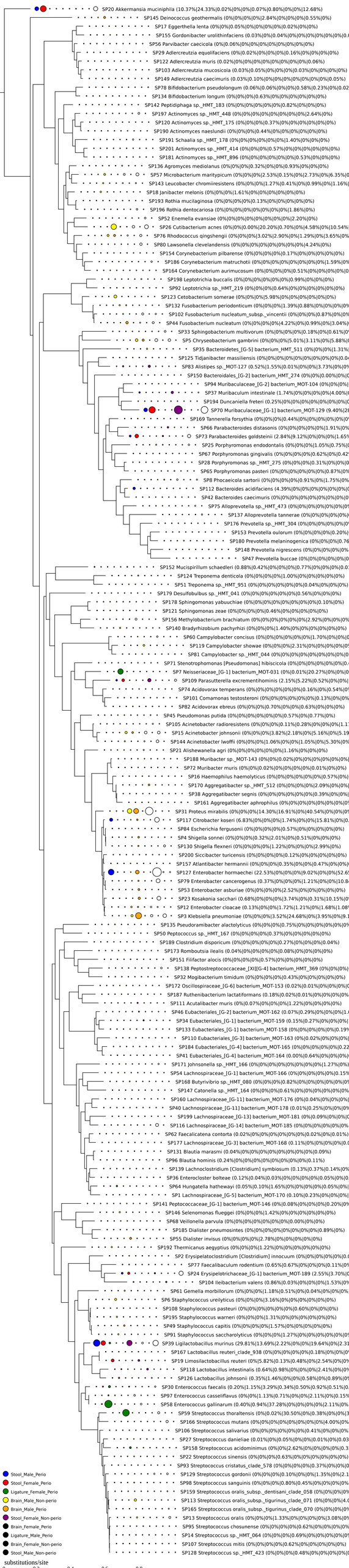
SP20 Akkermansia muciniphila (10.37%|24.33%|0.02%|0%|0%|0.07%|0.80%|0%|0%|12.68%)
SP145 Deinococcus geothermalis (0%|0%|0%|0%|2.84%|0%|0%|0%|0.55%|0%)
SP17 Eggerthella lenta (0%|0%|0.05%|0%|0%|0%|0%|0.02%|0%|0%)
SP155 Gordonibacter urolithinfaciens (0.03%|0%|0.04%|0%|0%|0%|0%|0%|0%|0.0
SP56 Parvibacter caecicola (0.06%|0%|0%|0%|0%|0%|0%|0%|0%|0%)
SP29 Adlercreutzia equolifaciens (0%|0.02%|0%|0%|0%|0.16%|0%|0%|0%|0%)
SP122 Adlercreutzia muris (0.02%|0%|0%|0%|0%|0%|0%|0%|0%|0.06%)
SP103 Adlercreutzia mucosicola (0.03%|0.05%|0%|0%|0%|0.03%|0%|0%|0%|0%)
SP149 Adlercreutzia caecimuris (0.03%|0.10%|0%|0%|0%|0%|0%|0%|0%|0.05%)
SP78 Bifidobacterium pseudolongum (0.06%|0.06%|0%|0%|0.58%|0.23%|0%|0.02
SP134 Bifidobacterium longum (0%|0%|0%|0.63%|0%|0%|0%|0%|0%|0%)
SP142 Peptidiphaga sp._HMT_183 (0%|0%|0%|0%|0%|0%|0.82%|0%|0%|0%)
SP197 Actinomyces sp._HMT_448 (0%|0%|0%|0%|0%|0%|0%|0%|2.64%|0%)
SP120 Actinomyces sp._HMT_175 (0%|0%|0%|0.37%|0%|0%|0%|0%|0%|0%)
SP190 Actinomyces naeslundii (0%|0%|0%|0.44%|0%|0%|0%|0%|0%|0%)
SP191 Schaalia sp._HMT_178 (0%|0%|0%|0%|0%|0%|1.40%|0%|0%|0%)
SP201 Actinomyces sp._HMT_414 (0%|0%|0%|0.57%|0%|0%|0%|0%|0%|0%)
SP181 Actinomyces sp._HMT_896 (0%|0%|0%|0%|0%|0%|0.53%|0%|0%|0%)
SP136 Agromyces mediolanus (0%|0%|0%|0.32%|0%|0%|0.93%|0%|0%|0%)
SP57 Microbacterium maritypicum (0%|0%|0%|2.53%|0.15%|0%|2.73%|0%|6.35%|0
SP143 Leucobacter chromiireisitens (0%|0%|0%|1.27%|0.41%|0%|0.99%|0%|1.16%|
SP18 Janibacter melonis (0%|0%|0%|1.61%|0%|0%|0%|0%|0%|0%)
SP193 Rothia mucilaginosa (0%|0%|0%|0.13%|0%|0%|0%|0%|0%|0%)
SP196 Rothia dentocariosa (0%|0%|0%|0%|0%|0%|0%|1.86%|0%)
SP52 Enemella evansiae (0%|0%|0%|0%|0%|0%|0%|2.20%|0%)
SP26 Cutibacterium acnes (0%|0%|0.00%|20.20%|0.70%|0%|4.58%|0%|10.54%
SP76 Rhodococcus qingshengii (0%|0%|0%|3.02%|2.90%|0%|1.29%|0%|3.65%|0%
SP80 Lawsonella clevelandensis (0%|0%|0%|0%|0%|0%|0%|4.24%|0%)
SP154 Corynebacterium pilbarense (0%|0%|0%|0%|0.17%|0%|0%|0%|0%|0%)
SP186 Corynebacterium matruchotii (0%|0%|0%|0%|0%|0%|0%|0%|1.59%|0%
SP164 Corynebacterium aurimucosum (0%|0%|0%|0%|0.51%|0%|0%|0%|0%|0%
SP198 Leptotrichia buccalis (0%|0%|0%|0%|0%|0%|0.99%|0%|0%|0%)
