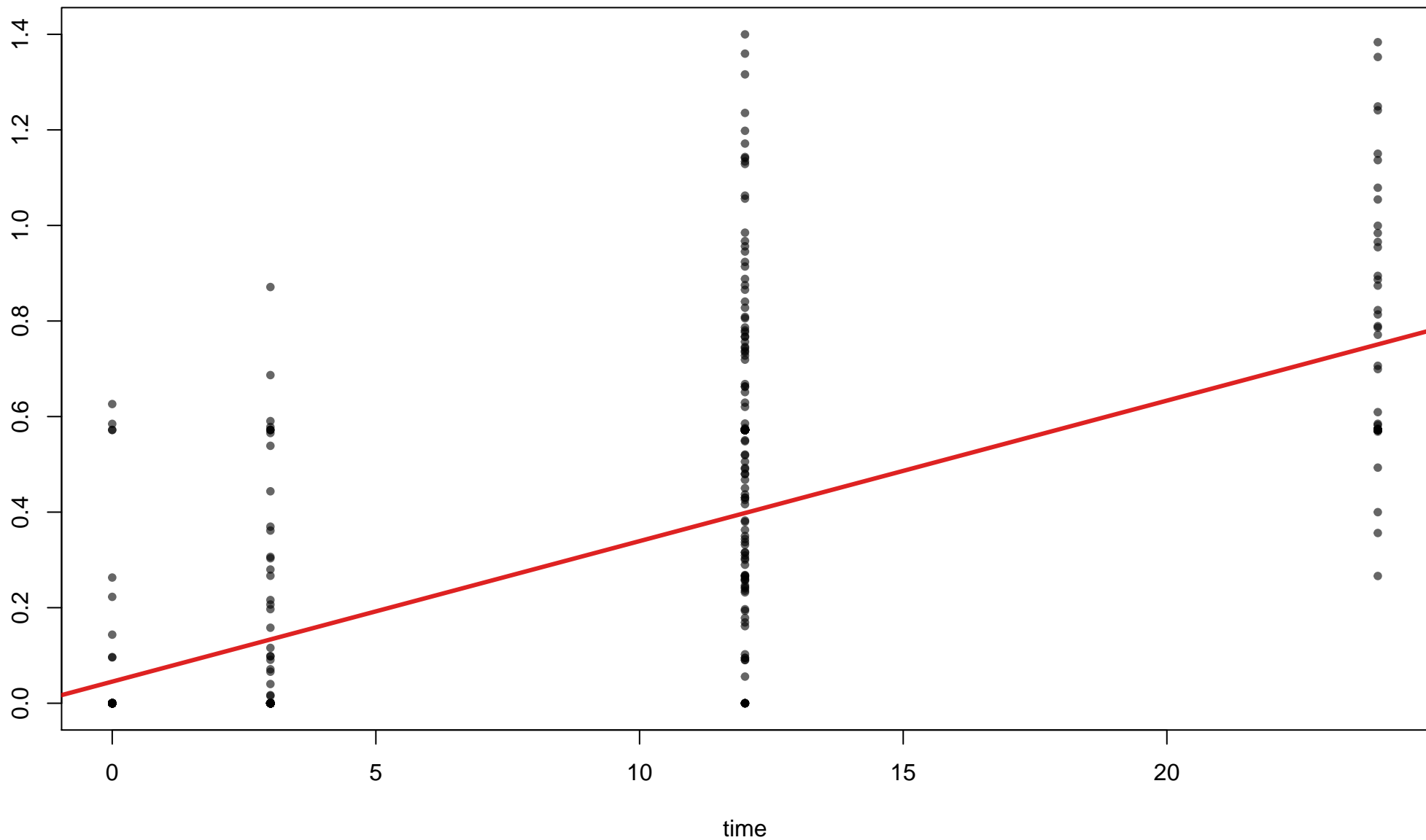
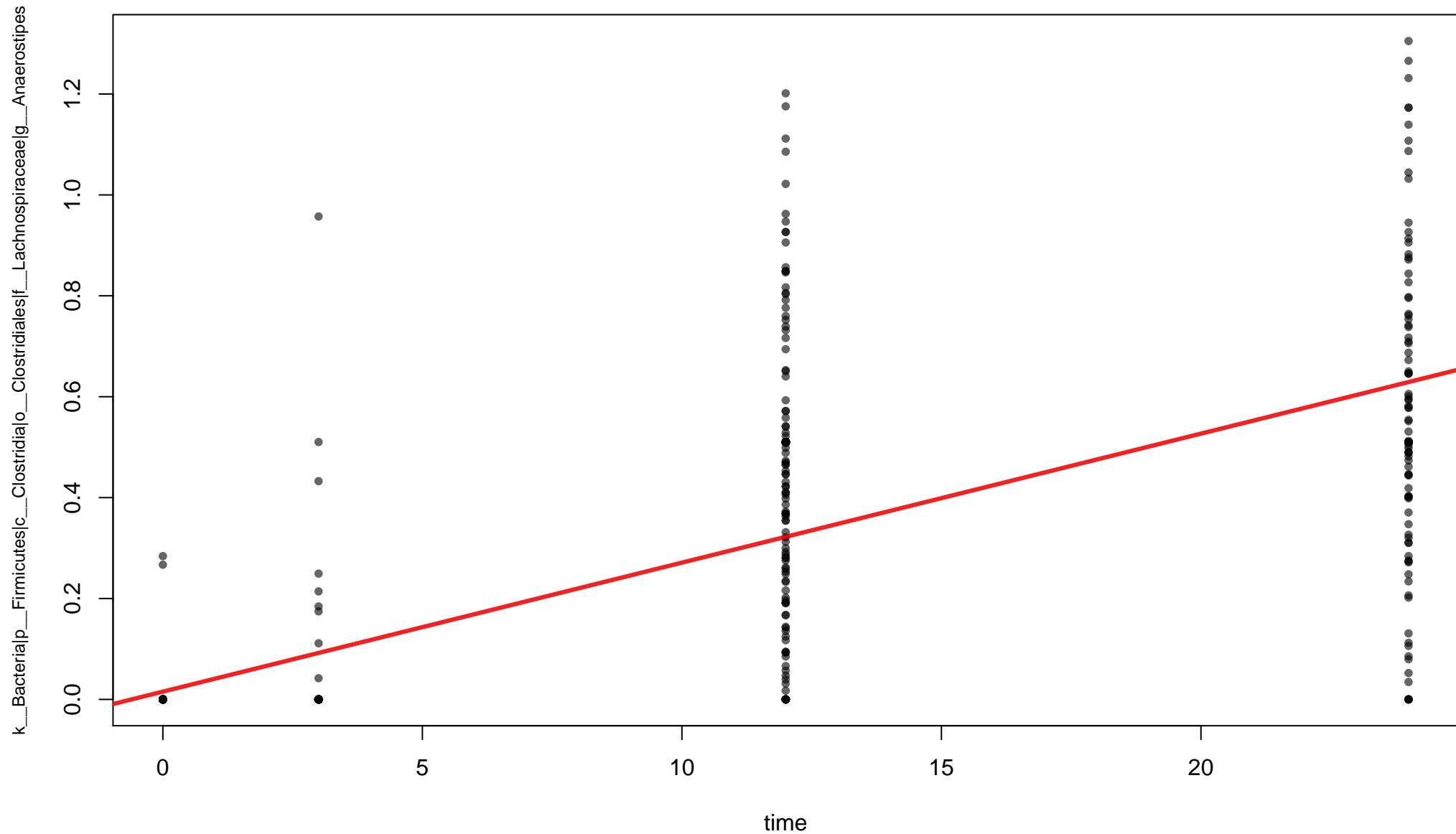


time (0.0294 sd 0.000979, p=1.54e-124, q=4.84e-121)

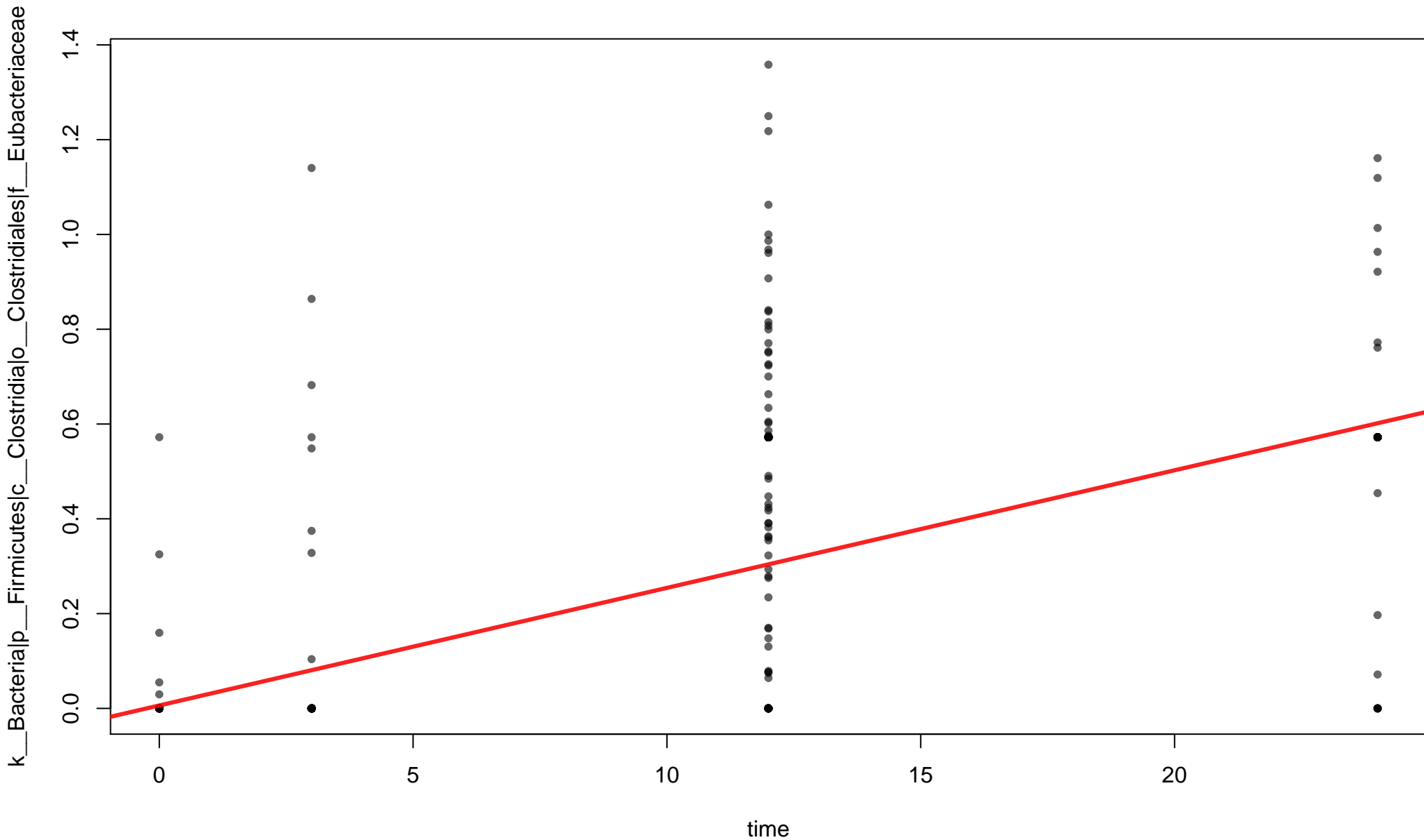
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Clostridia|o\_\_Clostridiales|f\_\_Lachnospiraceae|g\_\_Lachnospiraceae|noname



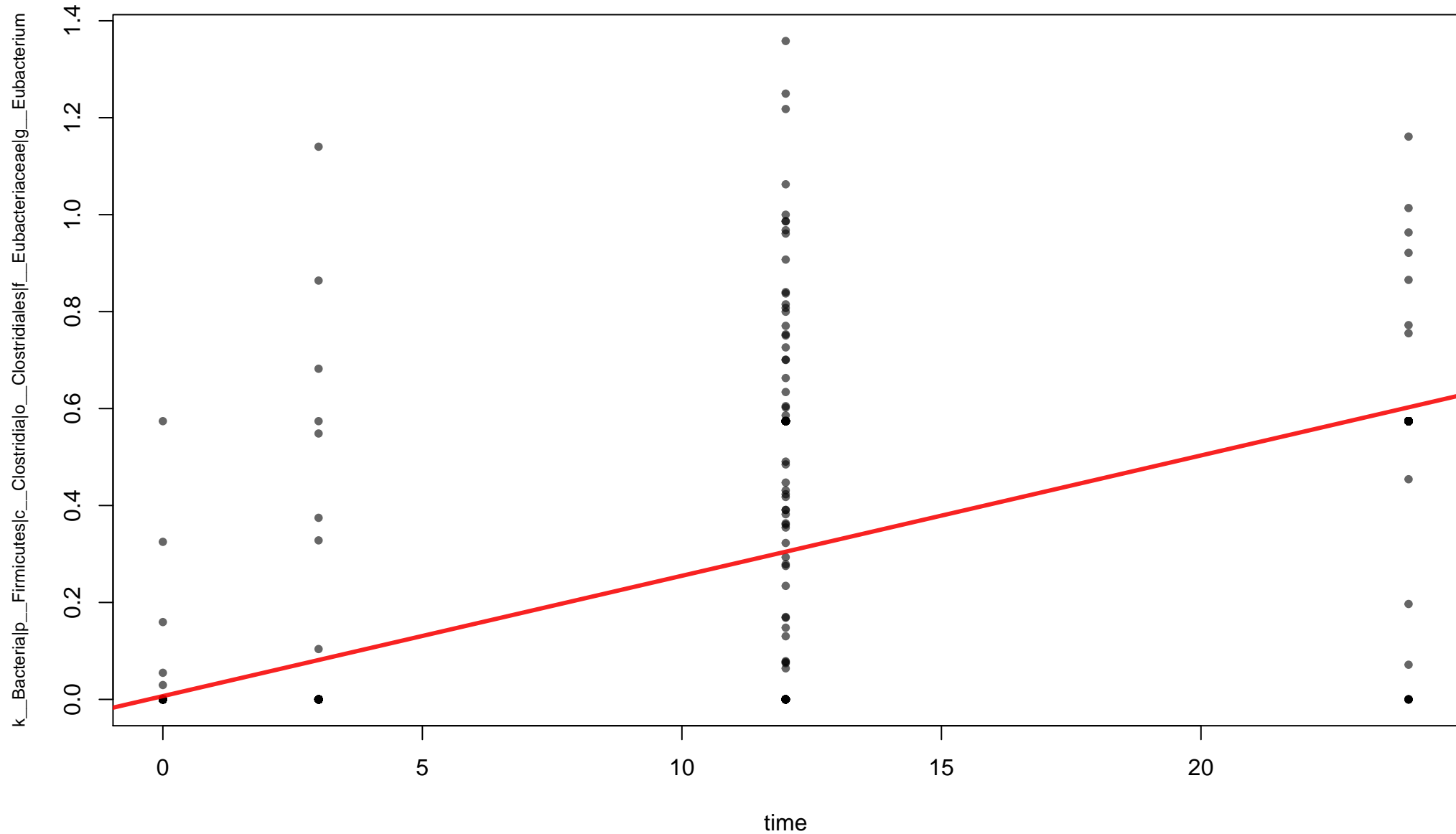
time (0.0256 sd 0.000946, p=3.99e-108, q=6.27e-105)



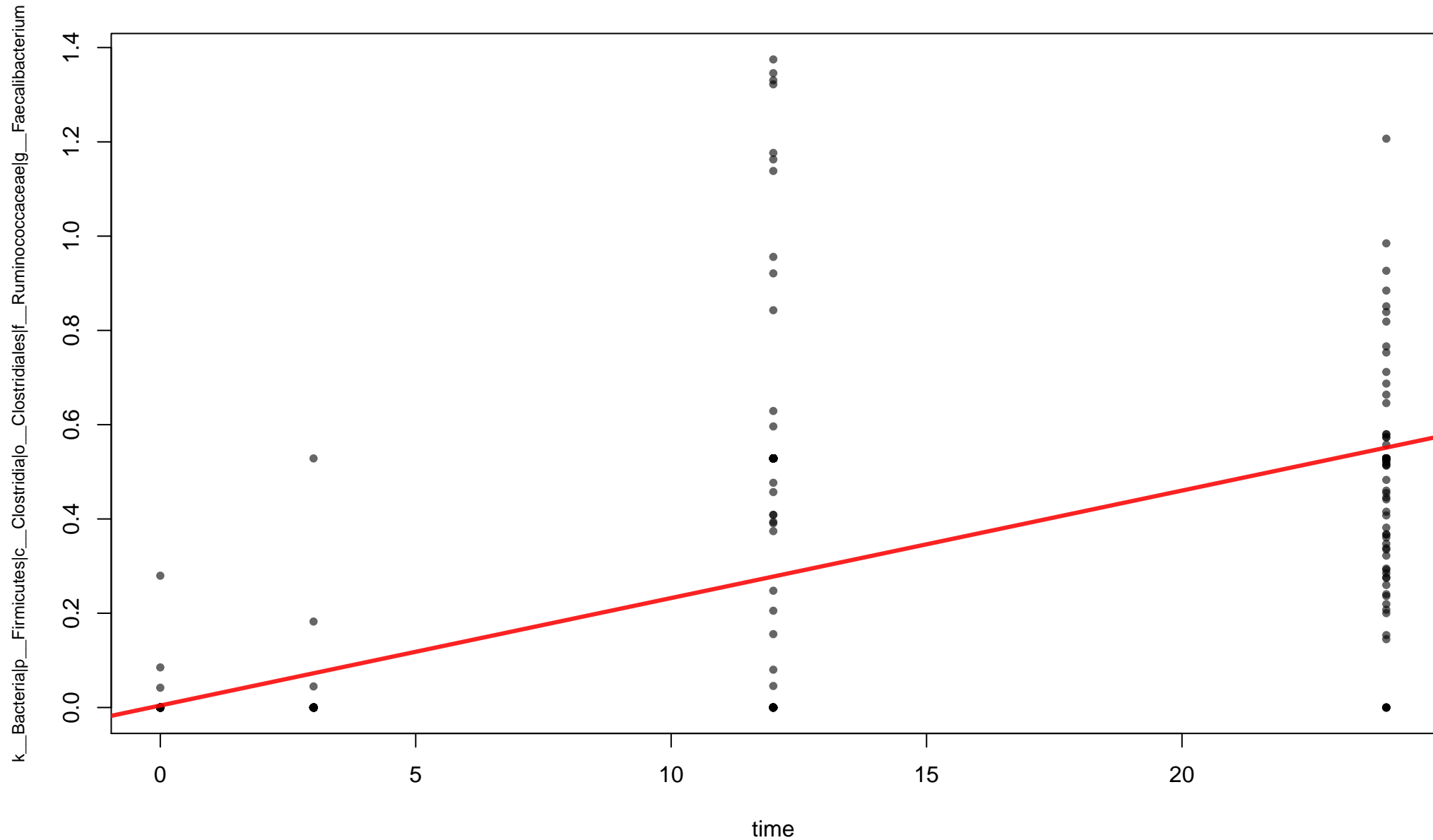
time (0.0248 sd 0.000961, p=1.9e-101, q=1.99e-98)



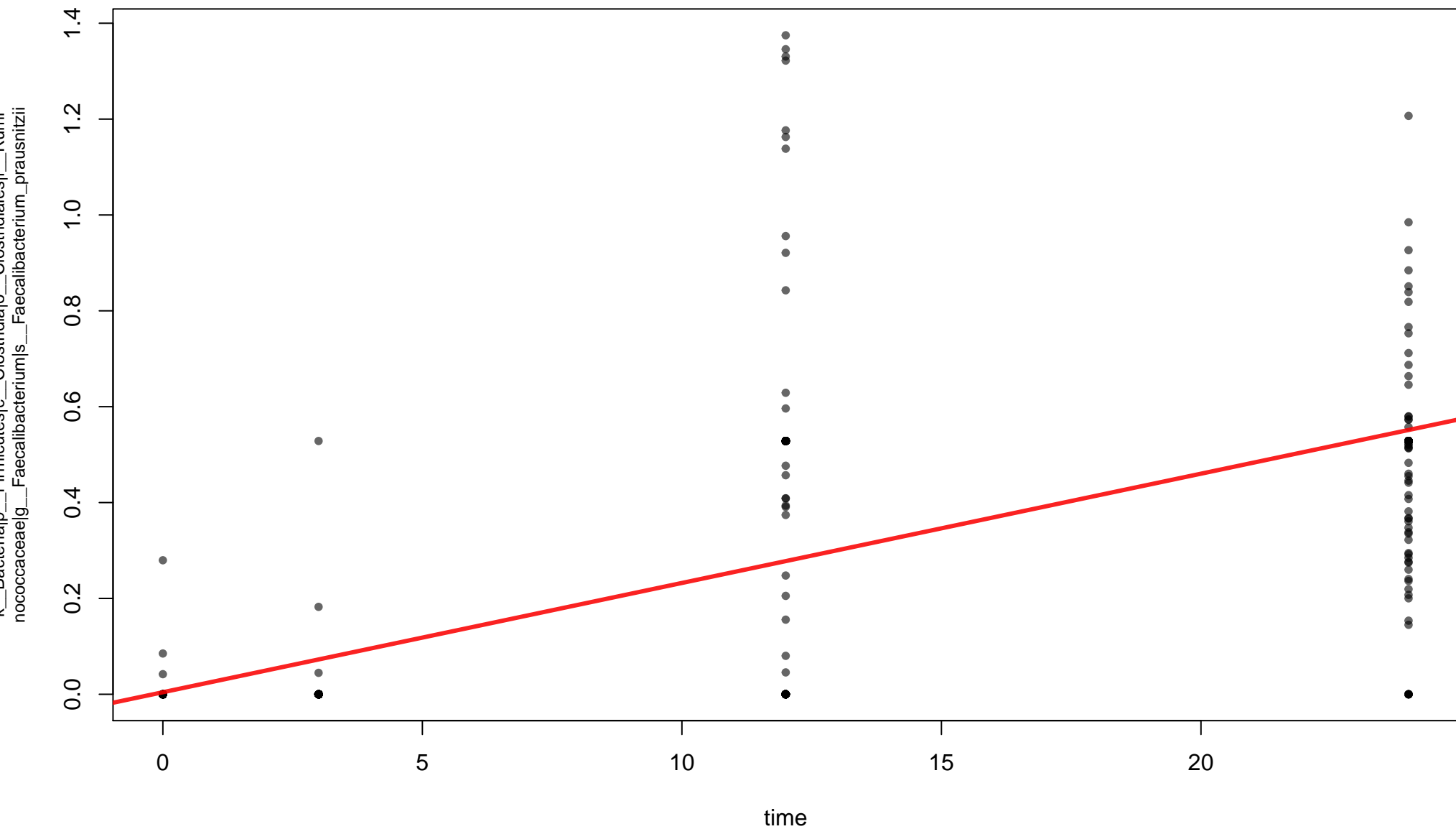
time (0.0248 sd 0.000965, p=6.32e-101, q=4.96e-98)



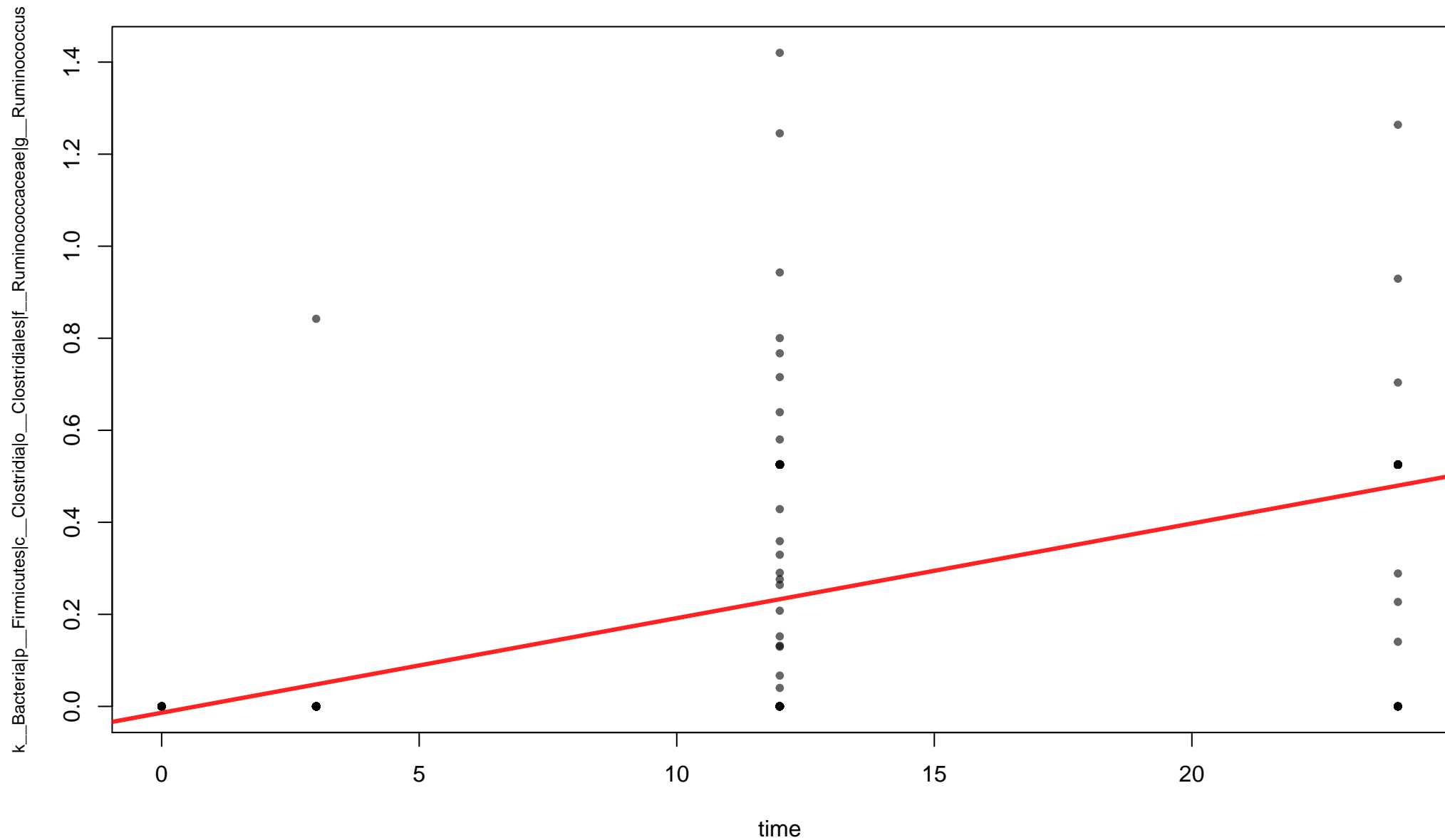
time (0.0228 sd 0.000917, p=4.49e-96, q=2.35e-93)



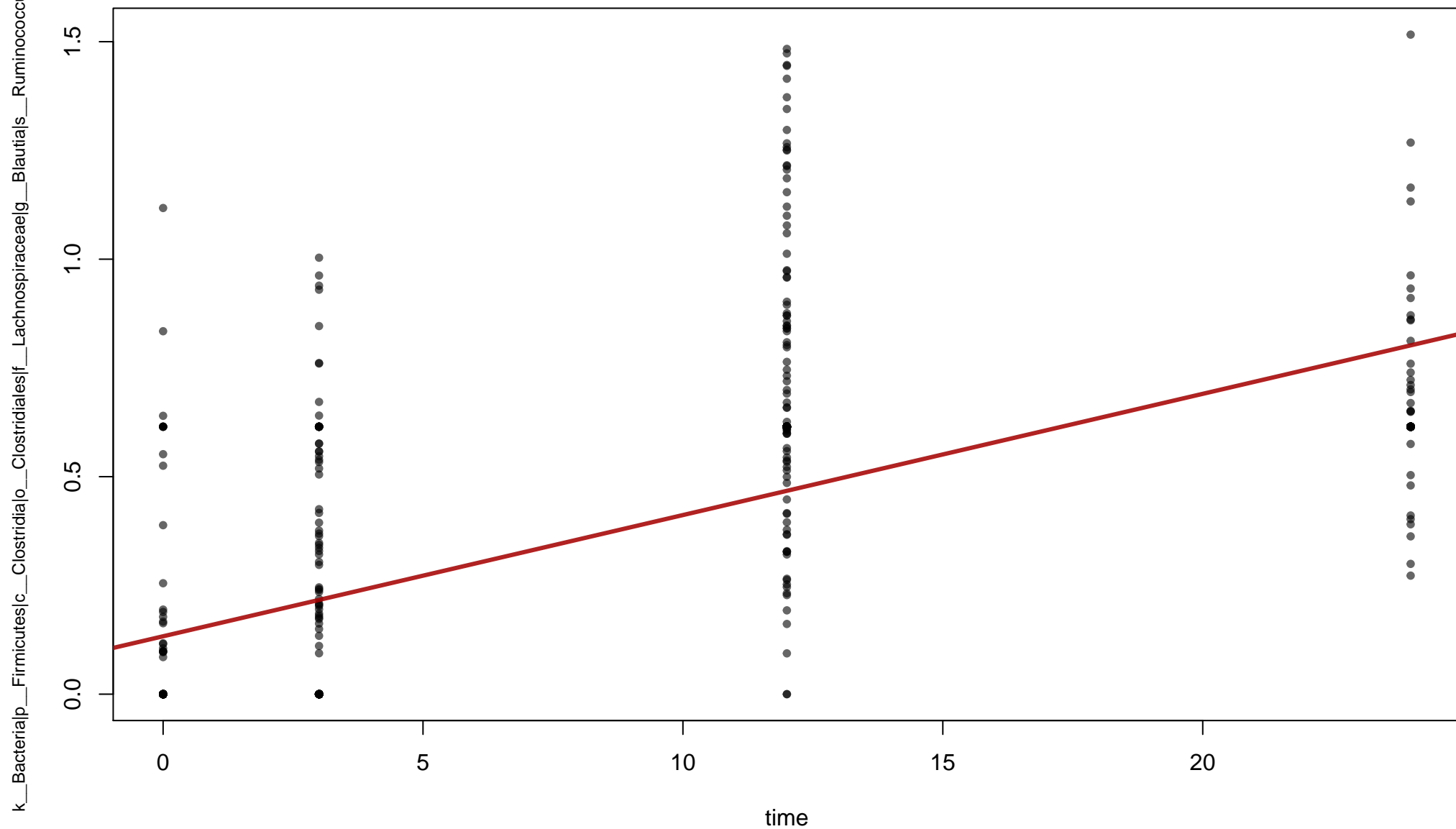
time (0.0228 sd 0.000917, p=4.49e-96, q=2.35e-93)



time (0.0206 sd 0.00084, p=5.39e-94, q=2.42e-91)

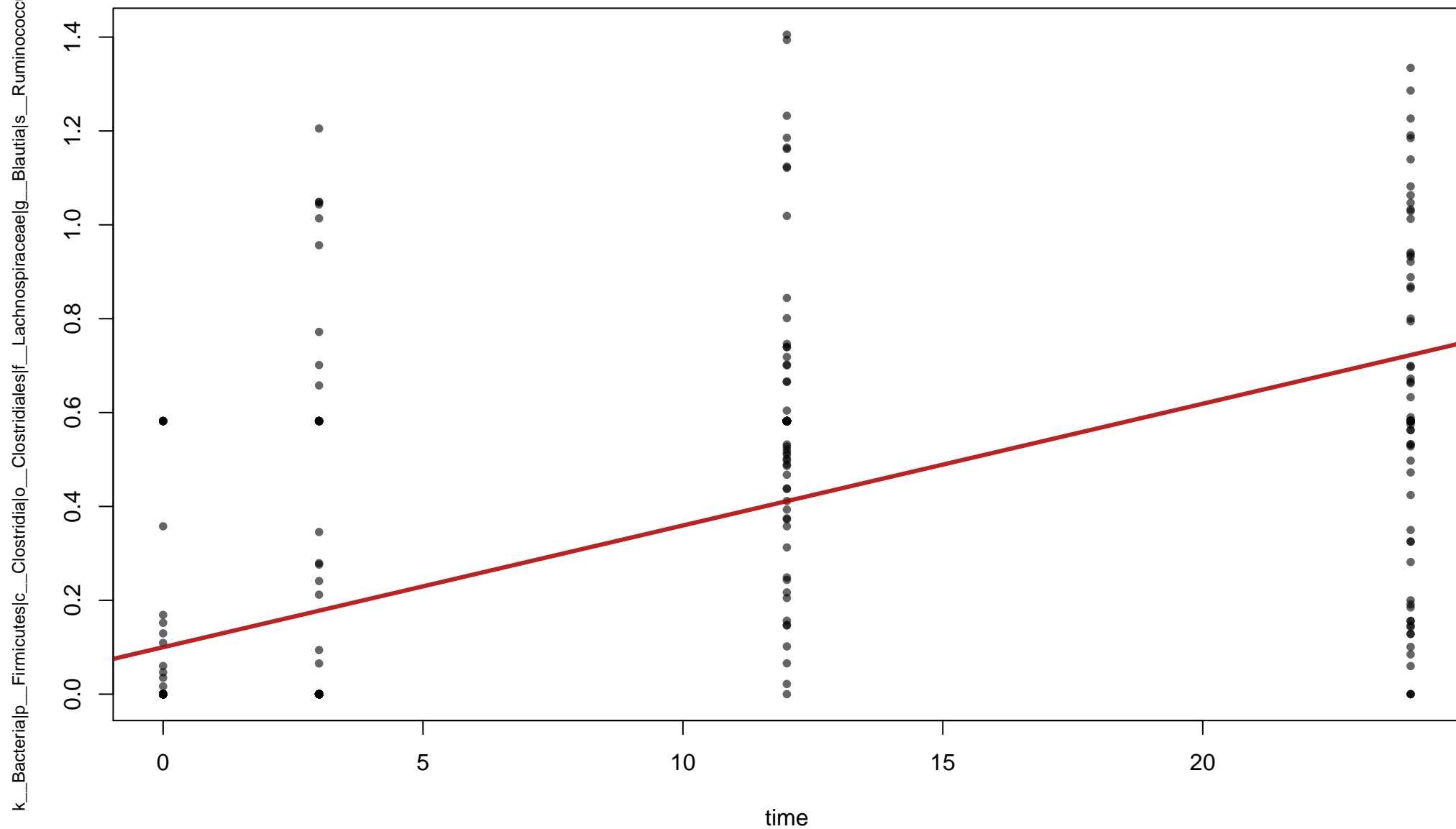


time (0.0279 sd 0.00118, p=3.34e-89, q=1.31e-86)

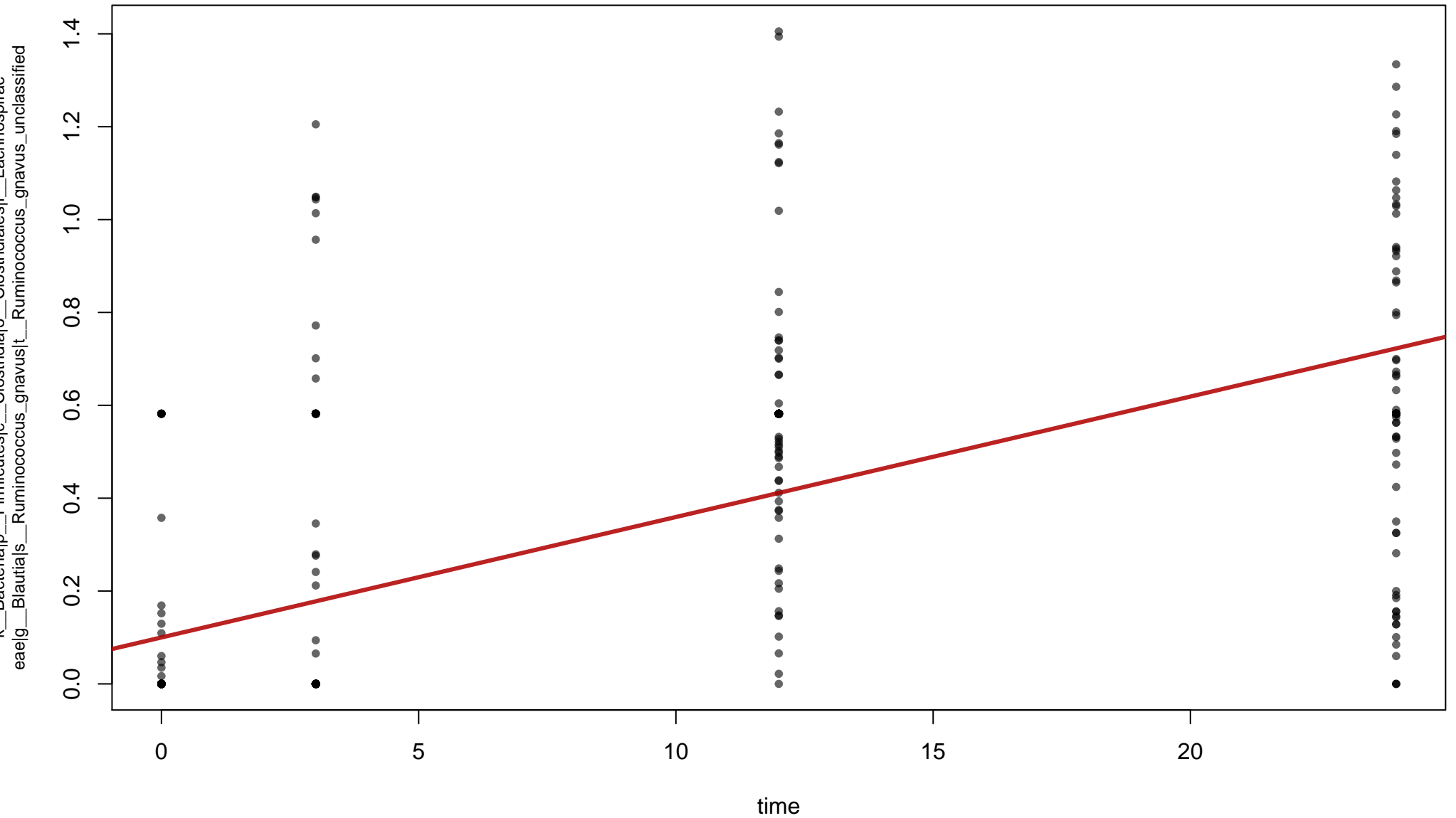




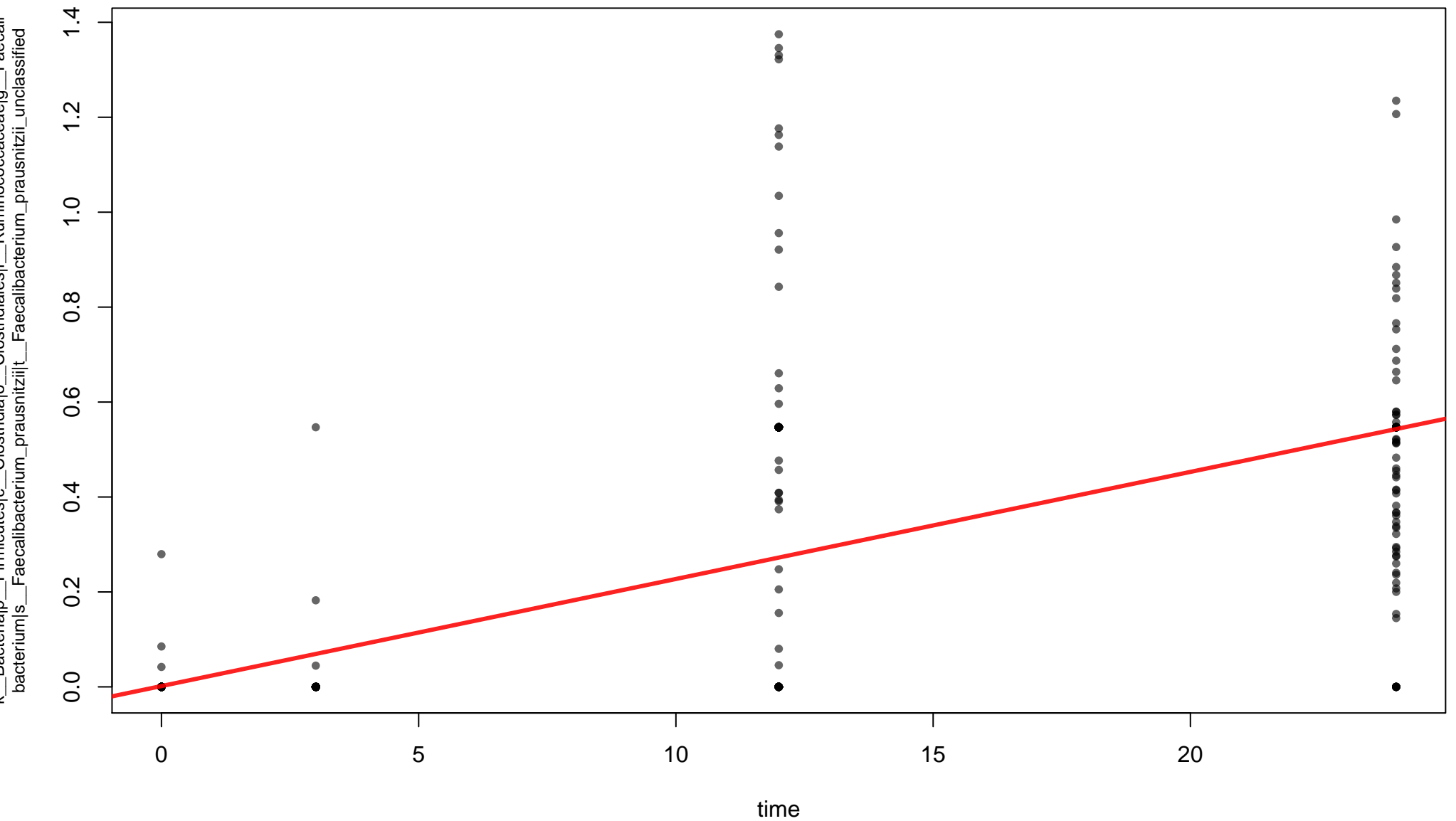
time (0.026 sd 0.00111, p=9.48e-88, q=2.98e-85)



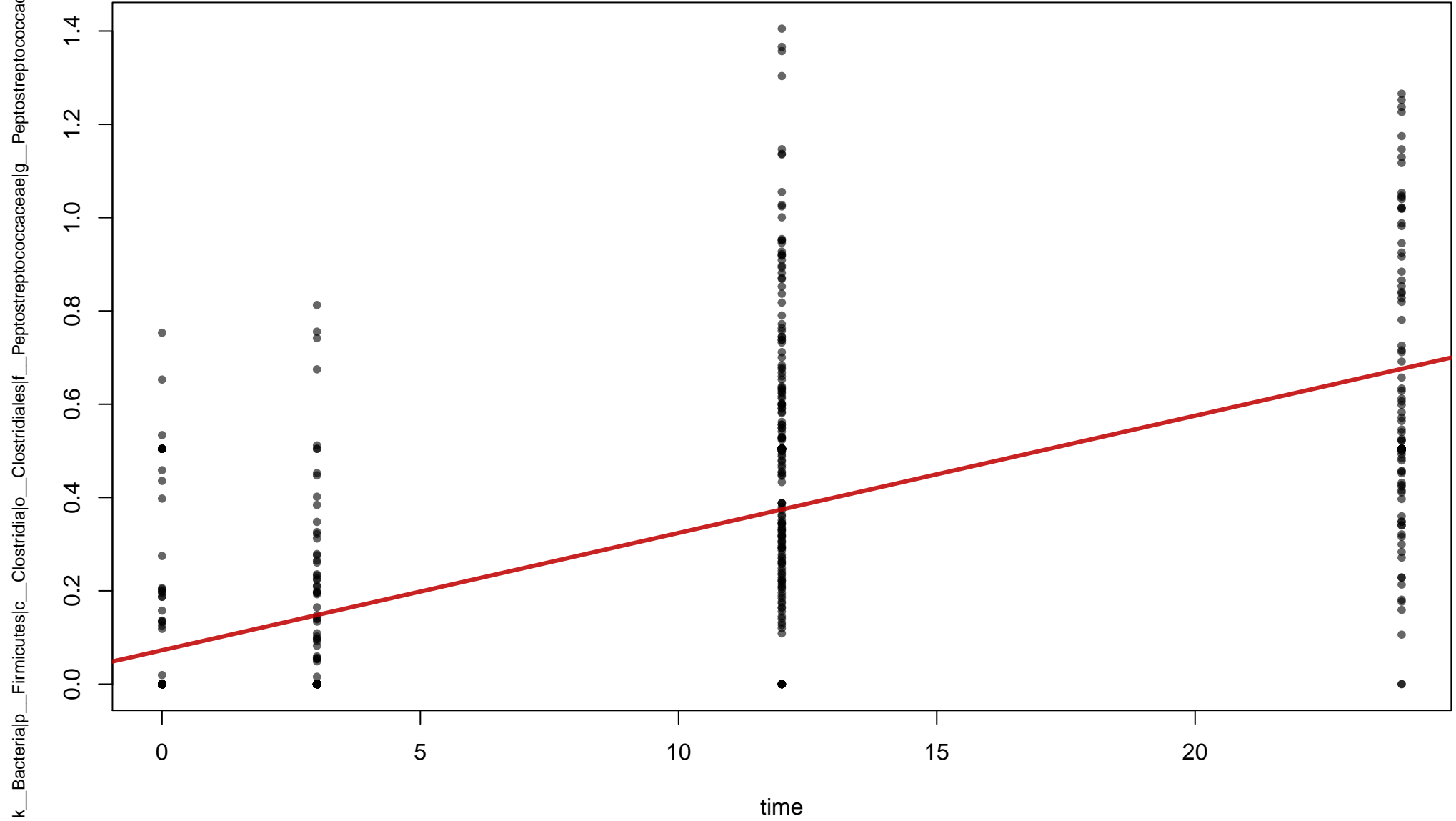
**time (0.026 sd 0.00111, p=9.48e-88, q=2.98e-85)**



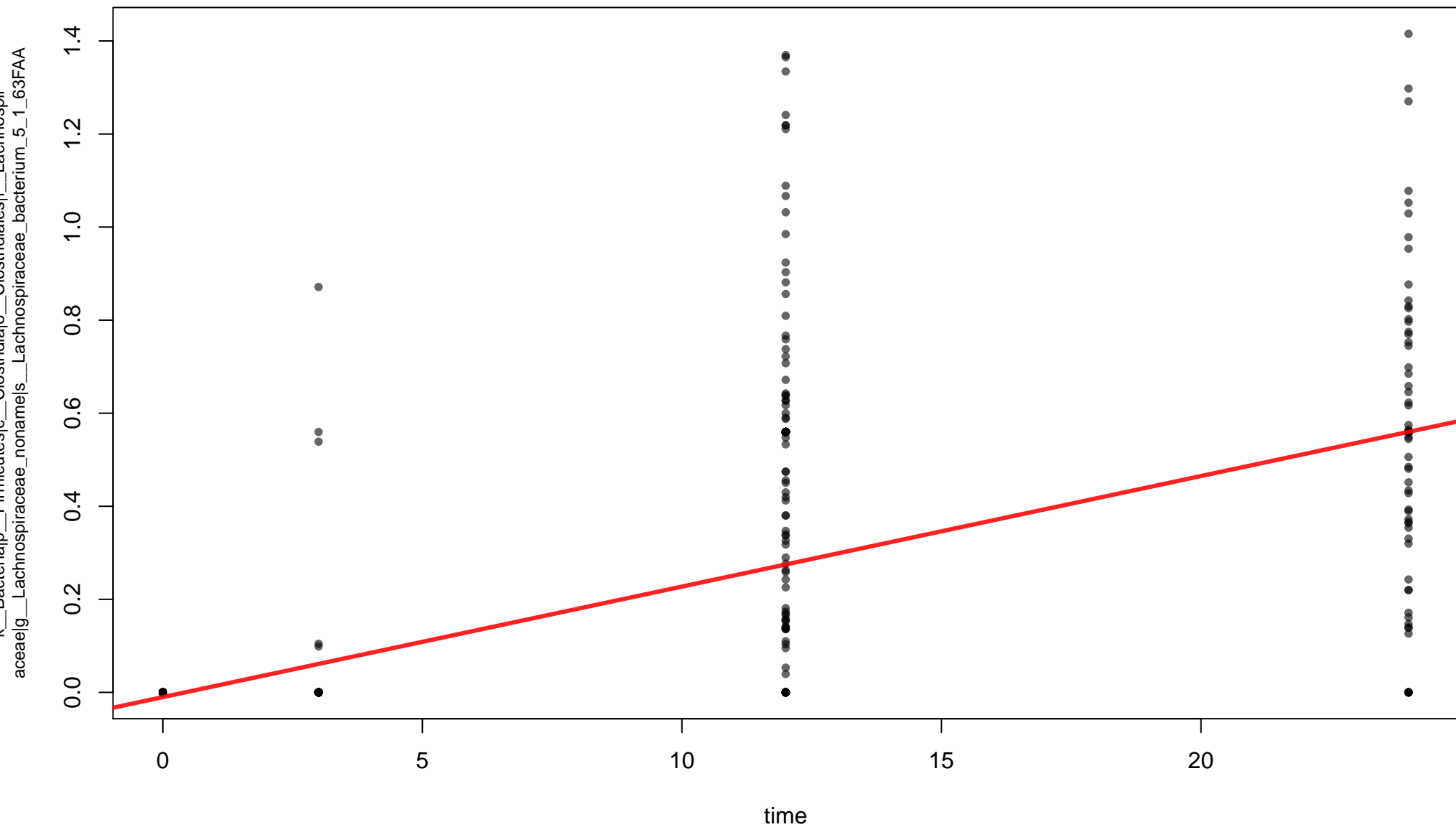
time (0.0226 sd 0.000974, p=9.05e-87, q=2.58e-84)



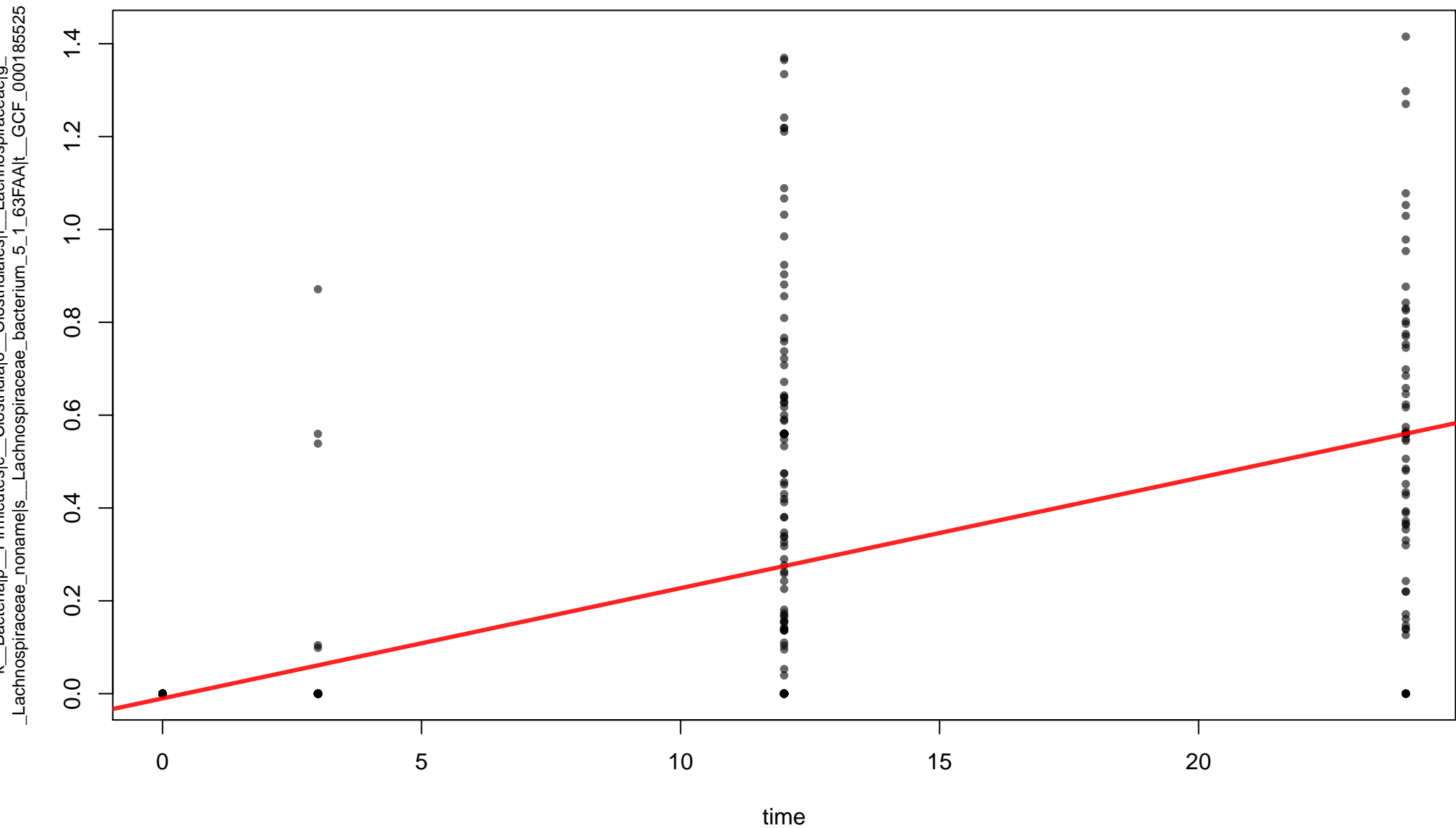
time (0.0251 sd 0.00109, p=5.93e-86, q=1.55e-83)



