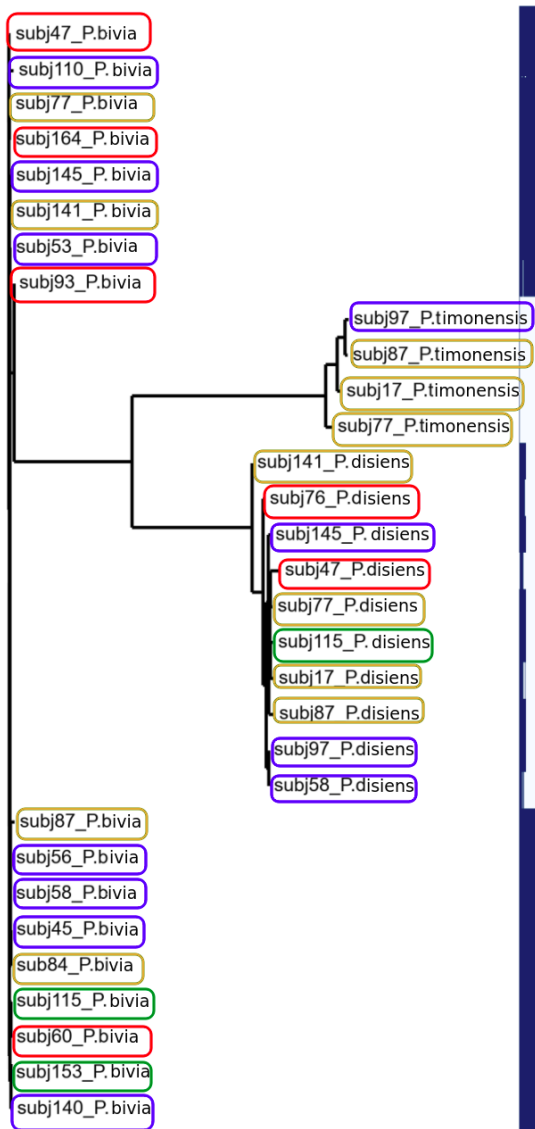
sub186 L.iners
sub106 L.iners
sub104 L.iners
sub197 L.iners
sub148 L.iners
sub141 L.iners
sub119 L.iners
sub195 L.iners
sub193 L.iners
sub132 L.iners
sub135 L.iners
sub198 L.iners
sub153 L.iners
sub164 L.iners
sub110 L.iners
sub187 L.iners

sub134 L.crispatus
sub127 L.crispatus
sub187 L.crispatus
sub148 L.crispatus
sub110 L.crispatus
sub126 L.crispatus
sub160 L.crispatus
sub158 L.crispatus
sub188 L.crispatus
sub153 L.crispatus
sub145 L.crispatus
sub115 L.crispatus
sub197 L.crispatus
sub135 L.crispatus
sub195 L.crispatus
sub177 L.crispatus
sub140 L.crispatus
sub145 L.crispatus
sub104 L.crispatus
sub162 L.crispatus
sub144 L.crispatus
sub156 L.crispatus
sub128 L.crispatus
sub115 L.crispatus
sub133 L.crispatus
sub106 L.crispatus
sub198 L.crispatus
sub186 L.crispatus
sub119 L.jensenii
sub186 L.jensenii
sub141 L.jensenii
sub128 L.jensenii
sub132 L.jensenii
sub176 L.jensenii
sub110 L.jensenii
sub104 L.jensenii
sub124 L.jensenii
sub147 L.jensenii
sub127 L.jensenii
sub184 L.jensenii

sub127 L.iners
sub176 L.iners
sub147 L.iners
sub158 L.iners
sub188 L.iners



Tree
(33 strains)



Roary matrix
(11916 gene clusters)