SP92 Leptotrichia sp._HMT_219 (0%|0%|0%|0.64%|0%|0%|0%|0%|0%|0%)
SP123 Cetobacterium somerae (0%|0%|0%|5.98%|0%|0%|0%|0%|0%|0%)
SP132 Fusobacterium periodonticum (0%|0%|0%|1.39%|0.88%|0%|0%|0%|0%
SP102 Fusobacterium nucleatum subsp._vincentii (0%|0%|0%|0.87%|0%|0%
SP44 Fusobacterium nucleatum (0%|0%|0%|0%|4.22%|0%|0.99%|0%|3.04%|0
SP33 Sphingobacterium multivorum (0%|0%|0%|0%|0.18%|0%|0.61%|0
SP5 Chryseobacterium gambrini (0%|0%|0%|5.01%|3.11%|0%|5.88%|0
SP35 Bacteroidetes_[G-5] bacterium_HMT_511 (0%|0%|0%|1.31%
SP125 Tidjanibacter massiliensis (0%|0%|0%|0%|0%|0%|0%|0%|0%|0.0
SP83 Alistipes sp._MOT-127 (0.52%|1.55%|0.01%|0%|0%|3.73%|0%|0
SP150 Bacteroidales_[G-2] bacterium_HMT_274 (0%|0%|0%|0.00%|0%
SP94 Muribaculaceae_[G-2] bacterium_MOT-104 (0%|0%|0%)
SP37 Muribaculum intestinale (1.74%|0%|0%|0%|4.00%
SP194 Duncaniella freteri (0.25%|0%|0%|0%|0%|0%|0%|0%
SP70 Muribaculaceae_[G-1] bacterium_MOT-129 (9.40%|2
SP169 Tannerella forsythia (0%|0%|0%|0.44%|0%|0%|0%|0%|0%
SP66 Parabacteroides distasonis (0%|0%|0%|0%|1.91%|0
SP73 Parabacteroides goldsteinii (2.84%|9.12%|0%|0%|1.65
SP25 Porphyromonas endodontalis (0%|0%|0%|1.05%|0.75%
SP67 Porphyromonas gingivalis (0%|0%|0%|0%|0.62%|0%|0.42
SP28 Porphyromonas sp._HMT_275 (0%|0%|0%|0.31%|0%|0
SP65 Porphyromonas pasteri (0%|0%|0%|0%|0%|0%|0.87%|0
SP8 Phocaeicola sartorii (0%|0%|0%|0%|0.91%|0%|1.75%|0
SP112 Bacteroides acidifaciens (4.39%|0%|0%|0%|0%|0%|0%|0
SP42 Bacteroides caecimuris (0%|0%|0%|0%|0%|0%|0%|0%|0
SP75 Alloprevotella sp._HMT_473 (0%|0%|0%|0%|0%|0%|0%|0
SP137 Alloprevotella tannerae (0%|0%|0%|0%|0%
SP176 Prevotella sp._HMT_304 (0%|0%|0%|0%|0%|0
SP153 Prevotella oulorum (0%|0%|0%|0%|0.20%|
SP180 Prevotella melaninogenica (0%|0%|0%|0.76
SP148 Prevotella nigrescens (0%|0%|0%|0%|0%
SP47 Prevotella buccae (0%|0%|0%|0%|0%|0
SP152 Mucispirillum schaedleri (0.88%|0.42%|0%|0%|0.77%|0%|0%|0%|0.0
SP124 Treponema denticola (0%|0%|0%|1.00%|0%|0%|0%|0%|0%)
SP51 Treponema sp._HMT_951 (0%|0%|0%|0%|0%|0.04%|0%|0%|0%)
SP179 Desulfobulbus sp._HMT_041 (0%|0%|0%|0%|0%|0.56%|0%|0%|0%)
SP178 Sphingomonas yabuuchiae (0%|0%|0%|0%|0%|0%|0%|0.10%|0%)
SP121 Sphingomonas zeae (0%|0%|0%|0%|0.46%|0%|0%|0%|0%)