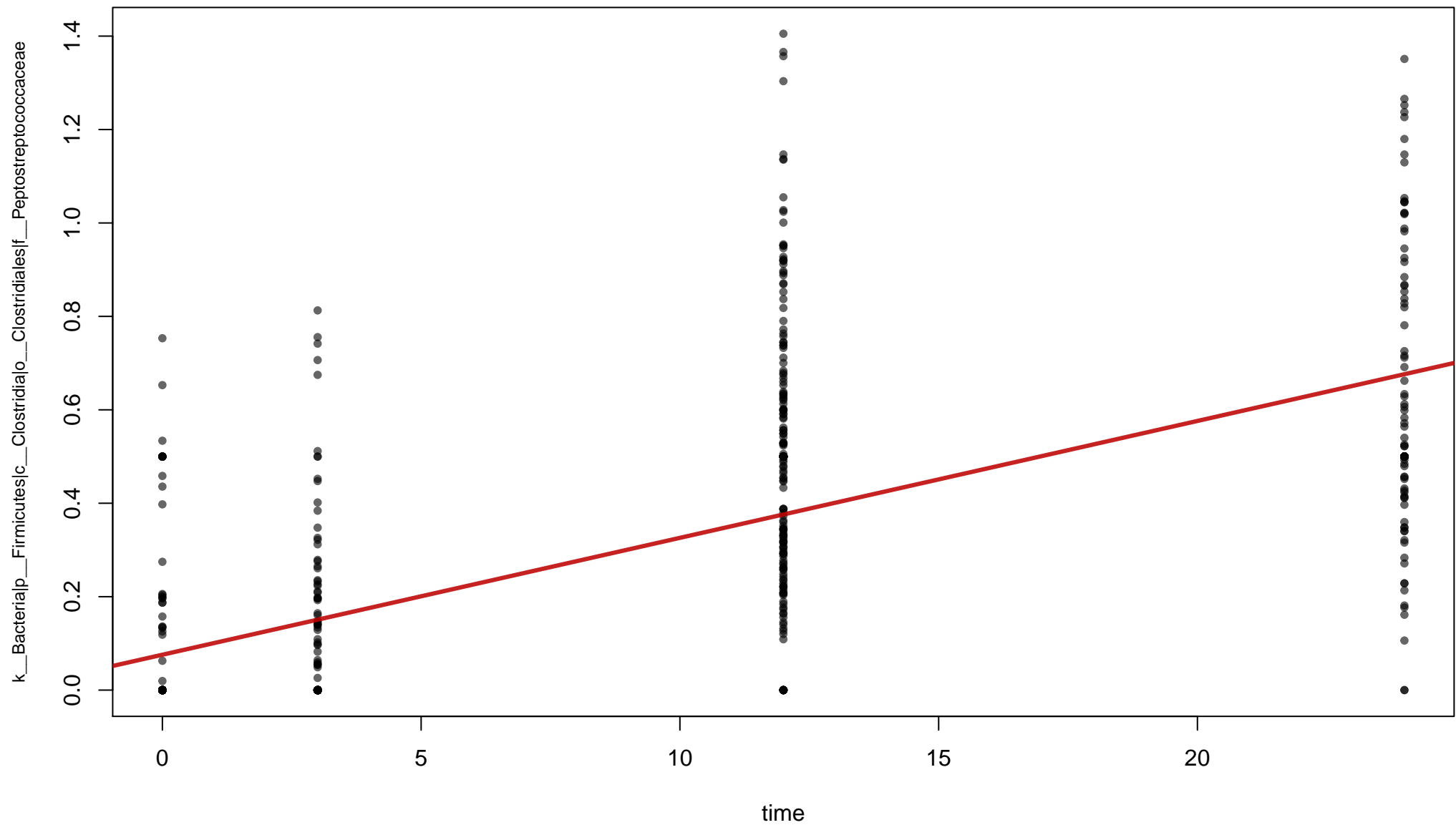
time (0.0238 sd 0.00103, p=1.3e-85, q=2.93e-83)



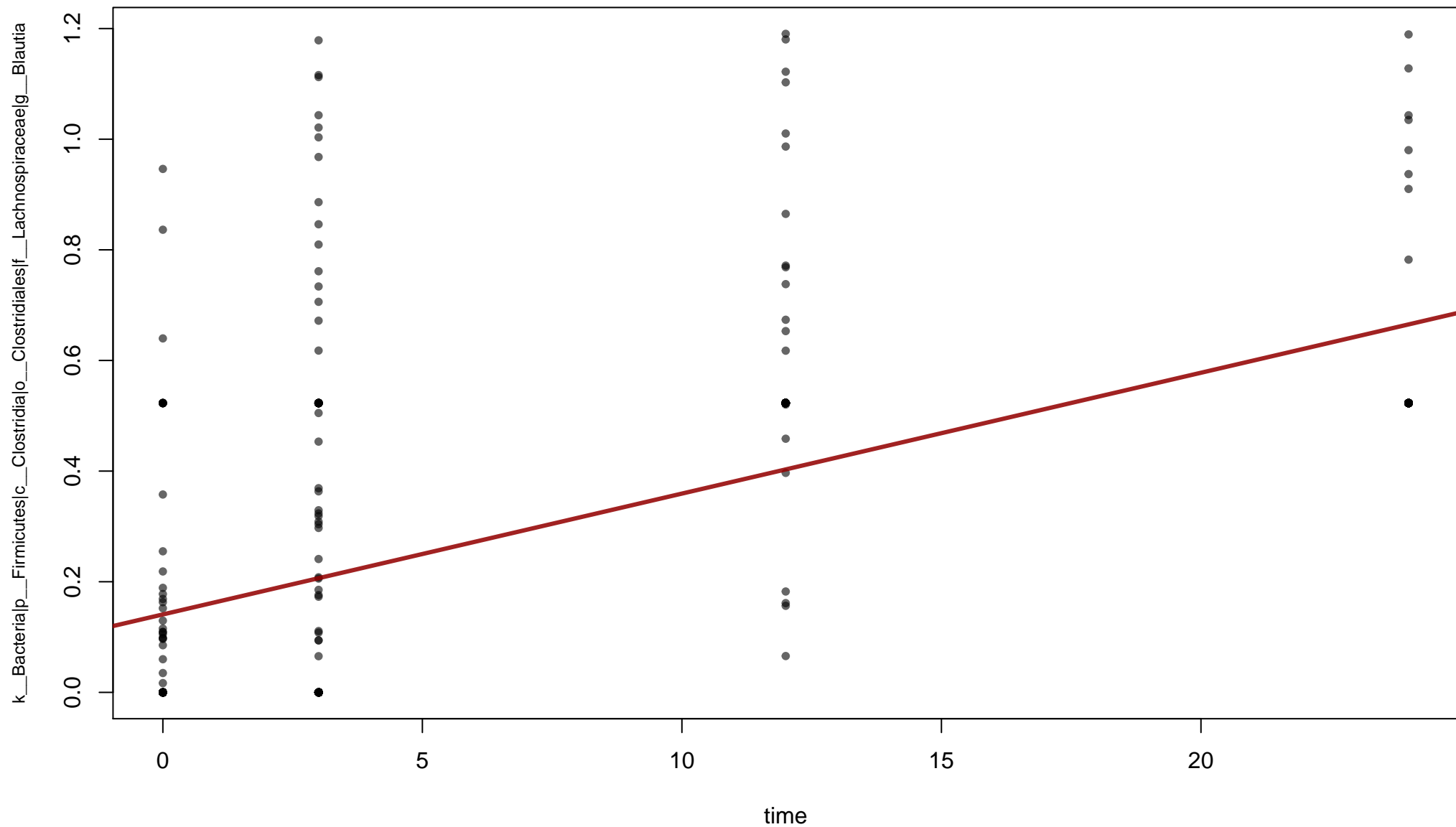
time (0.0238 sd 0.00103, p=1.3e-85, q=2.93e-83)



time (0.025 sd 0.0011, p=1.05e-84, q=2.21e-82)

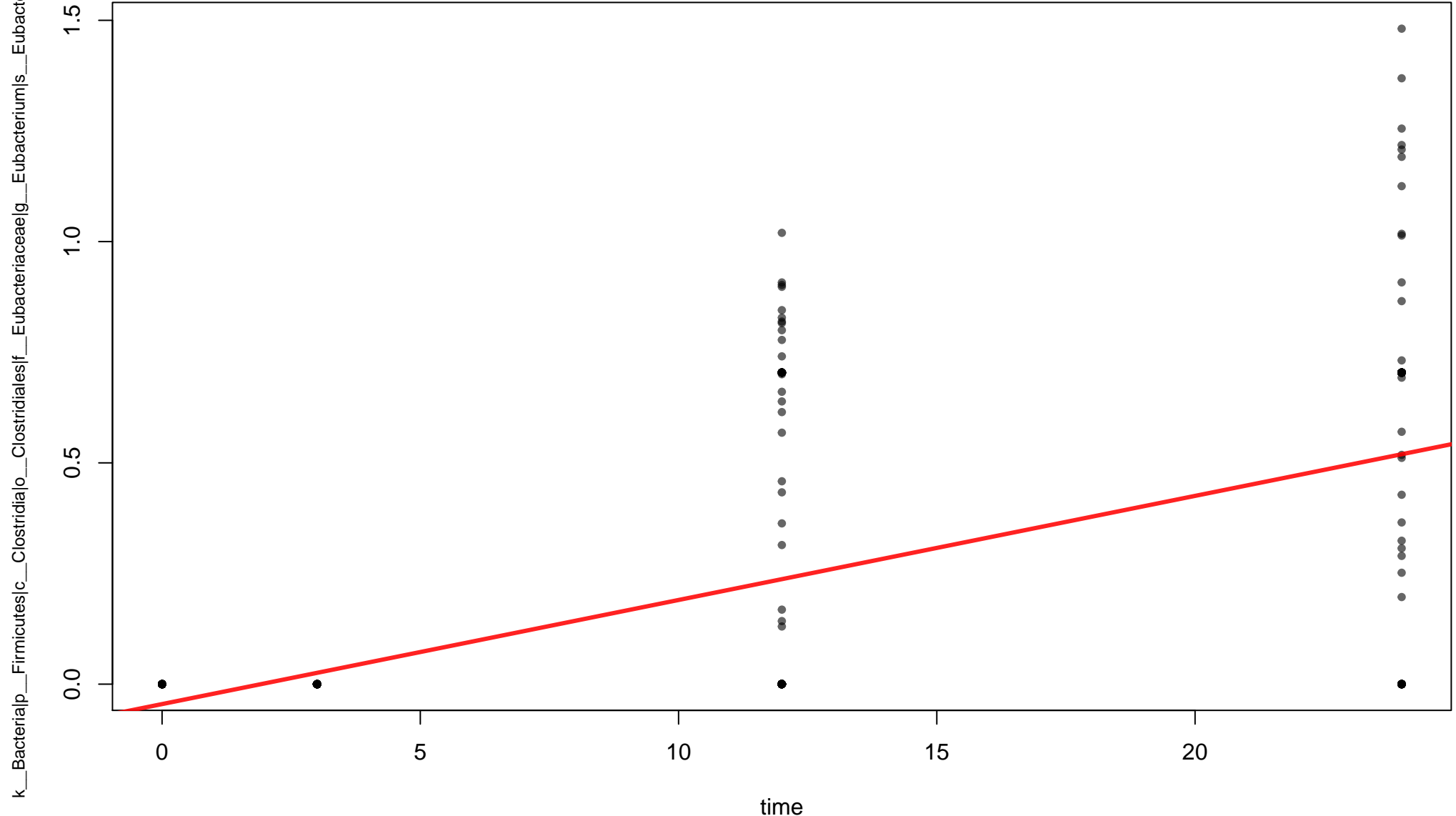


time (0.0219 sd 0.000974, p=4.91e-83, q=9.64e-81)

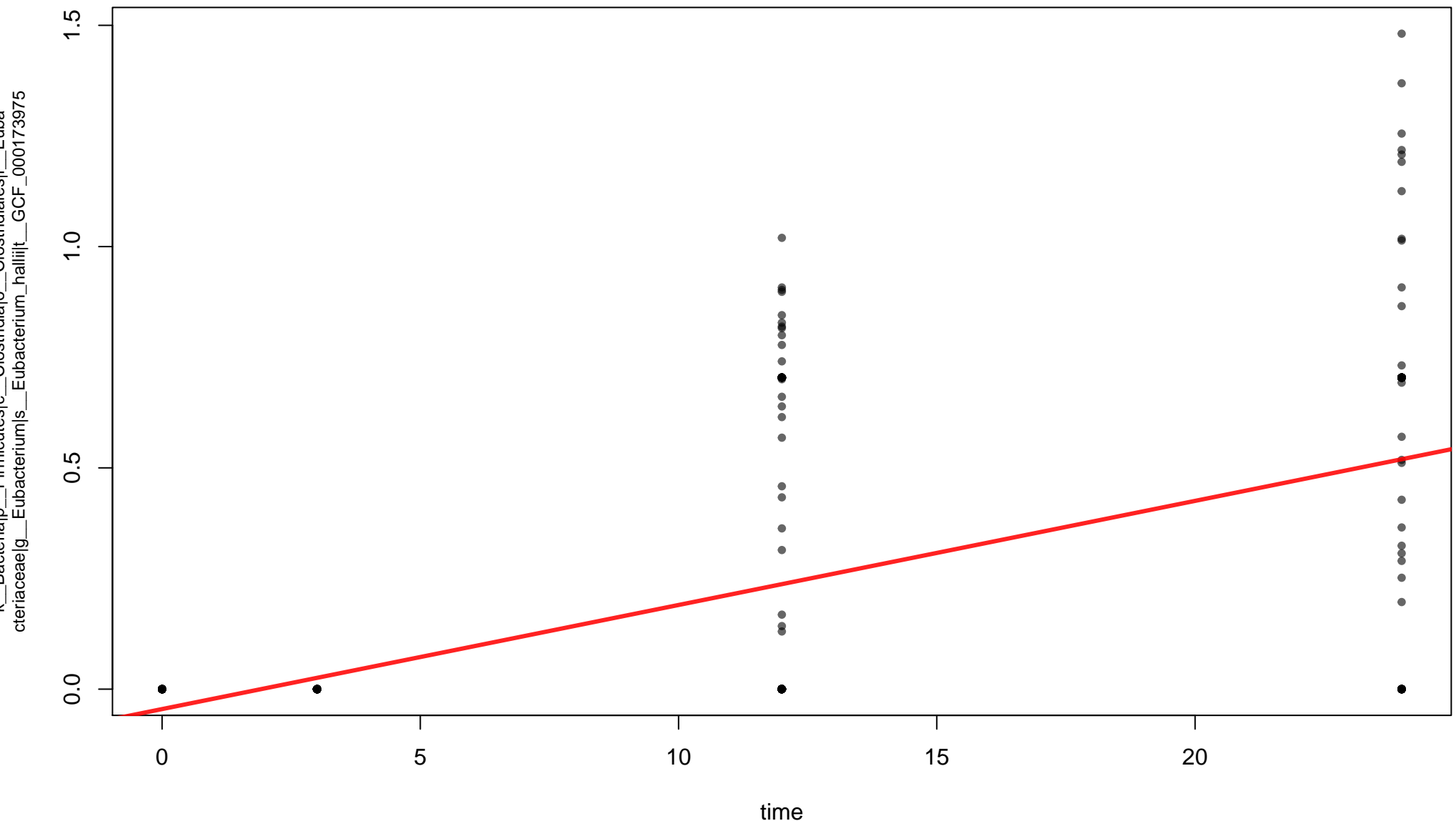




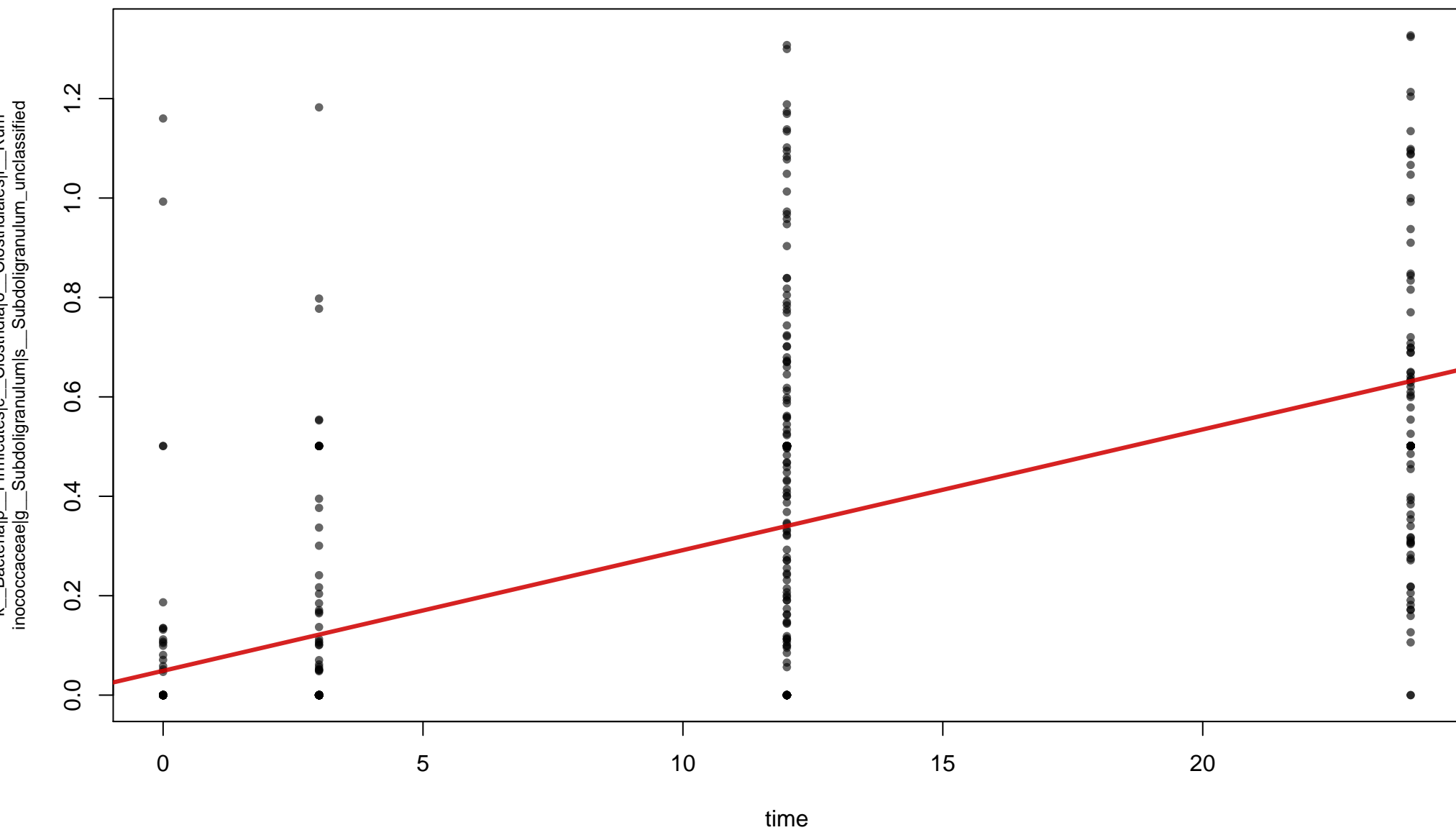
time (0.0235 sd 0.00106, p=1.17e-81, q=2.03e-79)



time (0.0235 sd 0.00106, p=1.17e-81, q=2.03e-79)

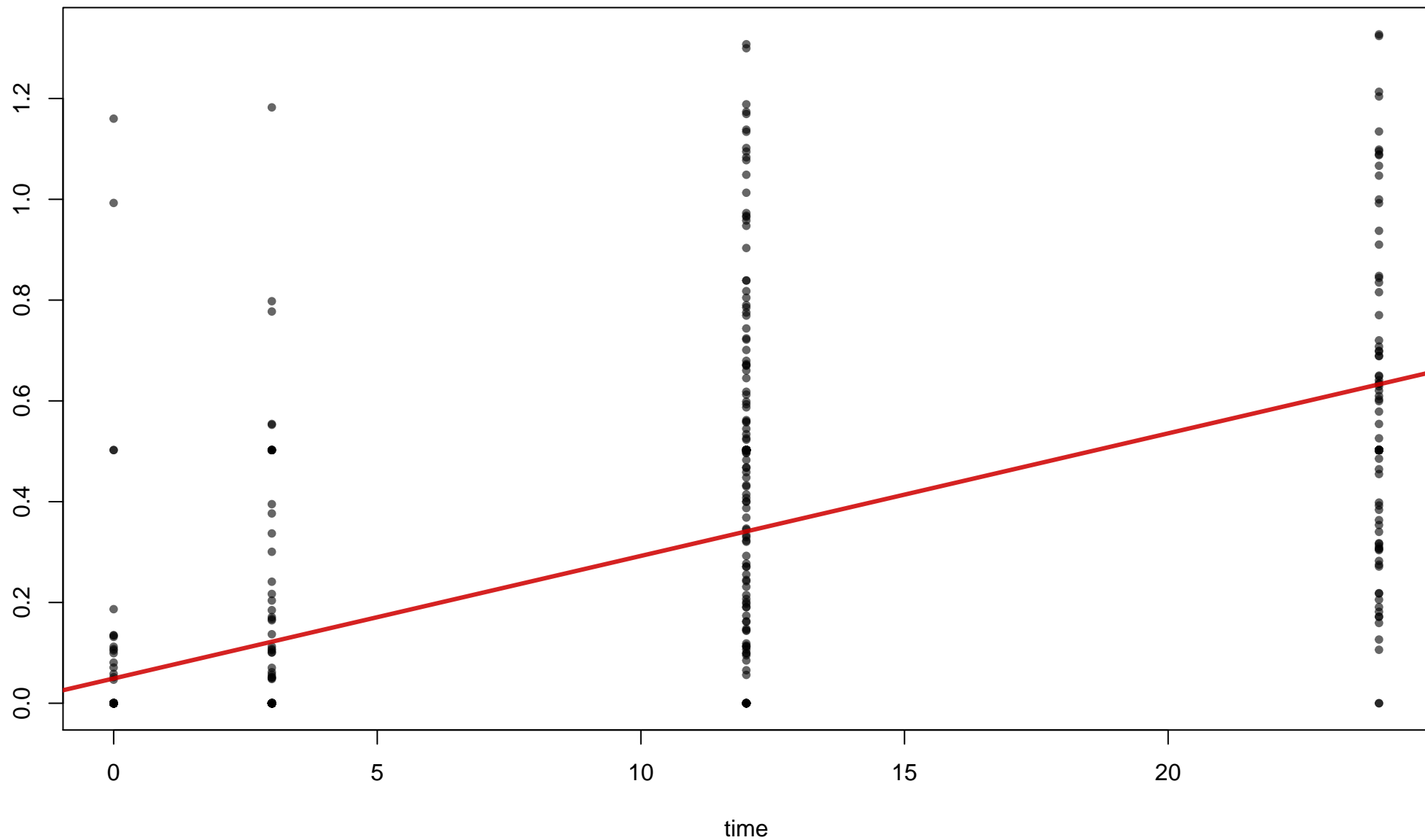


time (0.0243 sd 0.00109, p=1.98e-81, q=3.27e-79)

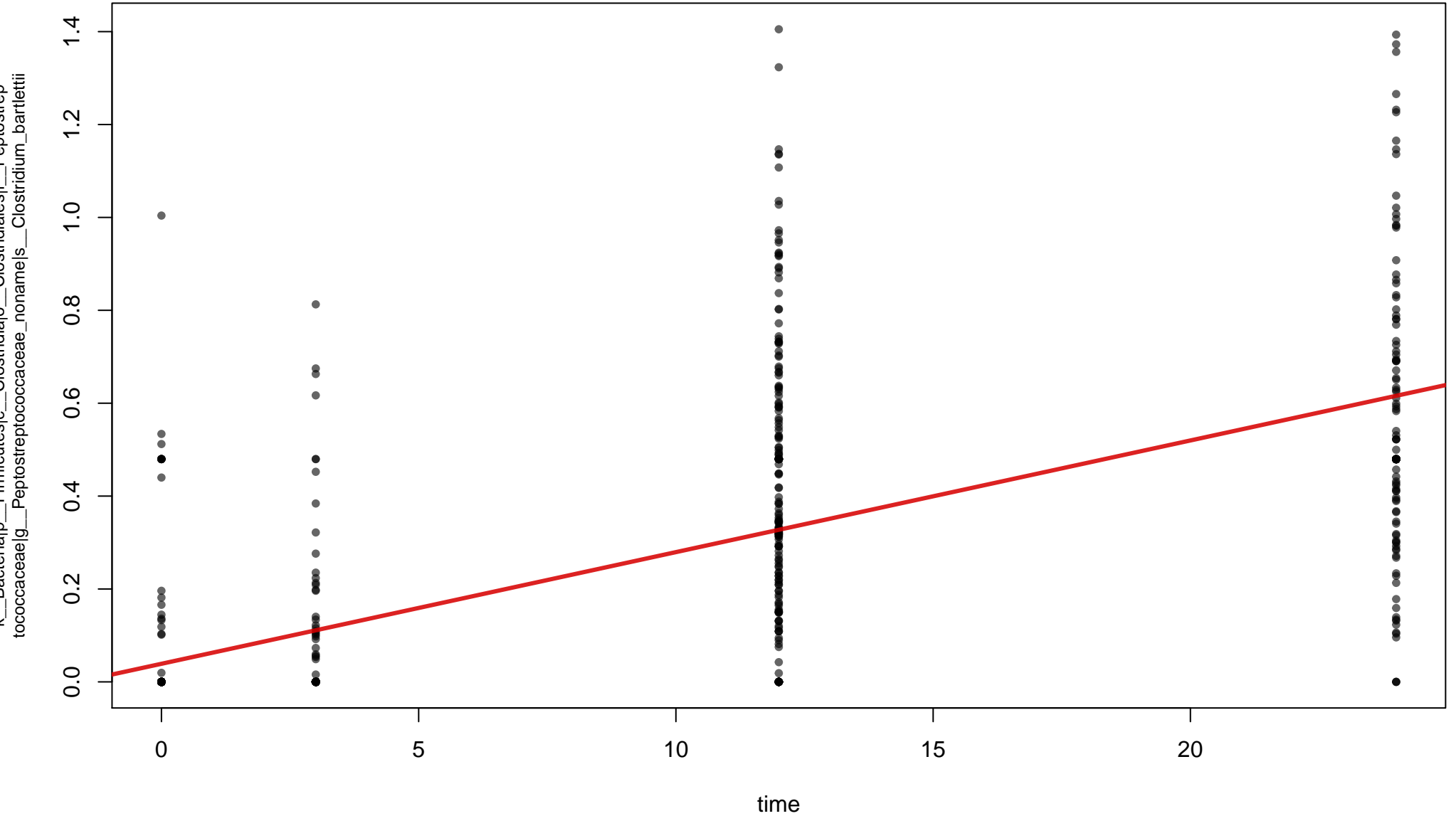


time (0.0243 sd 0.0011, p=3.48e-81, q=5.46e-79)

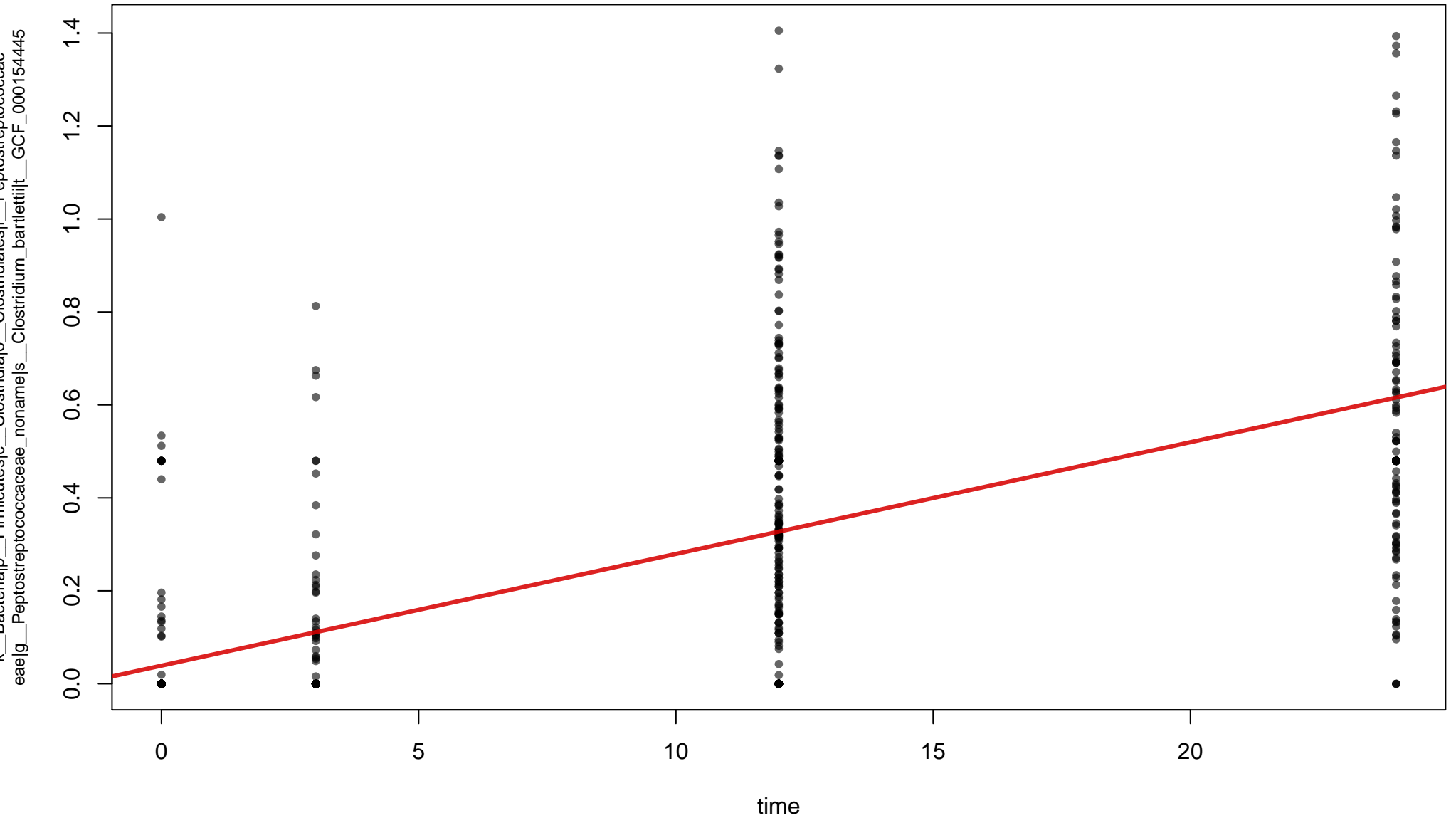
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Clostridia|o\_\_Clostridiales|f\_\_Ruminococcaceae|g\_\_Subdoligranulum



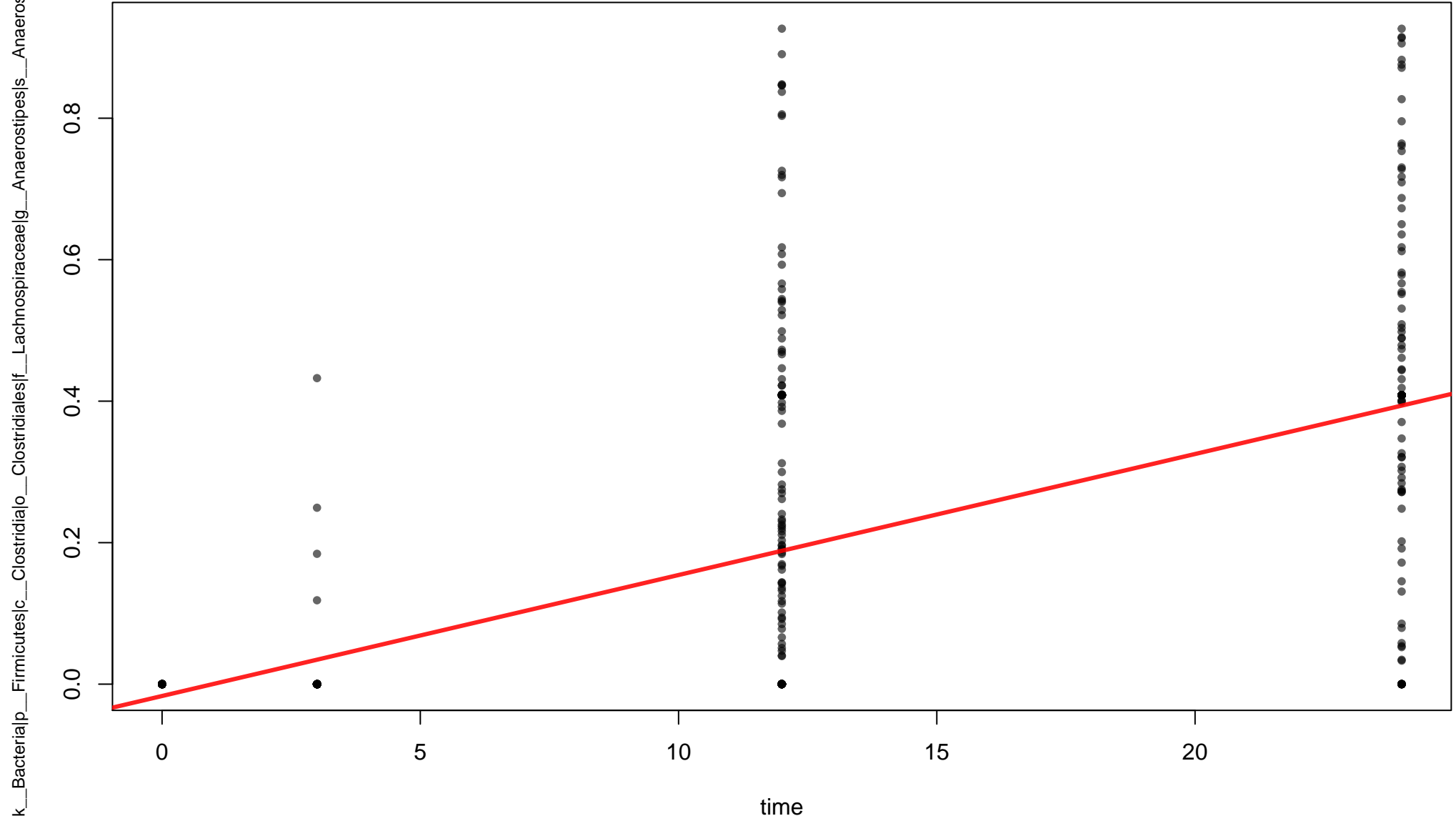
**time (0.024 sd 0.00109, p=1.14e-80, q=1.63e-78)**



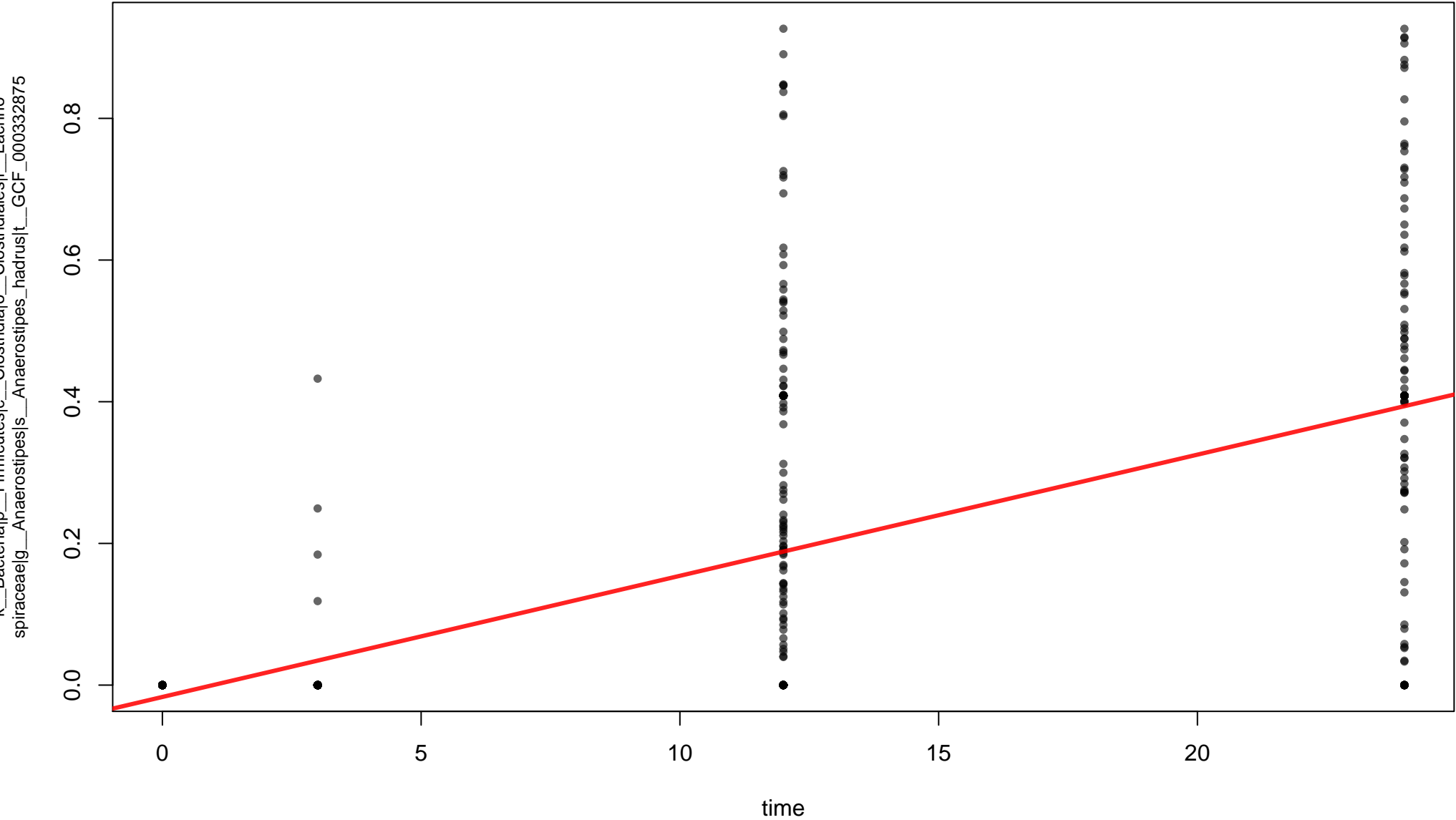
time (0.024 sd 0.00109, p=1.14e-80, q=1.63e-78)



time (0.0171 sd 0.00078, p=5.47e-80, q=7.16e-78)

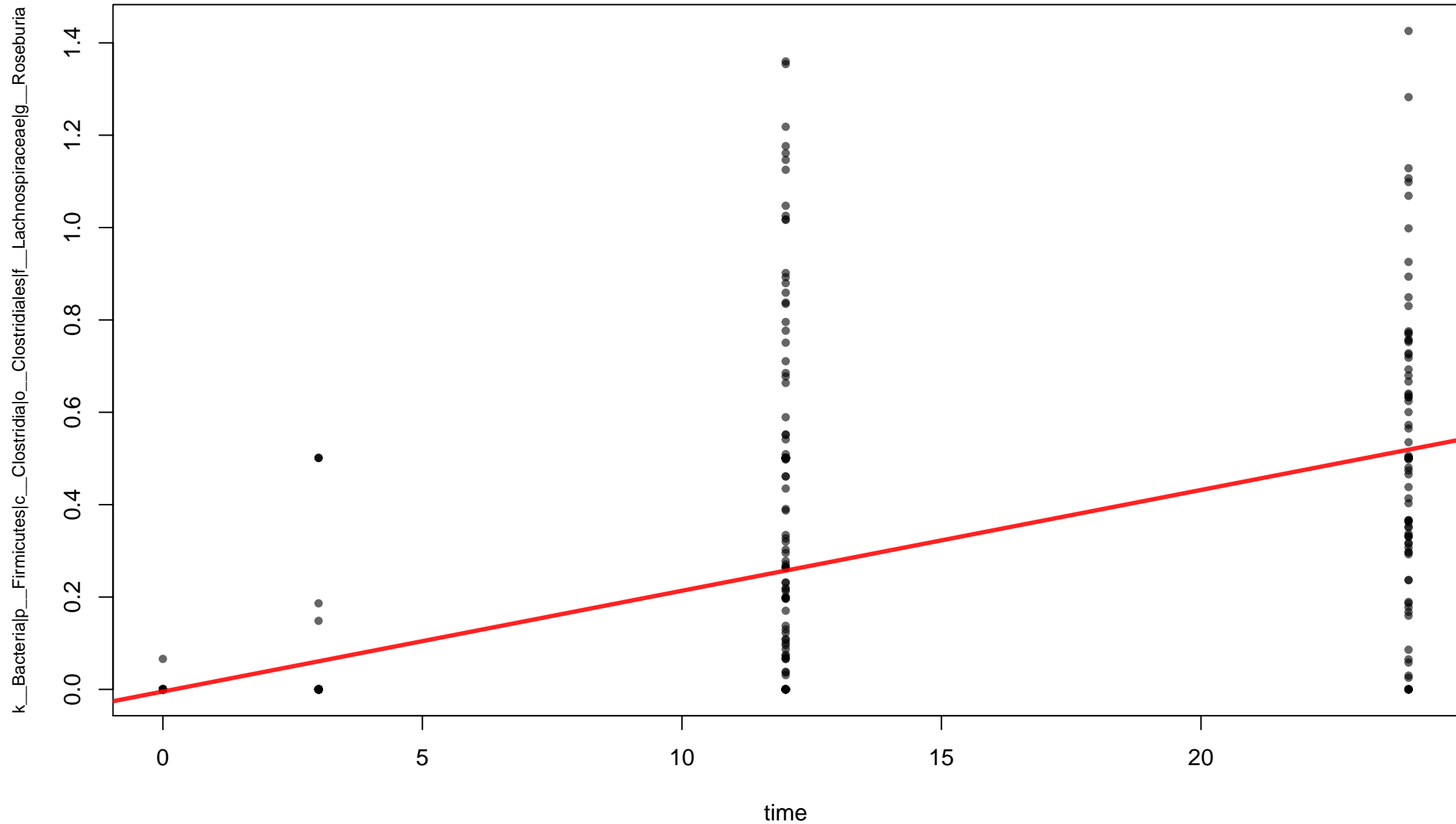


time (0.0171 sd 0.00078, p=5.47e-80, q=7.16e-78)



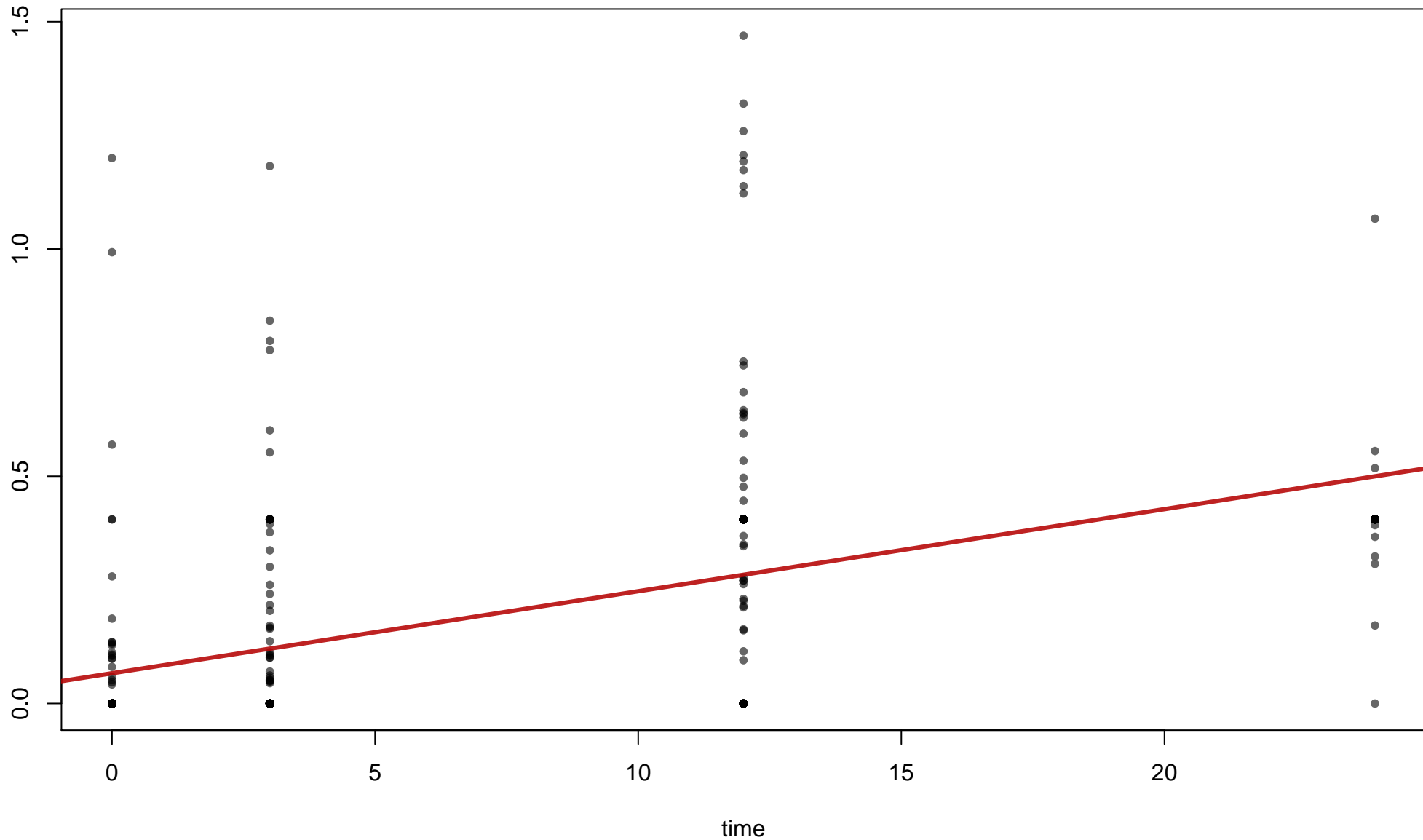


time (0.0218 sd 0.00101, p=4.91e-78, q=6.17e-76)

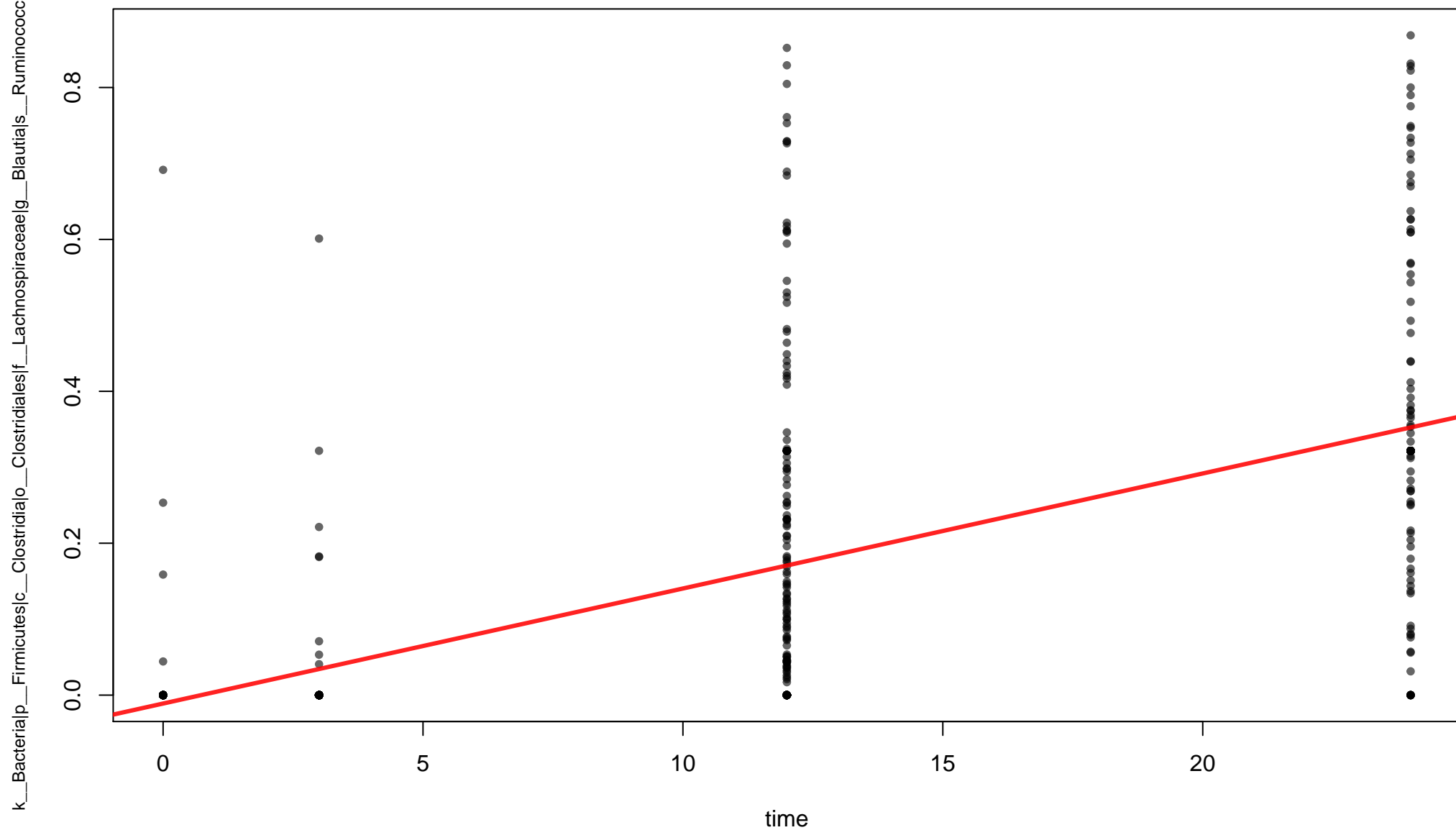


k\_\_Bacteria|p\_\_Firmicutes|c\_\_Clostridia|o\_\_Clostridiales|f\_\_Ruminococaceae

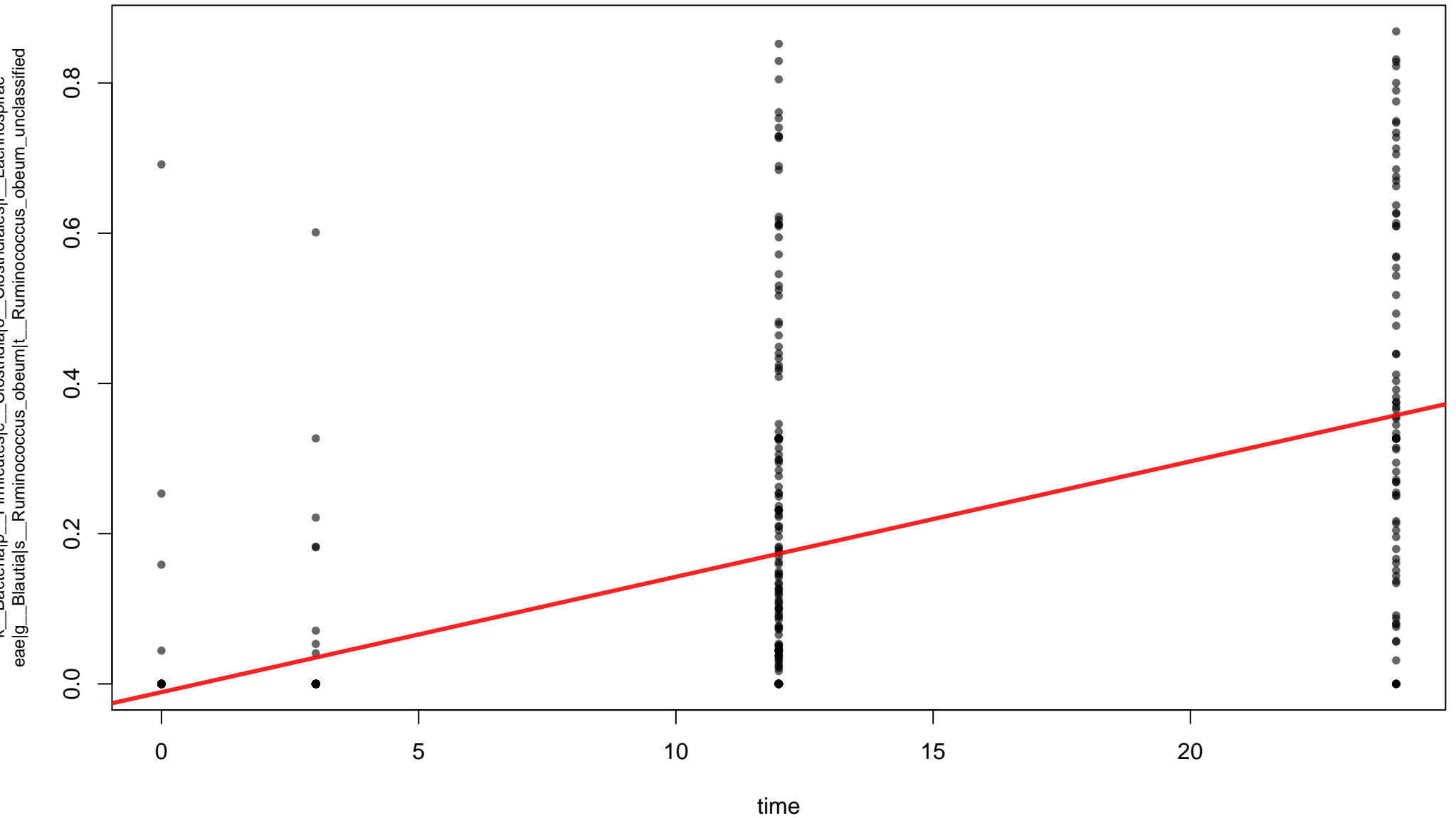
time (0.0181 sd 0.000849, p=1.47e-76, q=1.77e-74)