SP156 Methylobacterium brachiatum (0%|0%|0%|0%|0%|0%|2.92%|0%|0%
SP140 Bradyrhizobium pachyrhizi (0%|0%|0%|1.40%|0%|0%|0%|0%|0%)
SP60 Campylobacter concisus (0%|0%|0%|0%|0%|0%|1.70%|0%|0
SP119 Campylobacter showae (0%|0%|0%|2.31%|0%|0%|0%|0%|
SP81 Campylobacter sp._HMT_044 (0%|0%|0%|0%|0%|0%|0%|0%|
SP71 Stenotrophomonas [Pseudomonas] hibiscicola (0%|0%|0%|0%|0%|0%|0.
SP7 Neisseriaceae_[G-1] bacterium_MOT-031 (0%|0.01%|20.27%|0%|0%
SP109 Parasutterella excrementihominis (2.15%|5.22%|0.52%|0%|0%
SP74 Acidovorax temperans (0%|0%|0%|0%|0%|0.16%|0%|0.54%|0
SP101 Comamonas testosteroni (0%|0%|0%|0%|0%|0%|0.13%|0%|0
SP82 Acidovorax ebreus (0%|0%|0%|0.70%|0%|0%|0.63%|0%|0%)
SP45 Pseudomonas putida (0%|0%|0%|0%|0%|0%|0.57%|0%|0.77%|0%)
SP105 Acinetobacter radioresistens (0%|0%|0%|0.11%|0.28%|0%|0%|0%|1.1
SP15 Acinetobacter johnsonii (0%|0%|0%|3.82%|2.18%|0%|5.16%|0%|5.19
SP144 Acinetobacter lwoffii (0%|0%|0%|1.06%|0%|0%|1.05%|0%|5.30%|0
SP21 Alishewanella agri (0%|0%|0%|0%|0%|0%|1.16%|0%|0%|0%)
SP188 Muribacter sp._MOT-143 (0%|0%|0.02%|0%|0%|0%|0%|0%|0
SP72 Muribacter muris (0%|0%|0.02%|0%|0%|0%|0.01%|0%|0%)
SP16 Haemophilus haemolyticus (0%|0%|0%|0%|0%|0%|0.57%|0%|
SP170 Aggregatibacter sp._HMT_512 (0%|0%|0%|0%|2.09%|0%|0%
SP38 Aggregatibacter segnis (0%|0%|0%|0%|0%|0%|0.39%|0%|0%
SP161 Aggregatibacter aphrophilus (0%|0%|0%|0%|0%|0%|0%|0
SP31 Proteus mirabilis (0%|0%|0%|14.30%|16.91%|0%|40.54%|0%|0
SP117 Citrobacter koseri (6.83%|0%|0%|0%|1.74%|0%|0%|15.81%|0%|0.
SP84 Escherichia fergusonii (0%|0%|0%|0%|0.57%|0%|0%|0%|0%|0%)
SP4 Shigella sonnei (0%|0%|0%|0.32%|2.01%|0%|0.51%|0%|0%|0%)
SP130 Shigella flexneri (0%|0%|0%|0%|1.22%|0%|0%|2.99%|0%)
SP200 Siccibacter turicensis (0%|0%|0%|0%|0.12%|0%|0%|0%|0%|0%)
SP157 Atlantibacter hermannii (0%|0%|0%|0.35%|0%|0%|0.47%|0%|0%
SP127 Enterobacter hormaechei (22.53%|0%|0%|0%|9.02%|0%|52.6
SP79 Enterobacter cancerogenus (0.37%|0%|0%|0%|1.21%|0%|0%|10.8
SP53 Enterobacter asburiae (0%|0%|0%|0%|2.52%|0%|0%|0%|0%|0%)
SP23 Kosakonia sacchari (0.68%|0%|0%|0%|3.74%|0%|0.31%|10.15%|0
SP12 Enterobacter cloacae (0.13%|0%|0%|1.72%|1.21%|0%|1.68%|1.08
SP3 Klebsiella pneumoniae (0%|0%|0%|3.52%|24.68%|0%|3.95%|0%|9.