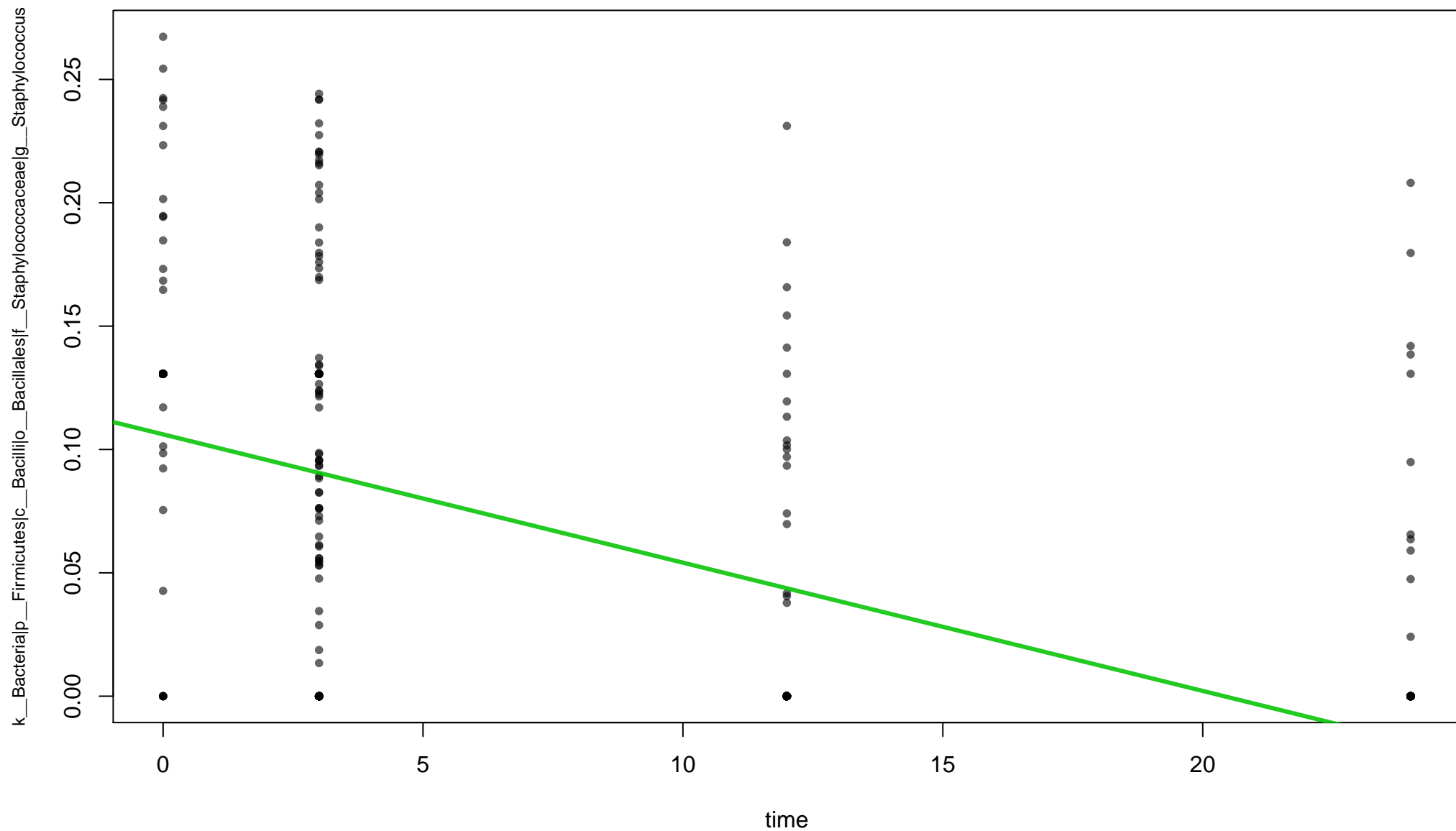
time (0.0151 sd 0.000712, p=1.75e-76, q=2.04e-74)



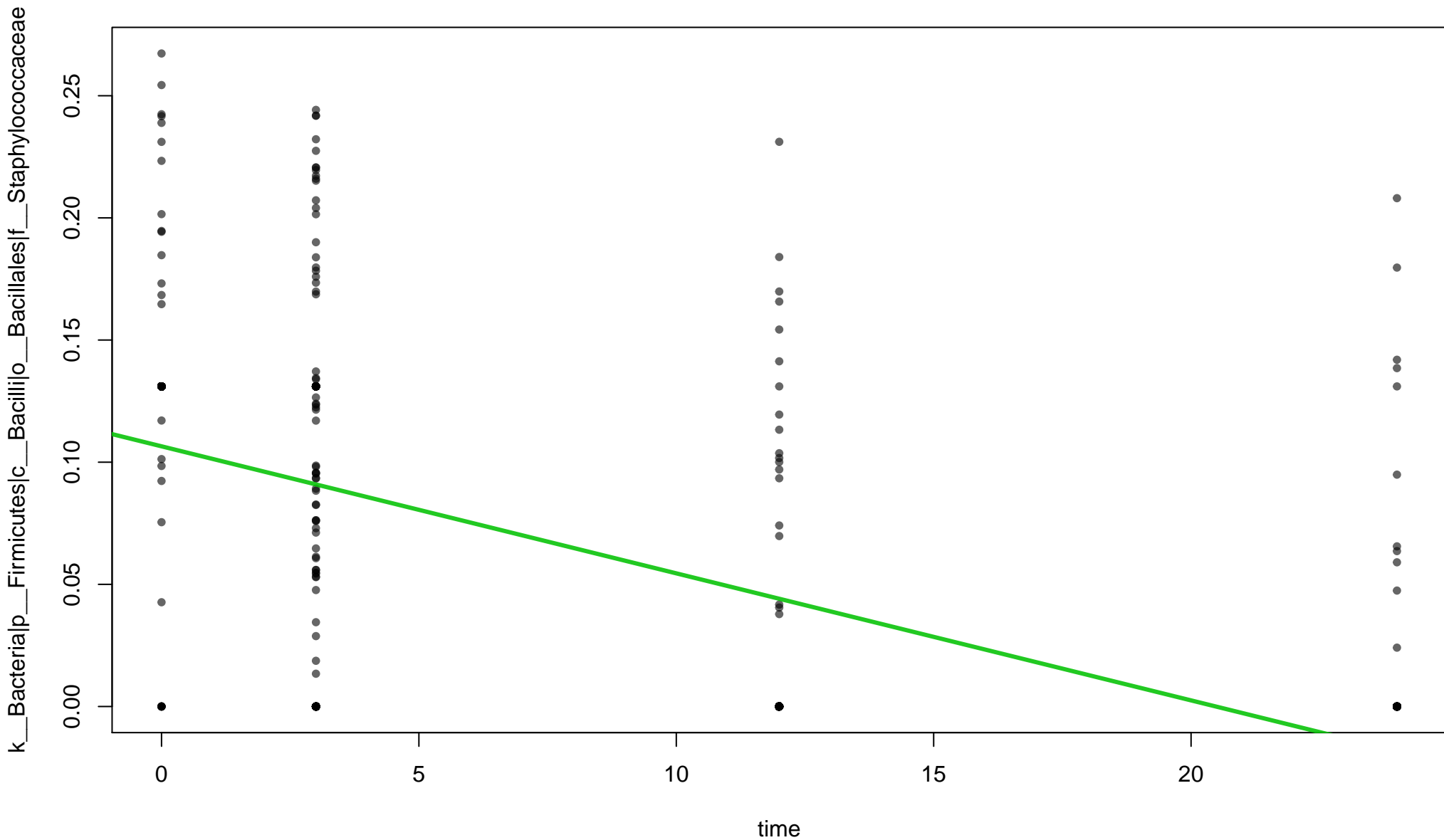
**time (0.0154 sd 0.000724, p=3.73e-76, q=4.19e-74)**



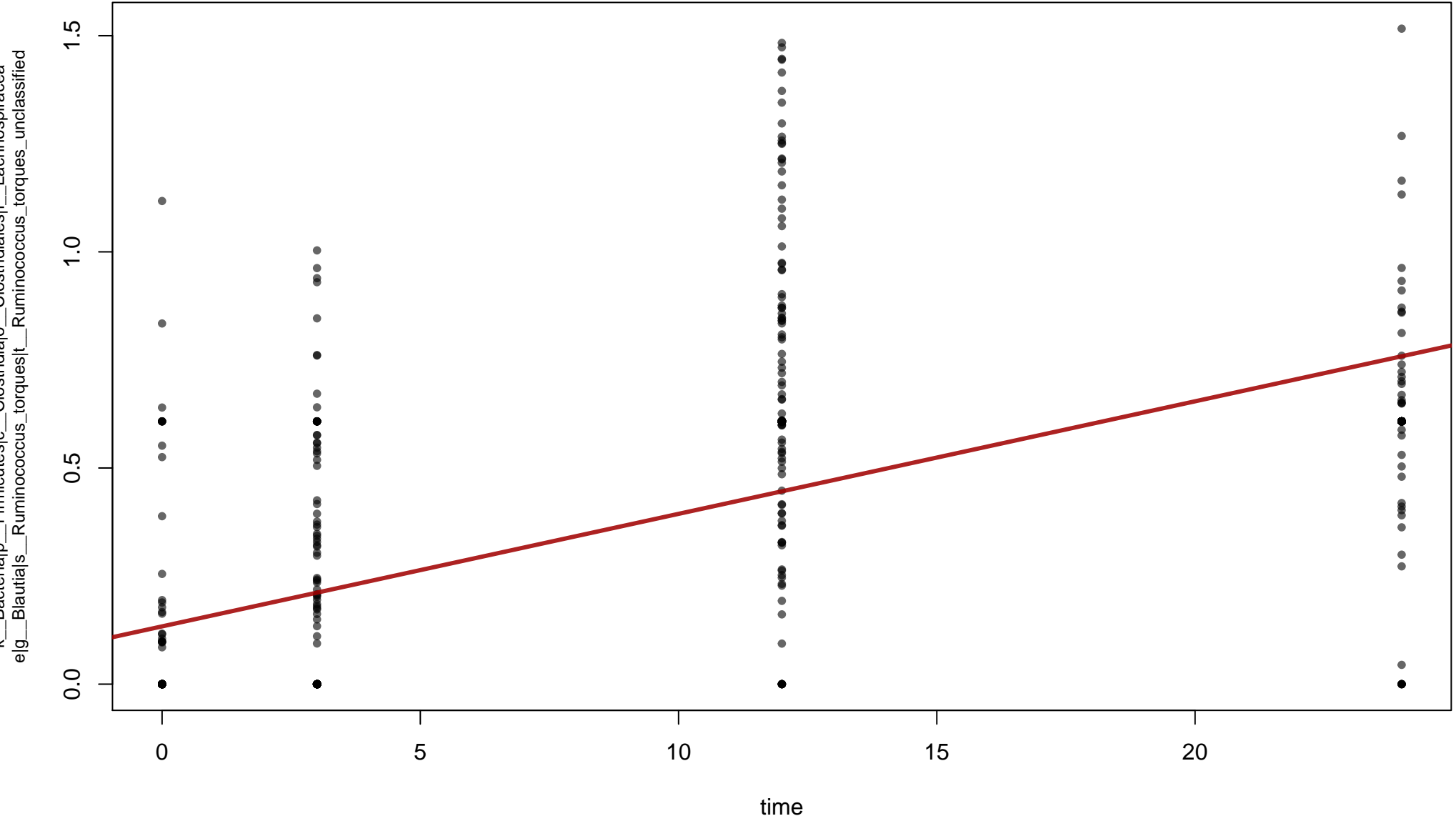
time ( $-0.0052$  sd  $0.000247$ ,  $p=2.12e-75$ ,  $q=2.3e-73$ )



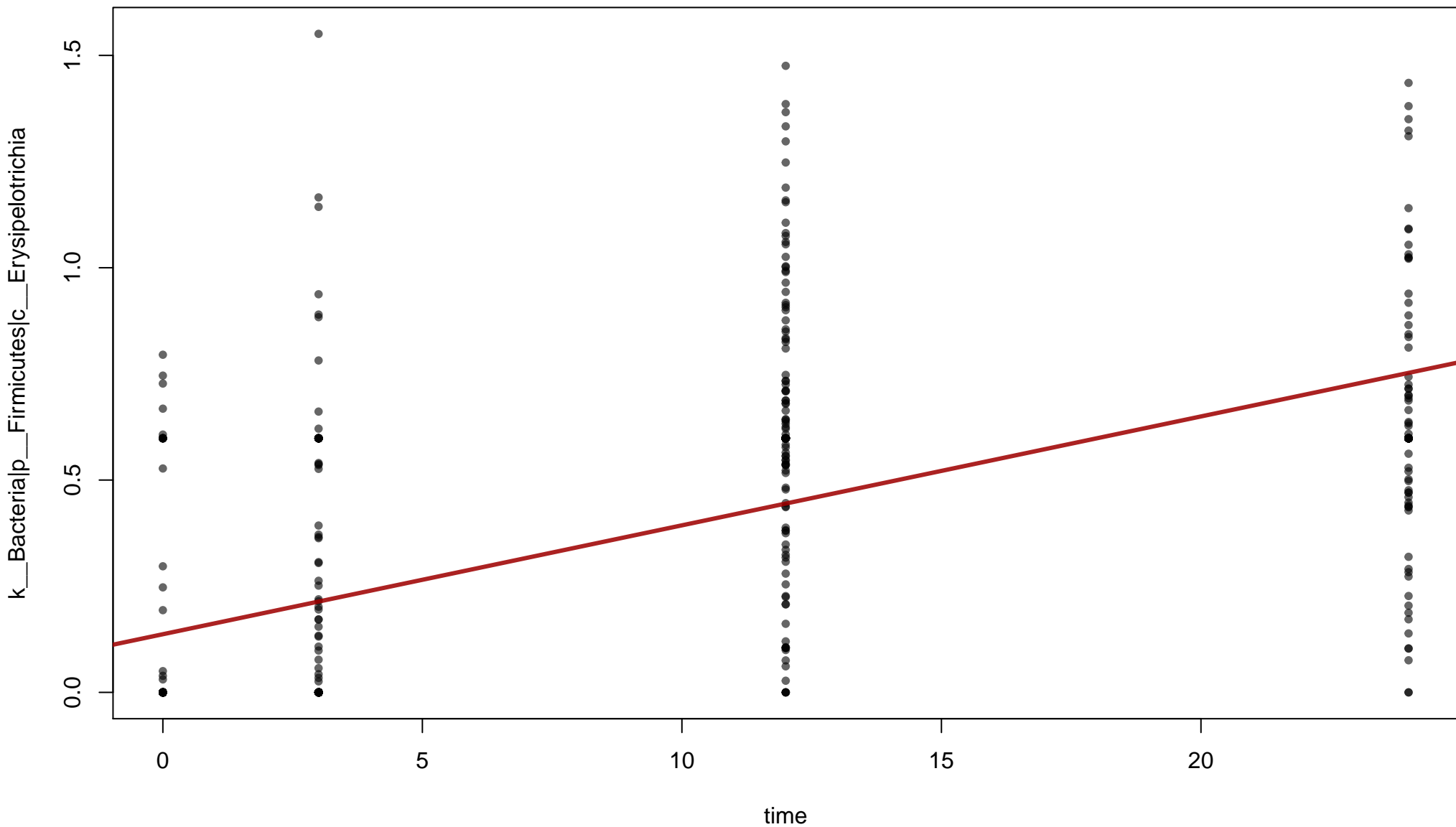
time ( $-0.0052$  sd  $0.000248$ ,  $p=1.06e-74$ ,  $q=1.11e-72$ )



time (0.0261 sd 0.00125, p=2.31e-74, q=2.34e-72)

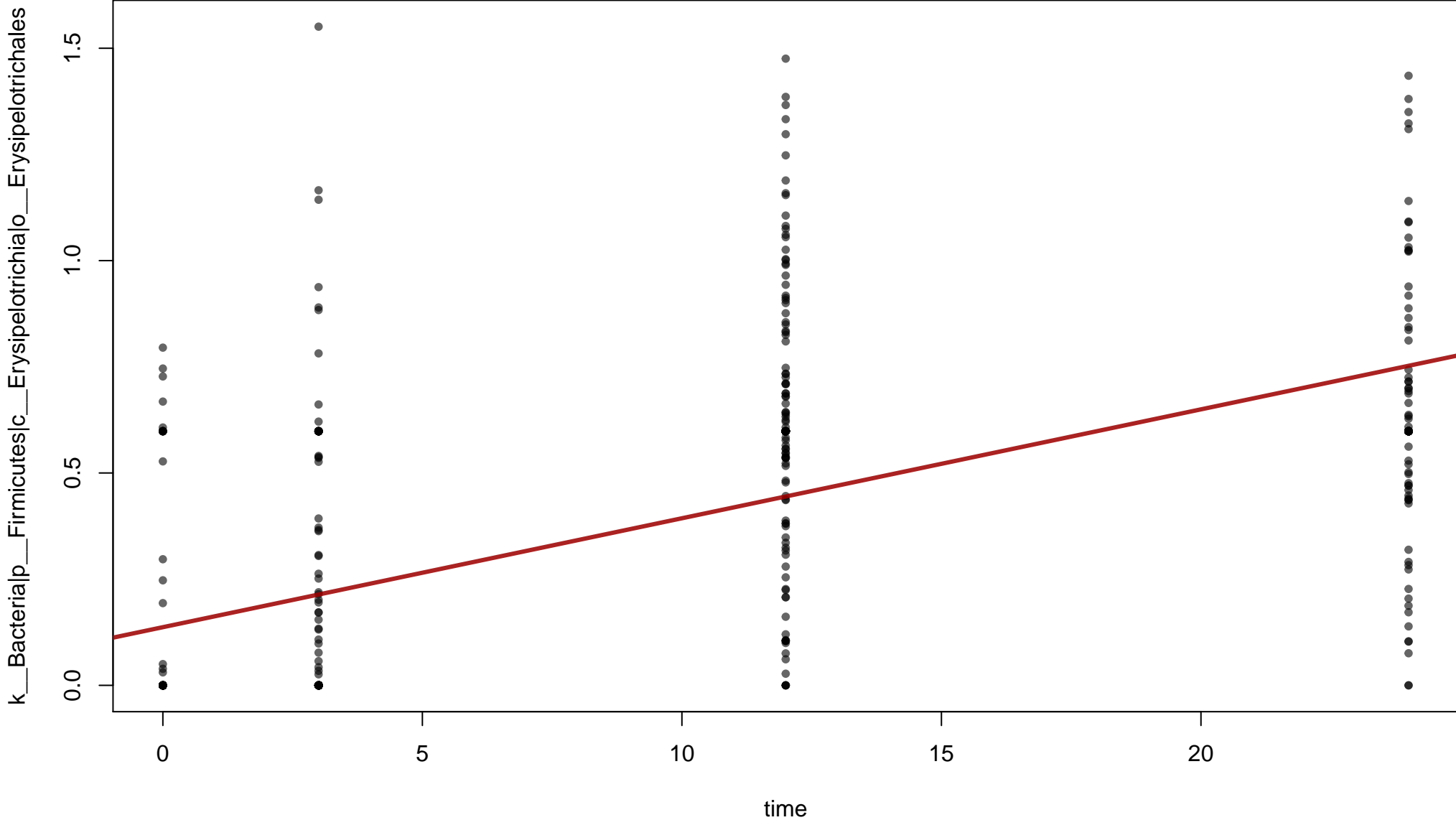


time (0.0257 sd 0.00125, p=2.4e-72, q=2.21e-70)

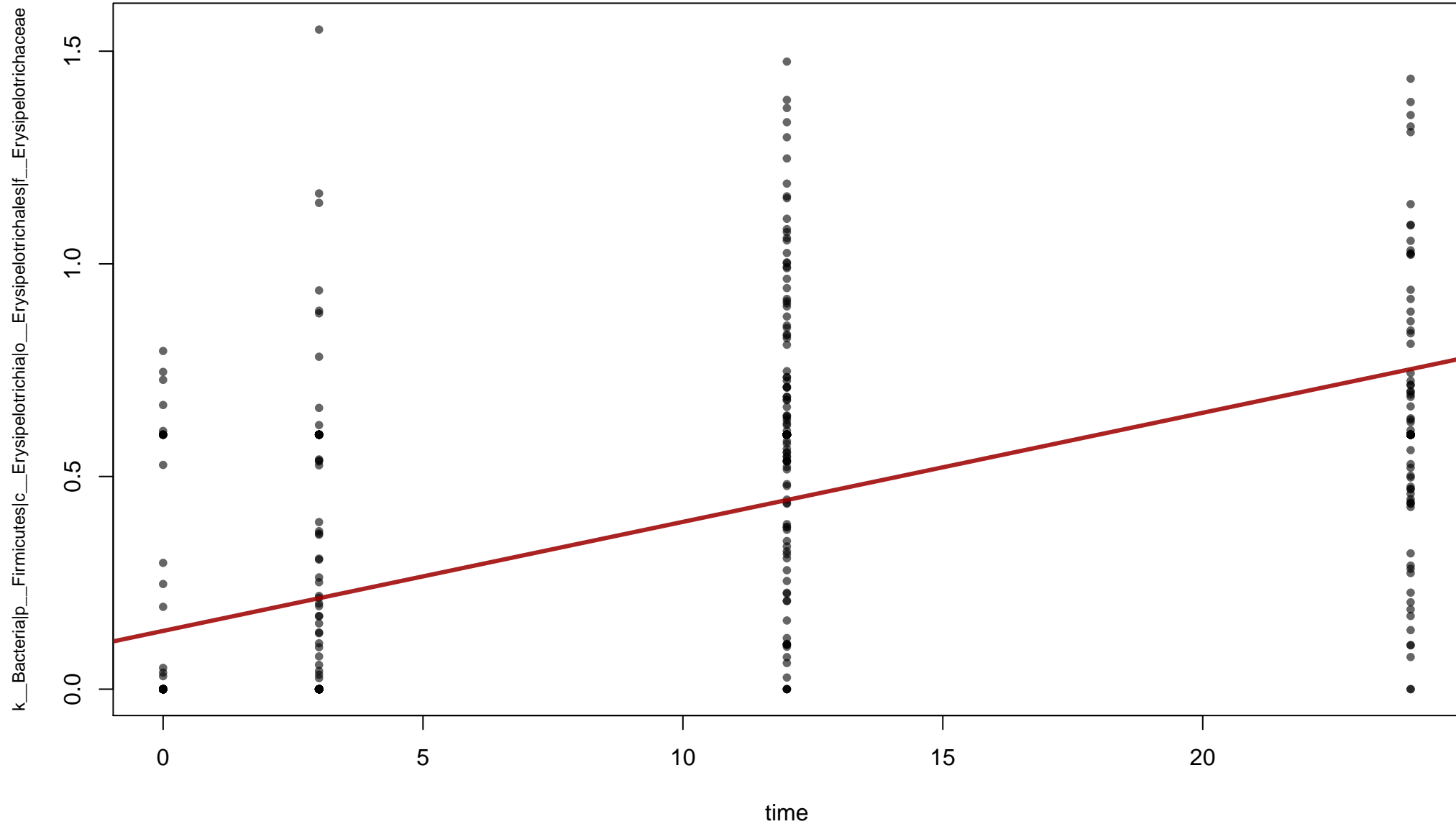




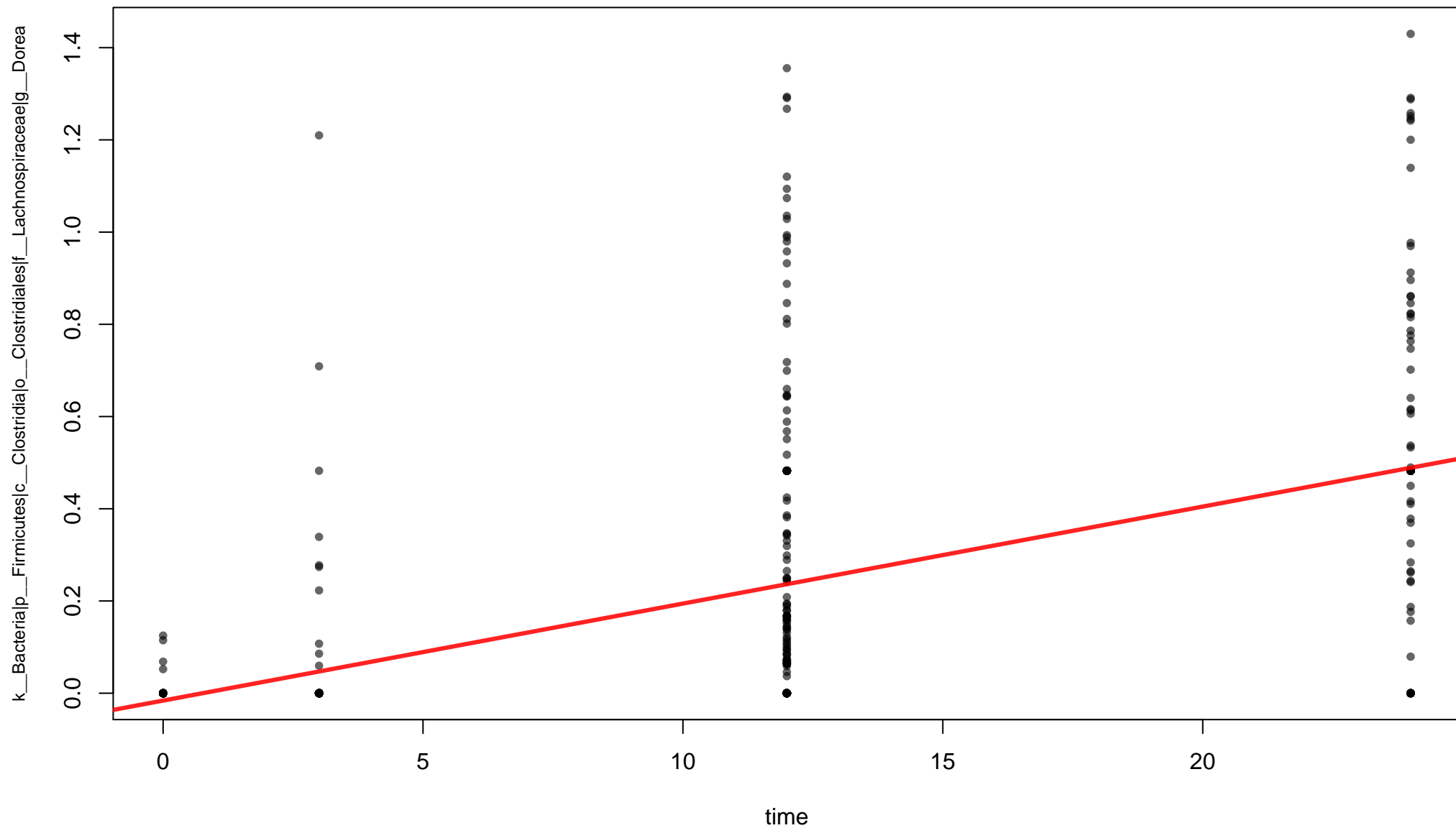
time (0.0257 sd 0.00125, p=2.4e-72, q=2.21e-70)



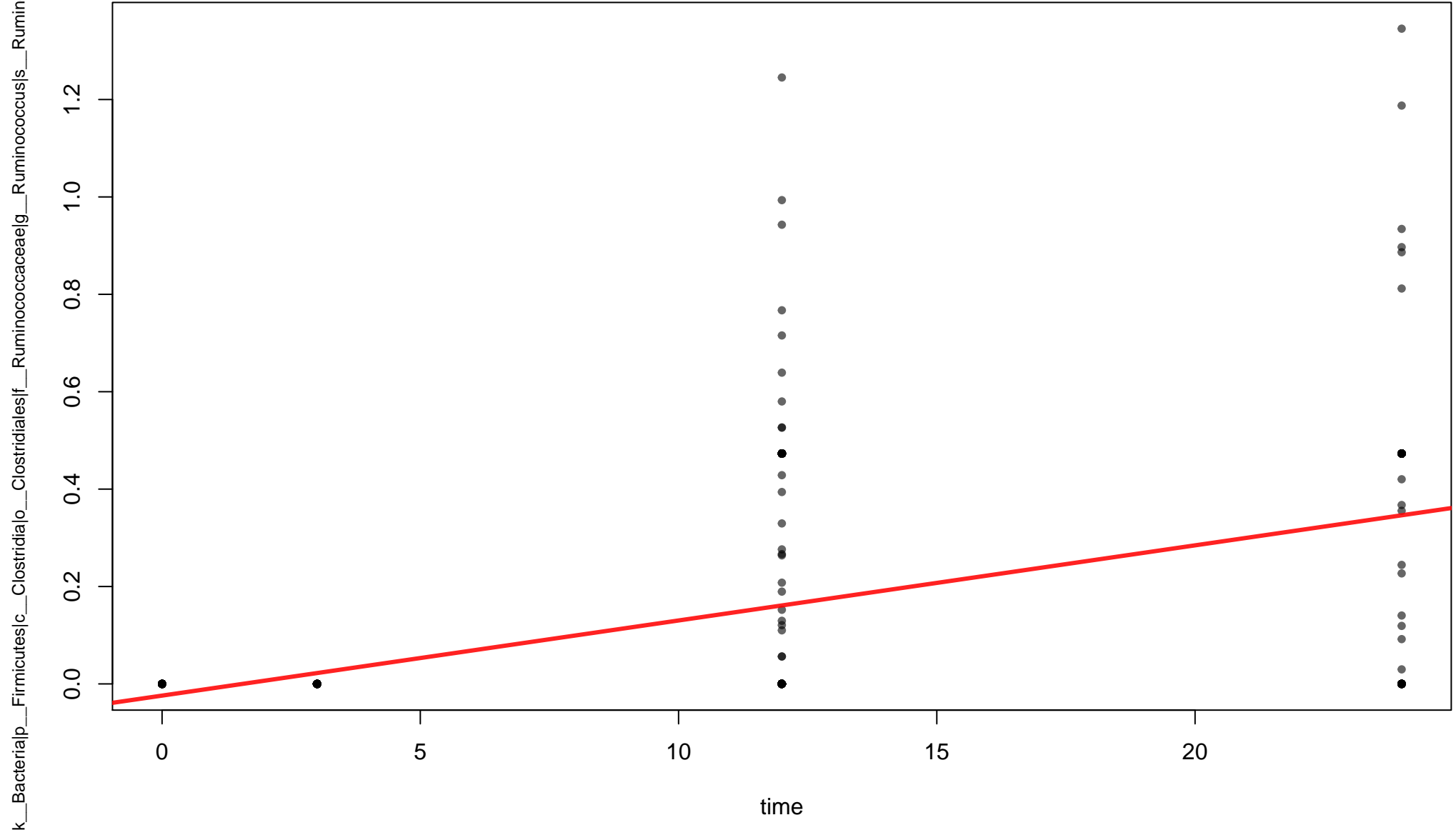
time (0.0257 sd 0.00125, p=2.4e-72, q=2.21e-70)



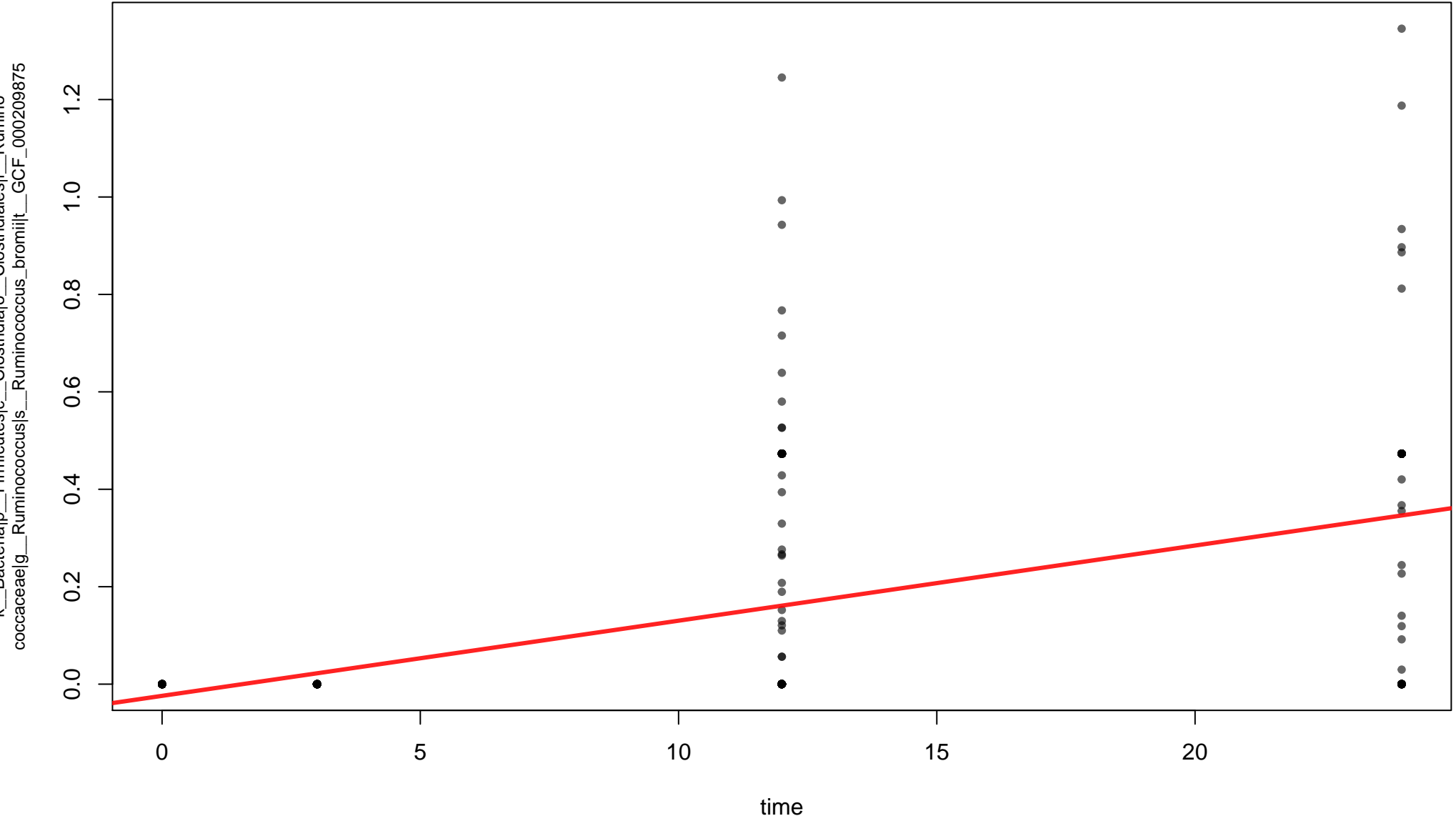
time (0.021 sd 0.00107,  $p=5.53e-68$ ,  $q=4.96e-66$ )



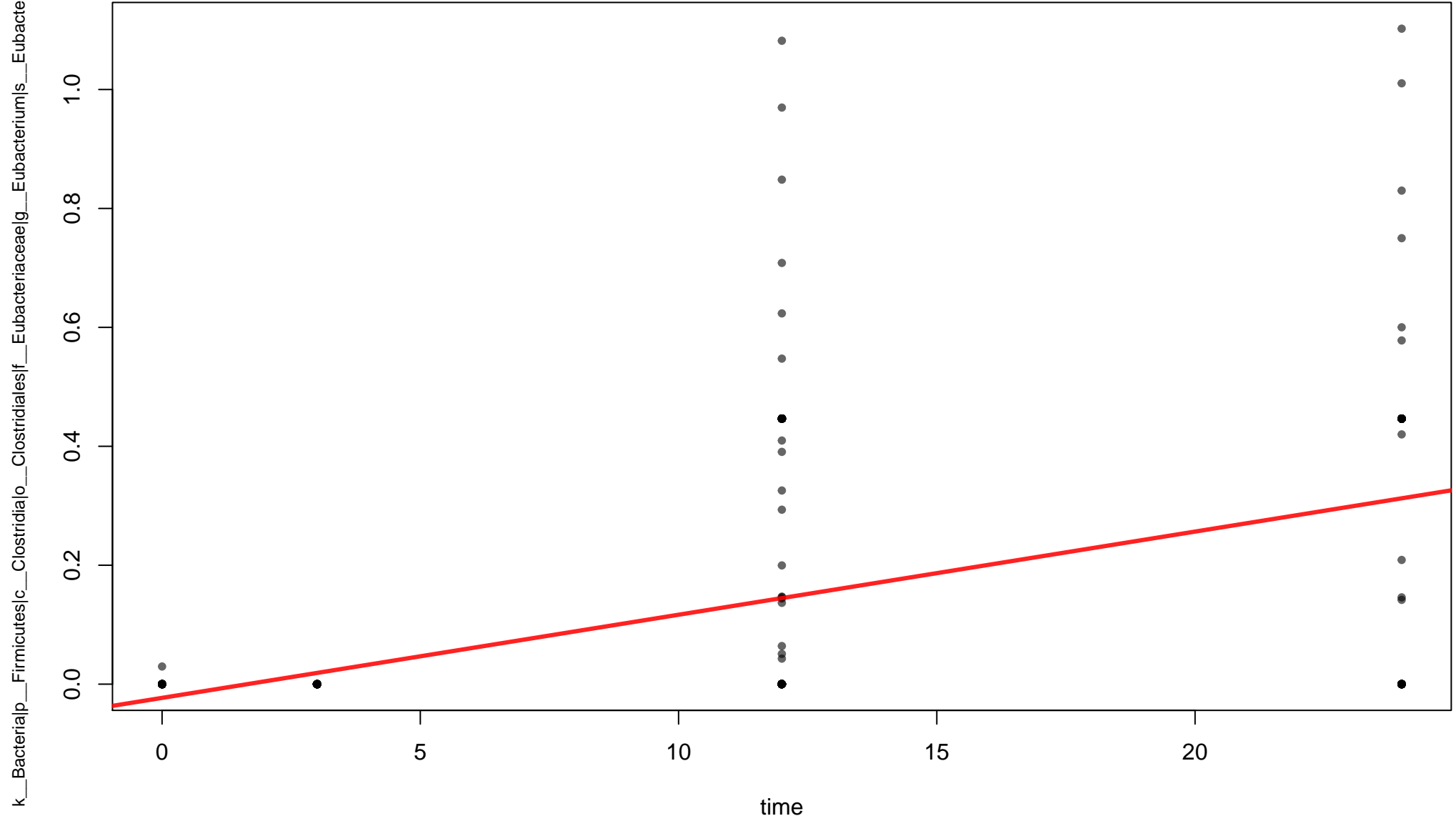
time (0.0154 sd 0.00079, p=4.71e-67, q=4e-65)



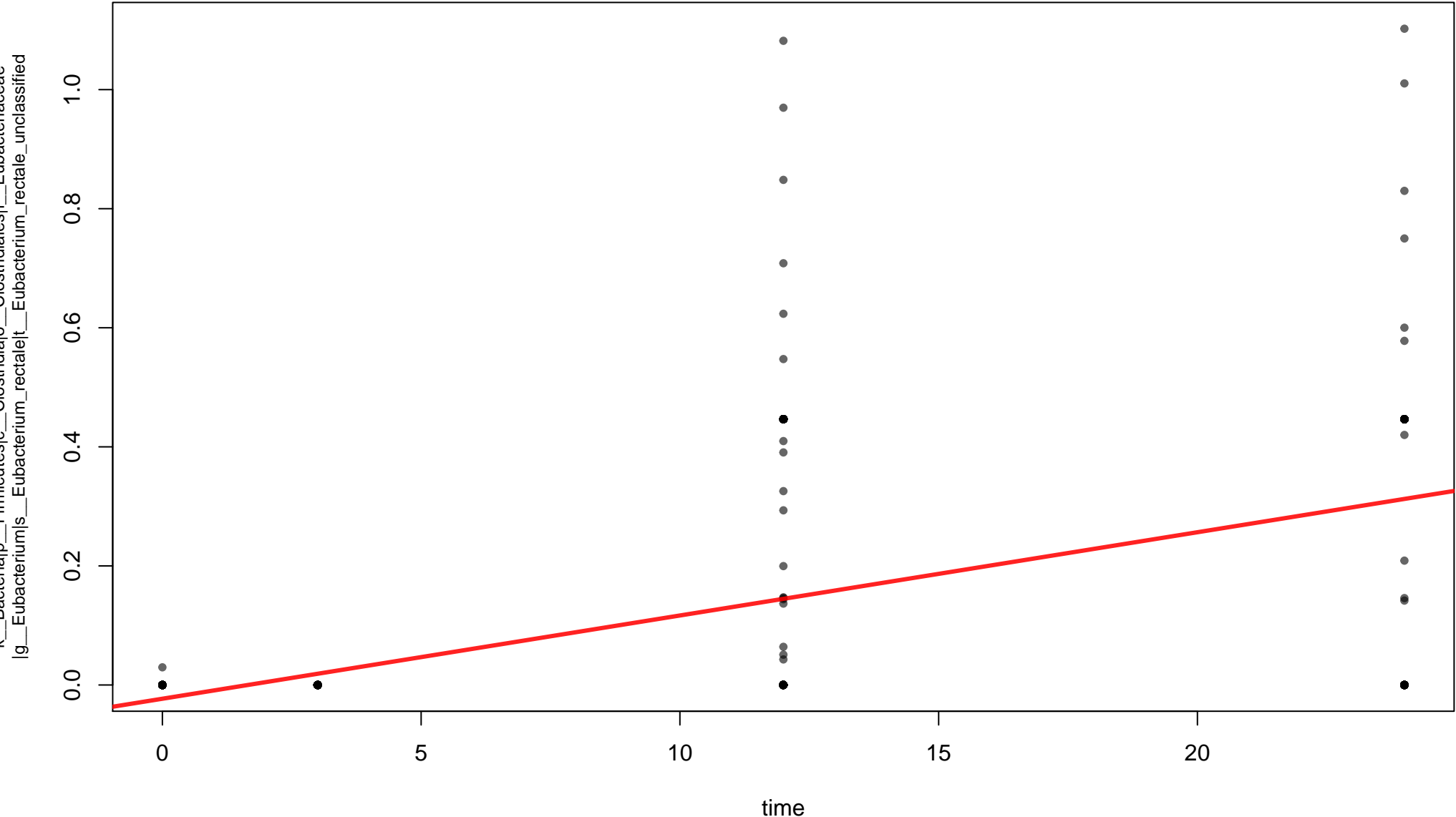
time (0.0154 sd 0.00079, p=4.71e-67, q=4e-65)



time (0.014 sd 0.000719, p=1.43e-66, q=1.16e-64)

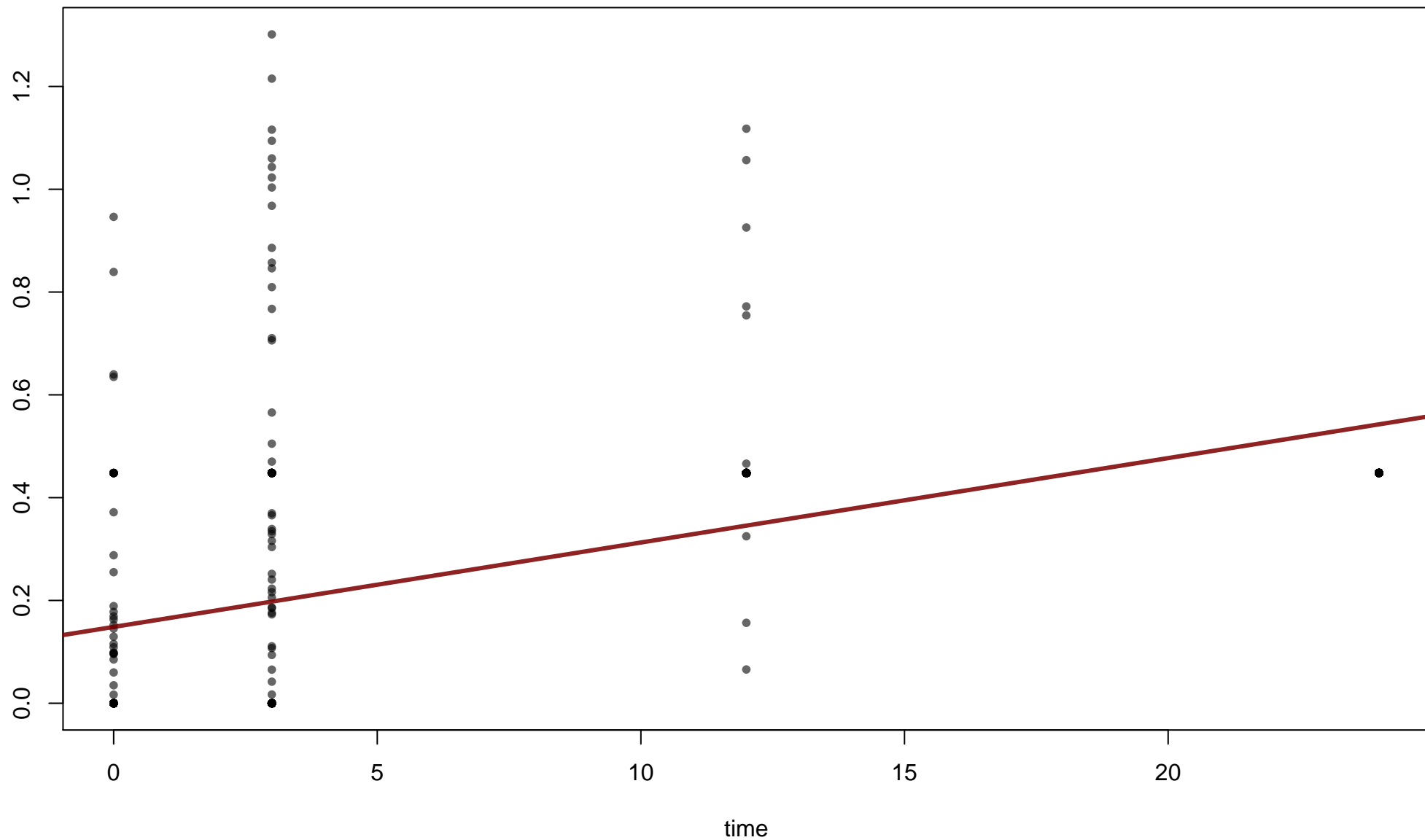


time (0.014 sd 0.000719, p=1.43e-66, q=1.16e-64)



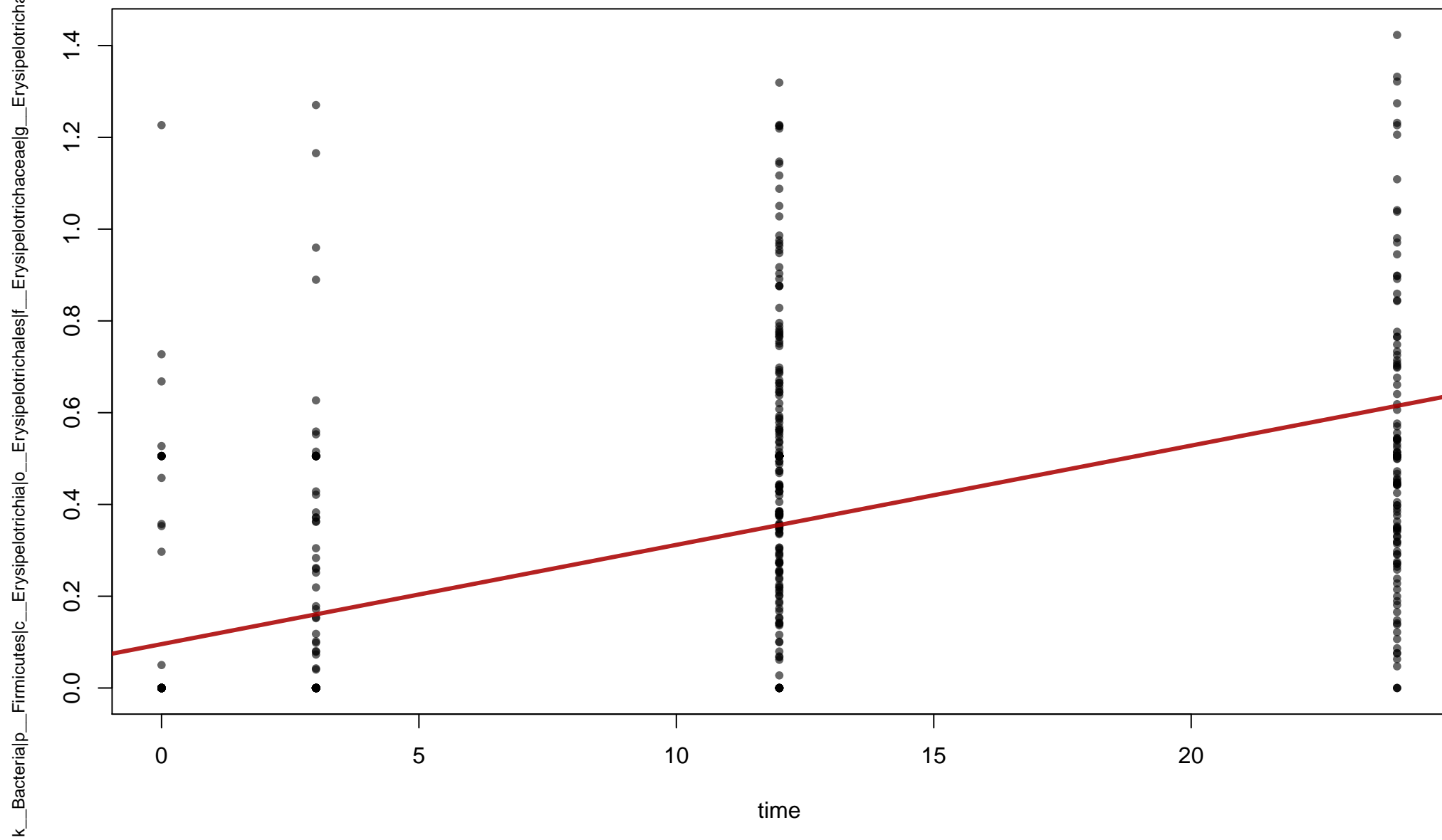
time (0.0164 sd 0.000912, p=3.54e-59, q=2.78e-57)

k\_\_Bacteria|p\_\_Firmicutes|c\_\_Clostridia|o\_\_Clostridiales|f\_\_Lachnospiraceae

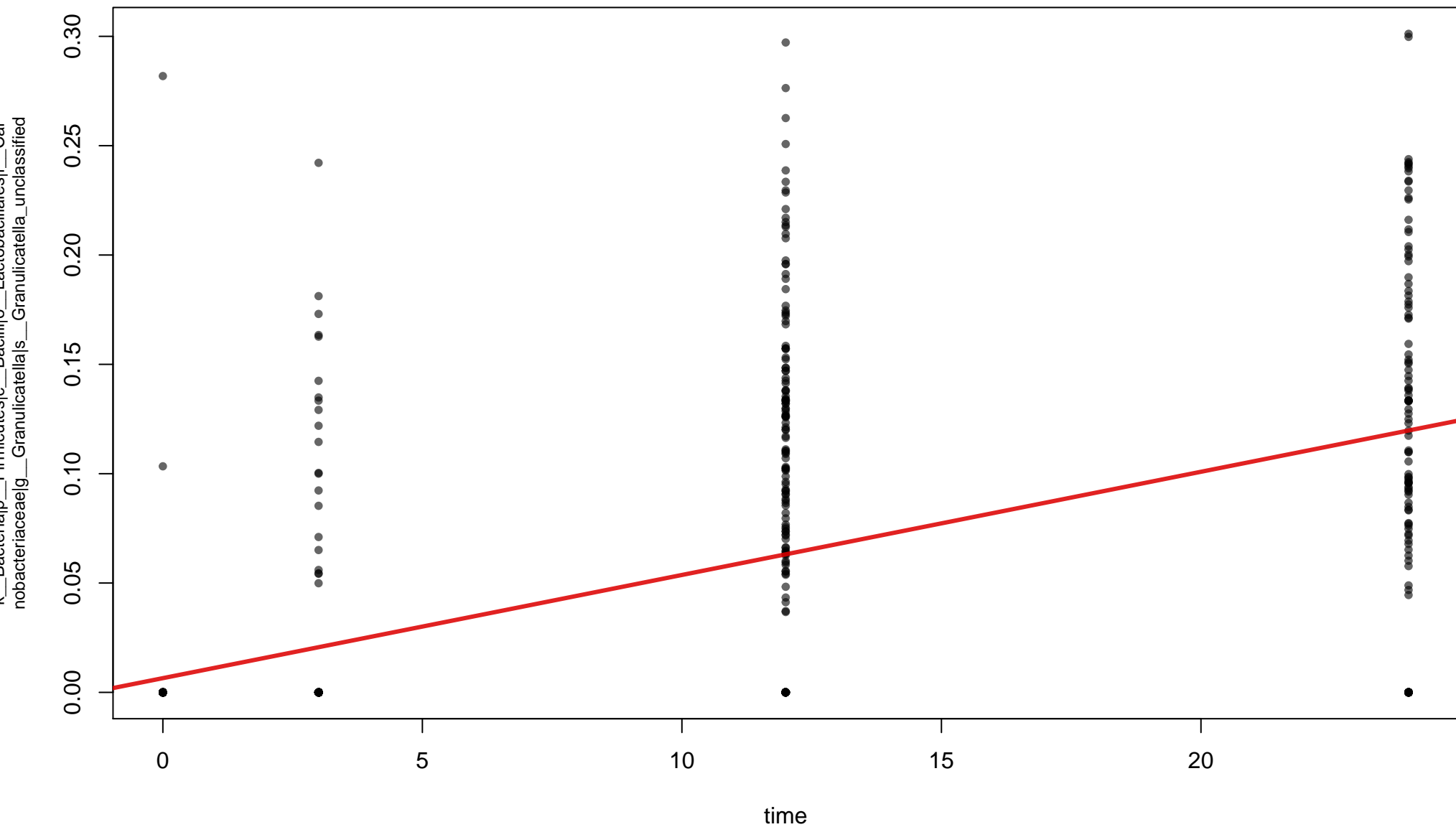




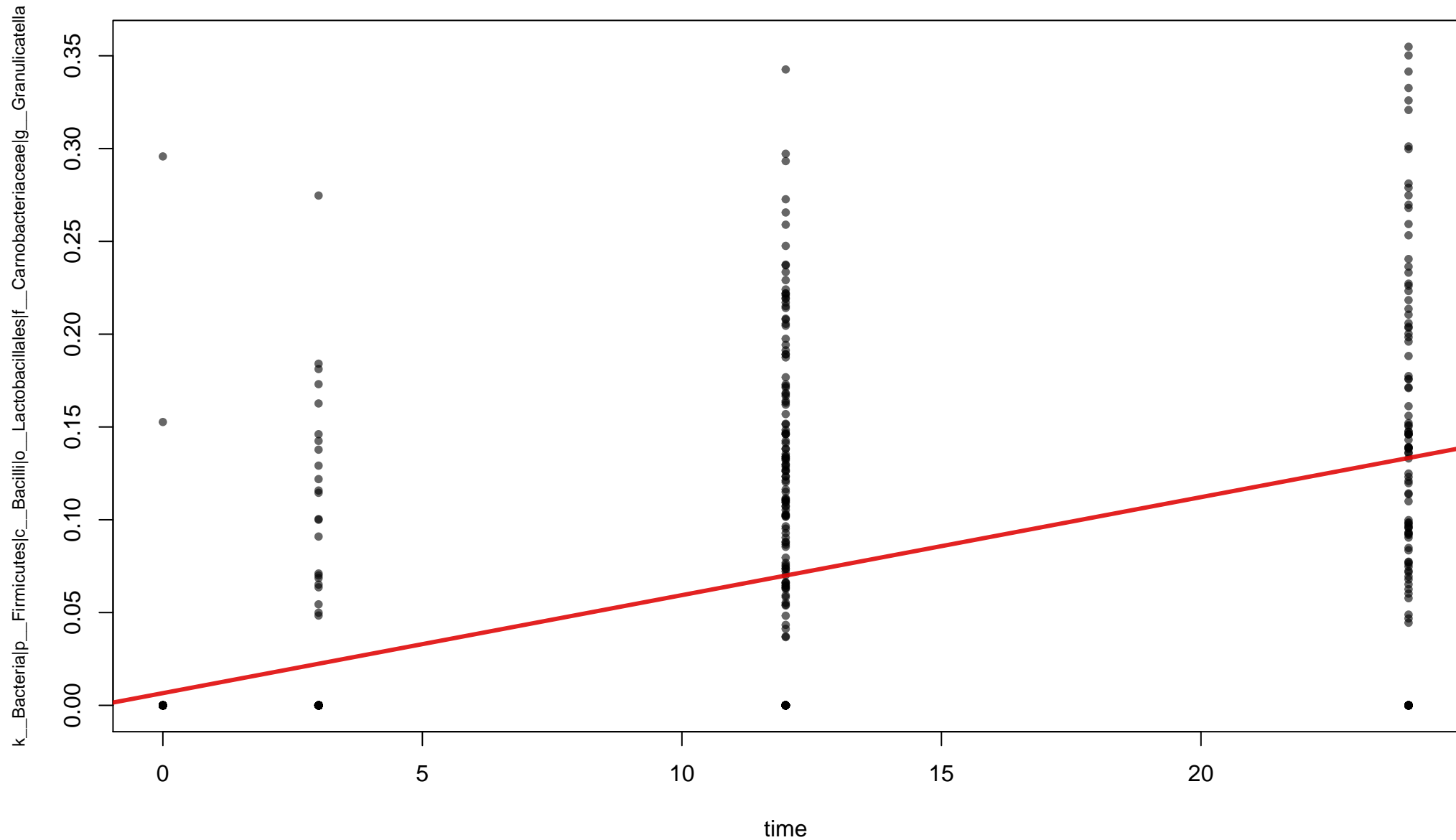
time (0.0217 sd 0.00121, p=1.08e-58, q=8.29e-57)



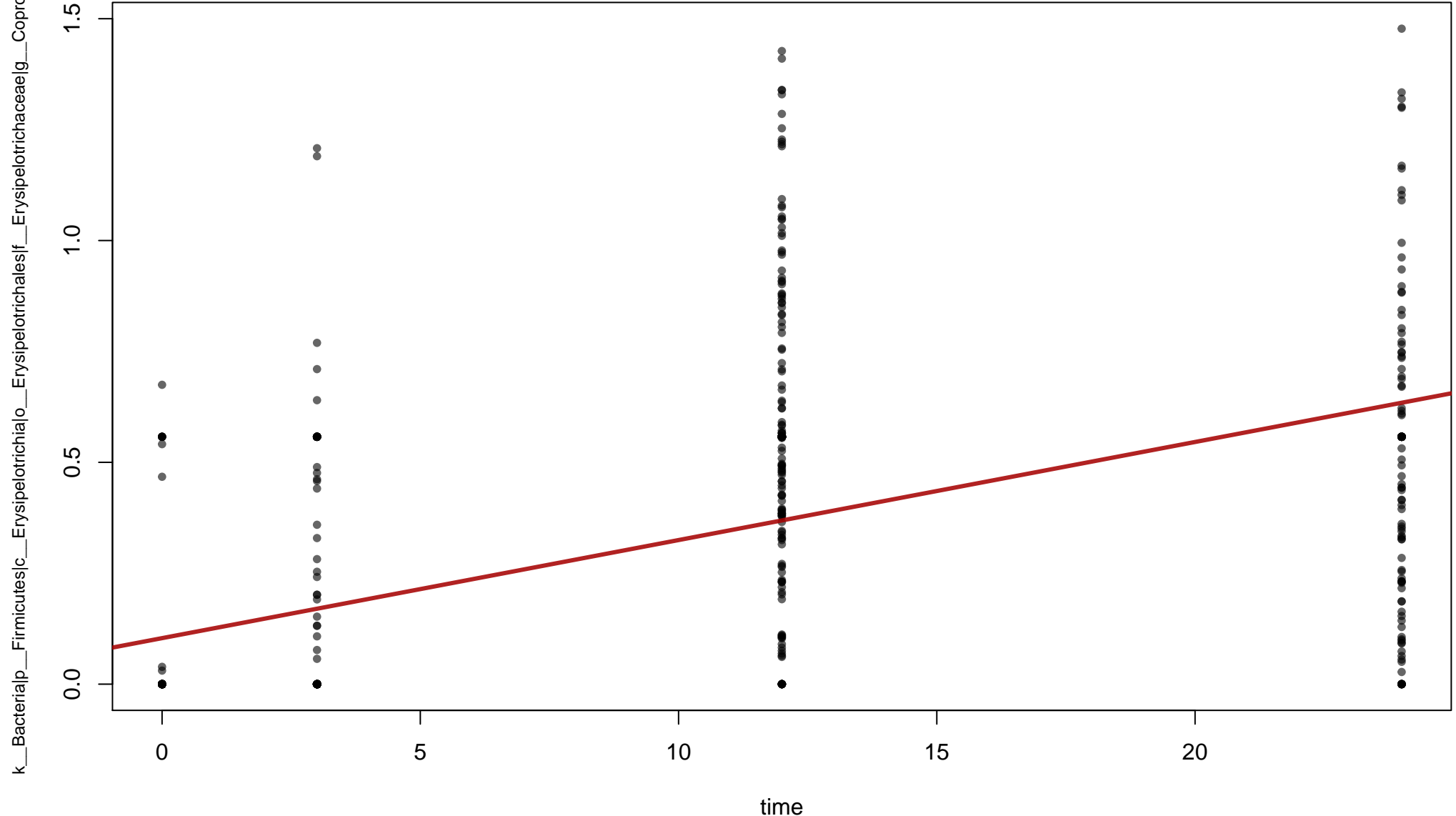
time (0.00472 sd 0.000275, p=1.19e-54, q=8.88e-53)



time (0.00528 sd 0.000311, p=8.99e-54, q=6.57e-52)

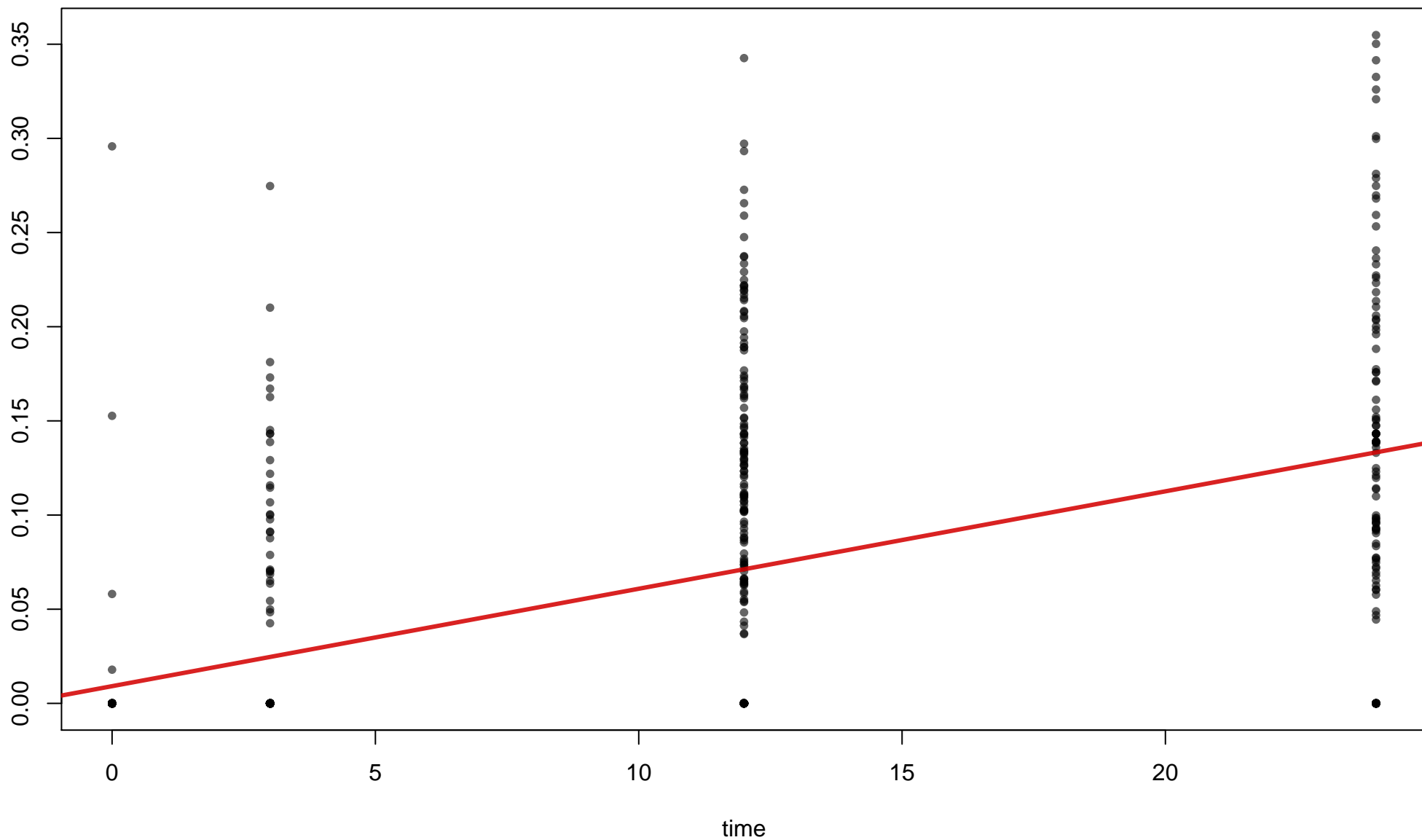


time (0.0221 sd 0.00133, p=7.94e-52, q=5.67e-50)

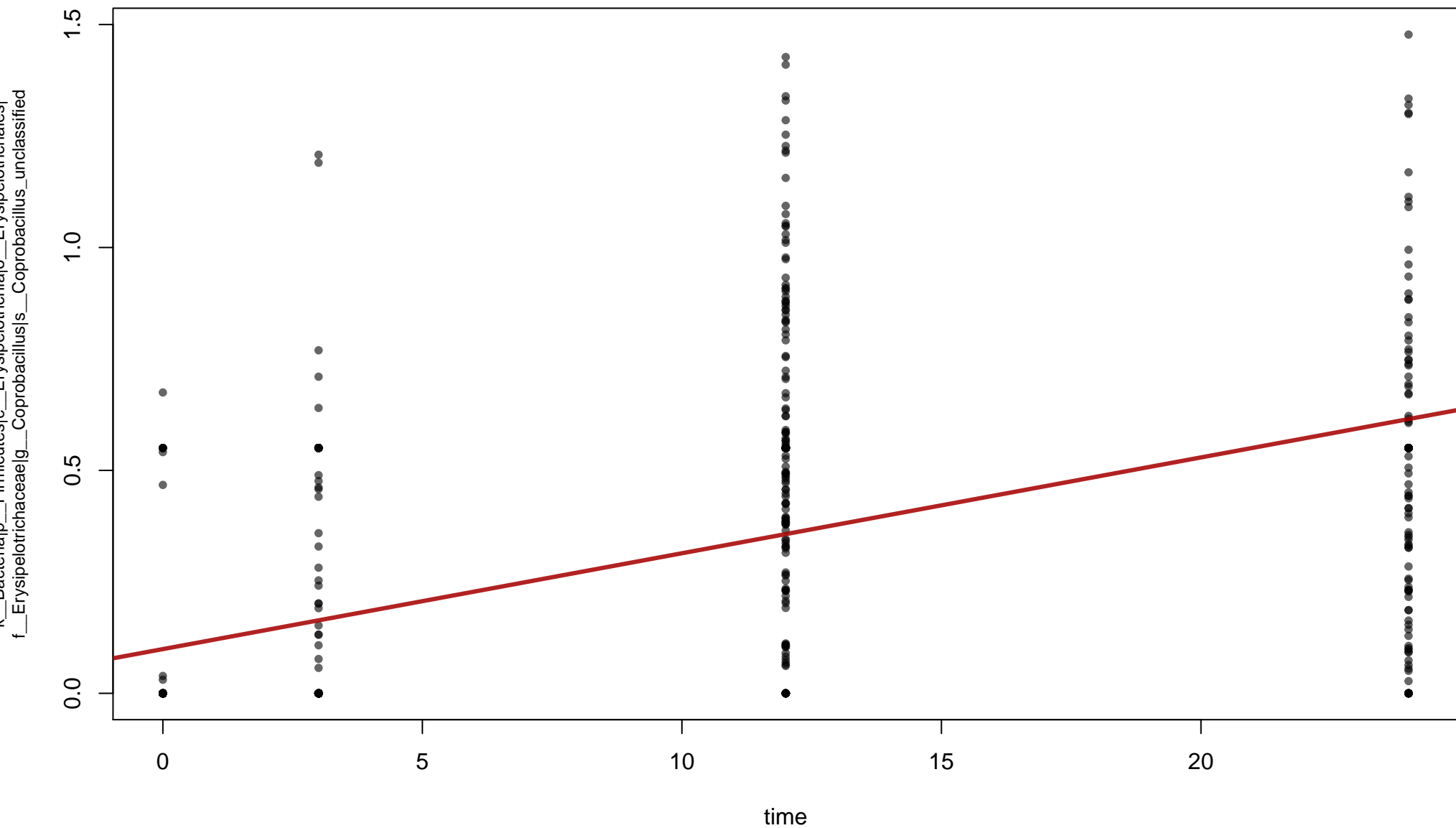


time (0.00518 sd 0.000314, p=2.81e-51, q=1.96e-49)

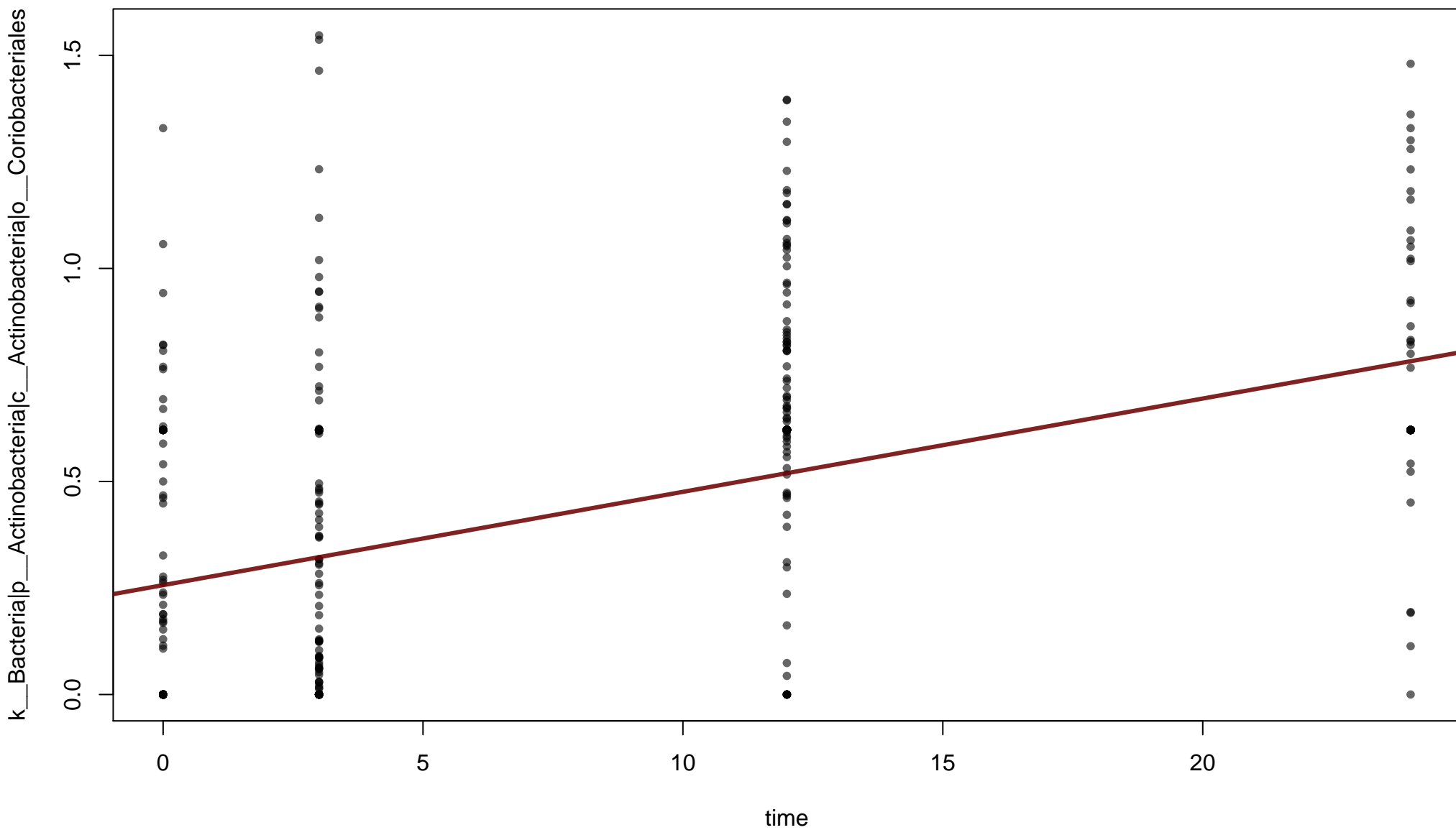
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Bacilli|o\_\_Lactobacillales|f\_\_Carnobacteriaceae



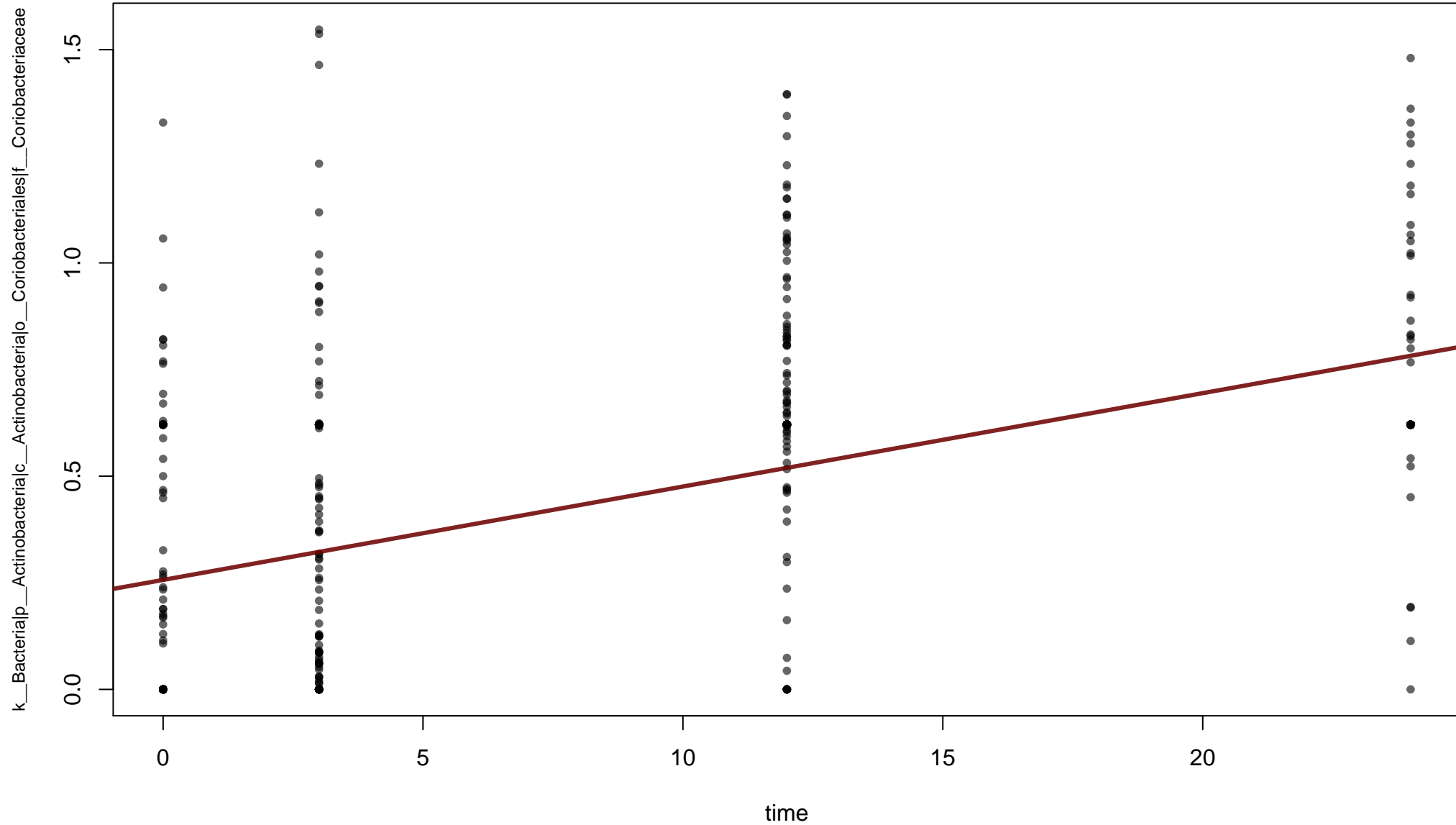
time (0.0215 sd 0.00132, p=1.36e-50, q=9.25e-49)



time (0.0219 sd 0.00134, p=2.33e-50, q=1.52e-48)

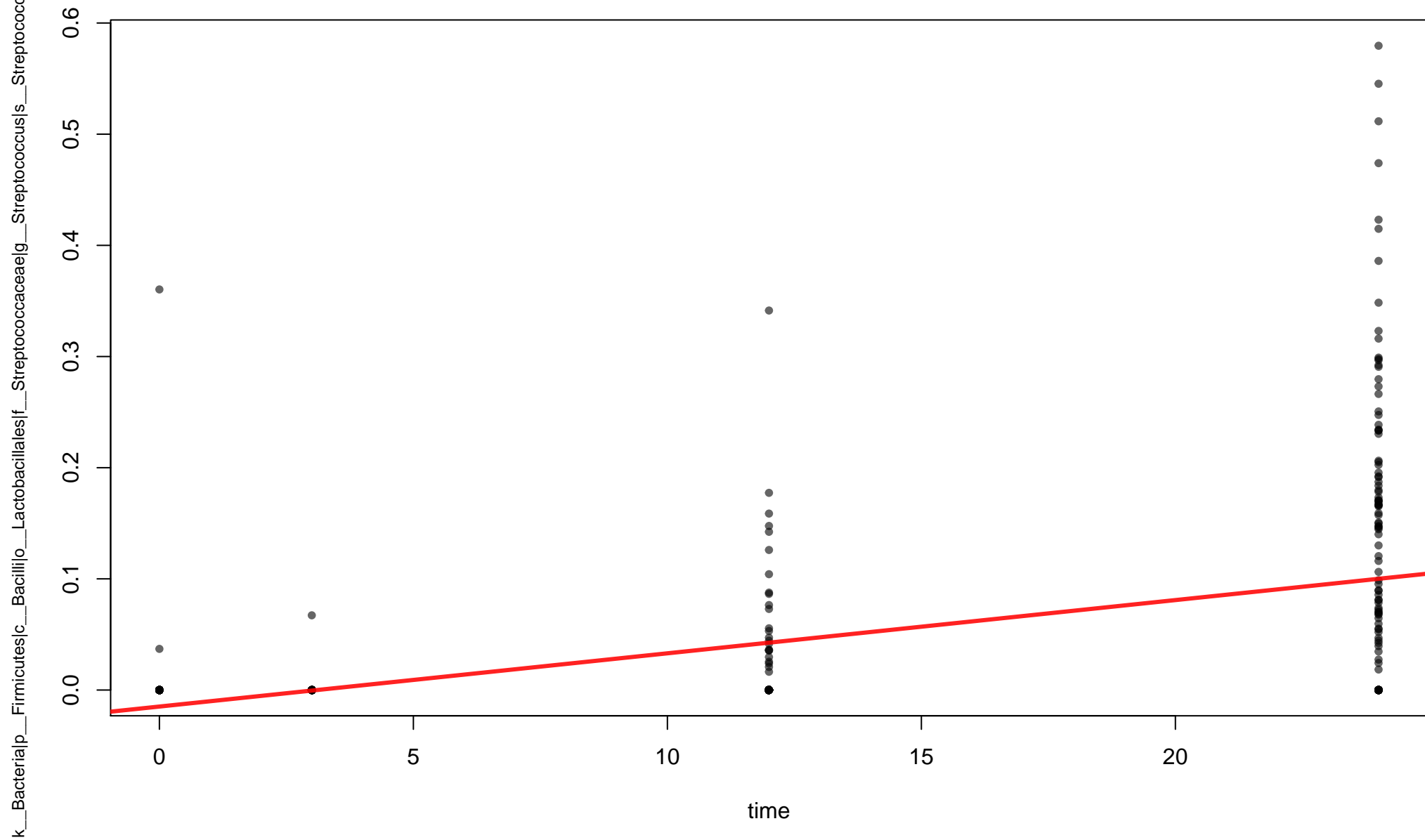


time (0.0219 sd 0.00134, p=2.33e-50, q=1.52e-48)

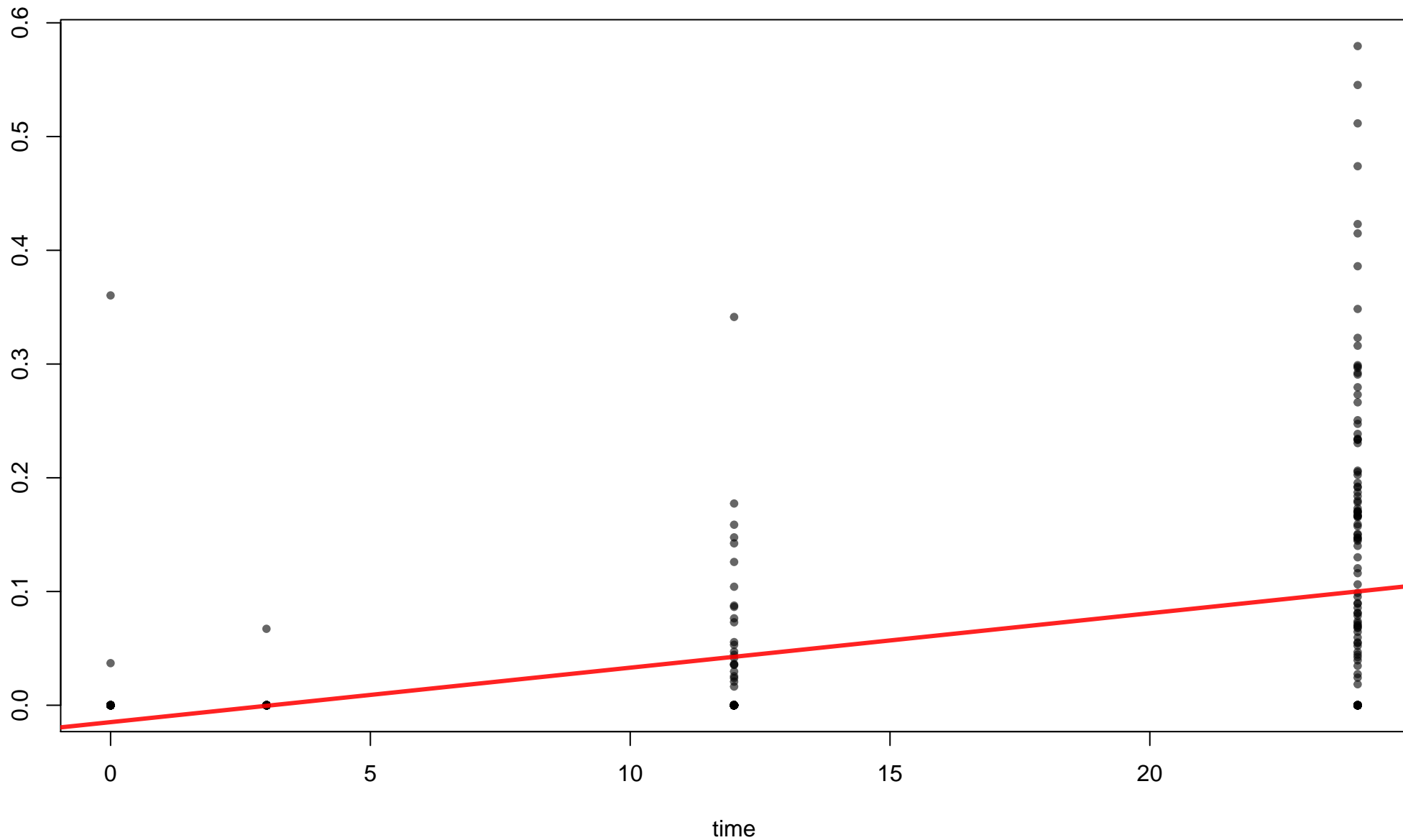




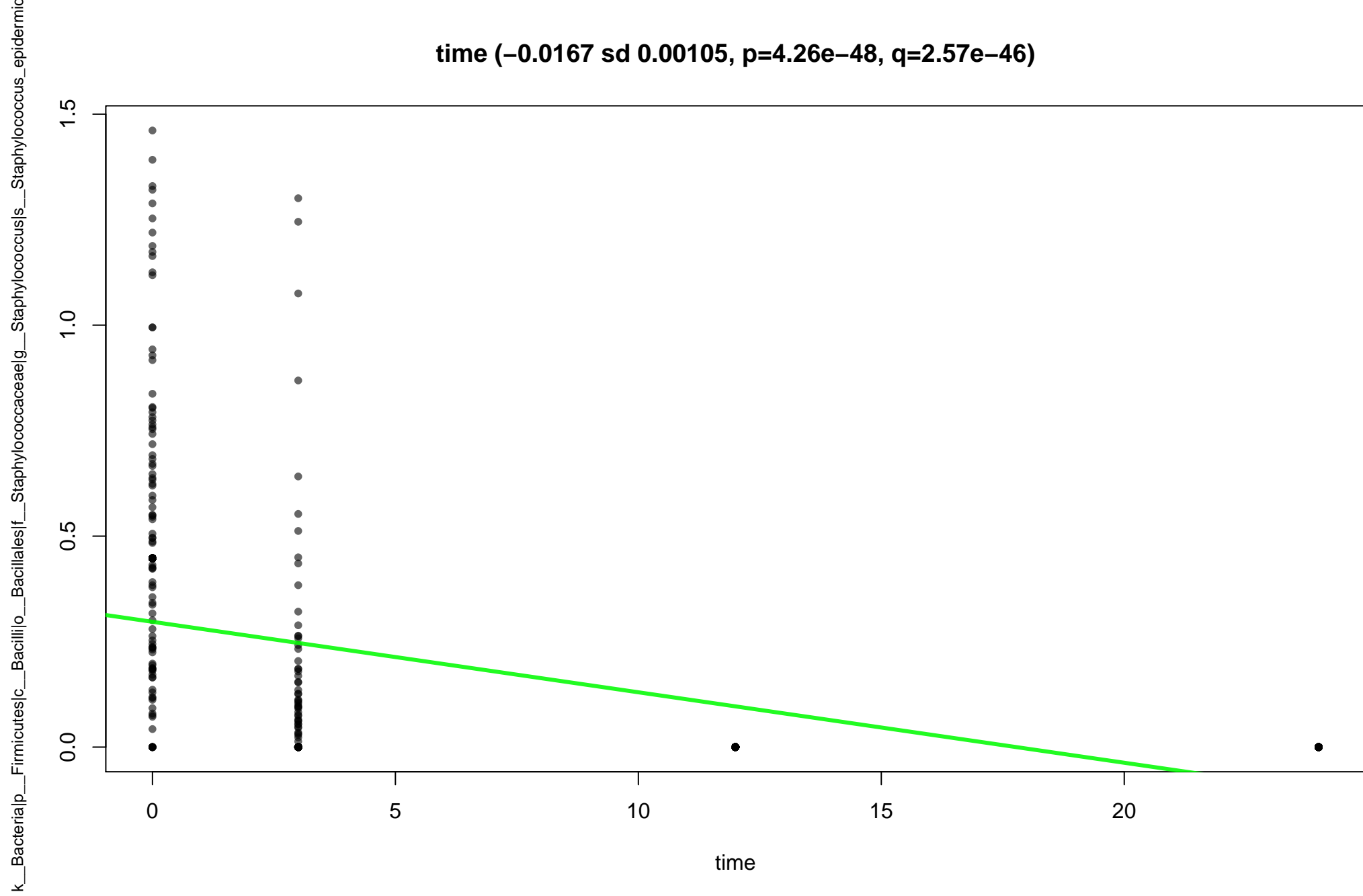
time (0.00479 sd 0.0003,  $p=1.64e-48$ ,  $q=1.03e-46$ )



treptococcus|Streptococcus\_sanguinis|Streptococcus\_unclassified



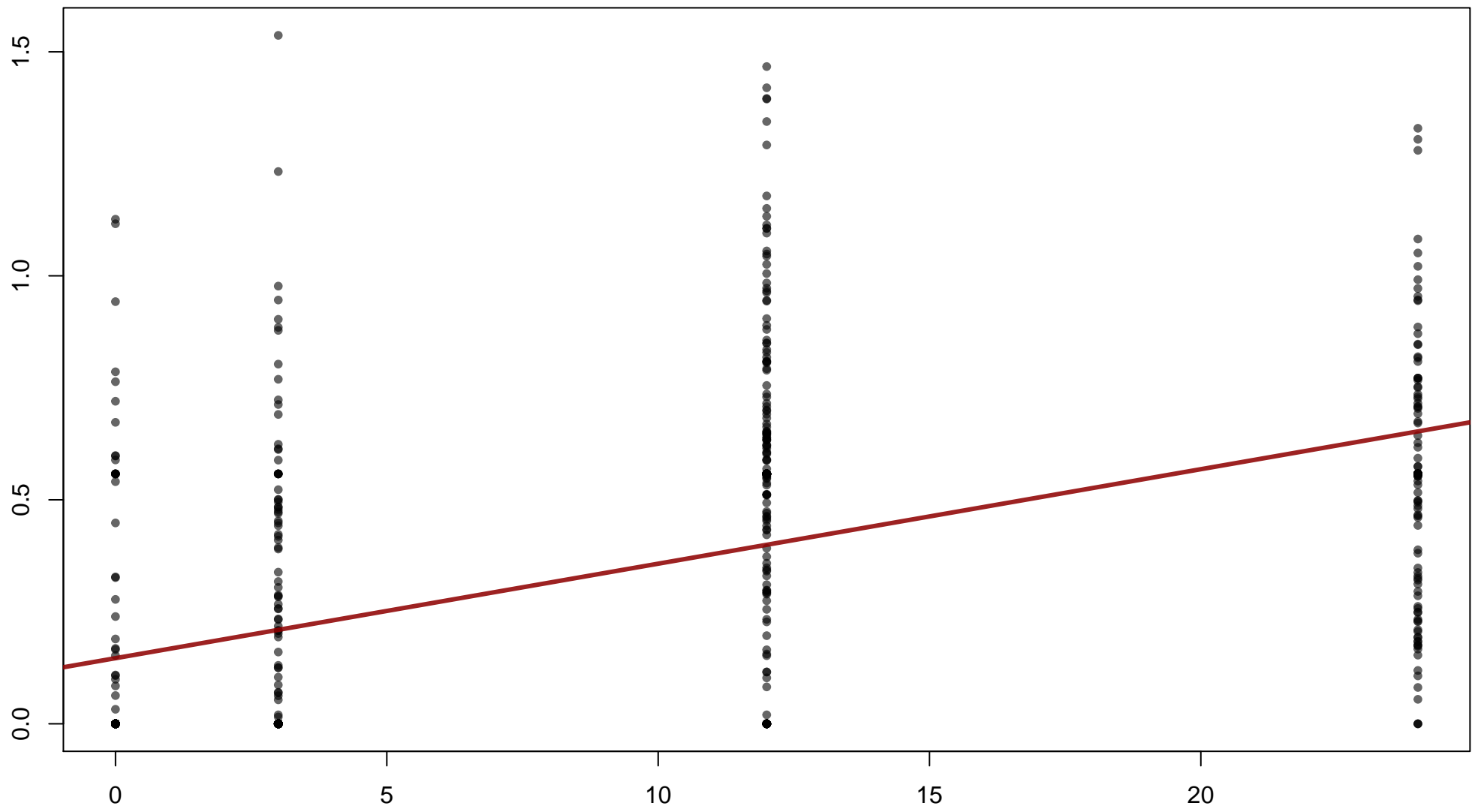
time ( $-0.0167$  sd  $0.00105$ ,  $p=4.26e-48$ ,  $q=2.57e-46$ )



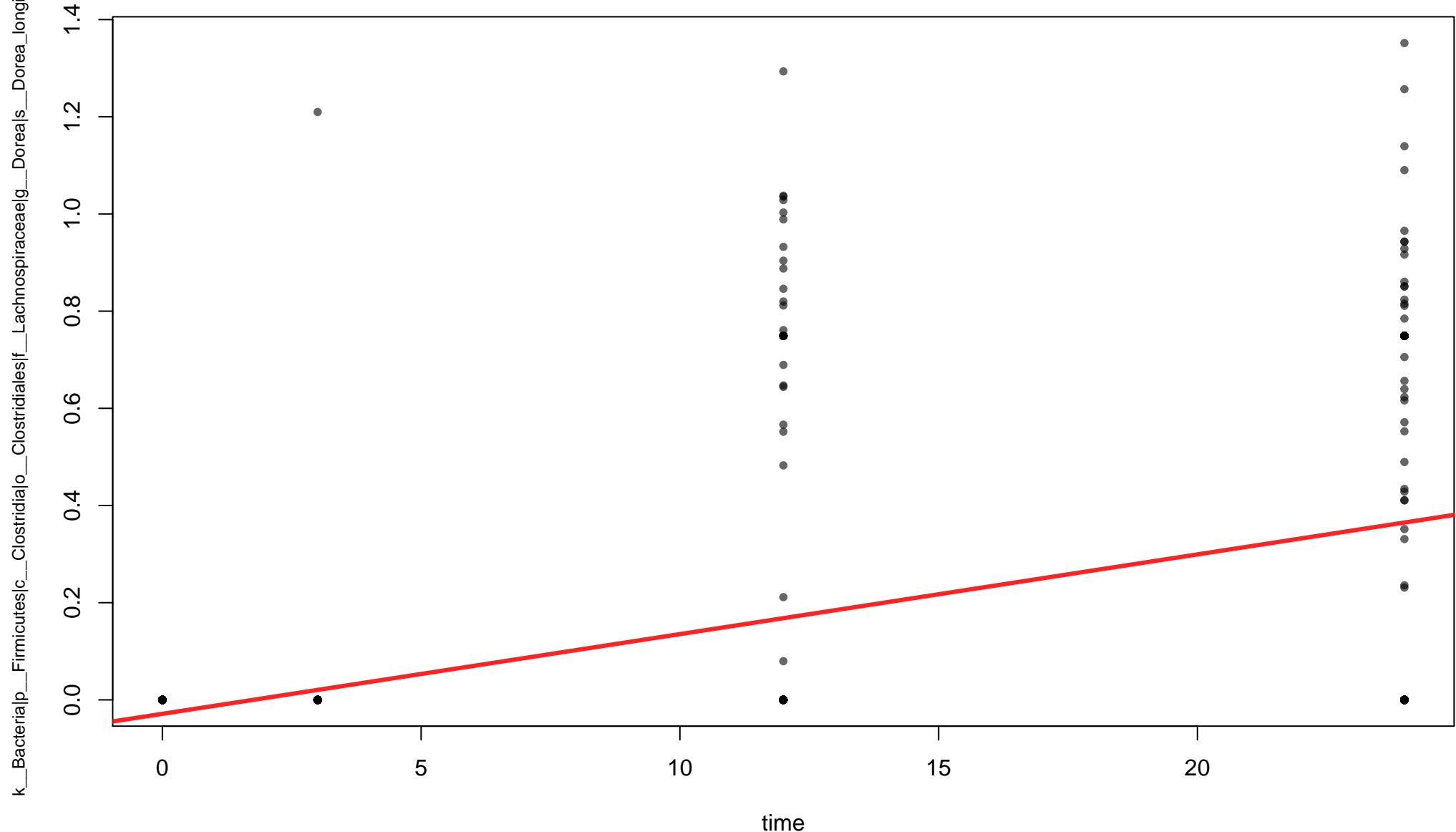


time (0.0211 sd 0.00135, p=9.29e-47, q=5.51e-45)

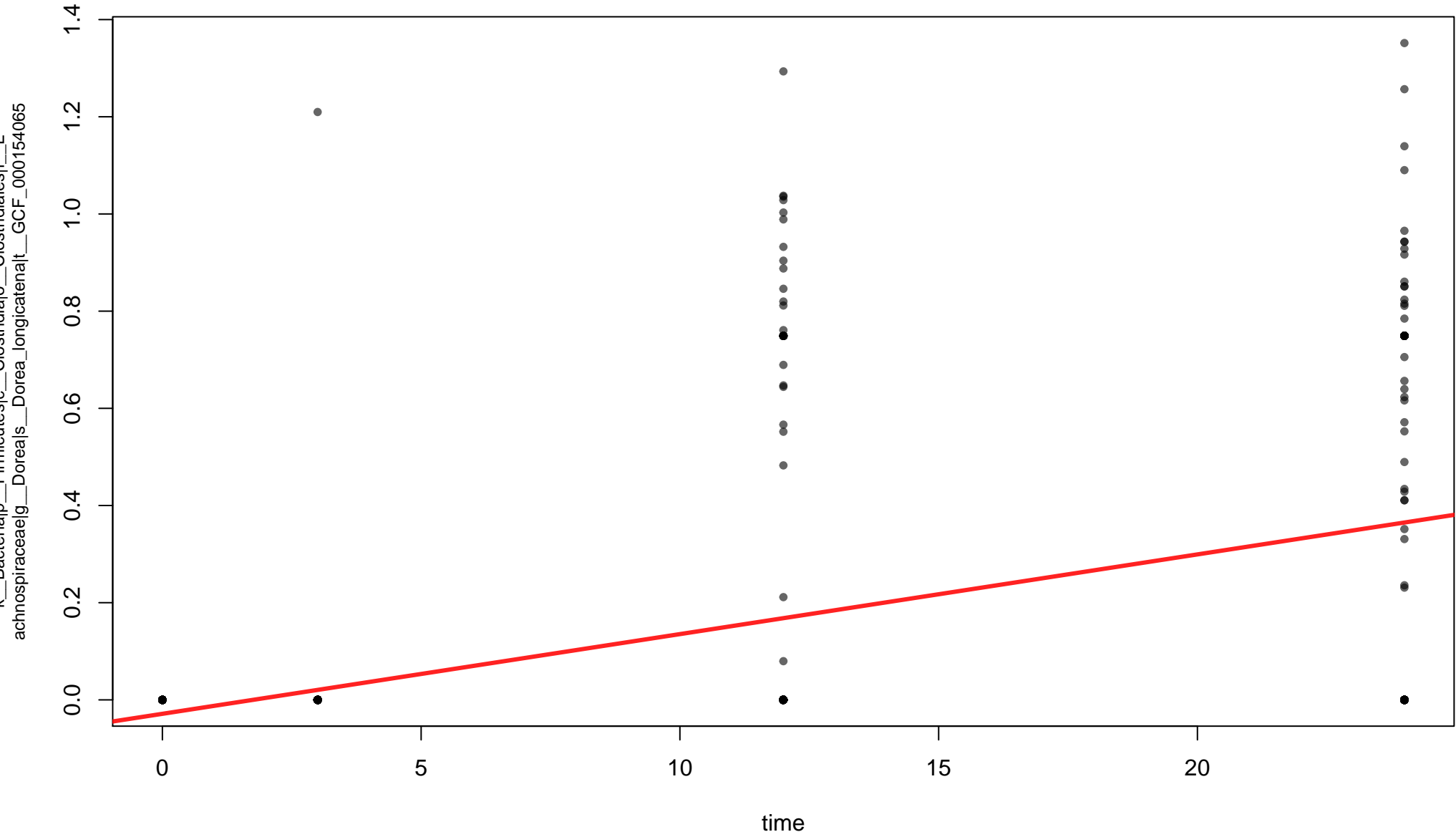
k\_\_Bacteria|p\_\_Actinobacteria|c\_\_Actinobacteria|o\_\_Coriobacteriales|f\_\_Coriobacteriaceae|g\_\_Eggerthella



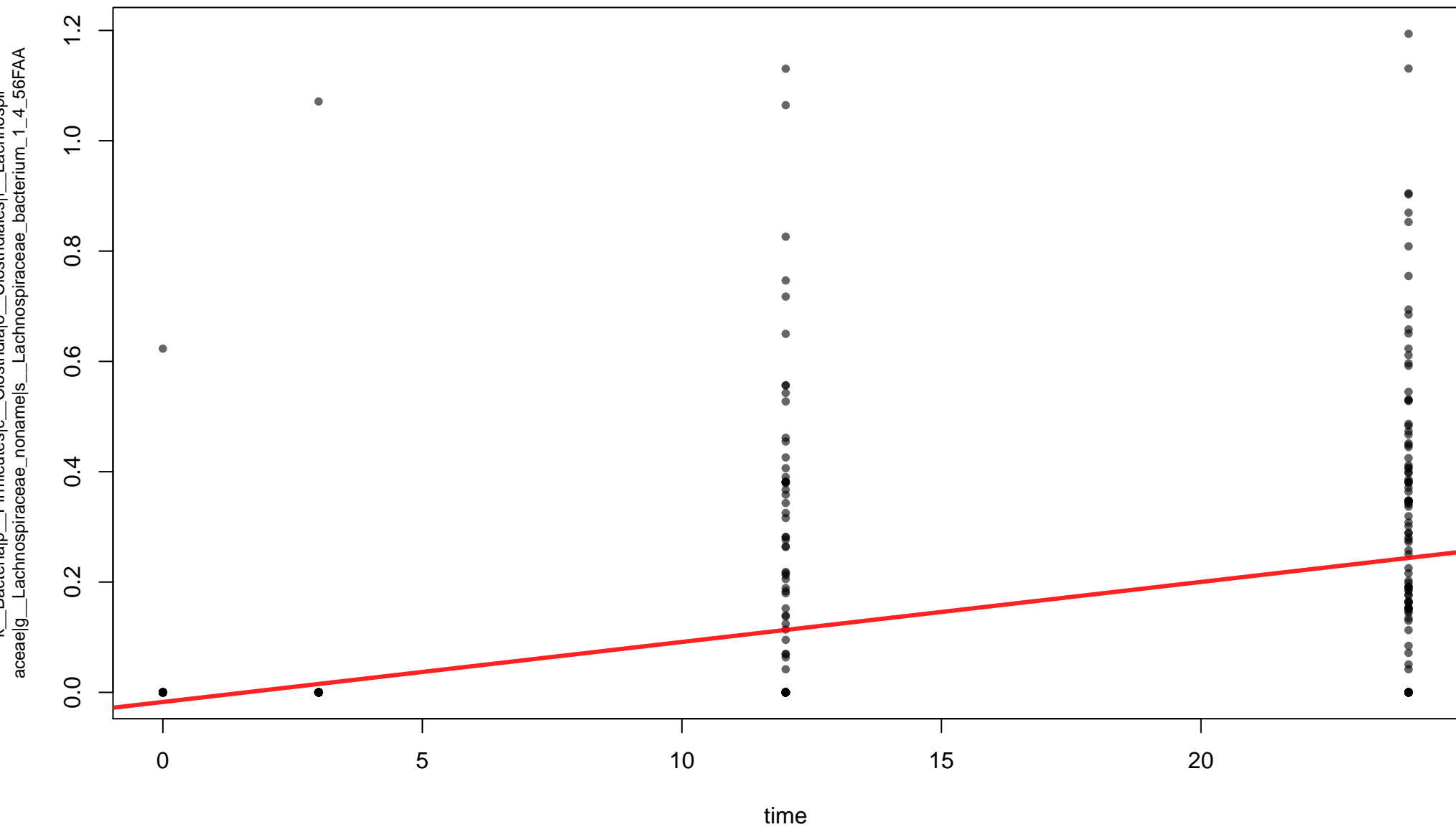
time (0.0164 sd 0.00111, p=1.24e-42, q=7.11e-41)



time (0.0164 sd 0.00111, p=1.24e-42, q=7.11e-41)