SP135 Pseudoramibacter alactolyticus (0%|0%|0%|0.75%|0%|0%|0%|0%|0
SP50 Peptococcus sp._HMT_167 (0%|0%|0%|0%|0.37%|0%|0%|0%|0%|0%)
SP189 Clostridium disporicum (0%|0%|0%|0%|0.27%|0%|0%|0%|0.04%)
SP173 Romboutsia ilealis (0.04%|0%|0%|0%|0%|0.08%|0%|0%|0%|0%)
SP151 Filifactor alocis (0%|0%|0%|0%|0.57%|0%|0%|0%|0%|0%)
SP138 Peptostreptococcaceae_[XI][G-4] bacterium_HMT_369 (0%|0%|0%|
SP32 Mogibacterium timidum (0%|0%|0%|0%|0.43%|0%|0%|0%|0%|0
SP172 Oscillospiraceae_[G-6] bacterium_MOT-153 (0.02%|0.01%|0%|0%|0%
SP187 Ruthenibacterium lactatiformans (0.18%|0.02%|0.01%|0%|0%|0%
SP111 Acutalibacter muris (0%|0.07%|0%|0%|0%|1.22%|0%|0%|0%|0%)
SP46 Eubacteriales_[G-2] bacterium_MOT-162 (0.07%|0.29%|0%|0%|0%|1.4
SP34 Eubacteriales_[G-1] bacterium_MOT-159 (0.15%|0.27%|0%|0%|0%|
SP133 Eubacteriales_[G-1] bacterium_MOT-158 (0%|0%|0%|0%|0%|0.19
SP110 Eubacteriales_[G-3] bacterium_MOT-163 (0%|0.02%|0%|0%|0%|
SP184 Eubacteriales_[G-4] bacterium_MOT-165 (0%|0%|0%|0%|0%|0.22
SP41 Eubacteriales_[G-4] bacterium_MOT-164 (0.00%|0.64%|0%|0%|0%
SP171 Johnsonella sp._HMT_166 (0%|0%|0%|0%|0%|0%|0%|1.27%|0%)
SP54 Lachnospiraceae_[G-1] bacterium_MOT-166 (0%|0%|0%|0%|0%|0.15%
SP168 Butyrivibrio sp._HMT_080 (0%|0%|0%|0.82%|0%|0%|0%|0%|0%
SP147 Catonella sp._HMT_164 (0%|0%|0%|0.61%|0%|0%|0%|0%|0%
SP160 Lachnospiraceae_[G-11] bacterium_MOT-176 (0%|0.04%|0%|0%|0%
SP40 Lachnospiraceae_[G-11] bacterium_MOT-178 (0.01%|0.25%|0%|0%|0
SP199 Lachnospiraceae_[G-13] bacterium_MOT-181 (0%|0.09%|0%|0%|0
SP116 Lachnospiraceae_[G-14] bacterium_MOT-185 (0%|0%|0%|0%|0%|0
SP62 Faecalicatena contorta (0.02%|0%|0%|0%|0%|0.02%|0%|0.01%)
SP177 Lachnospiraceae_[G-3] bacterium_MOT-168 (0.11%|0%|0%|0%|0.0
SP131 Blautia marasmi (0.04%|0%|0%|0%|0%|0%|0%|0.09%)
SP96 Blautia hominis (0.24%|0%|0%|0%|0%|0%|0%|0.11%)
SP139 Lachnoclostridium [Clostridium] symbiosum (0.13%|0.37%|0.14%|0
SP36 Enterocloster bolteae (0.12%|0.04%|0.03%|0%|0%|0%|0.05%|0%|0
SP64 Hungatella hathewayi (0.05%|0.10%|1.65%|0%|0%|0%|0%|0.05%|0
SP1 Lachnospiraceae_[G-5] bacterium_MOT-170 (0.10%|0.23%|0%|0%|0
SP141 Peptococcaceae_[G-1] bacterium_MOT-146 (0%|0.08%|0%|0%|0%|0.20%|0
SP146 Selenomonas flueggei (0%|0%|0%|1.42%|0%|0%|0%|0%|0%)
SP68 Veillonella parvula (0%|0%|0%|0%|0%|0%|0.00%|0%|0%)
SP185 Dialister pneumosintes (0%|0%|0%|0%|0%|0%|0%|0.89%|0%)
SP55 Dialister invisus (0%|0%|0%|0%|2.78%|0%|0%|0%|0%|0%)
SP192 Thermicanus aegyptius (0%|0%|0%|1.22%|0%|0%|0%|0%|0%)
SP2 Erysipelatoclostridium [Clostridium] innocuum (0%|0%|0%|0%|0%|0.0