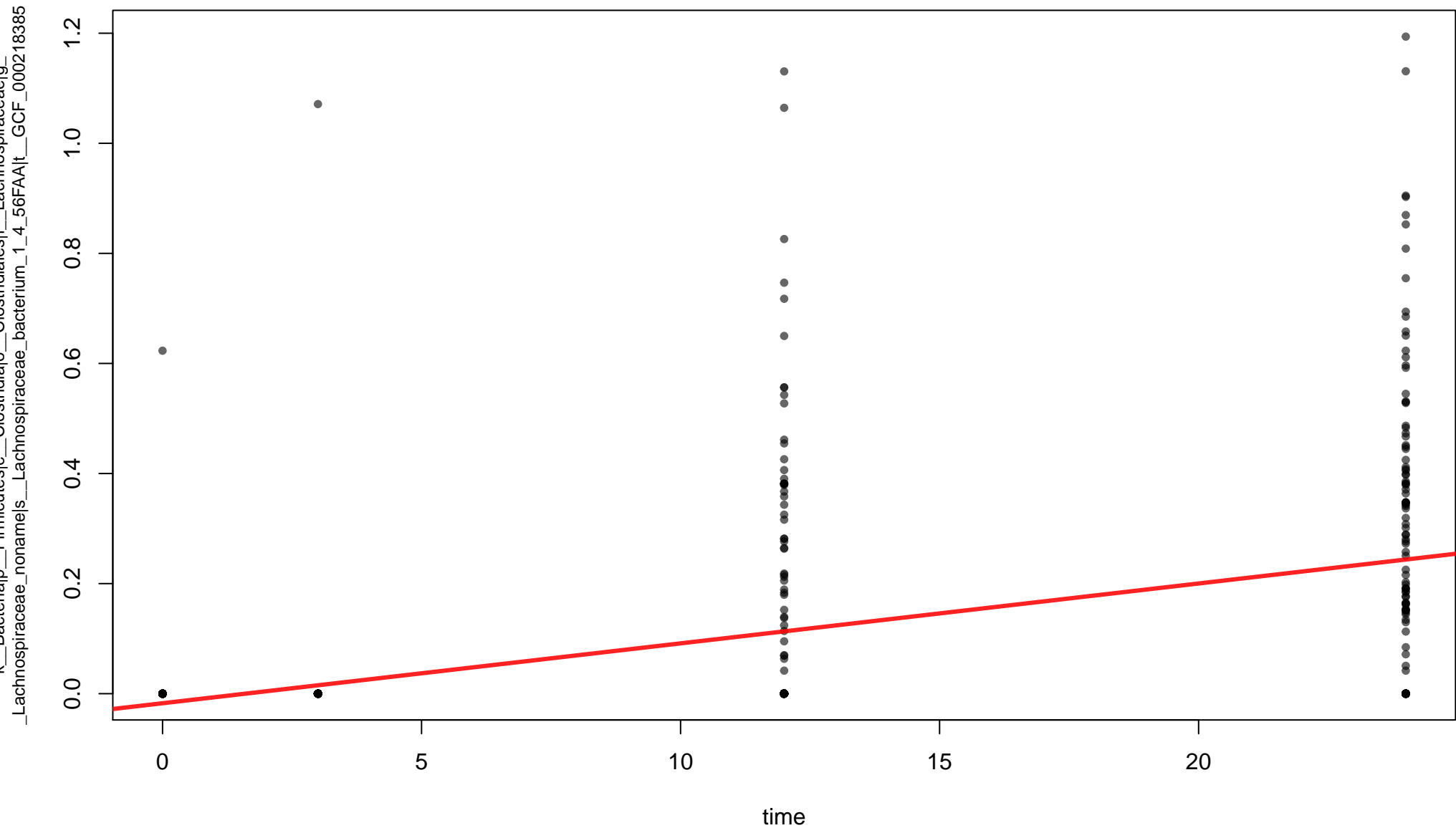


time (0.0109 sd 0.000751, p=2.63e-41, q=1.45e-39)

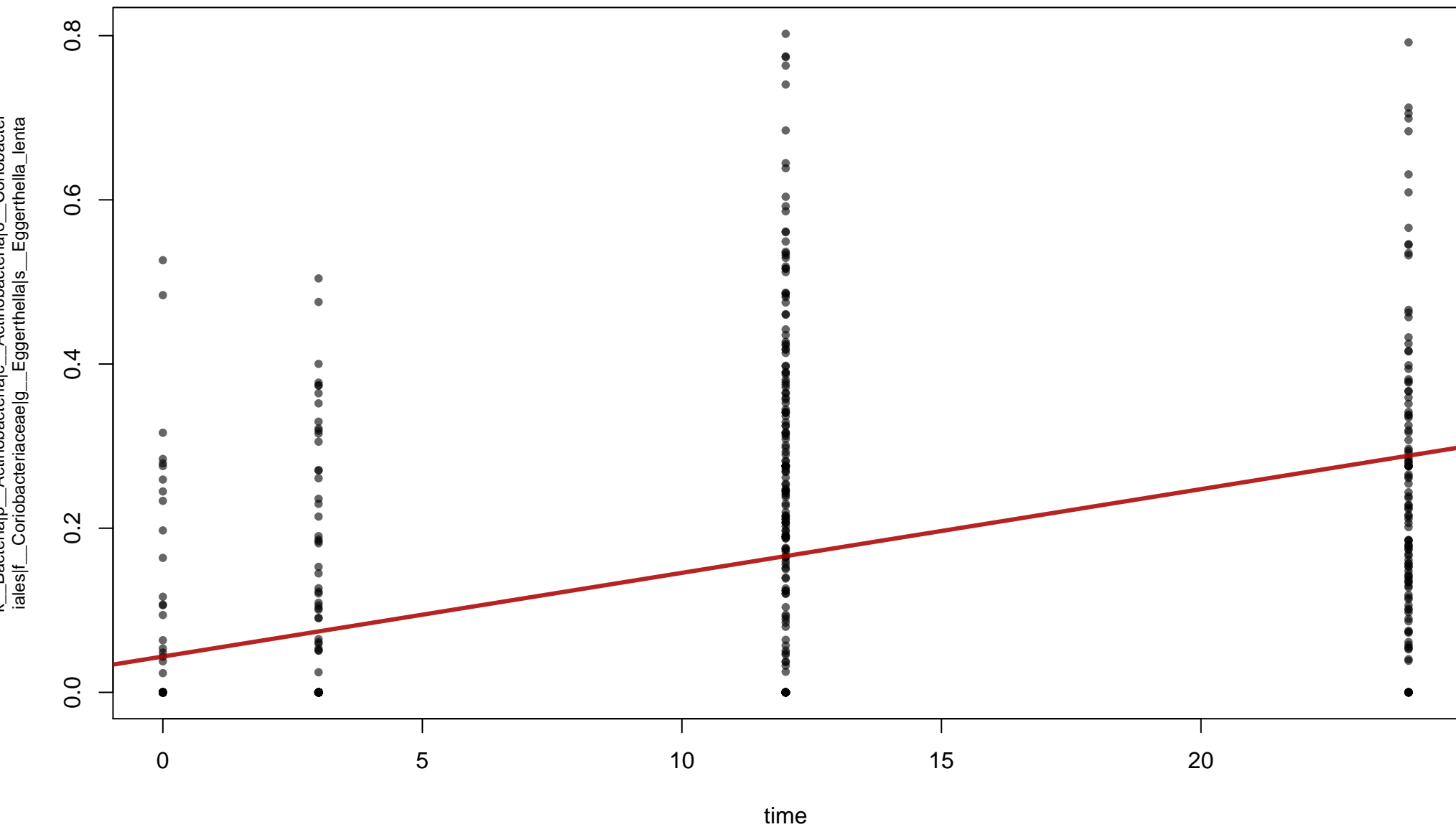




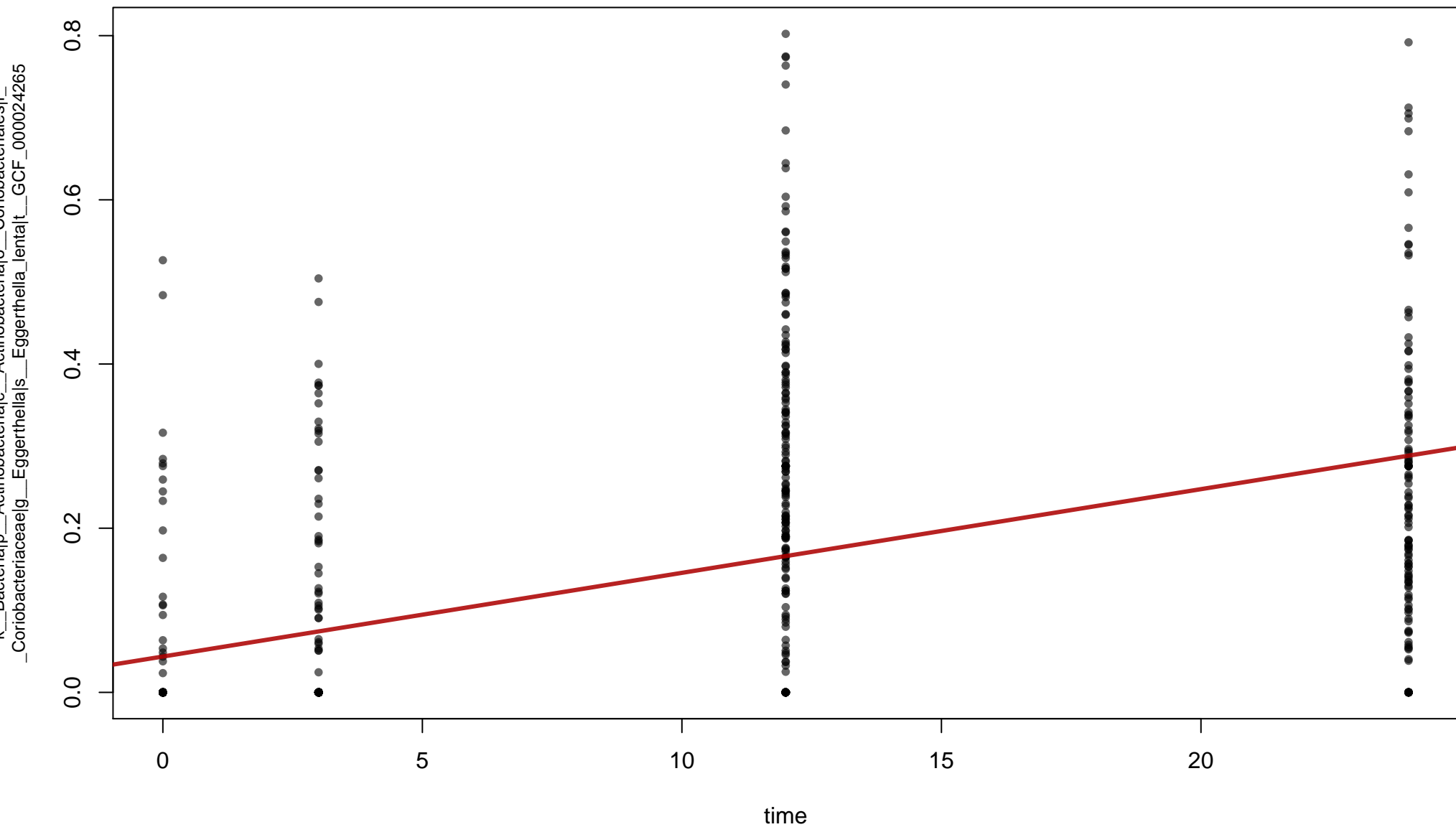
time (0.0109 sd 0.000751, p=2.63e-41, q=1.45e-39)



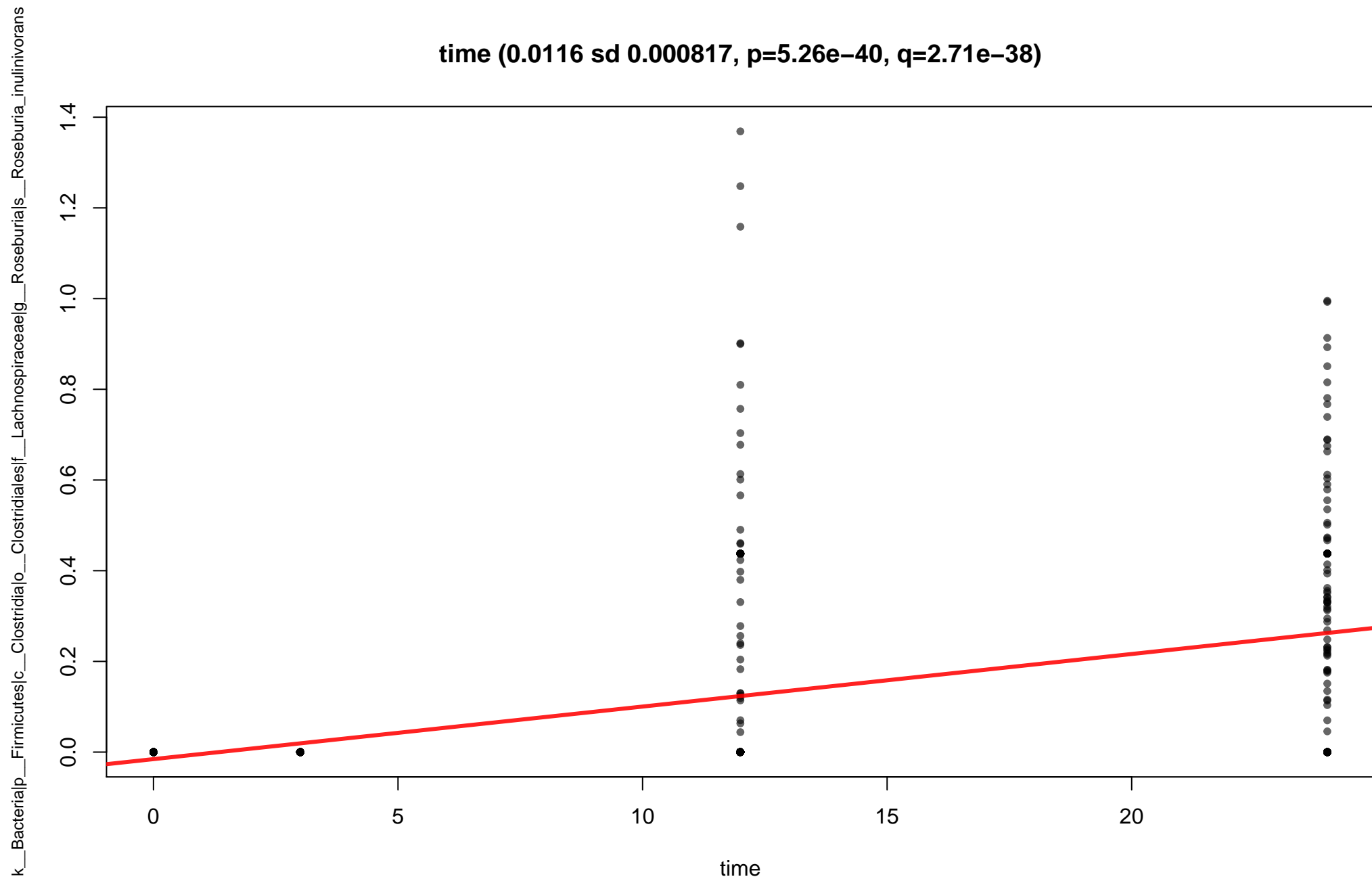
time (0.0102 sd 0.000716, p=3.27e-40, q=1.74e-38)



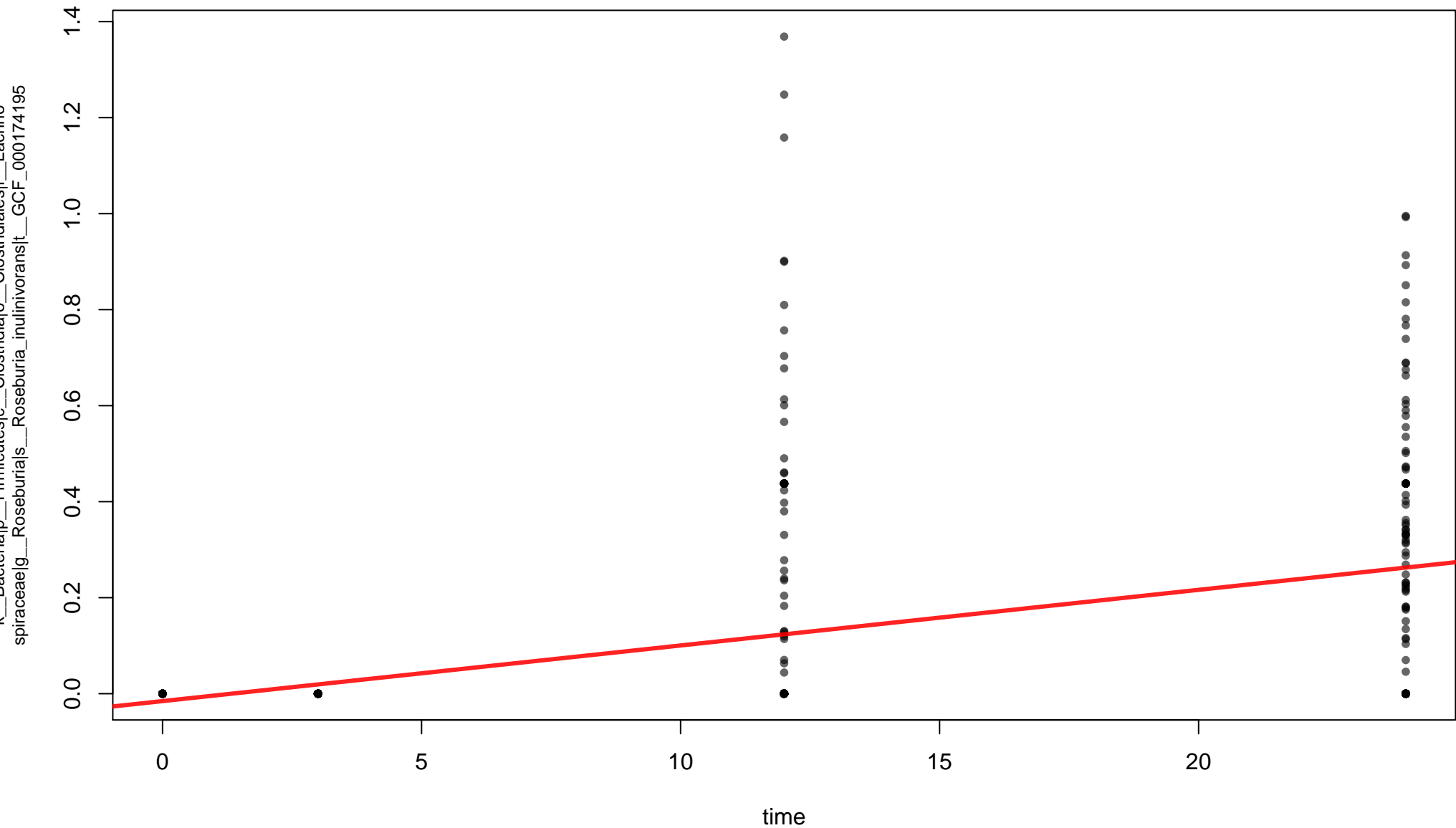
time (0.0102 sd 0.000716, p=3.27e-40, q=1.74e-38)



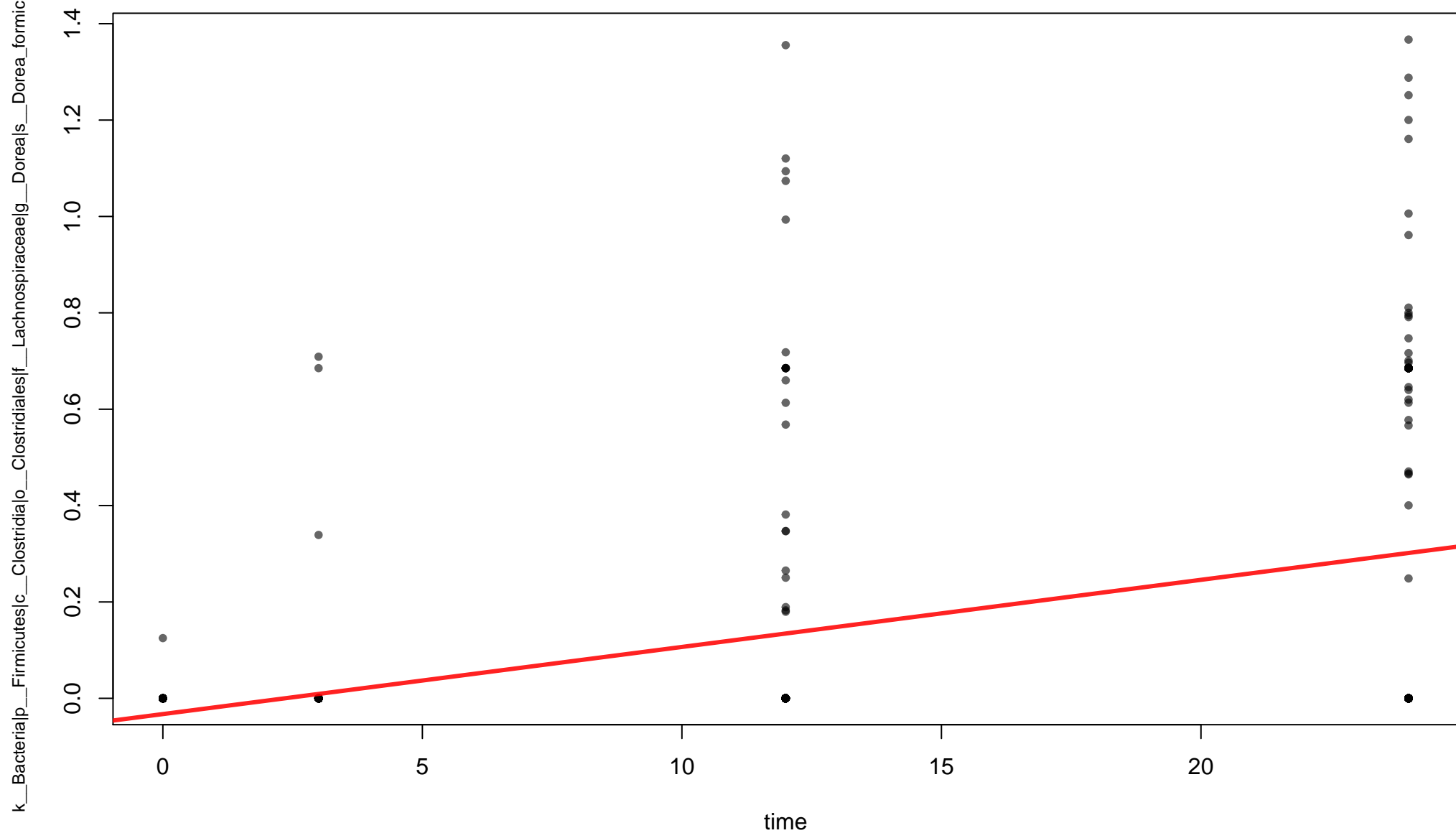
time (0.0116 sd 0.000817, p=5.26e-40, q=2.71e-38)



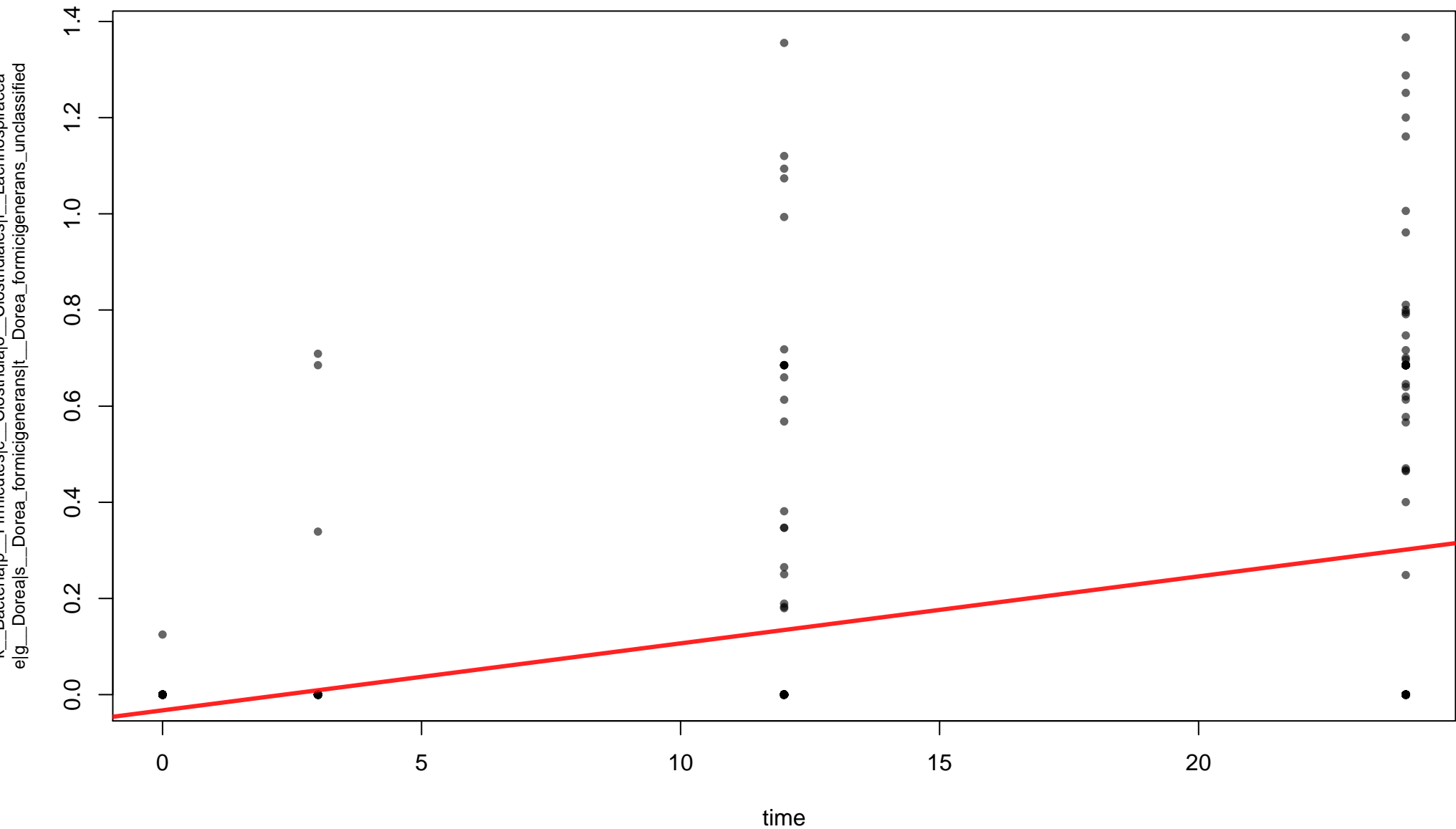
time (0.0116 sd 0.000817, p=5.26e-40, q=2.71e-38)



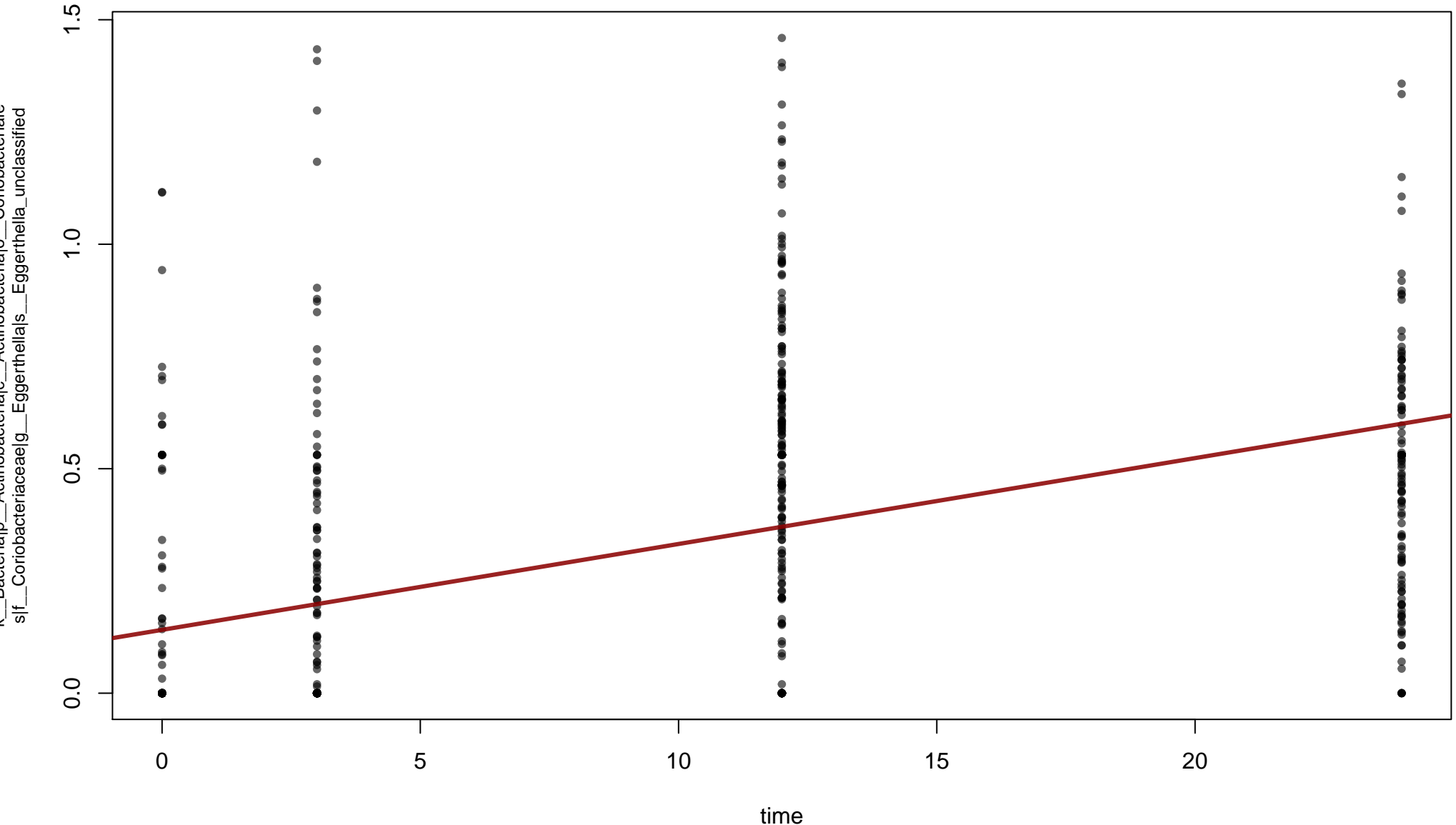
time (0.0139 sd 0.000986, p=1.03e-39, q=5.15e-38)



time (0.0139 sd 0.000986, p=1.03e-39, q=5.15e-38)

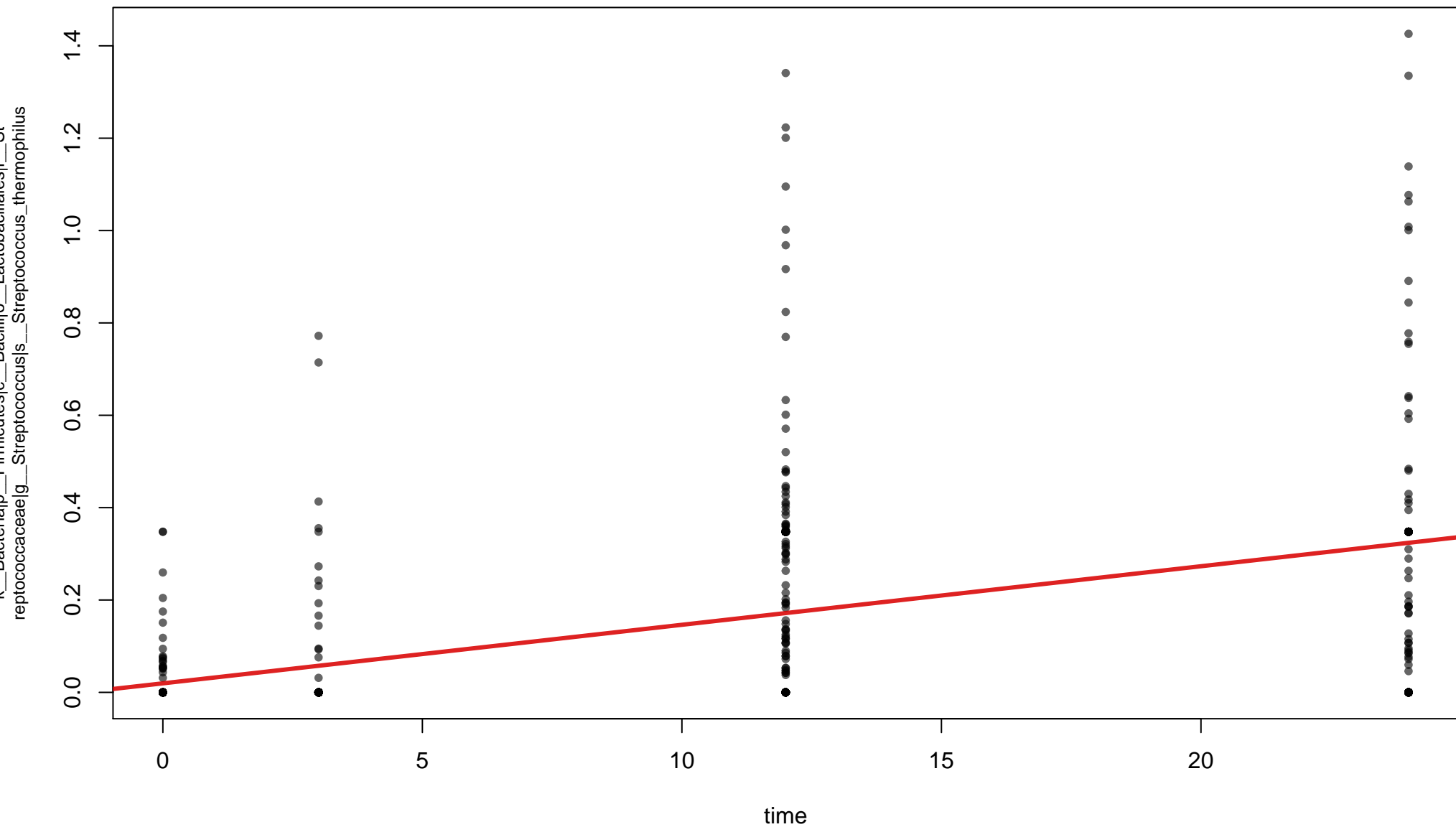


time (0.0191 sd 0.00136, p=3.52e-39, q=1.73e-37)

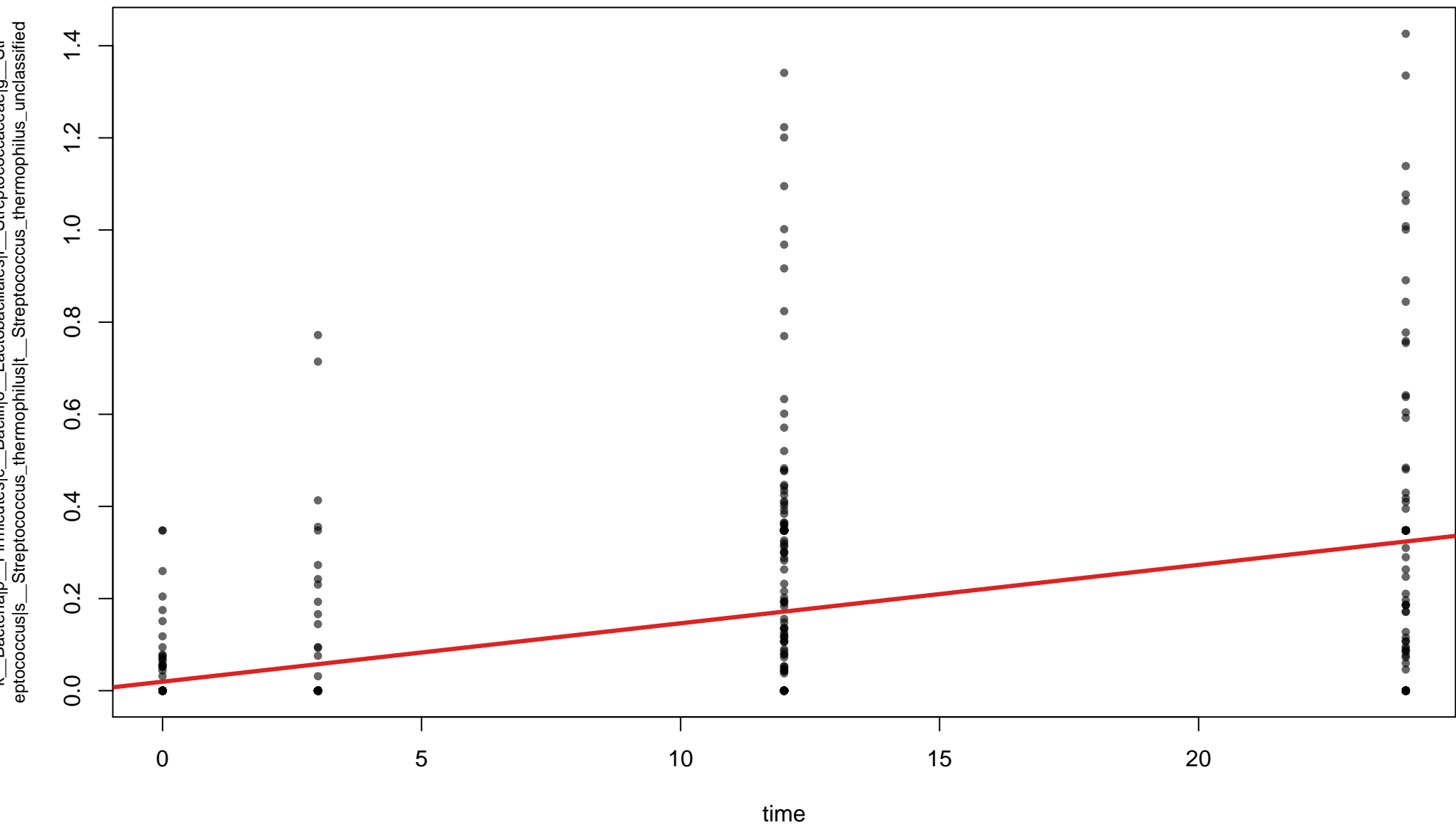




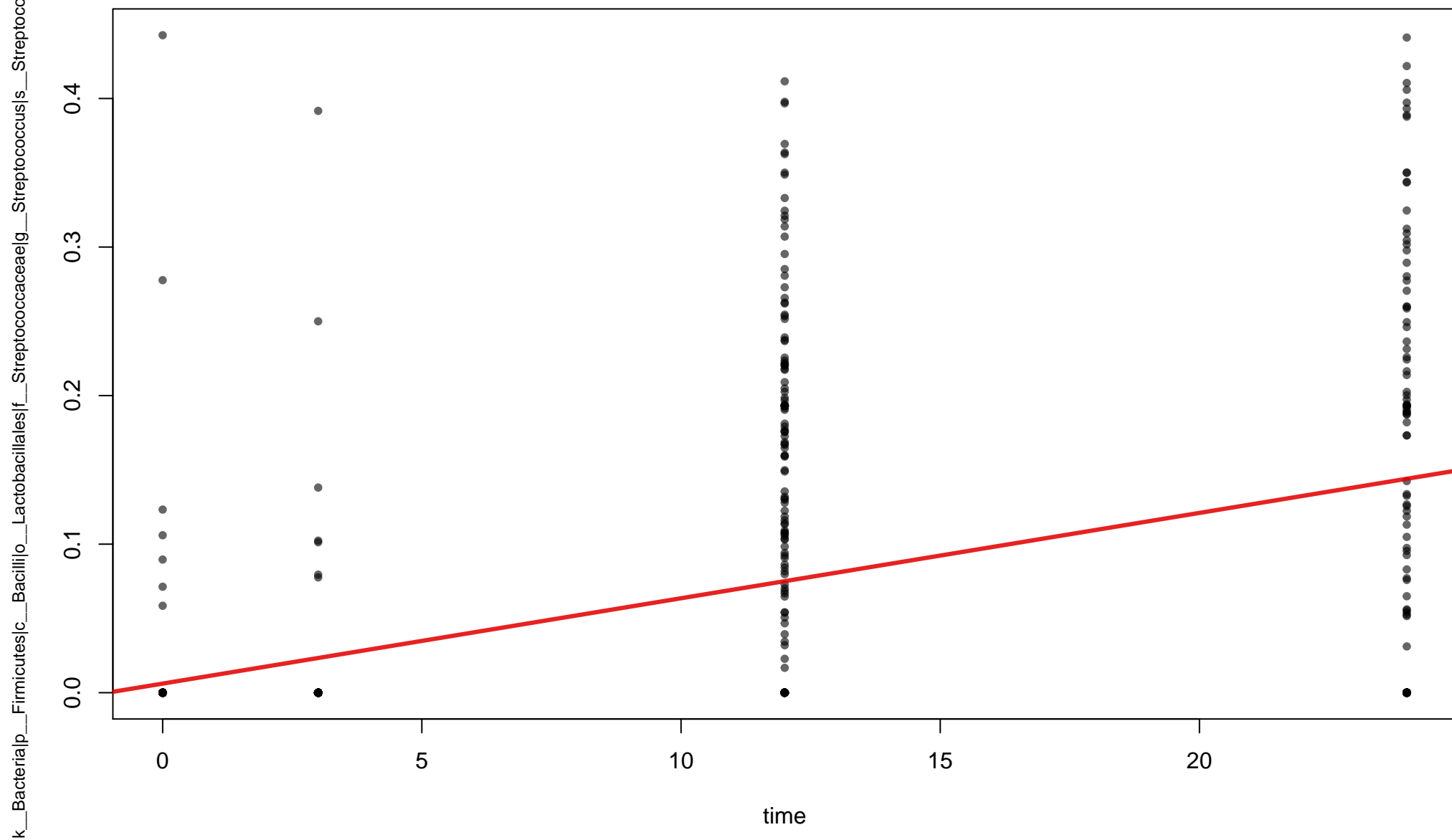
time (0.0127 sd 0.000915, p=2.16e-38, q=1.01e-36)



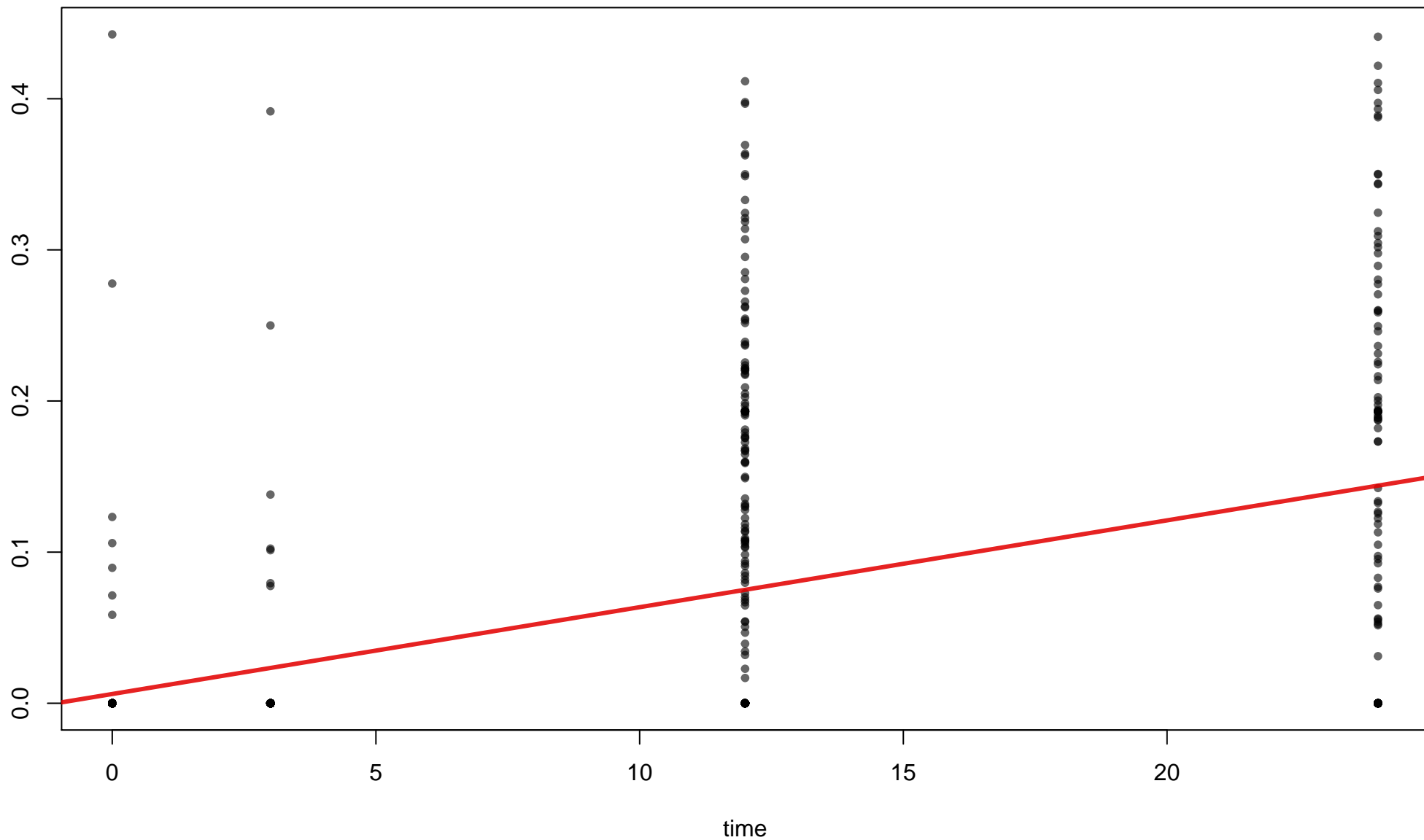
time (0.0127 sd 0.000915, p=2.16e-38, q=1.01e-36)



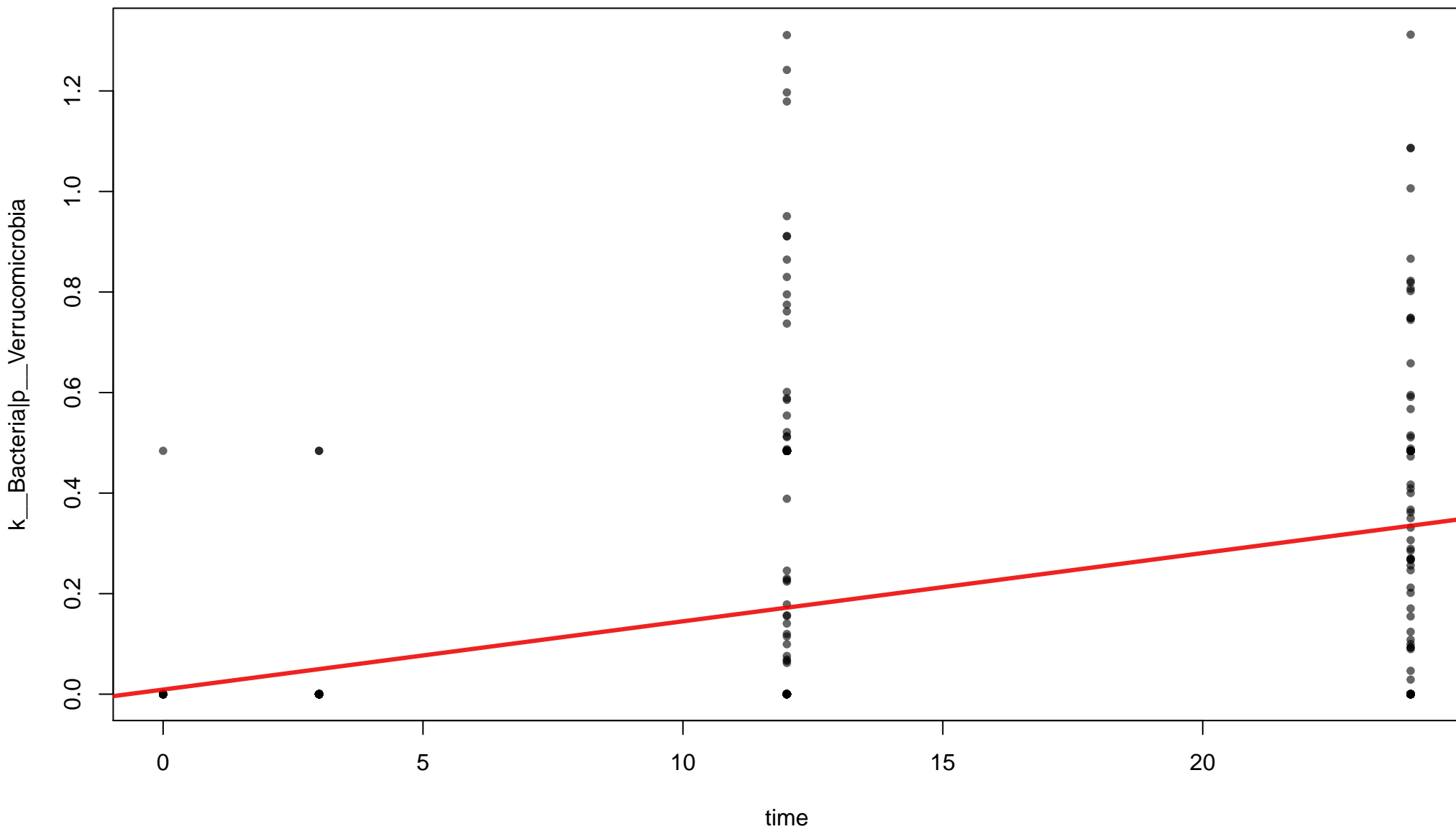
time (0.00574 sd 0.000415, p=2.19e-38, q=1.01e-36)



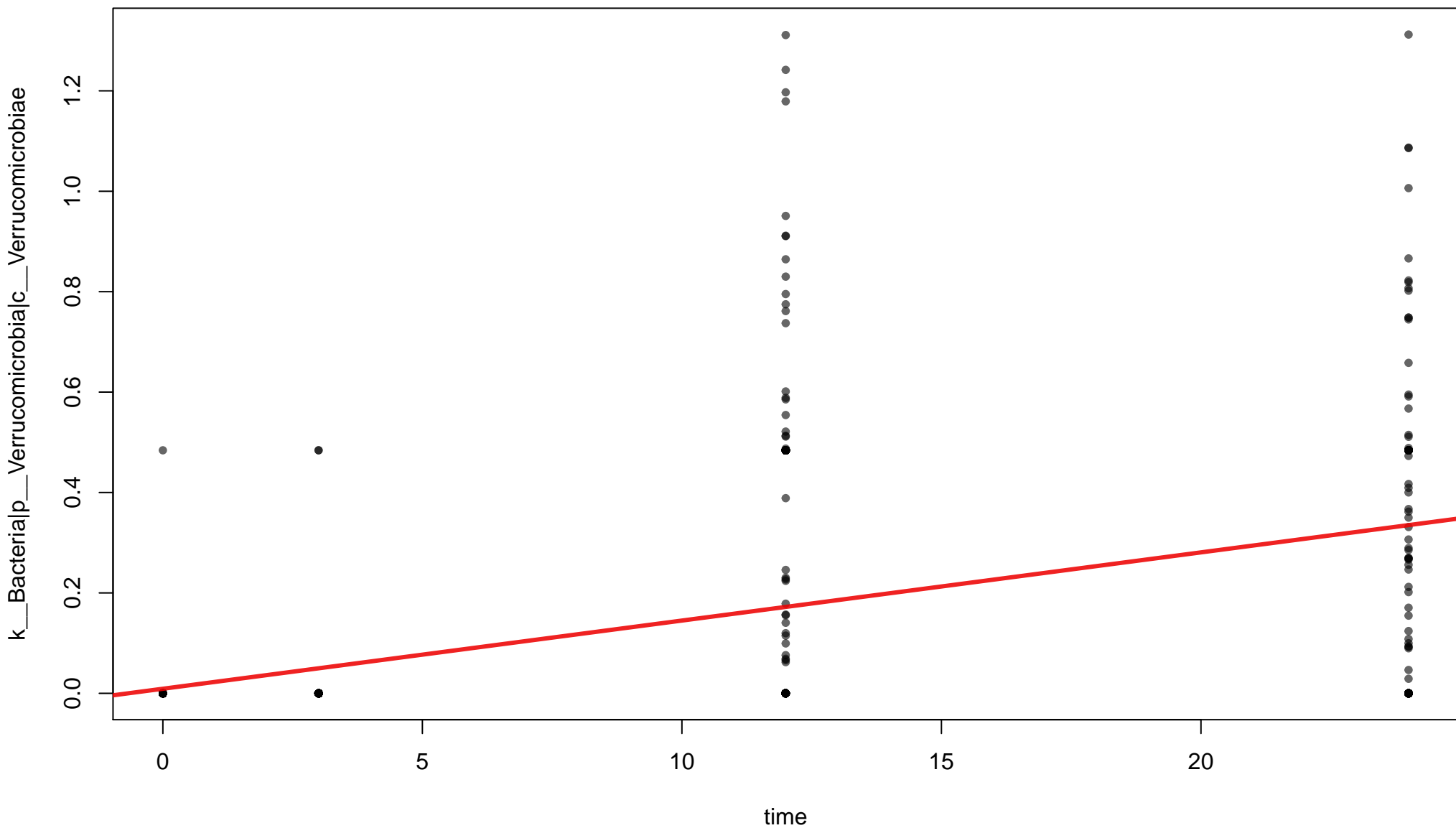
treptococcus|s\_\_Streptococcus\_australis|t\_\_Streptococcus\_australis|unclassified



time (0.0136 sd 0.000985, p=4.37e-38, q=1.83e-36)

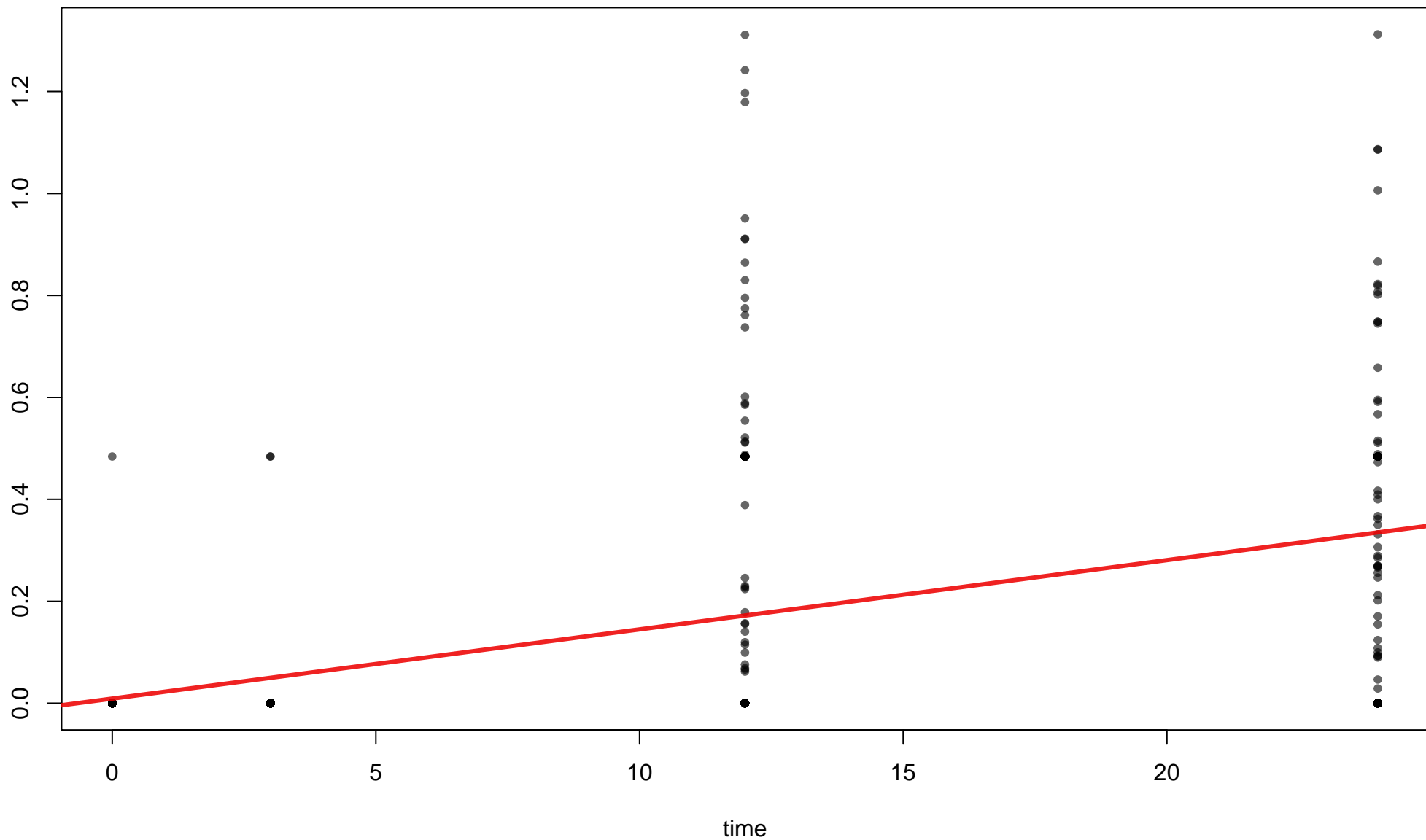


time (0.0136 sd 0.000985, p=4.37e-38, q=1.83e-36)

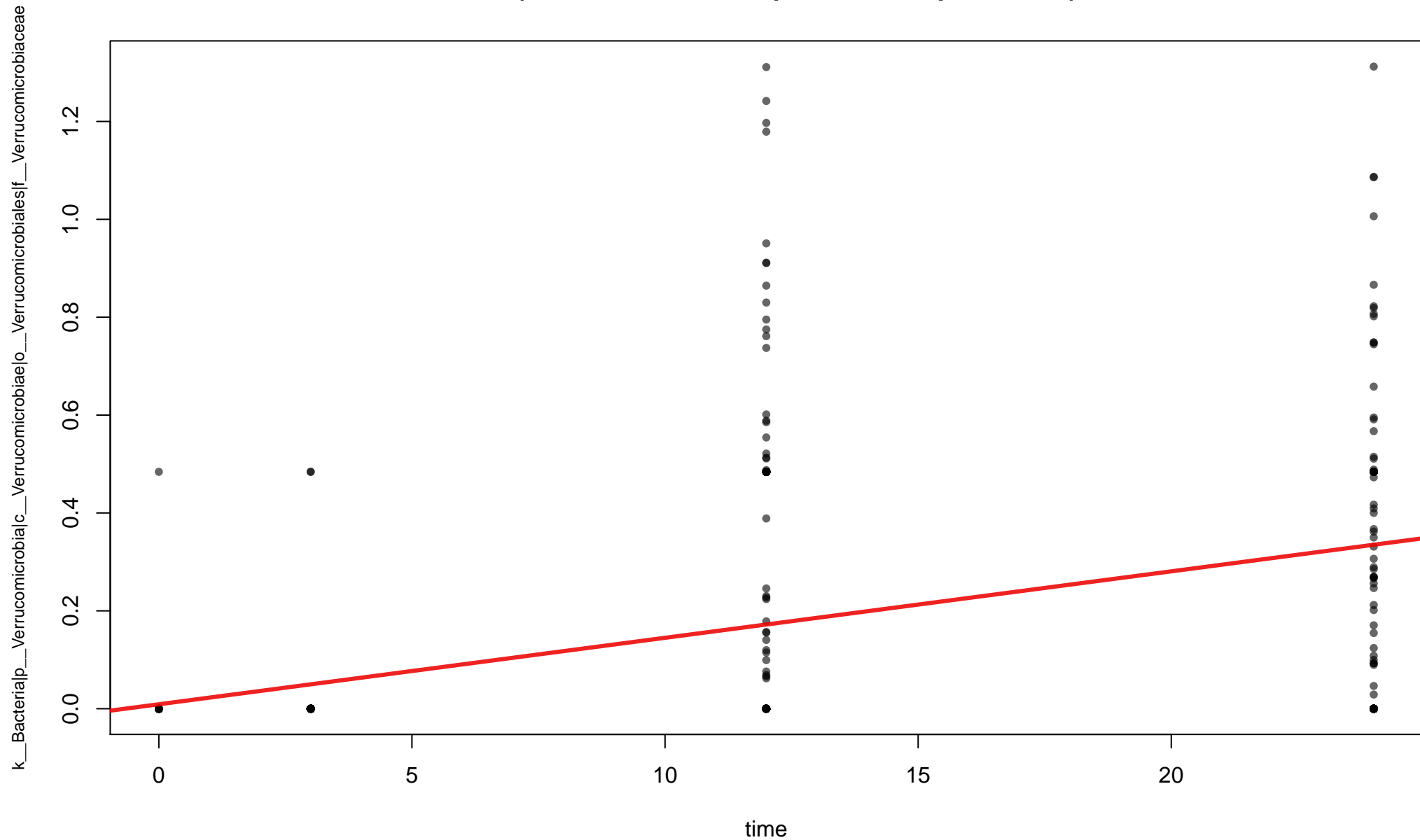


time (0.0136 sd 0.000985, p=4.37e-38, q=1.83e-36)

k\_Bacterialp\_\_Verrucomicrobia|c\_\_Verrucomicrobiae|o\_\_Verrucomicrobiales

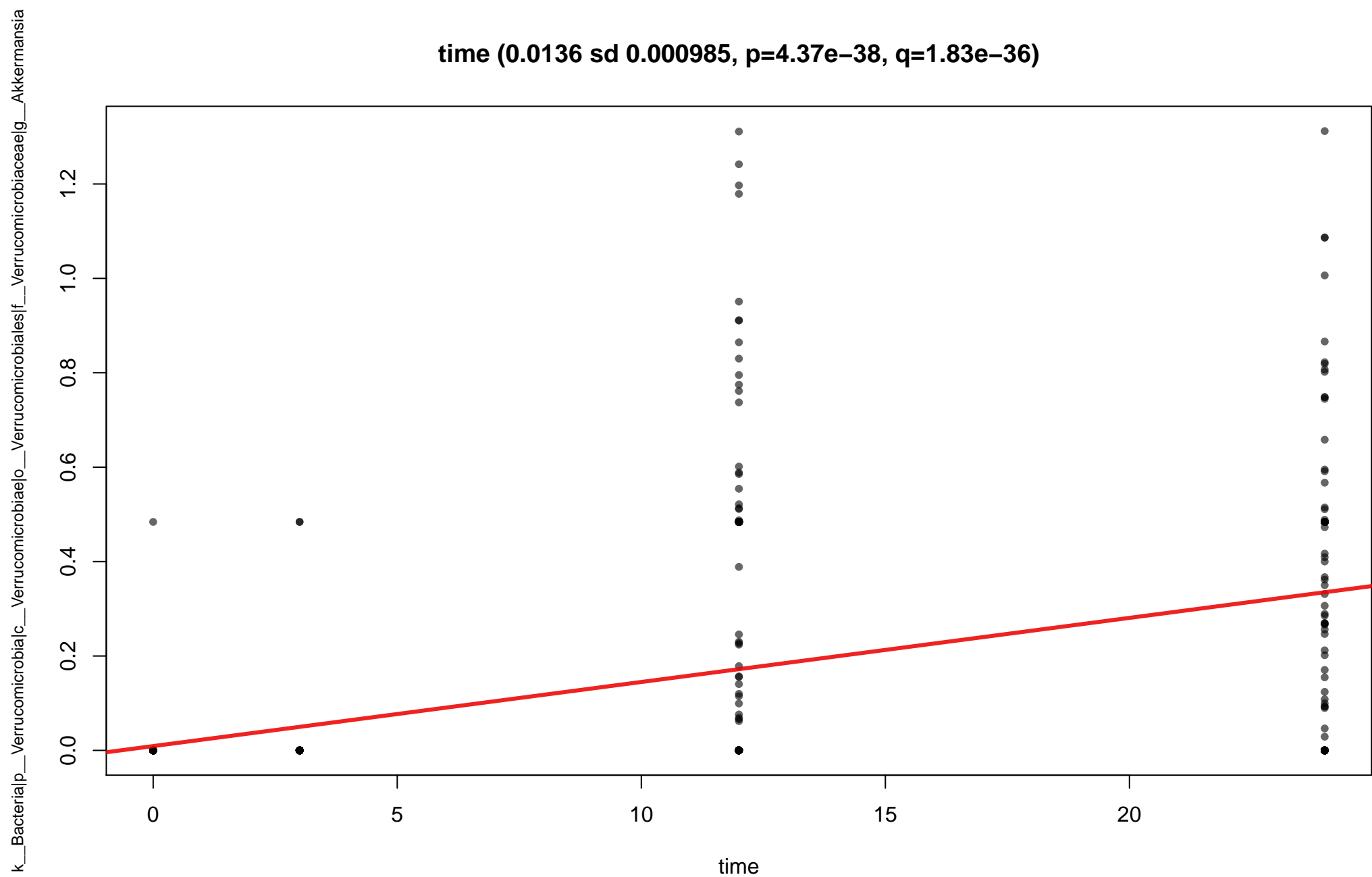


time (0.0136 sd 0.000985, p=4.37e-38, q=1.83e-36)



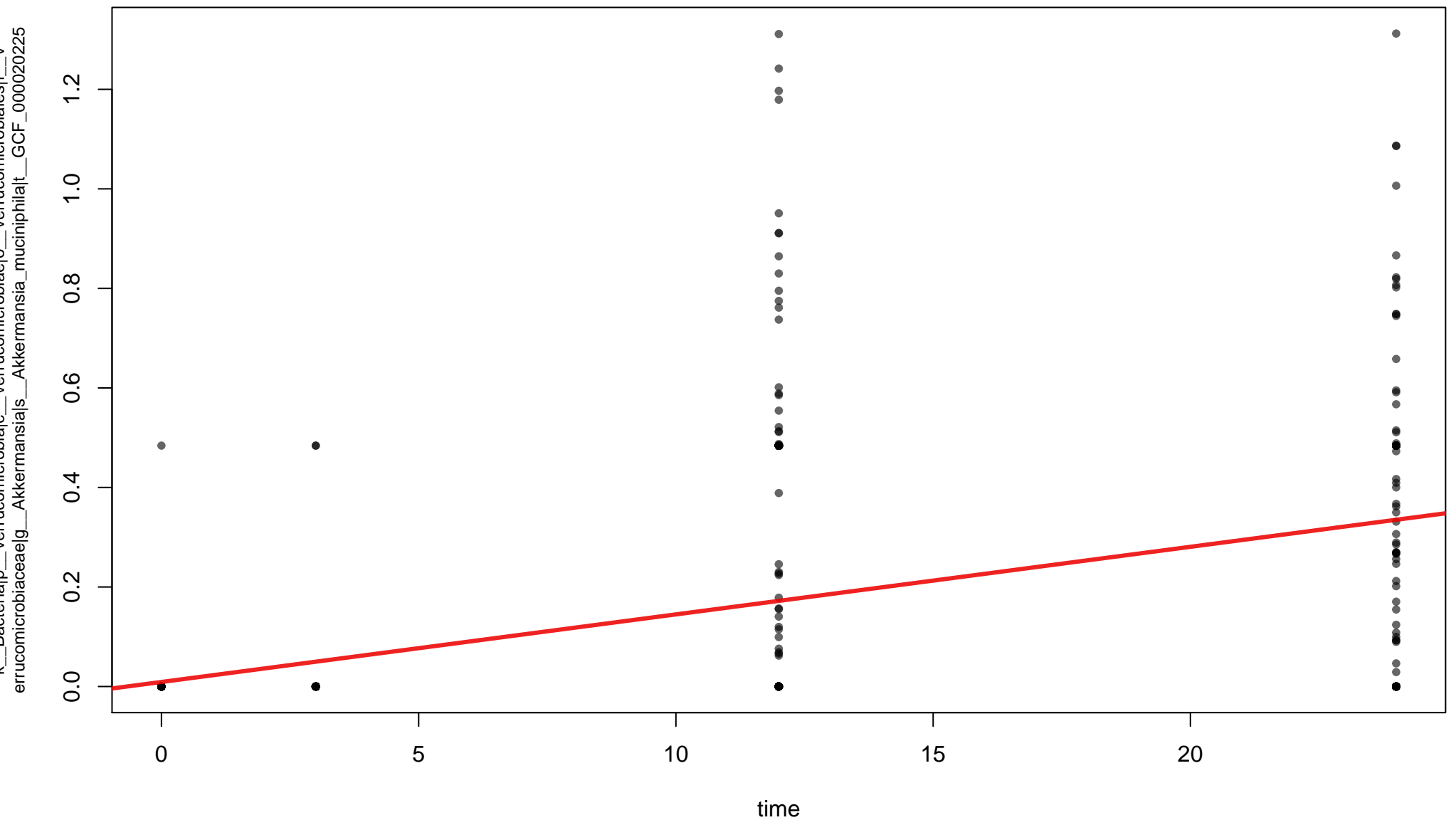


time (0.0136 sd 0.000985, p=4.37e-38, q=1.83e-36)

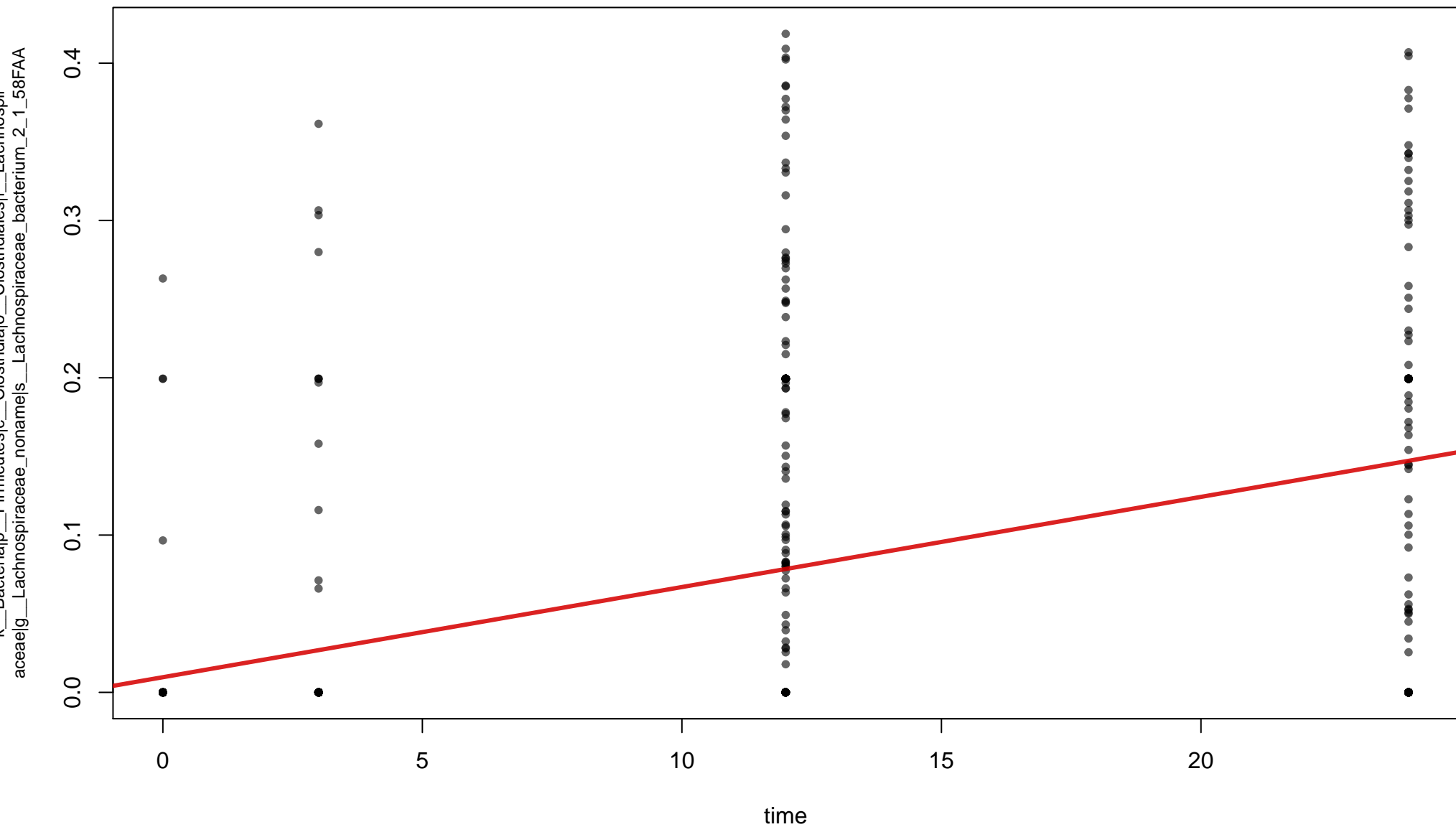




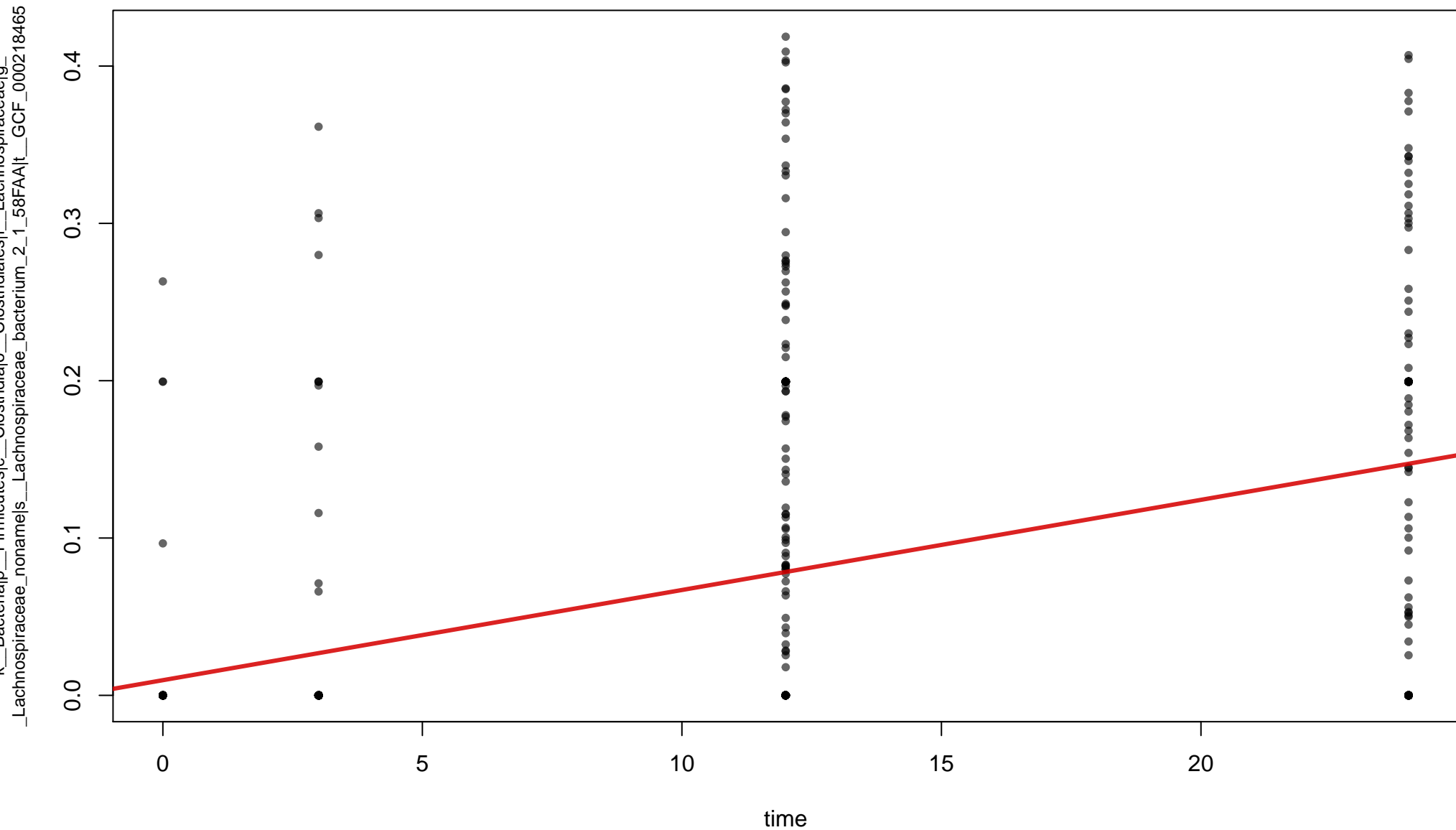
time (0.0136 sd 0.000985, p=4.37e-38, q=1.83e-36)



time (0.00574 sd 0.000422, p=3.08e-37, q=1.26e-35)

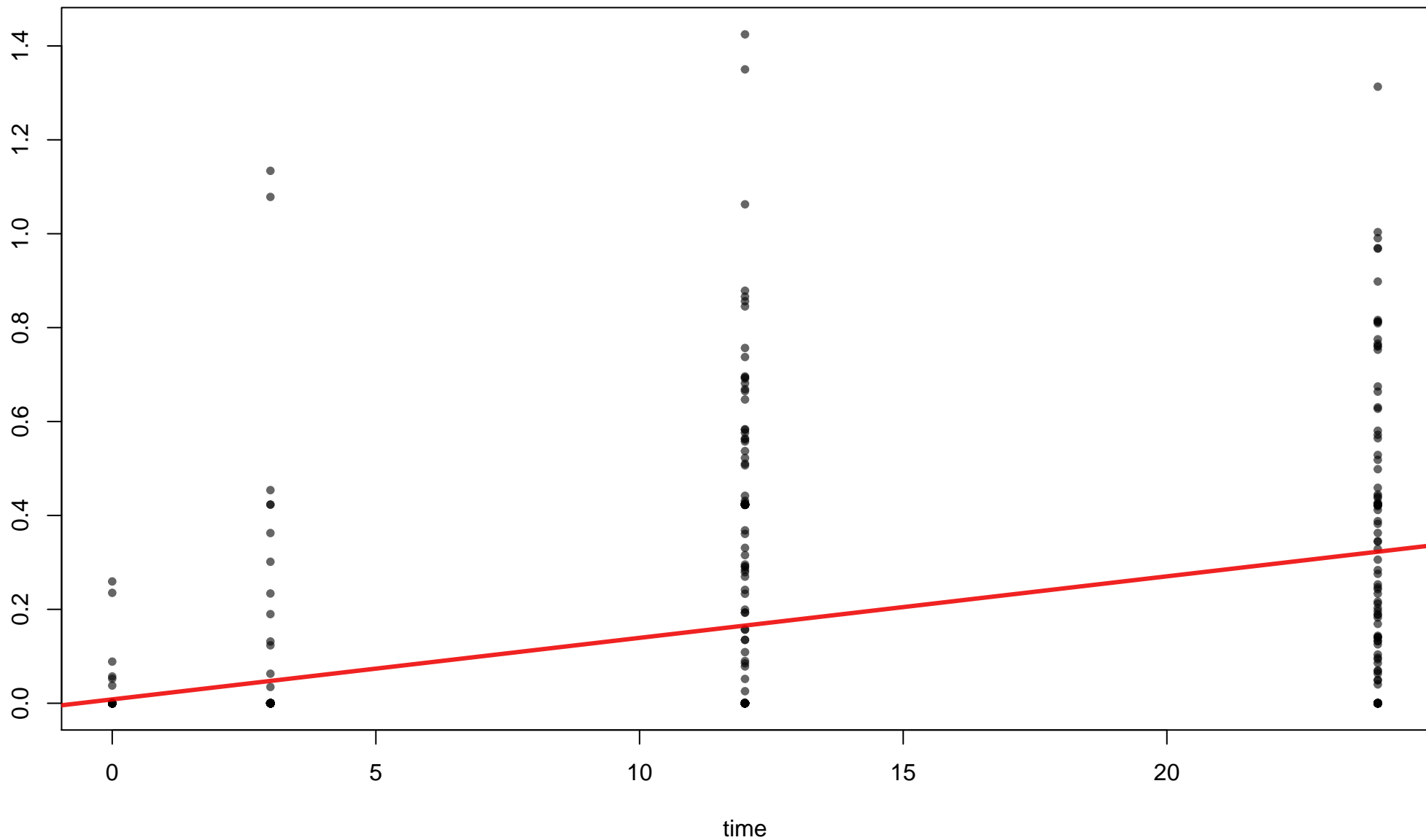


time (0.00574 sd 0.000422, p=3.08e-37, q=1.26e-35)

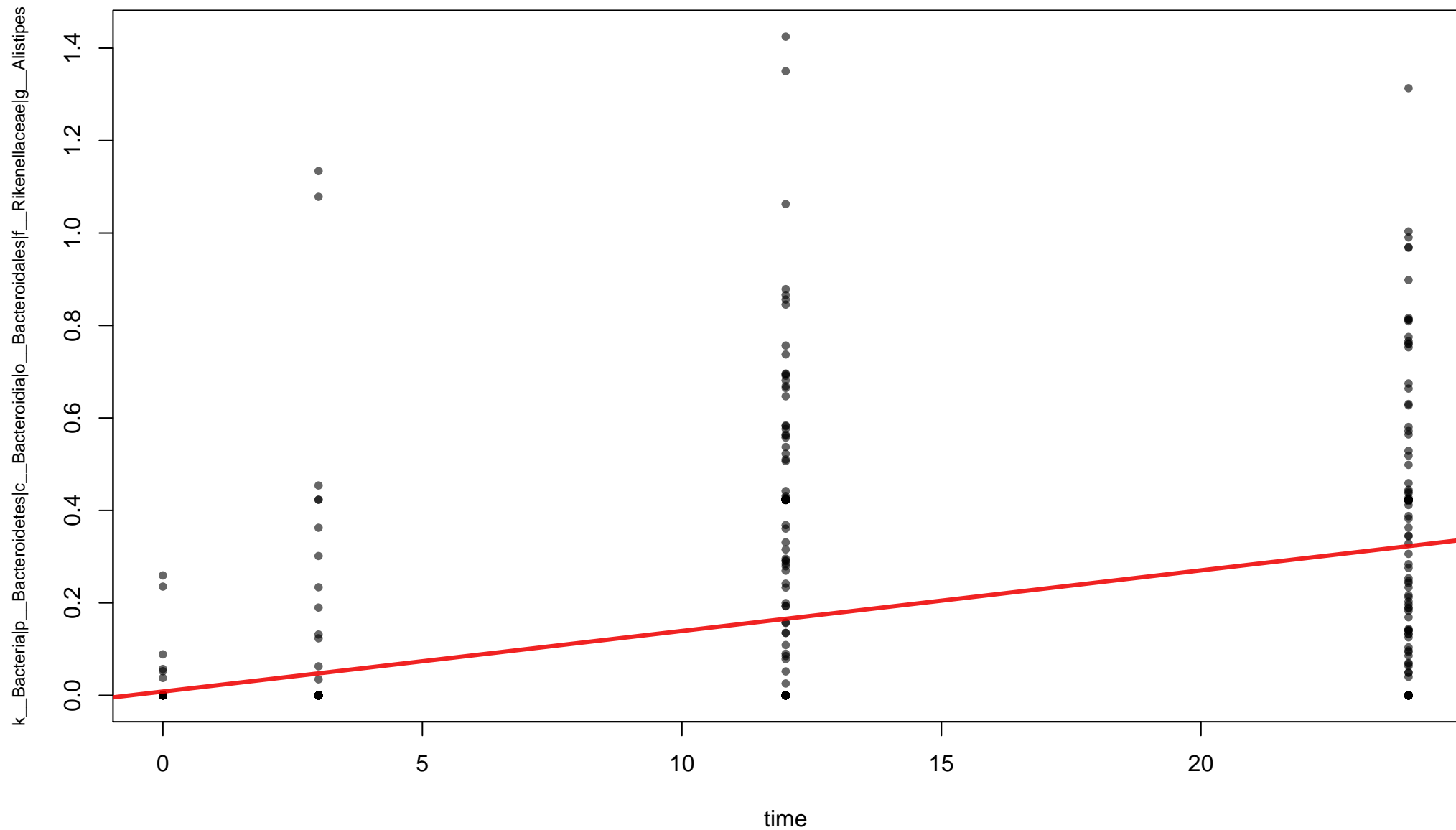


time (0.0131 sd 0.000964, p=3.31e-37, q=1.32e-35)

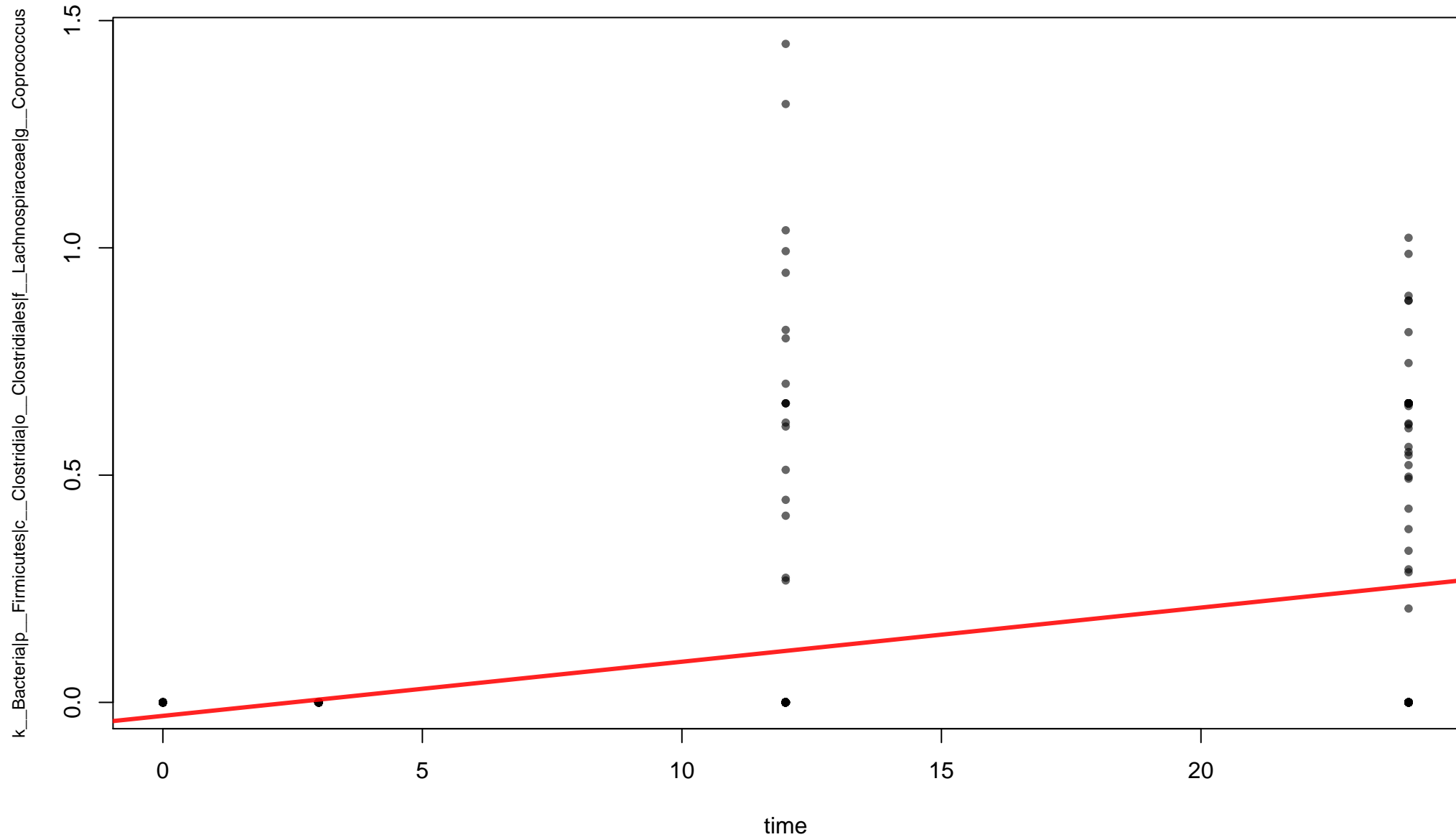
k\_\_Bacteria|p\_\_Bacteroidetes|c\_\_Bacteroidia|o\_\_Bacteroidales|f\_\_Rikenellaceae



time (0.0131 sd 0.000964, p=3.31e-37, q=1.32e-35)

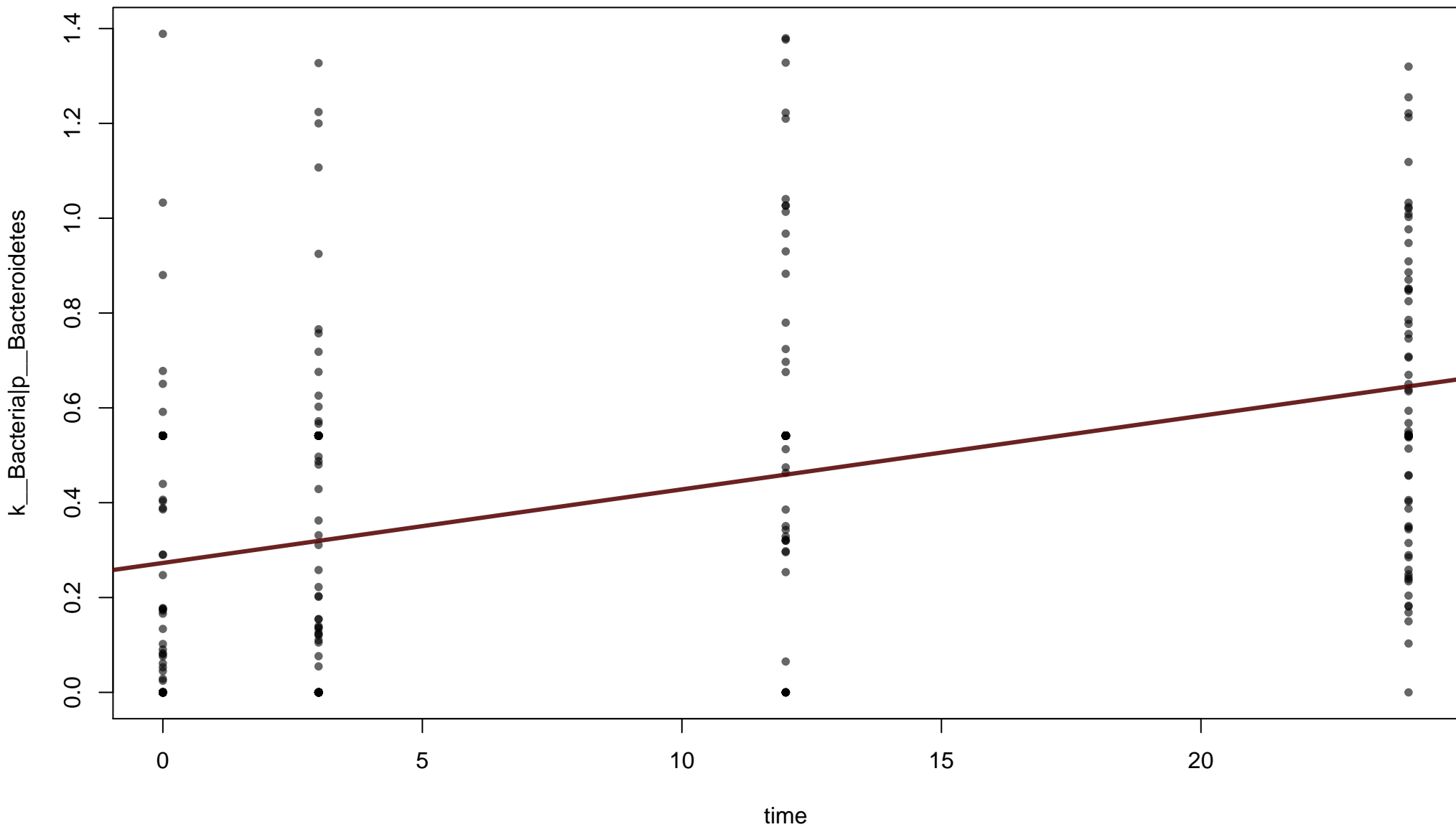


time (0.0119 sd 0.000886, p=1.8e-36, q=7.06e-35)

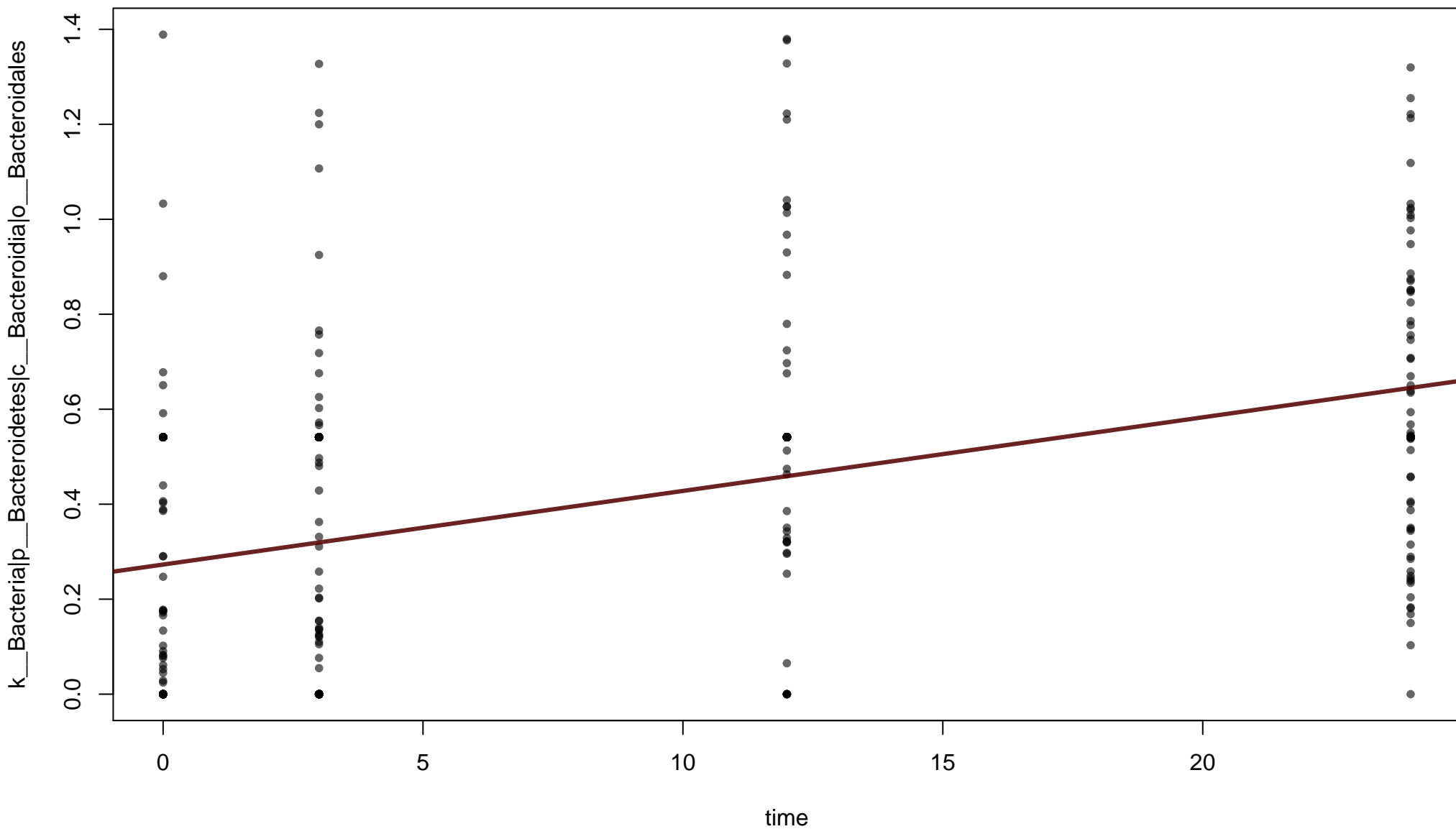




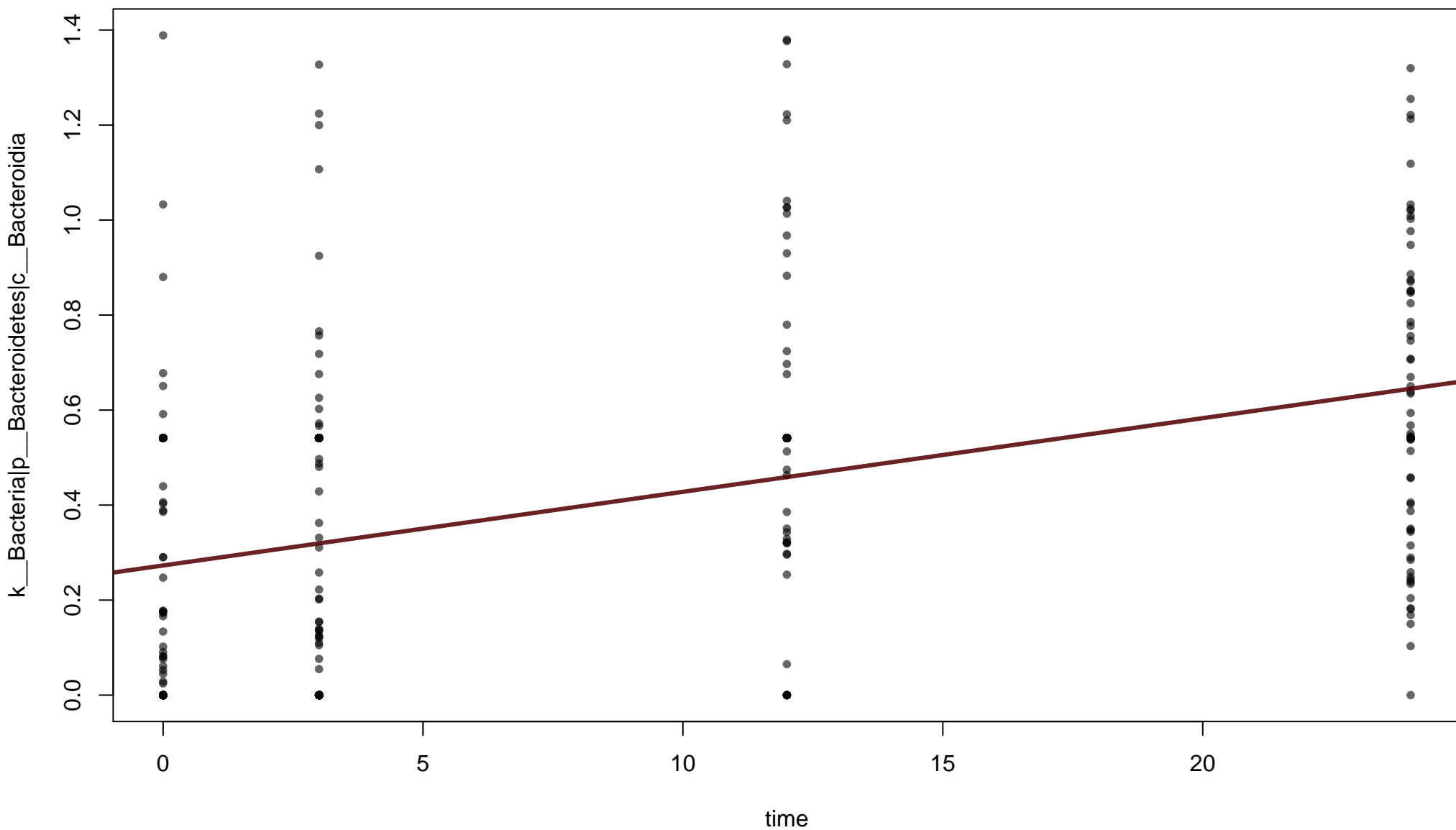
time (0.0156 sd 0.00118, p=3.5e-35, q=1.36e-33)



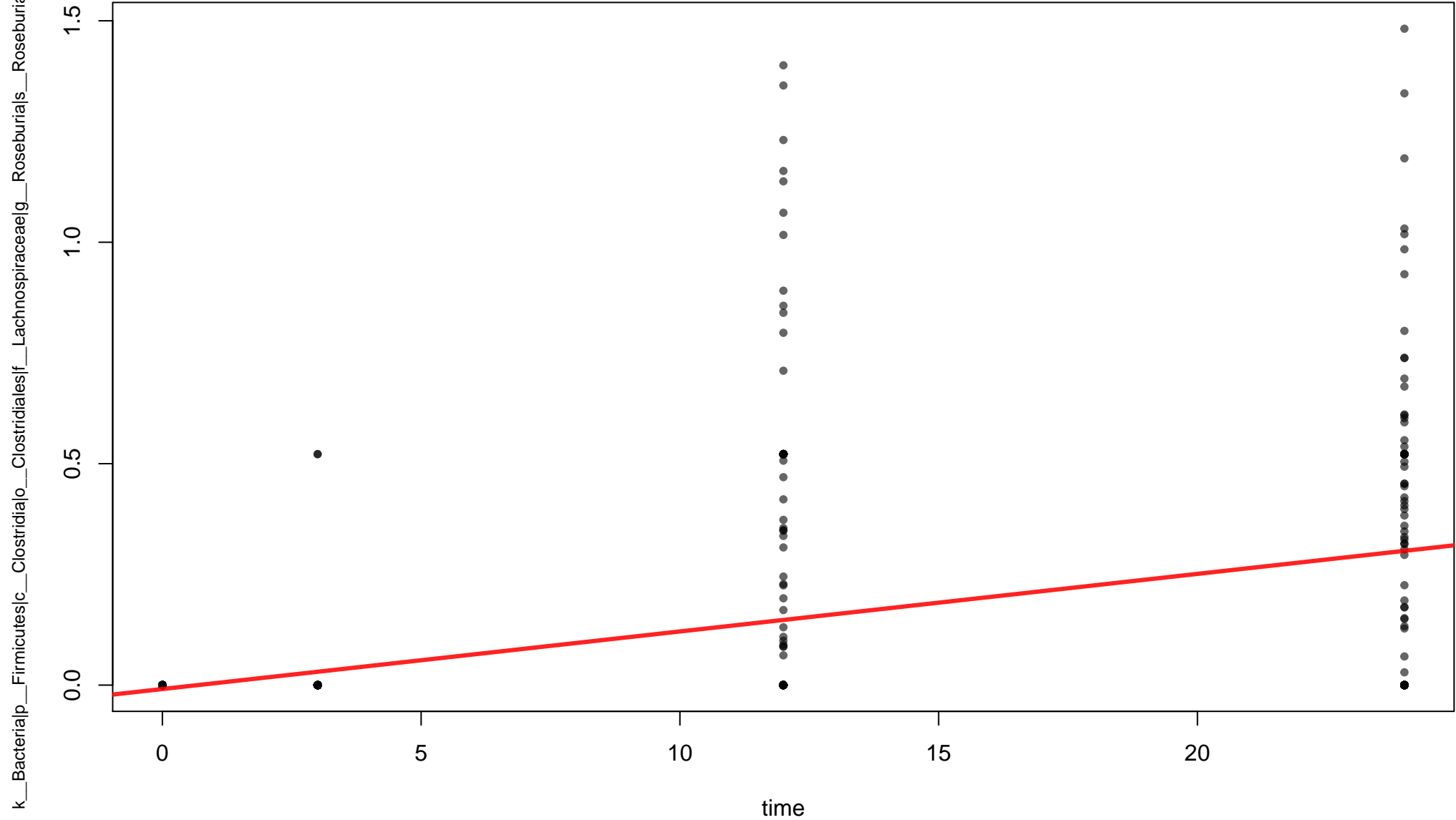
time (0.0156 sd 0.00118, p=3.76e-35, q=1.44e-33)



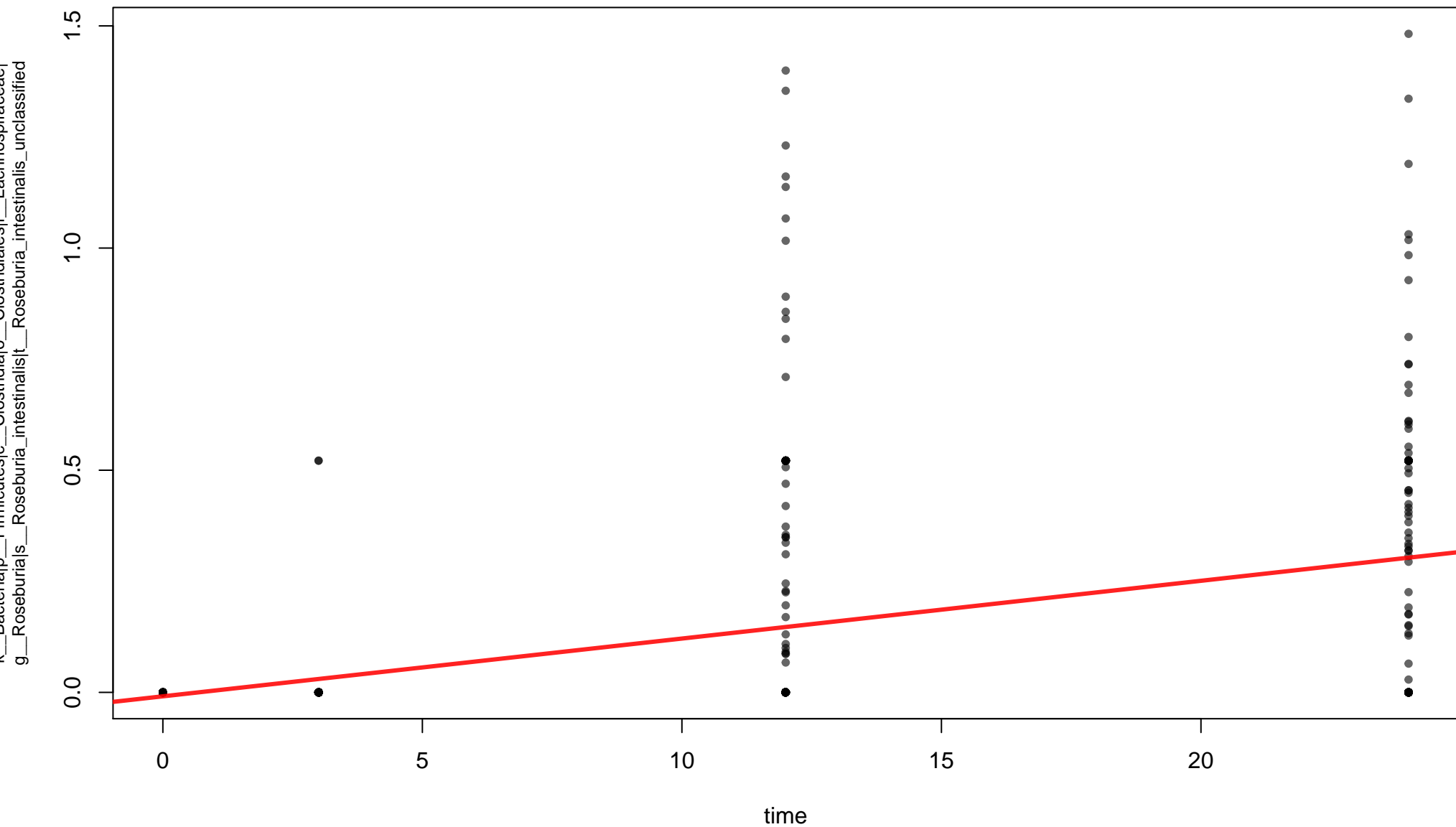
time (0.0155 sd 0.00118, p=3.89e-35, q=1.47e-33)



time (0.013 sd 0.000991, p=6.11e-35, q=2.26e-33)