SP77 Faecalibaculum rodentium (0.65%|0.67%|0%|0%|0%|0.11%|0
SP24 Erysipelotrichaceae_[G-1] bacterium_MOT-189 (2.55%|3.70%|0
SP104 Ileibacterium valens (0.86%|0.03%|0%|0%|1.53%|0
SP61 Gemella morbillorum (0%|0%|0%|1.18%|0.51%|0%|0.04%|0%|0%
SP6 Staphylococcus urealyticus (0%|0%|0%|3.16%|0%|0%|0%|0%|0%
SP108 Staphylococcus pasteuri (0%|0%|0%|0%|0%|0%|0.60%|0%|0%|0%)
SP195 Staphylococcus warneri (0%|0%|0%|1.31%|0%|0%|0%|0%|0%)
SP49 Staphylococcus capitis (0%|0%|0%|0%|1.57%|0%|0%|0%|0%)
SP91 Staphylococcus saccharolyticus (0%|0%|0%|1.27%|0%|0%|0%|0%|0
SP39 Ligilactobacillus murinus (29.81%|13.69%|2.22%|0%|0%|19.64%|0%|2.31
SP167 Lactobacillus reuteri_clade_938 (0%|0%|0%|0%|0%|0.18%|0%|0%|
SP19 Limosilactobacillus reuteri (0%|5.82%|0.13%|0.48%|0%|2.54%|0%|0
SP118 Lactobacillus intestinalis (0.64%|0.98%|0%|0%|0%|2.41%|0%|0
SP126 Lactobacillus johnsonii (0.35%|1.46%|0%|0%|0.58%|0%|0.89%|0
SP30 Enterococcus faecalis (0.20%|1.15%|3.29%|0.34%|0.50%|0.92%|0.51%|0.
SP97 Enterococcus casseliflavus (0%|0%|1.13%|0.71%|0%|0%|2.11%|0%|0.15%
SP58 Enterococcus gallinarum (0.40%|0.94%|37.28%|0%|0%|0%|0%|2.11%|0%
SP59 Streptococcus thoraltensis (0%|0.02%|30.50%|0%|0.38%|0%|0%|3
SP166 Streptococcus mutans (0%|0%|0%|0%|0%|0%|0%|4.00%|0%
SP106 Streptococcus salivarius (0%|0%|0%|0%|0%|0.41%|0%|0%|0%
SP27 Streptococcus danieliae (0.01%|0%|0.05%|0%|0%|0.01%|0%|0.03
SP158 Streptococcus acidominimus (0%|0%|2.62%|0%|0%|0%|0%|0.3
SP22 Streptococcus sinensis (0%|0%|0%|0.63%|0%|0%|0%|0%|0%|0%
SP93 Streptococcus cristatus_clade_578 (0%|0%|0%|0%|0.37%|0%|0%|0
SP129 Streptococcus gordonii (0%|0%|0%|0.10%|0%|0%|1.35%|0%|2.1
SP98 Streptococcus sanguinis (0%|0%|0%|0.80%|0.45%|0%|0%|0%|0%
SP159 Streptococcus oralis_subsp._dentisani_clade_058 (0%|0%|0%|0%
SP113 Streptococcus oralis_subsp._tigurinus_clade_071 (0%|0%|0%|4.0
SP165 Streptococcus oralis_subsp._tigurinus_clade_070 (0%|0%|0%|0%
SP13 Streptococcus oralis (0%|0%|0%|1.33%|0%|0%|0%|3.08%|0%
SP95 Streptococcus chosunense (0%|0%|0%|0%|0.62%|0%|0%|0%|0%
SP14 Streptococcus sp._HMT_064 (0%|0%|0%|0.69%|0%|0%|0%|0%|0%
SP107 Streptococcus mitis (0%|0%|0%|0%|0.62%|0%|0%|0%|0%|0%)
SP128 Streptococcus sp._HMT_423 (0%|0%|0%|0.48%|0%|0%|0%|0%|0%
Stool_Male_Perio
Stool_Female_Perio
Ligature_Female_Perio
Brain_Male_Non-perio
Brain_Male_Perio
Stool_Female_Non-perio
Brain_Female_Perio
Ligature_Male_Perio
Brain_Female_Non-perio
Stool_Male_Non-perio
substitutions/site
0
0.2
0.4
0.6
0.8