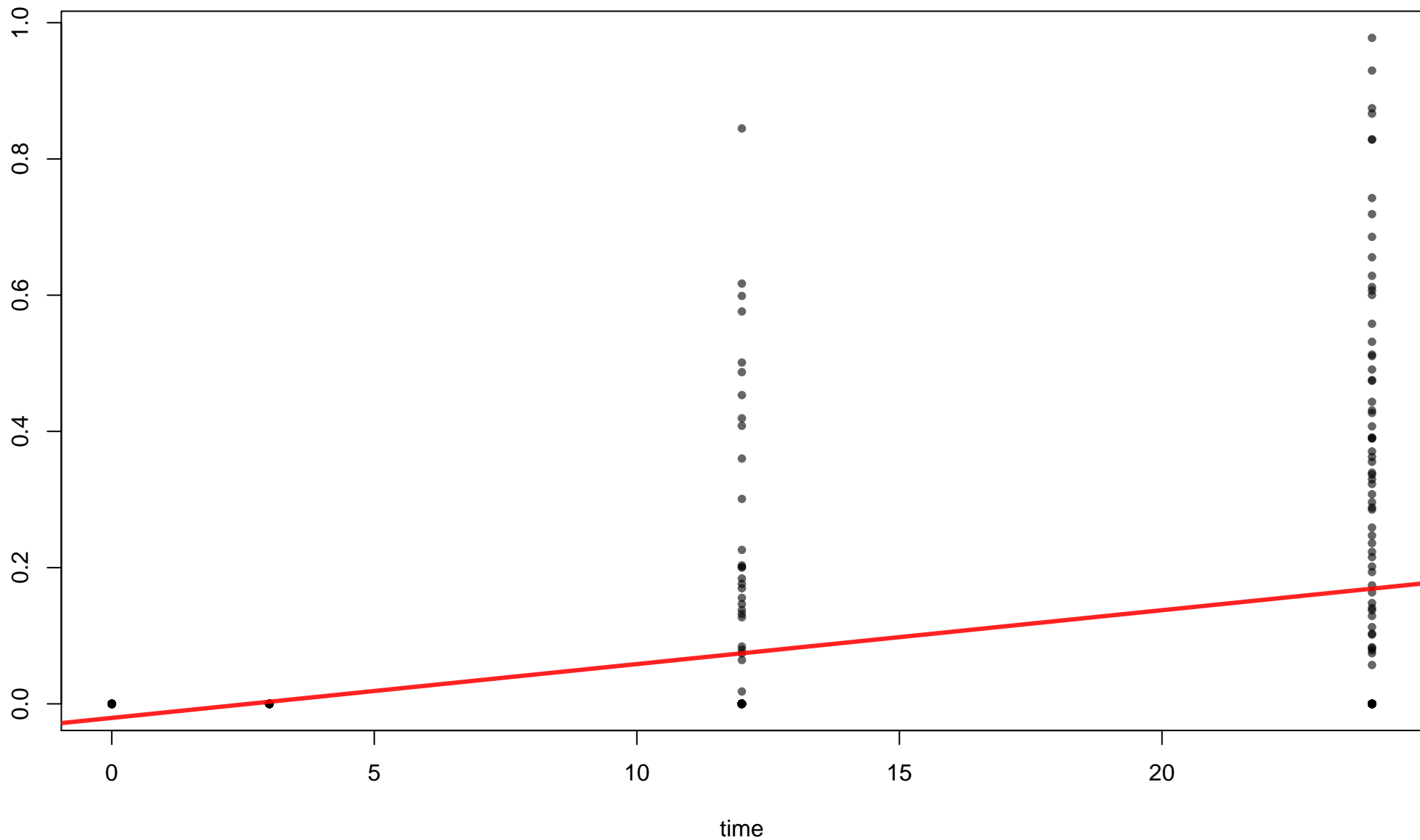


time (0.013 sd 0.000991, p=6.11e-35, q=2.26e-33)

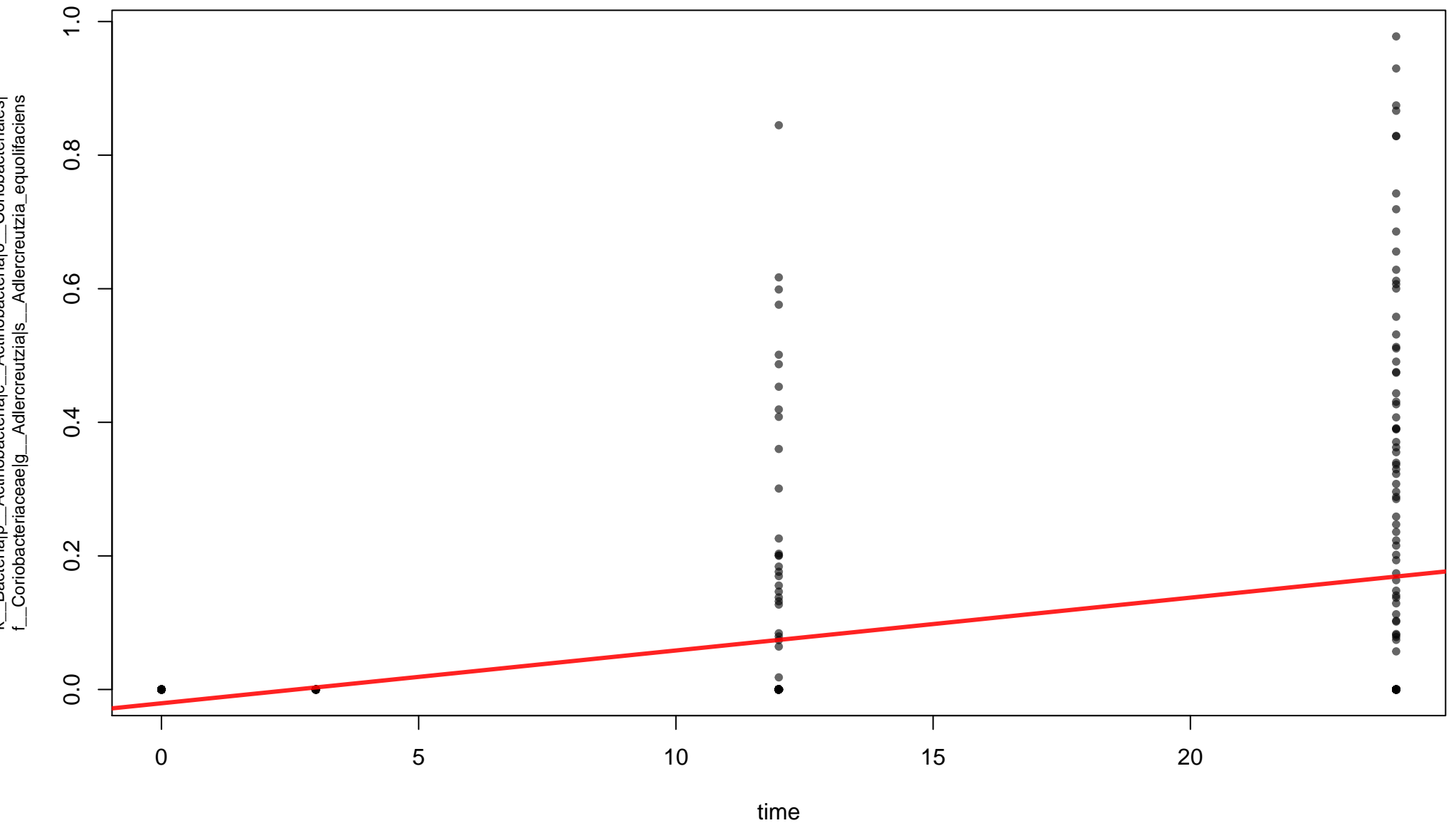


time (0.0079 sd 0.000612, p=4.25e-34, q=1.52e-32)

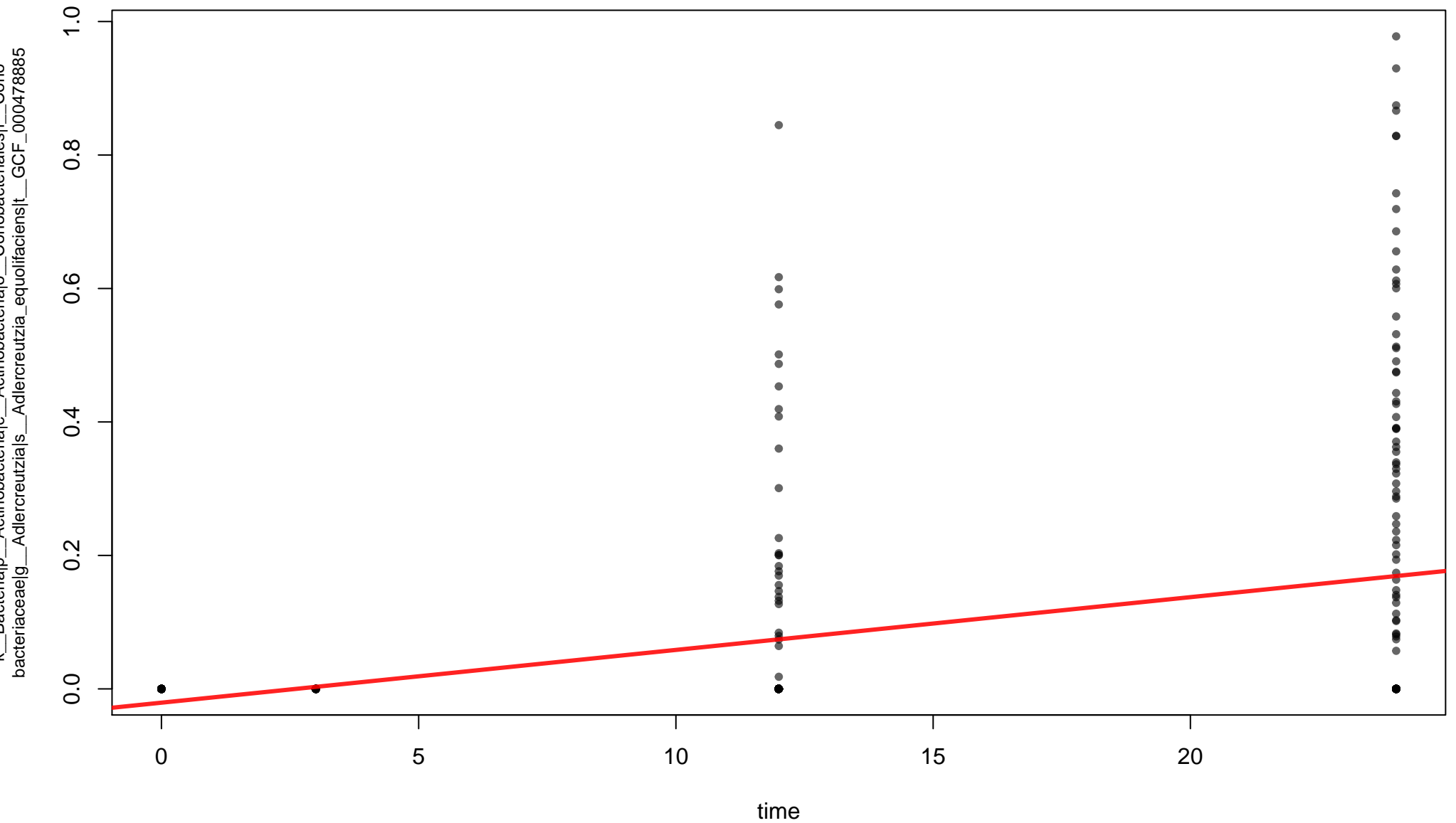
k\_Bacteria|p\_Actinobacteria|c\_Actinobacteria|o\_Coriobacteriales|f\_Coriobacteriaceae|g\_Adlercreutzia



time (0.0079 sd 0.000612, p=4.25e-34, q=1.52e-32)

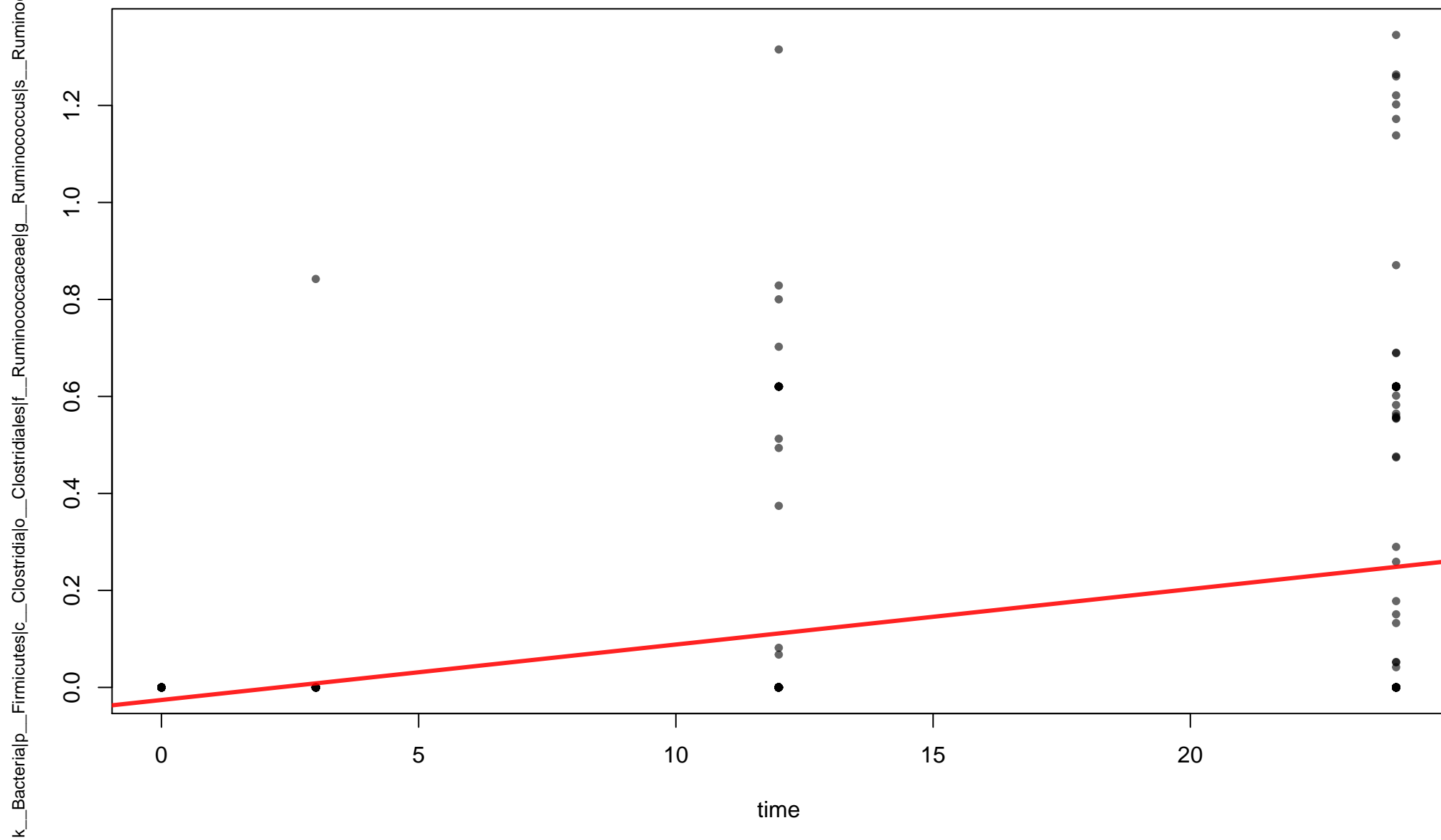


**time (0.0079 sd 0.000612, p=4.25e-34, q=1.52e-32)**

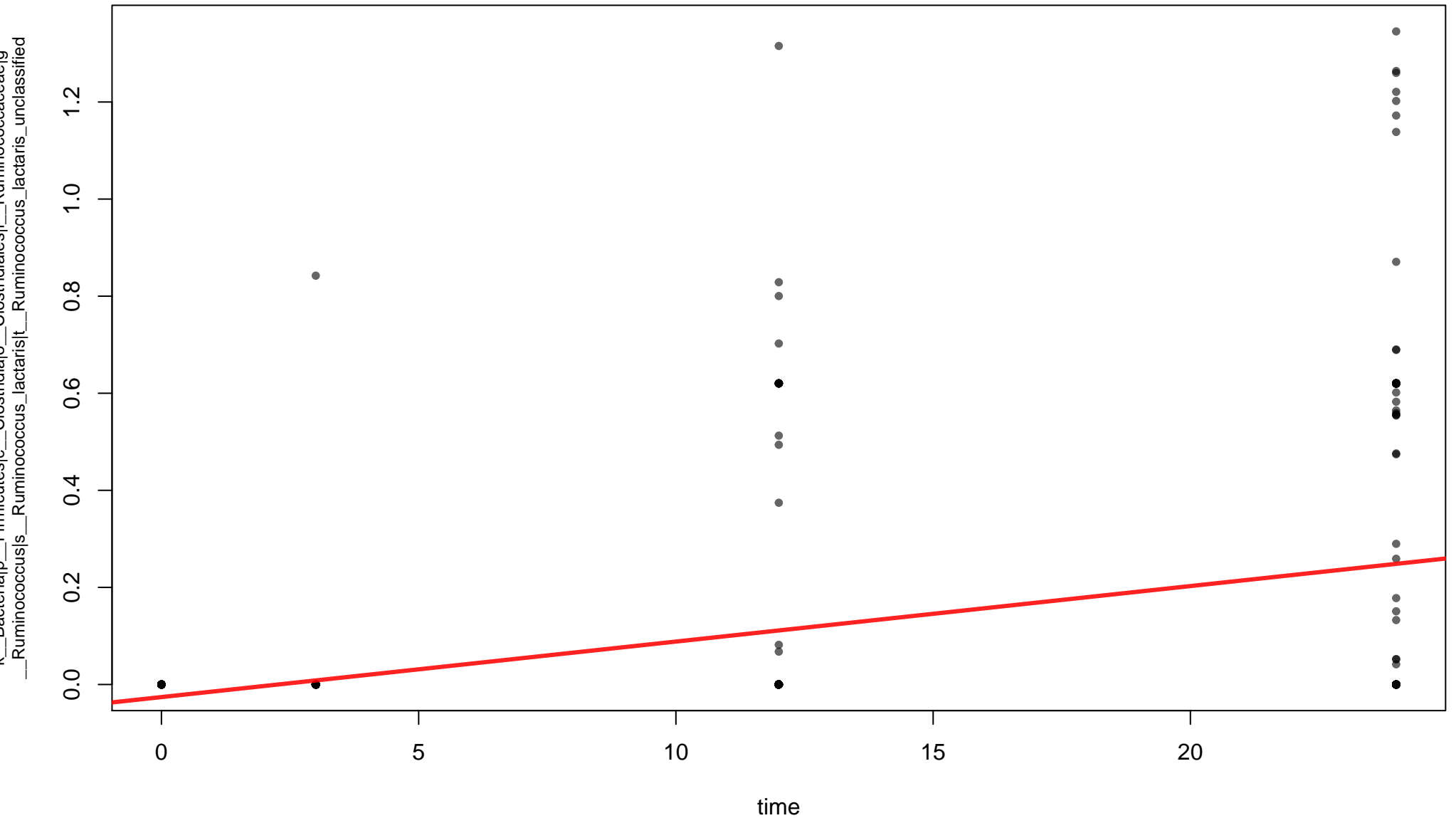




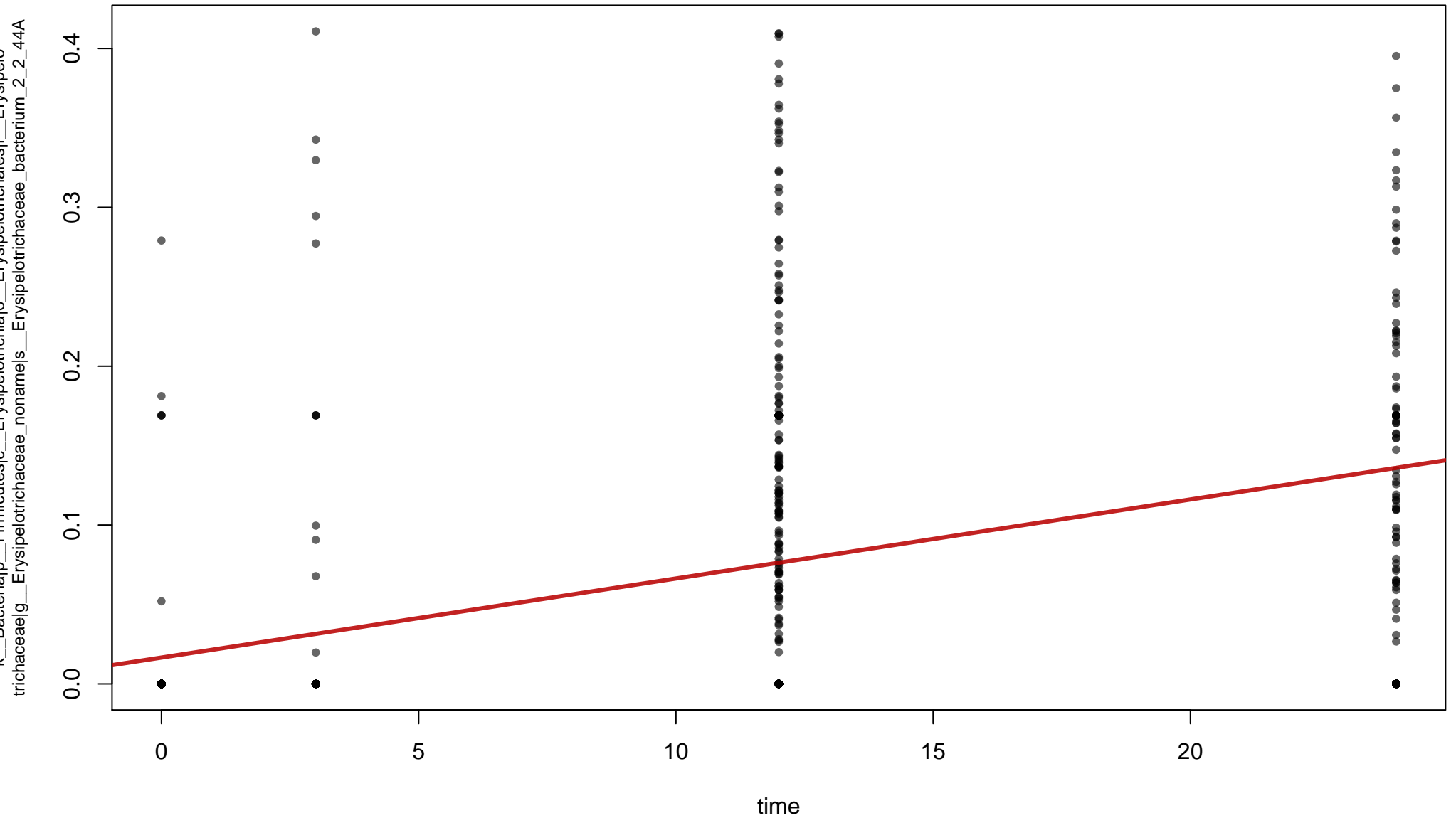
time (0.0115 sd 0.000909, p=1.05e-32, q=3.66e-31)



**time (0.0115 sd 0.000909, p=1.05e-32, q=3.66e-31)**

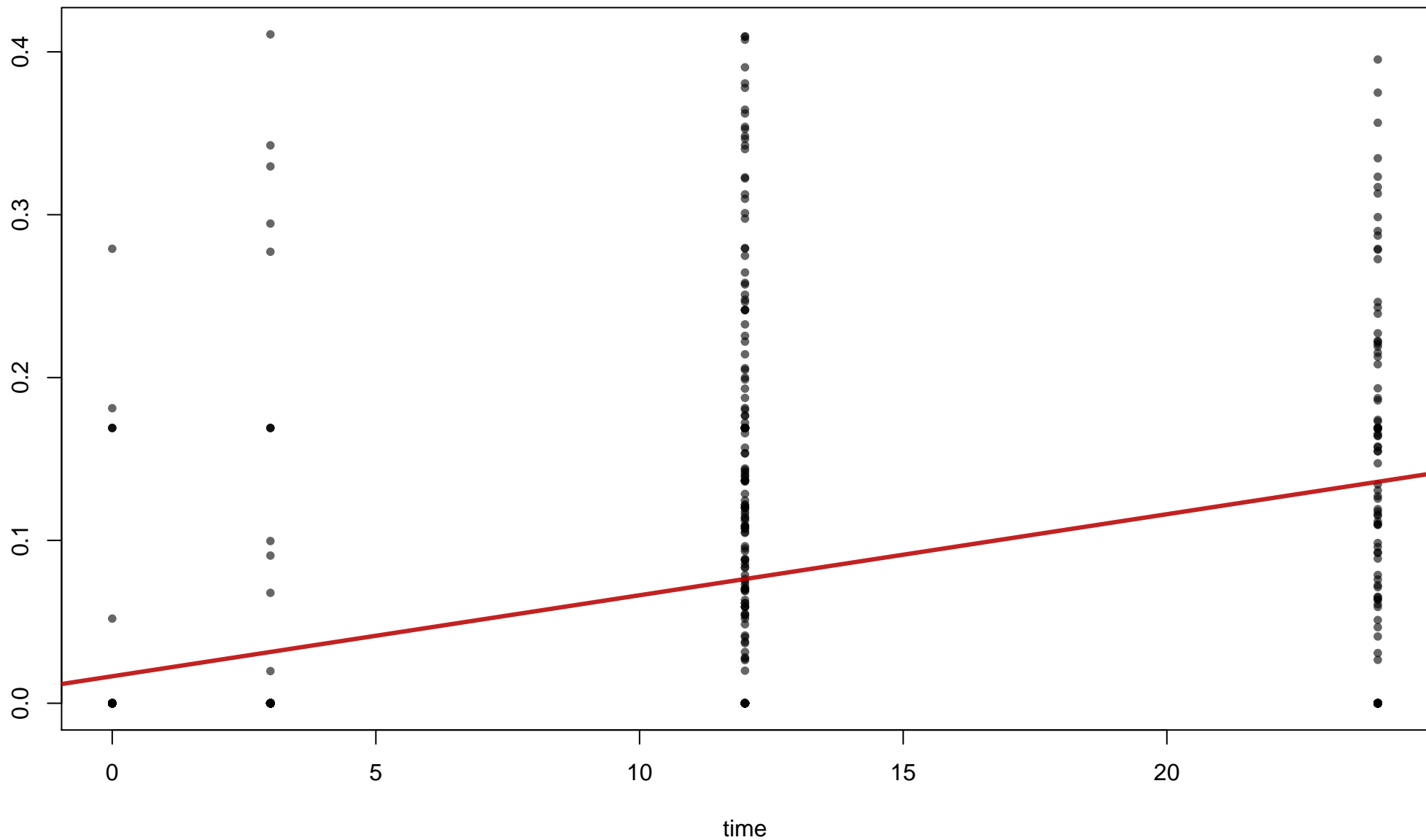


**time (0.00498 sd 0.000406, p=3.21e-31, q=1.1e-29)**

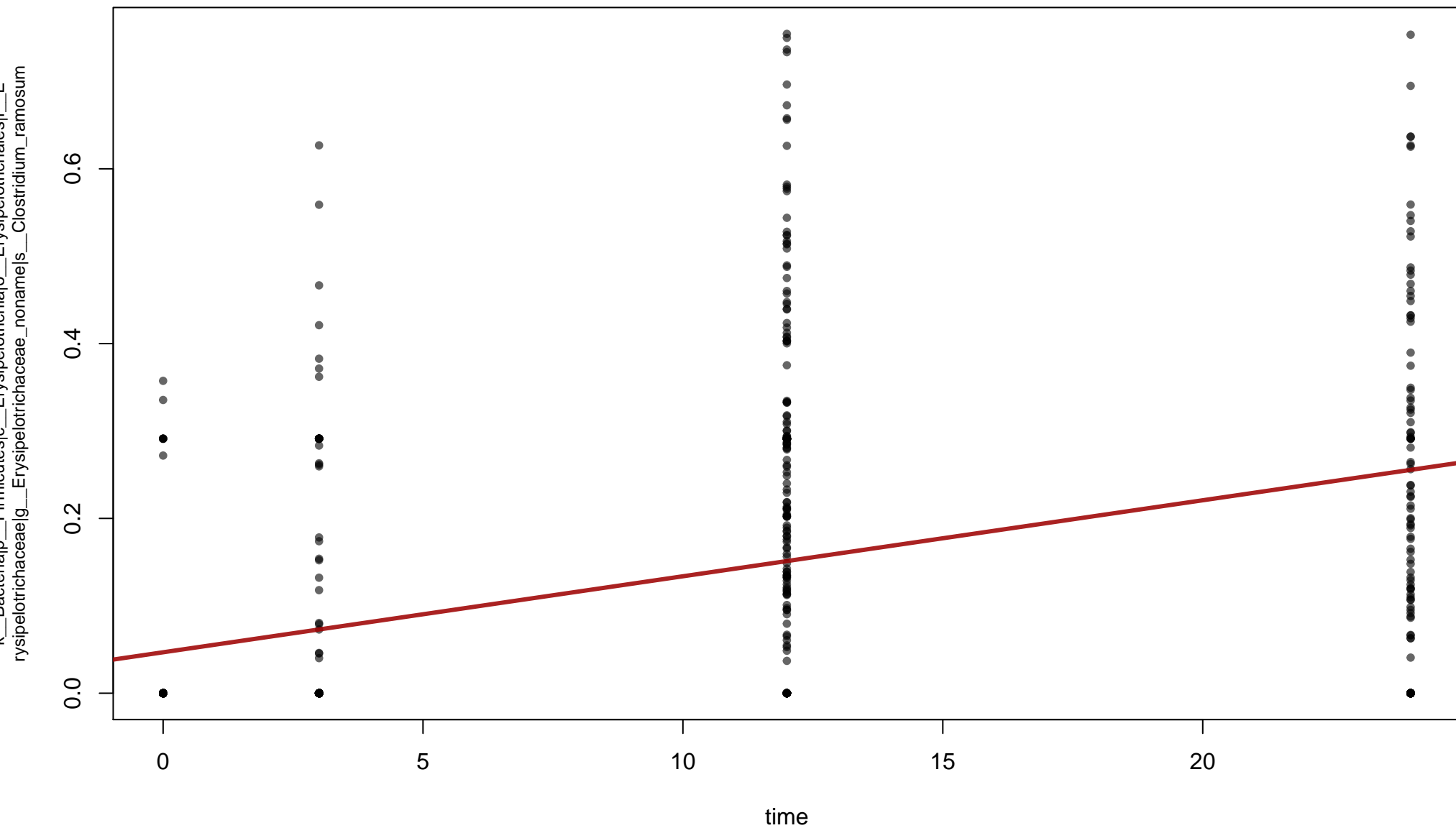


time (0.00498 sd 0.000406, p=3.21e-31, q=1.1e-29)

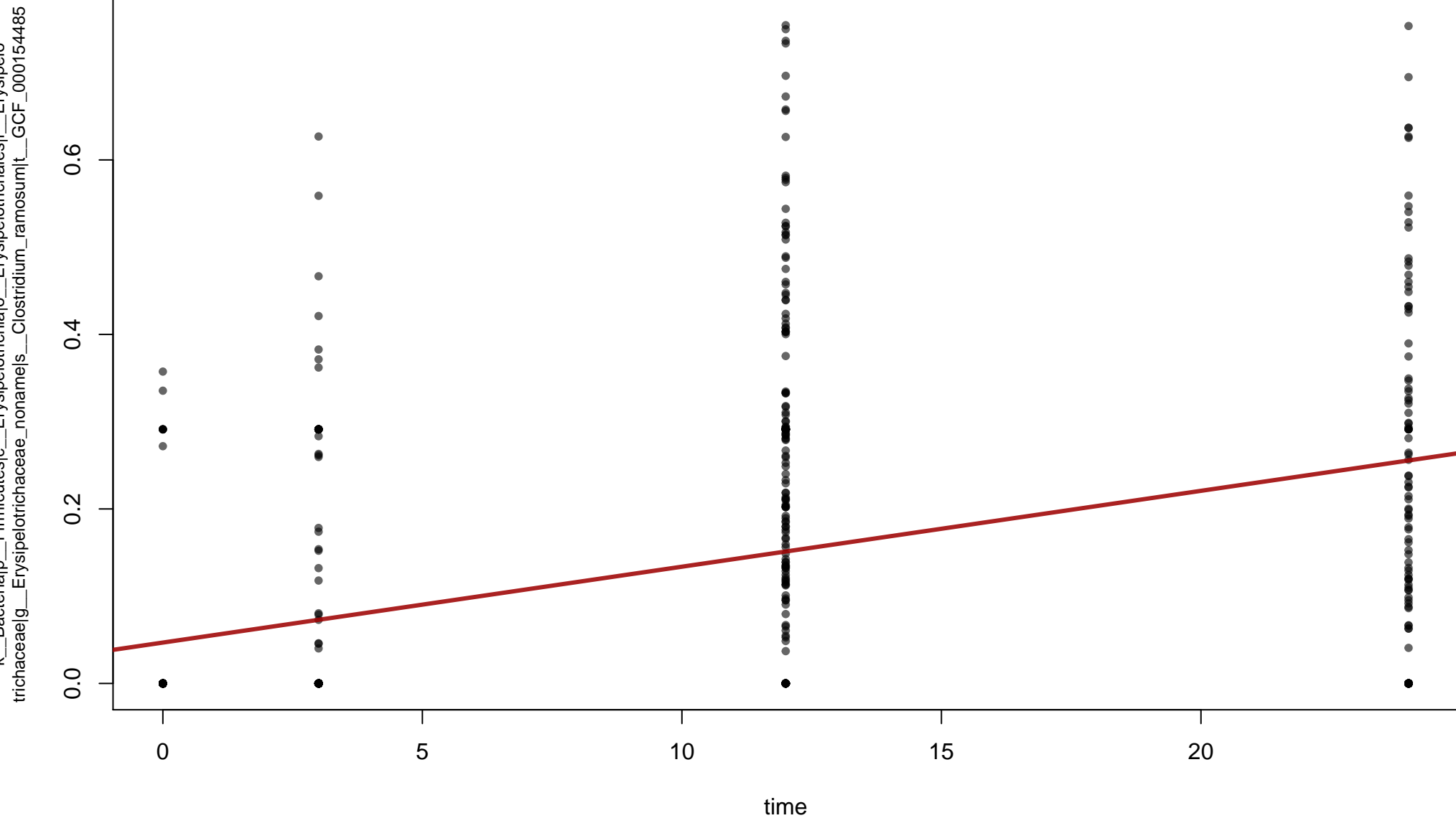
elg\_Erysipelotrichaceae\_noname|s\_Erysipelotrichaceae\_bacterium\_2\_2\_44A|t\_GCF\_000225685



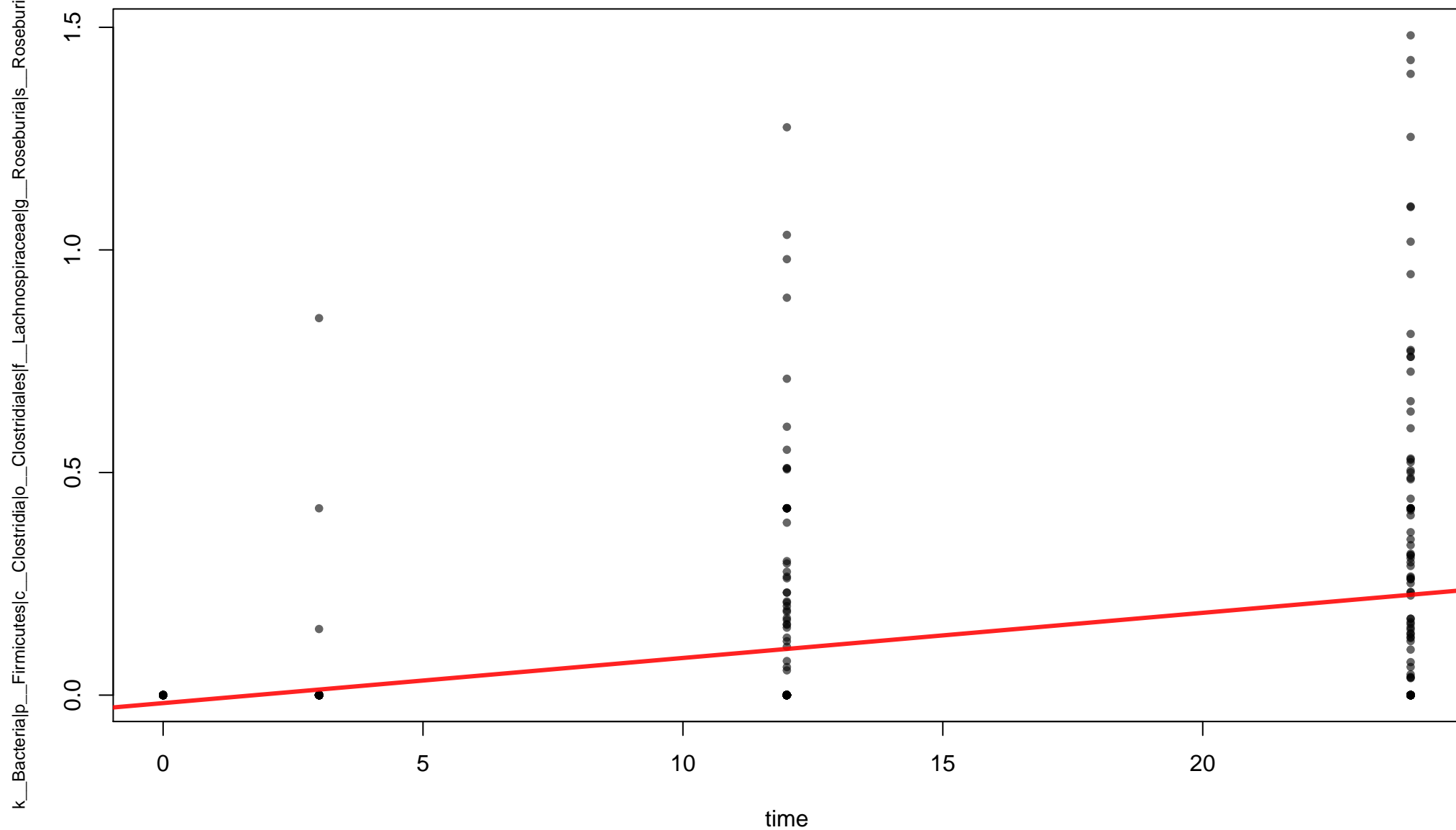
time (0.00872 sd 0.000731, p=9.17e-30, q=3.06e-28)



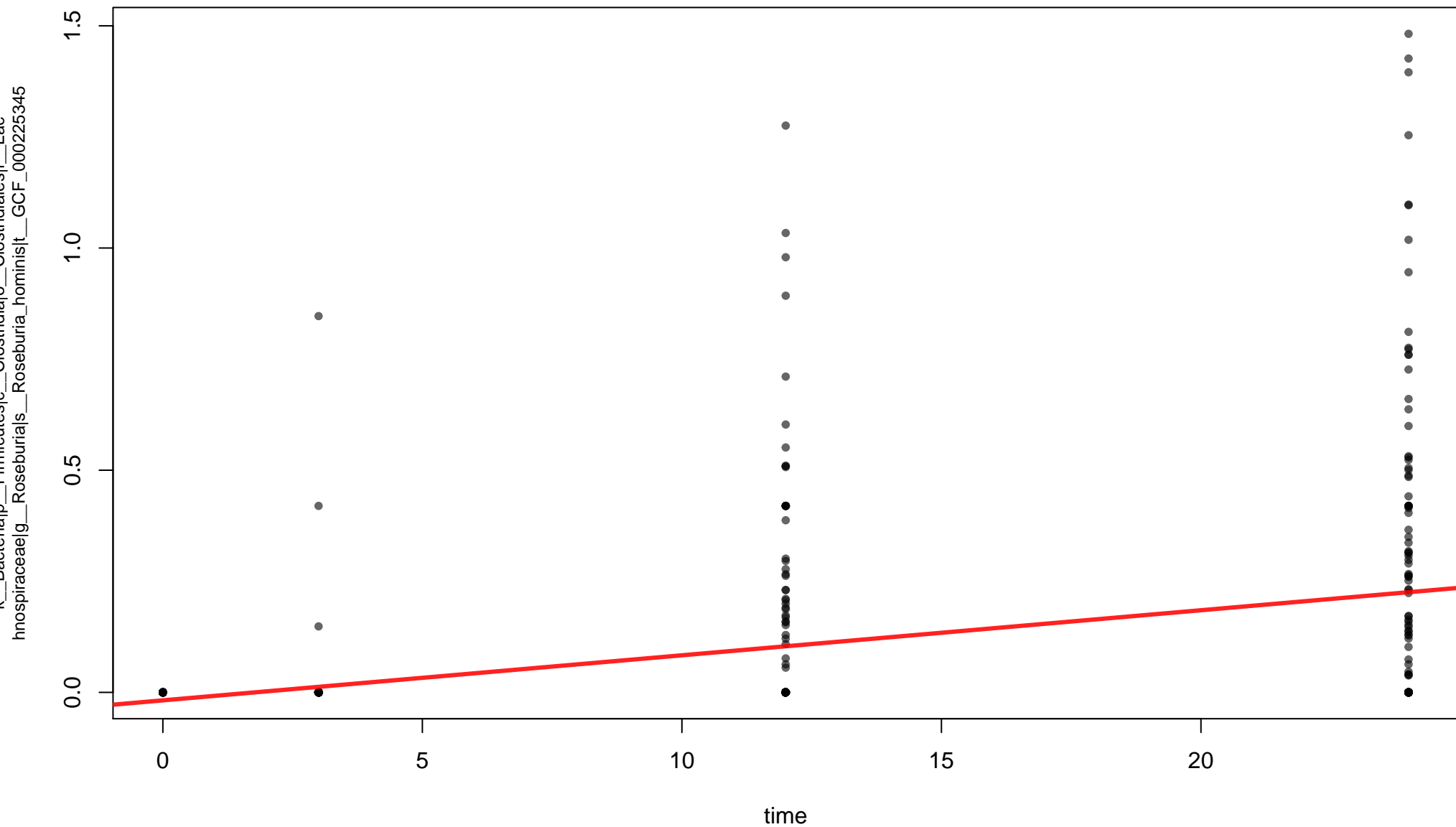
time (0.00872 sd 0.000731, p=9.17e-30, q=3.06e-28)



time (0.0101 sd 0.000853, p=1.39e-29, q=4.54e-28)

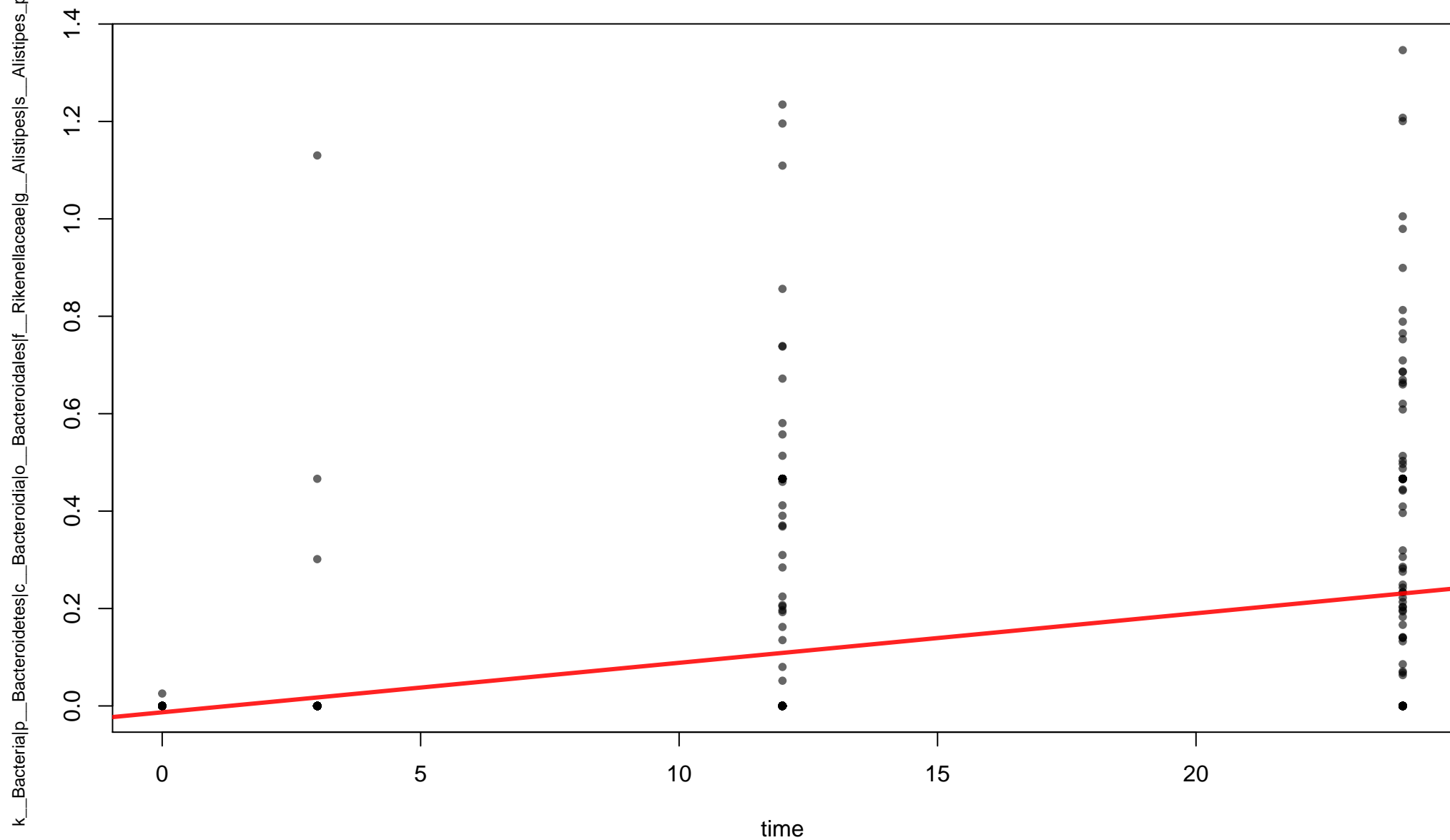


time (0.0101 sd 0.000853, p=1.39e-29, q=4.54e-28)

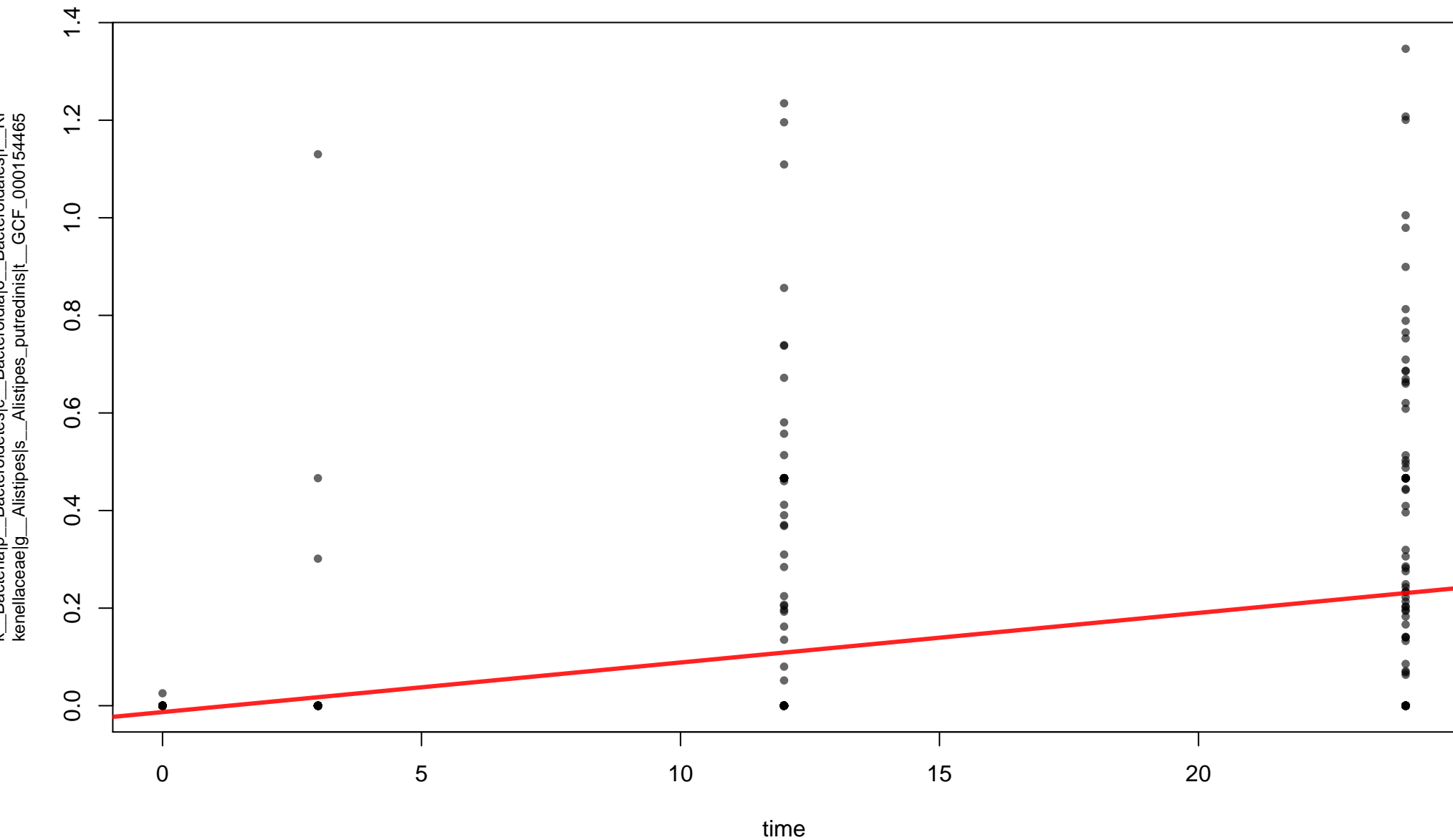




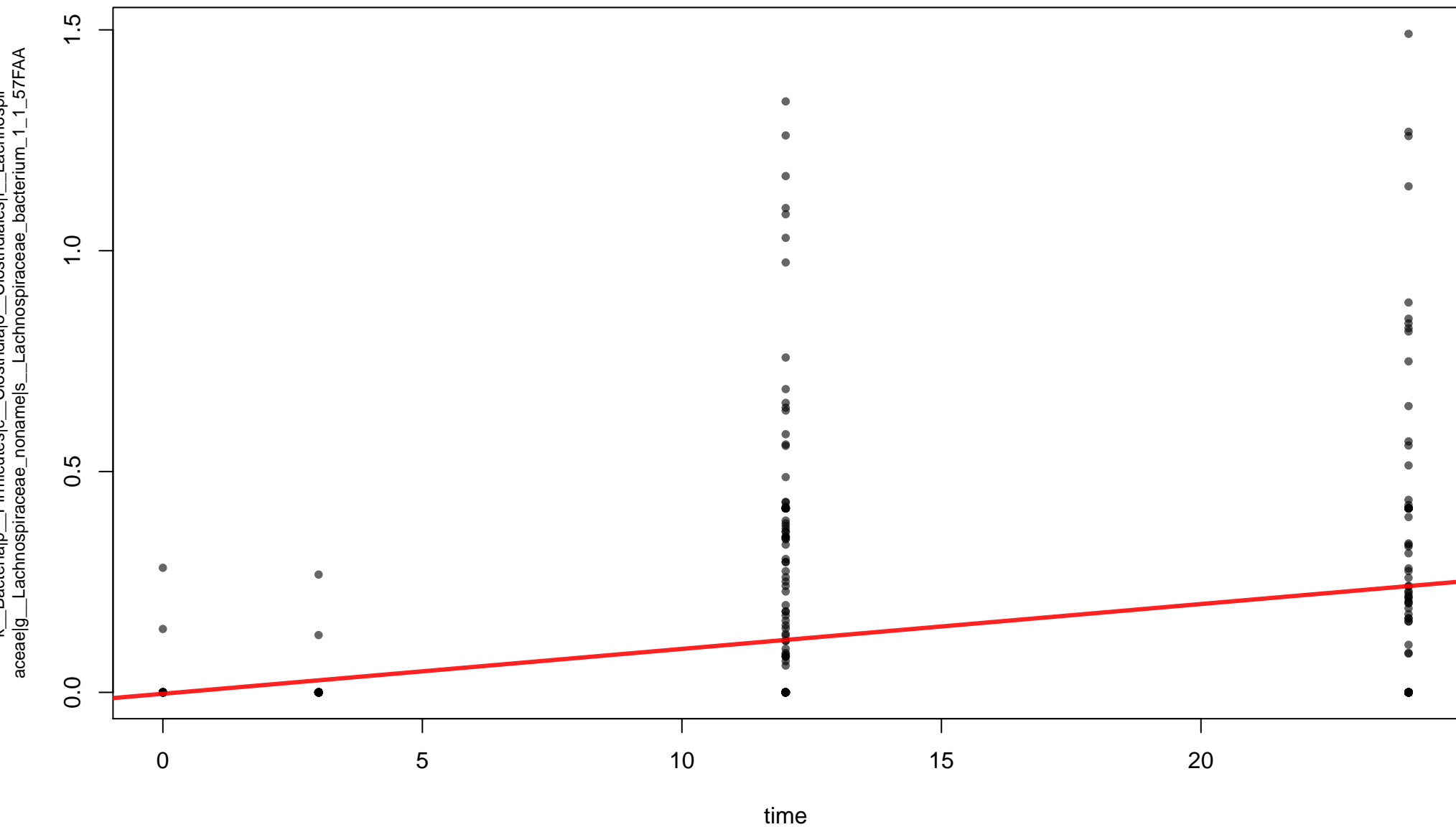
time (0.0102 sd 0.000857, p=1.54e-29, q=4.94e-28)



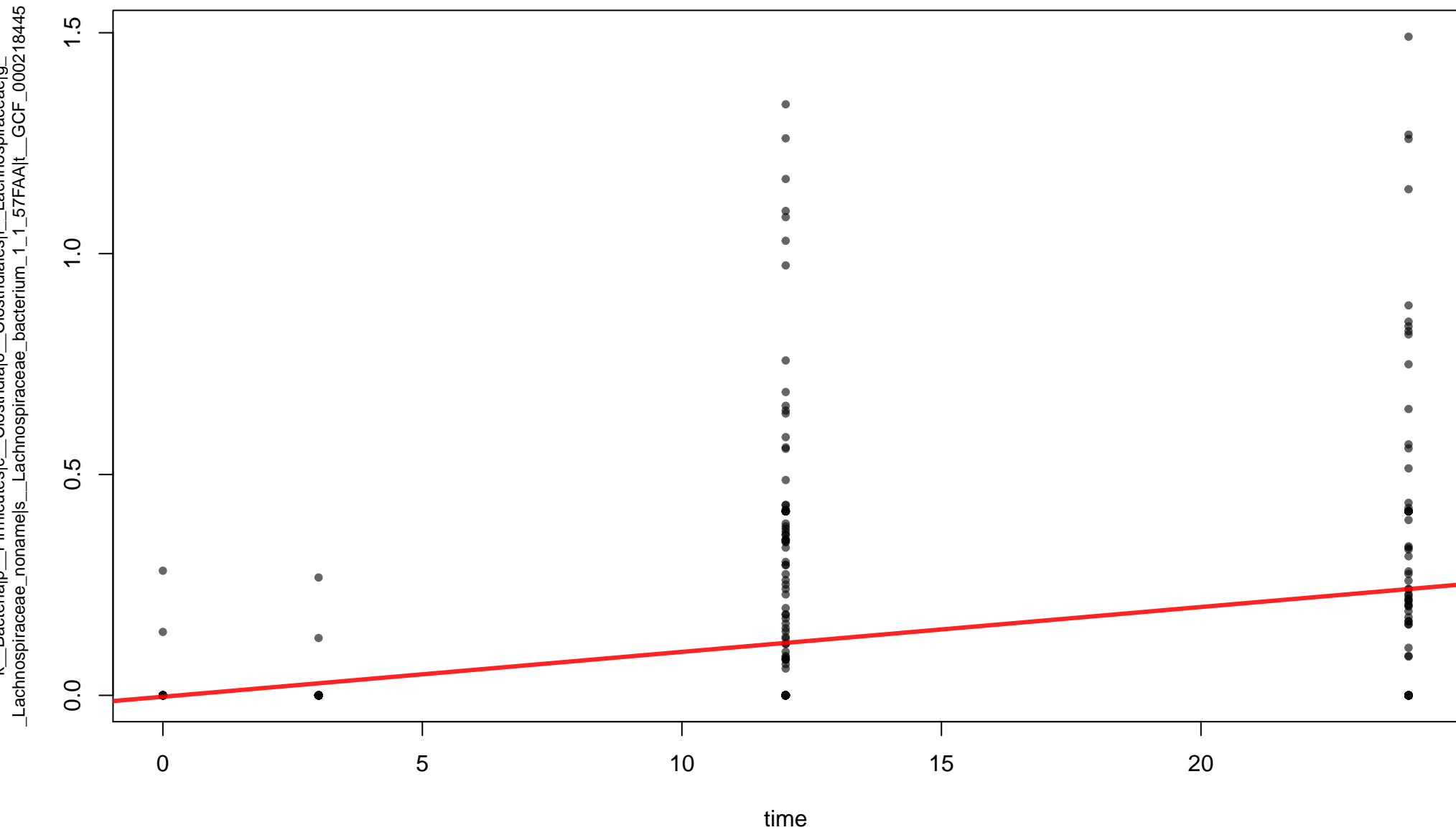
time (0.0102 sd 0.000857, p=1.54e-29, q=4.94e-28)



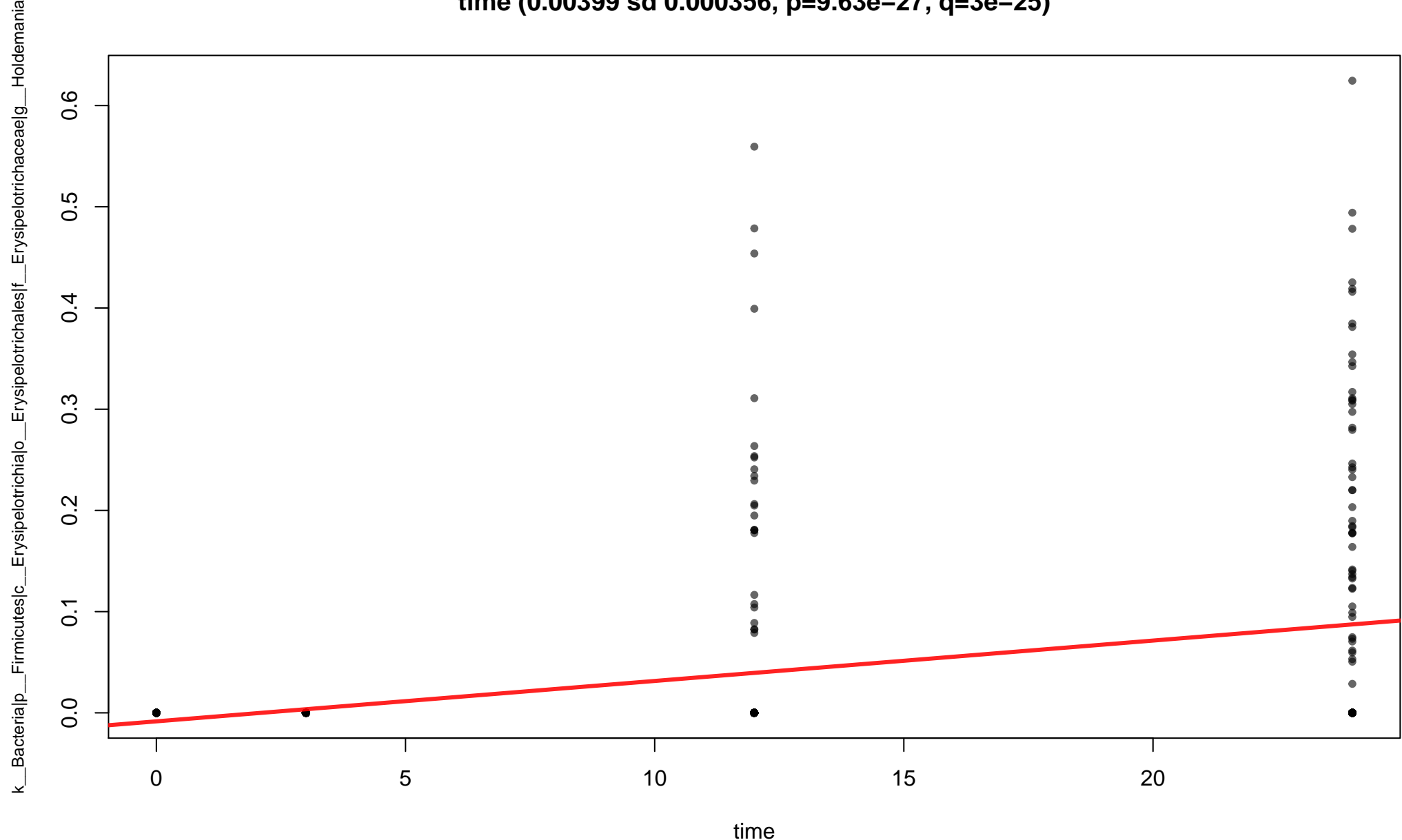
time (0.0102 sd 0.000891, p=1.43e-27, q=4.48e-26)



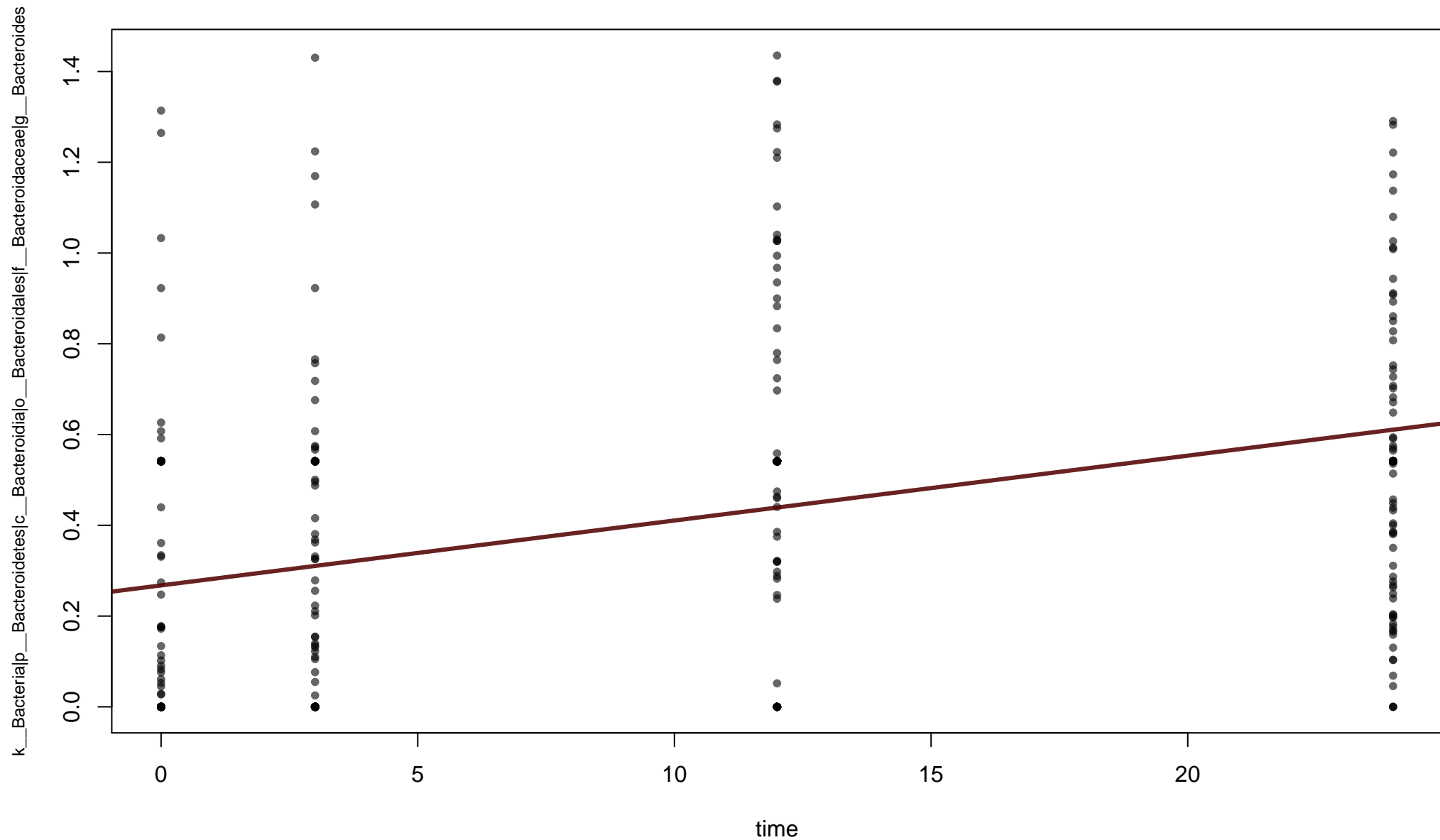
time (0.0102 sd 0.000891, p=1.43e-27, q=4.48e-26)



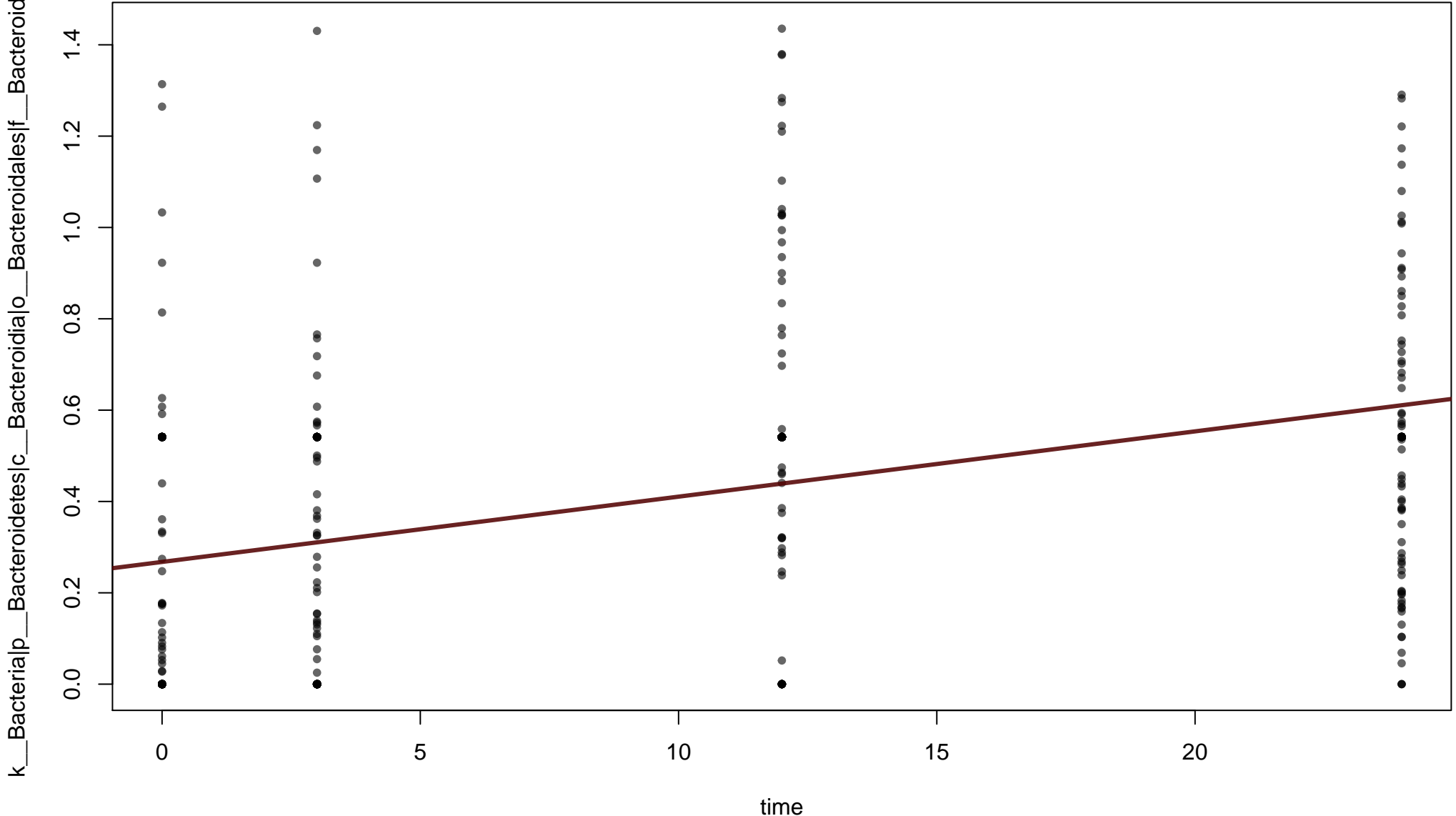
time (0.00399 sd 0.000356, p=9.63e-27, q=3e-25)



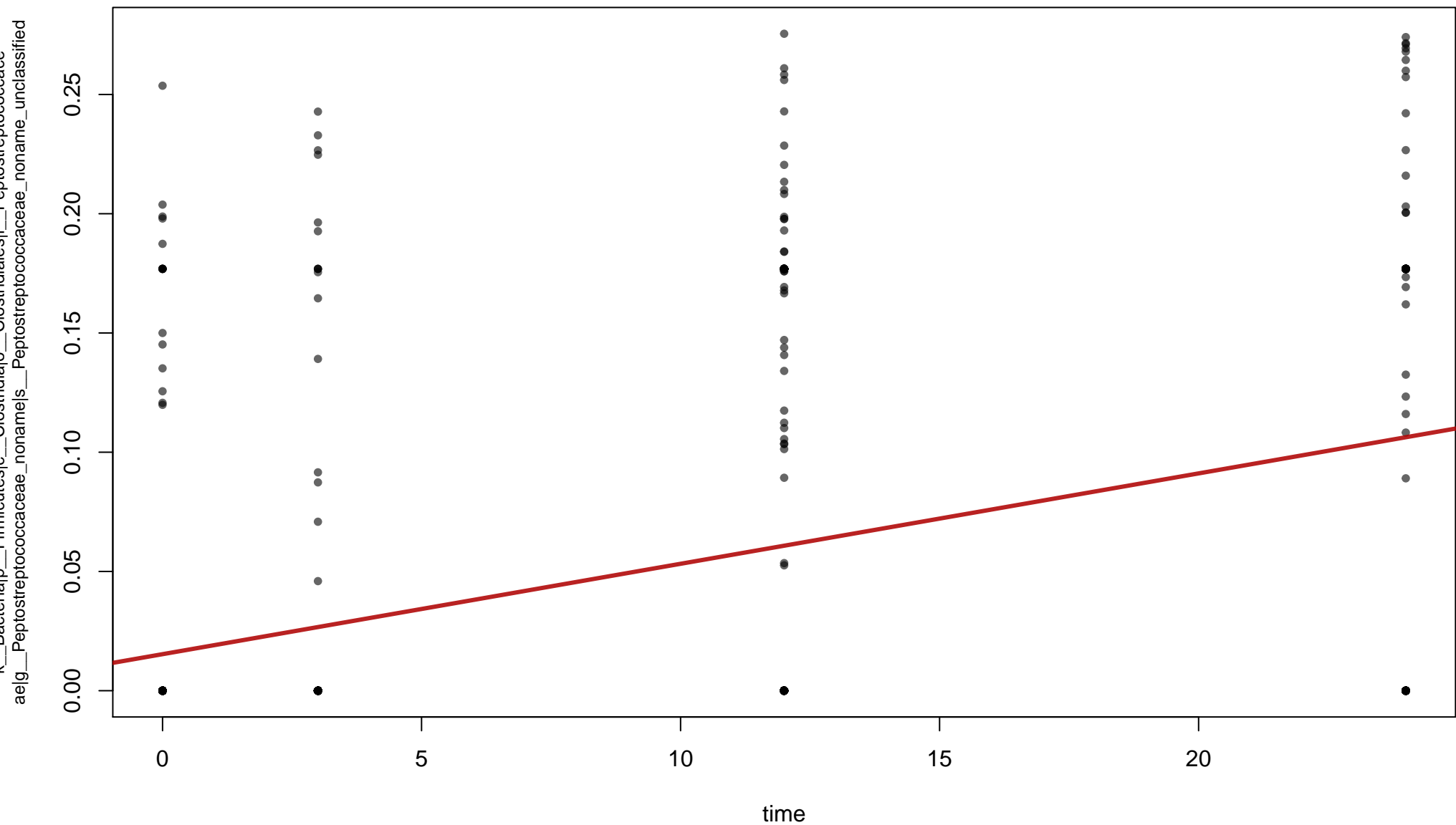
time (0.0143 sd 0.00128, p=1.45e-26, q=4.45e-25)



time (0.0143 sd 0.00129, p=1.56e-26, q=4.77e-25)

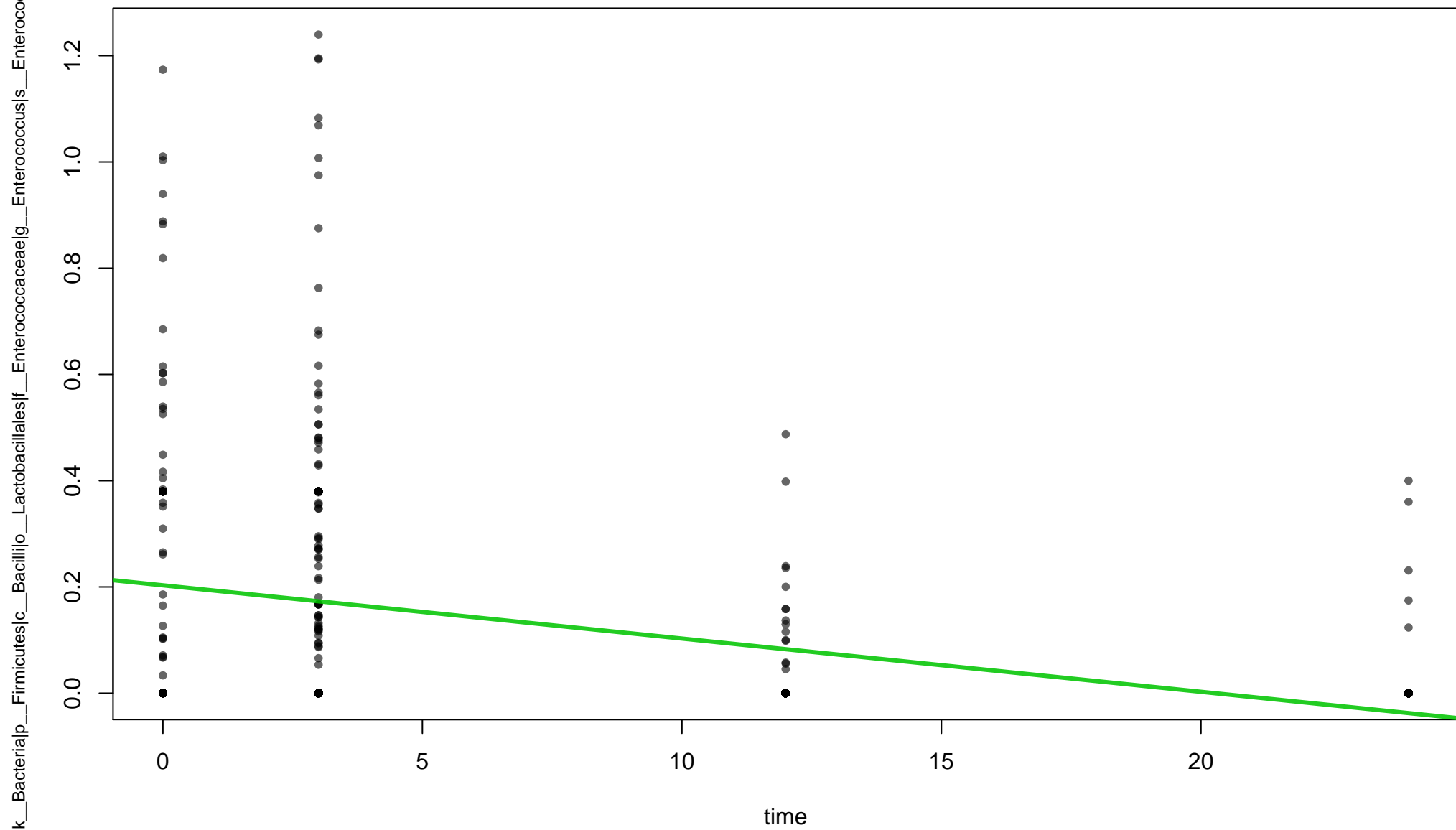


time (0.00379 sd 0.00034, p=1.76e-26, q=5.31e-25)

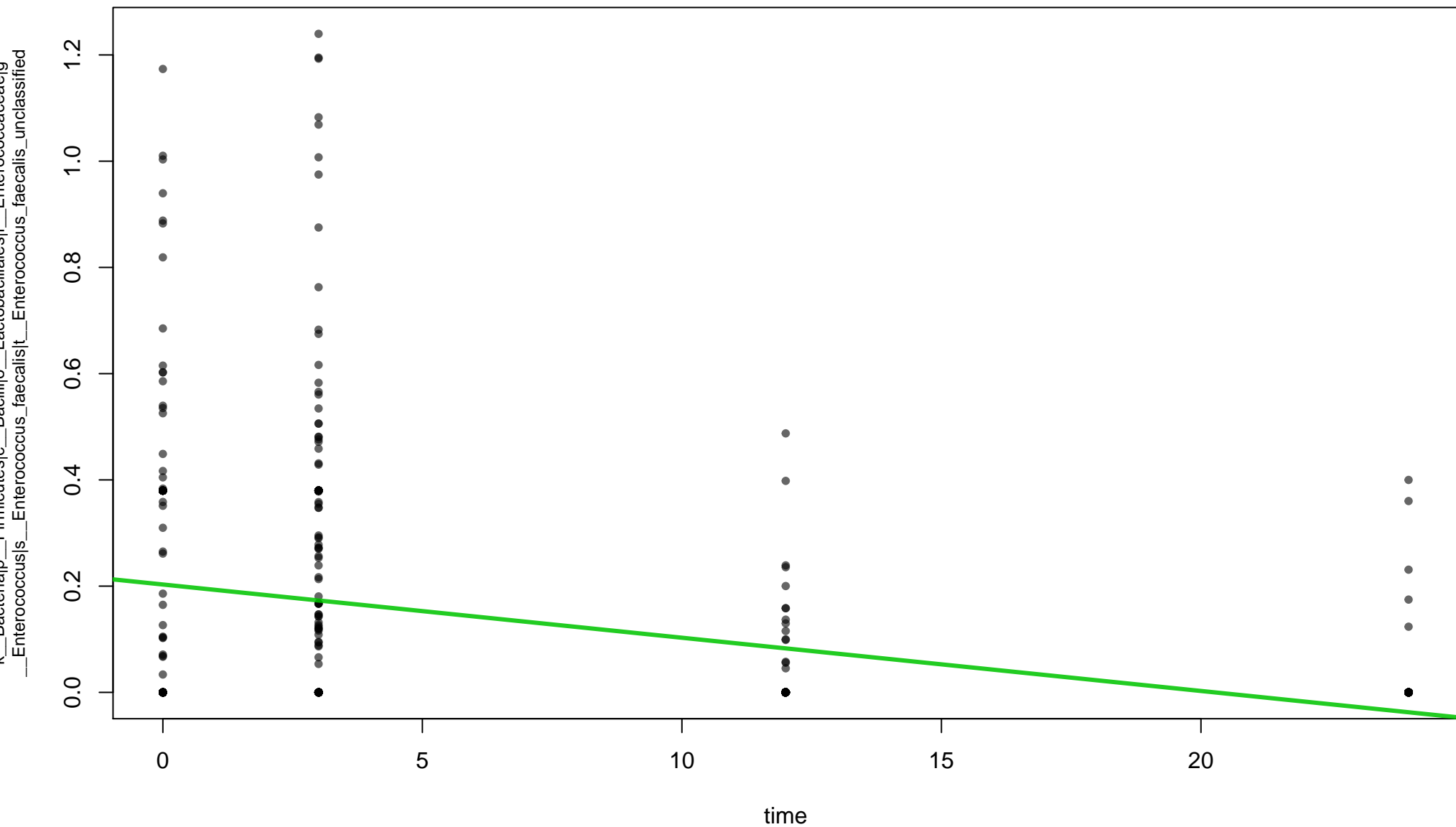




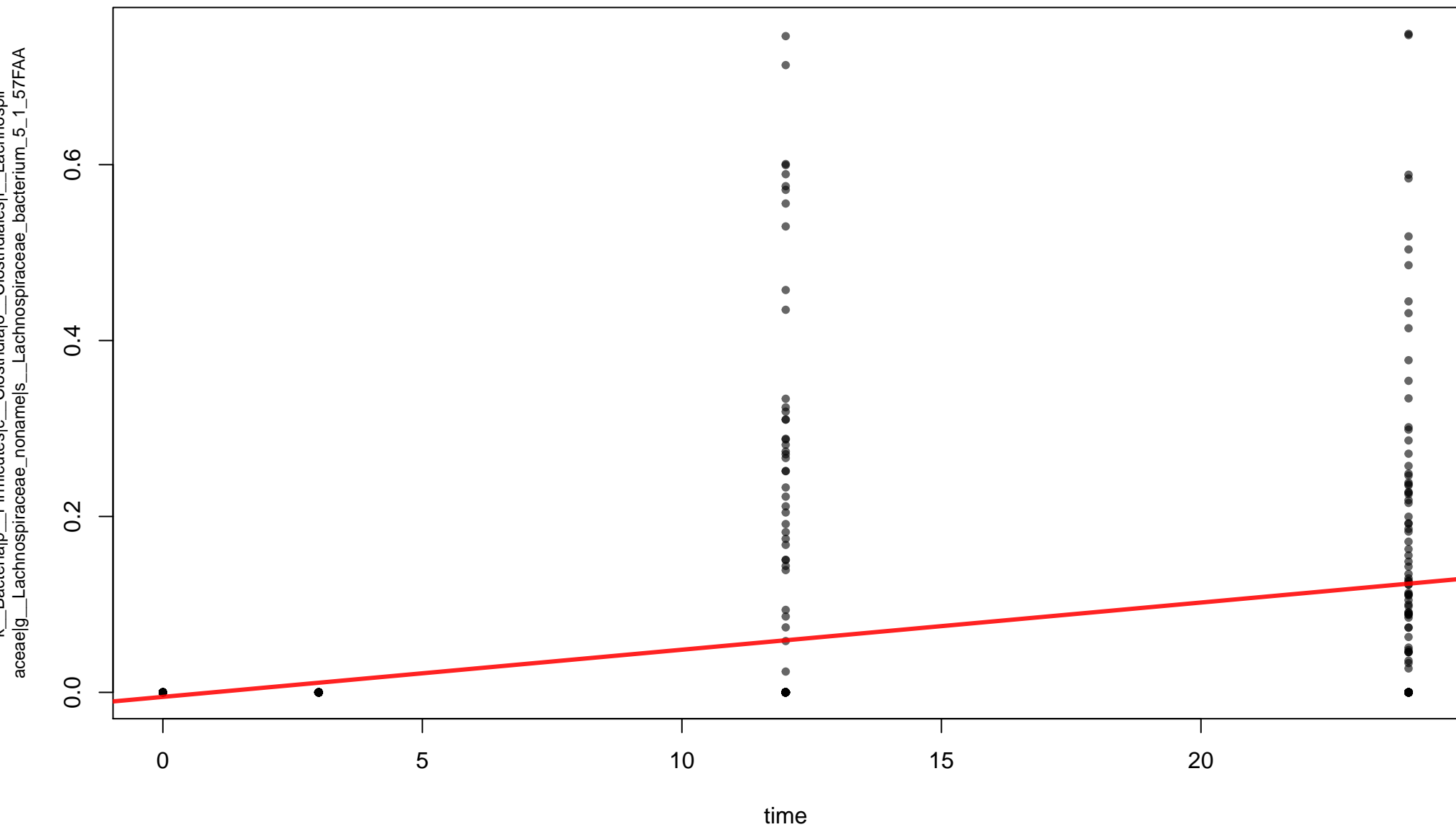
time ( $-0.01$  sd  $0.000904$ ,  $p=2.3e-26$ ,  $q=6.83e-25$ )



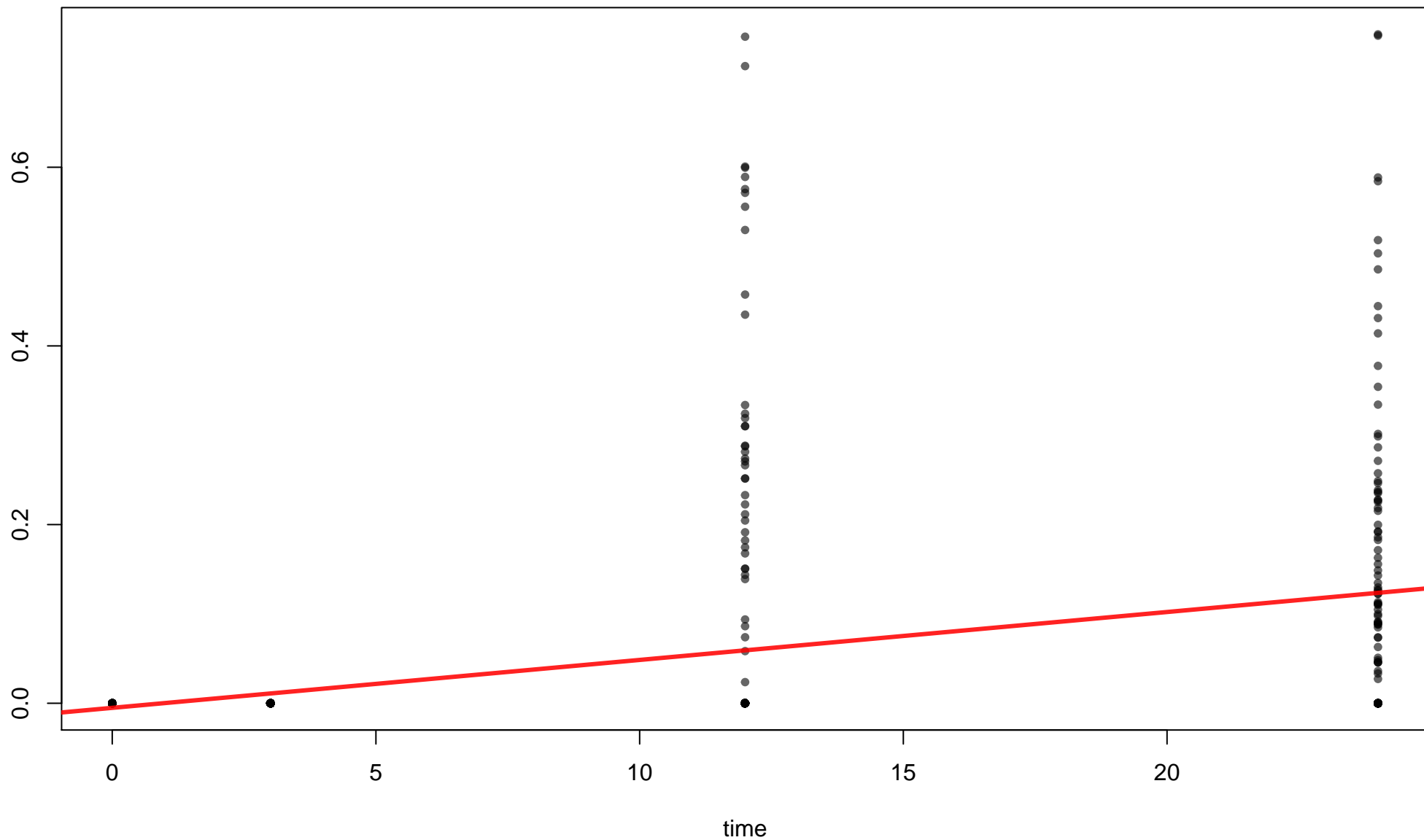
**time (-0.01 sd 0.000904, p=2.3e-26, q=6.83e-25)**



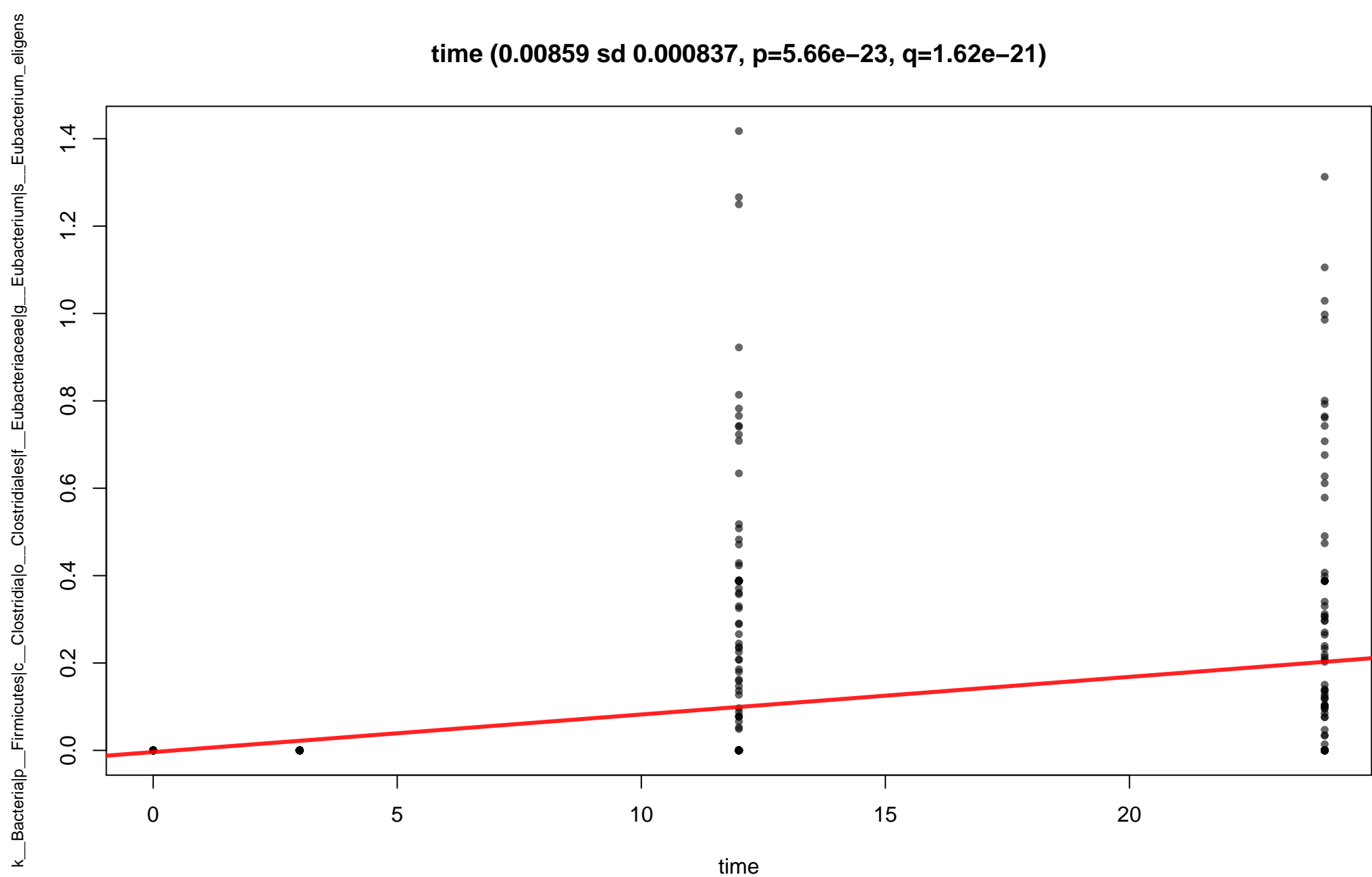
time (0.00536 sd 0.000497, p=4.78e-25, q=1.39e-23)



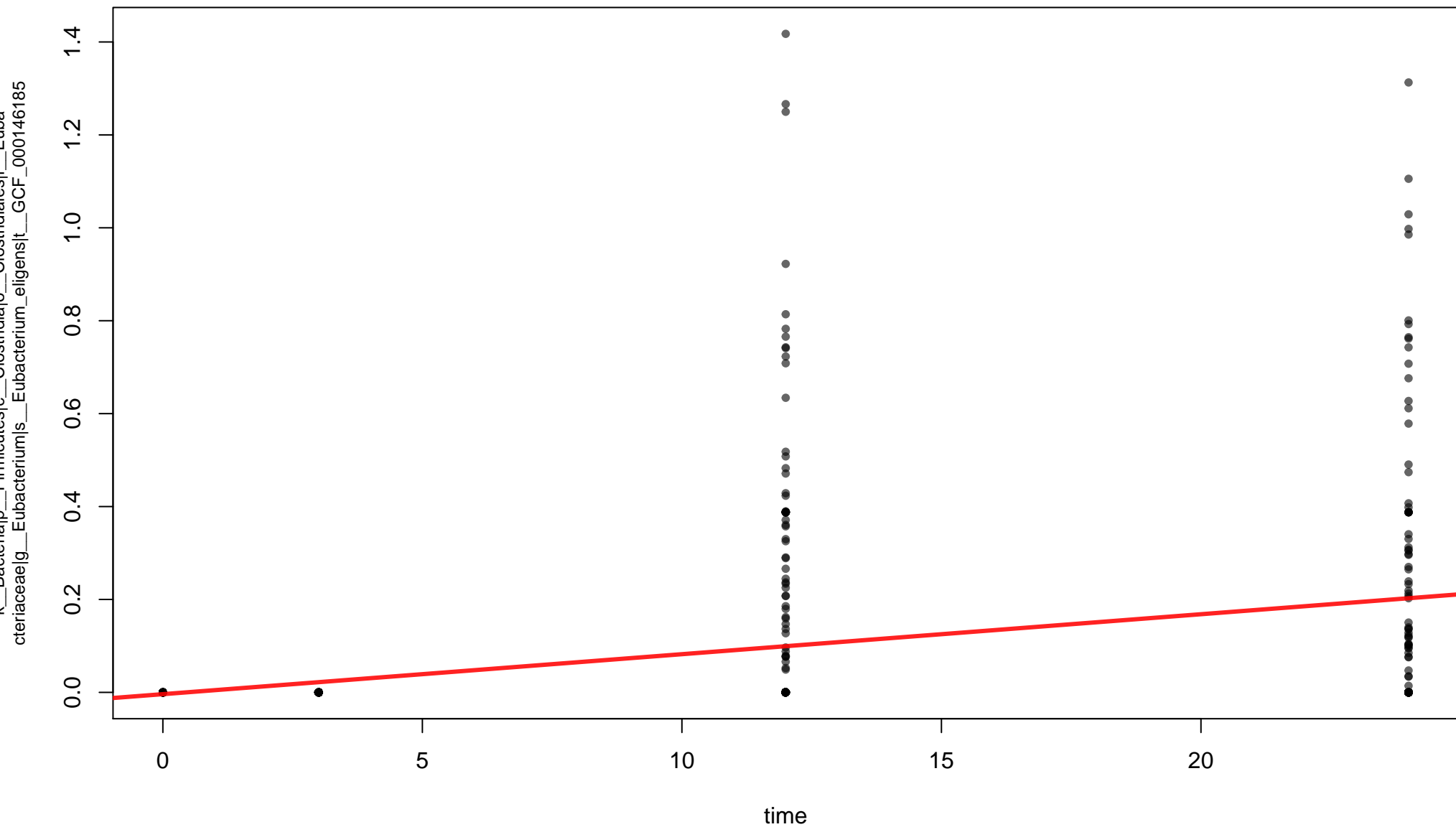
Lachnospiraceae\_noname[s]\_Lachnospiraceae\_bacterium\_5\_1\_57FAA|t\_GCF\_000218425



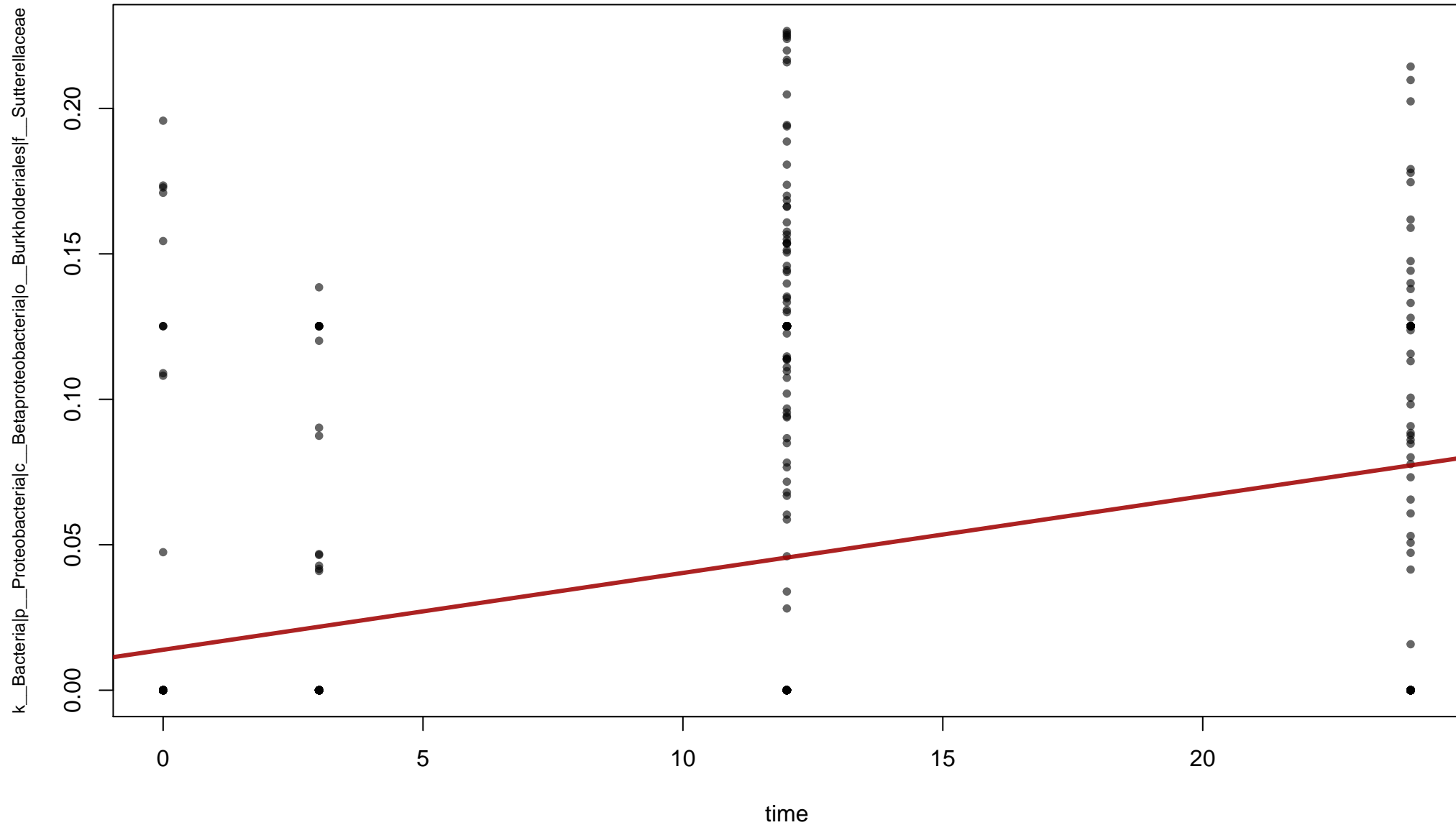
time (0.00859 sd 0.000837, p=5.66e-23, q=1.62e-21)



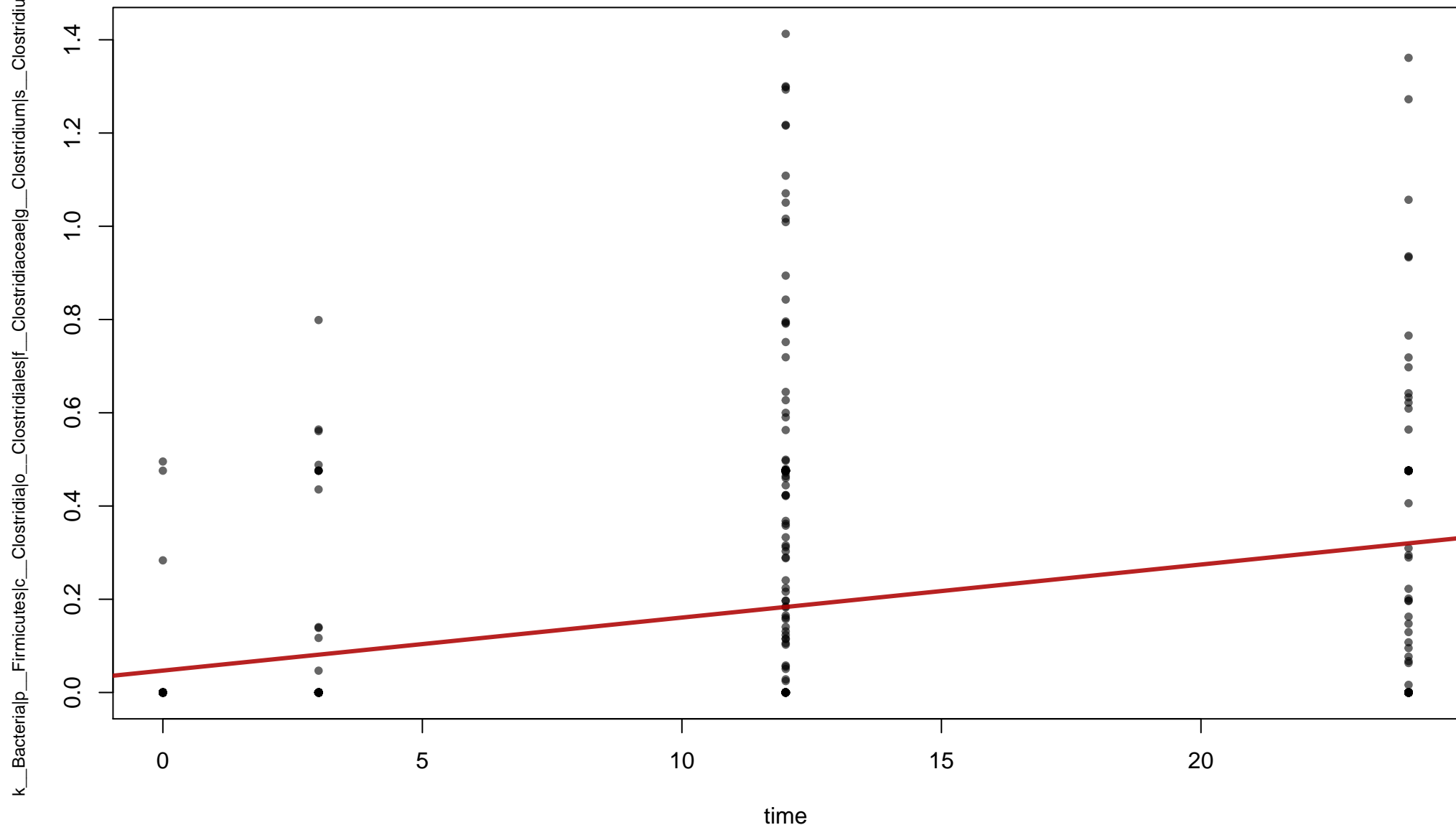
time (0.00859 sd 0.000837, p=5.66e-23, q=1.62e-21)



time (0.00264 sd 0.000258, p=7.48e-23, q=2.12e-21)

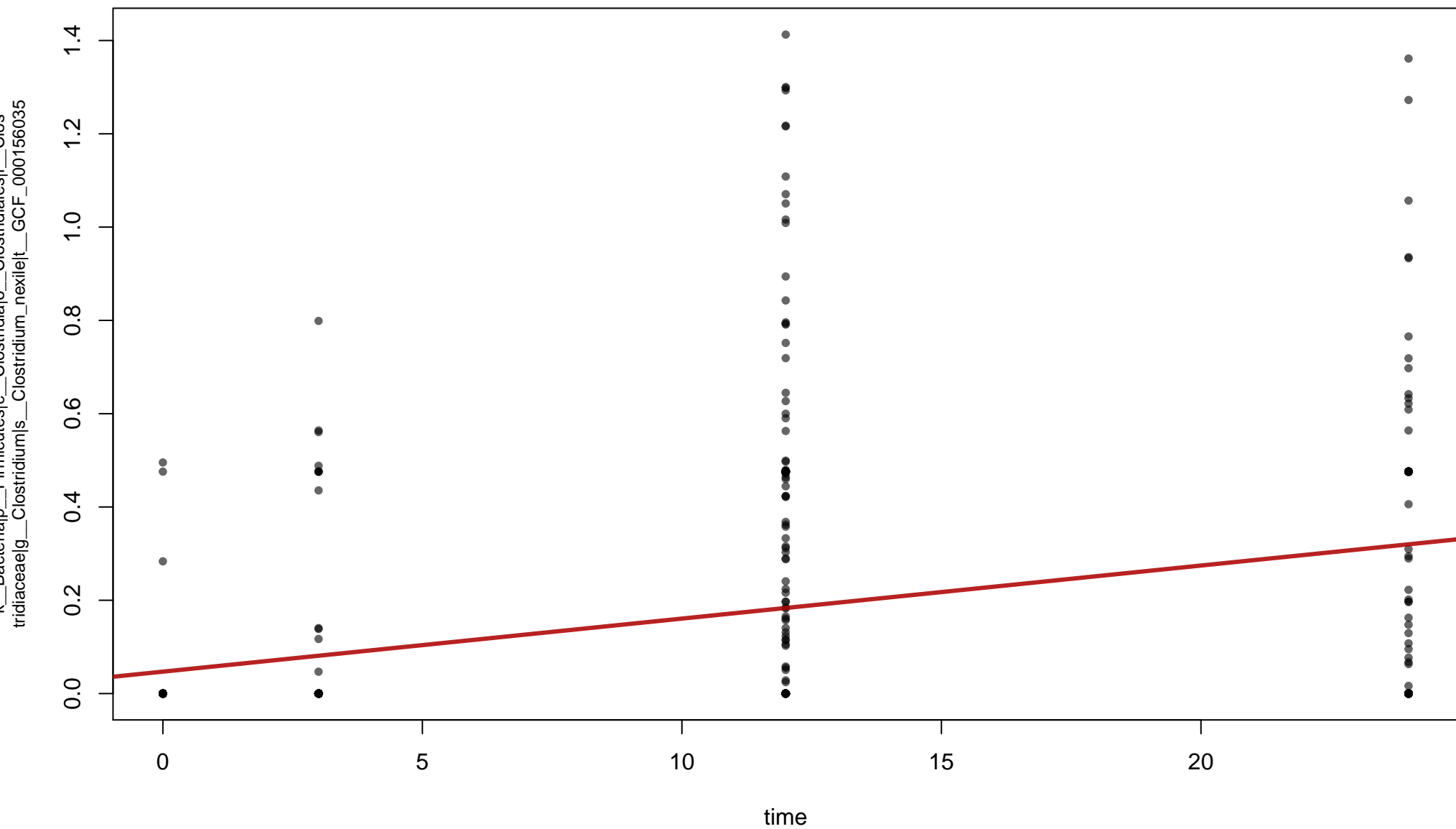


time (0.0114 sd 0.00112, p=1.24e-22, q=3.45e-21)

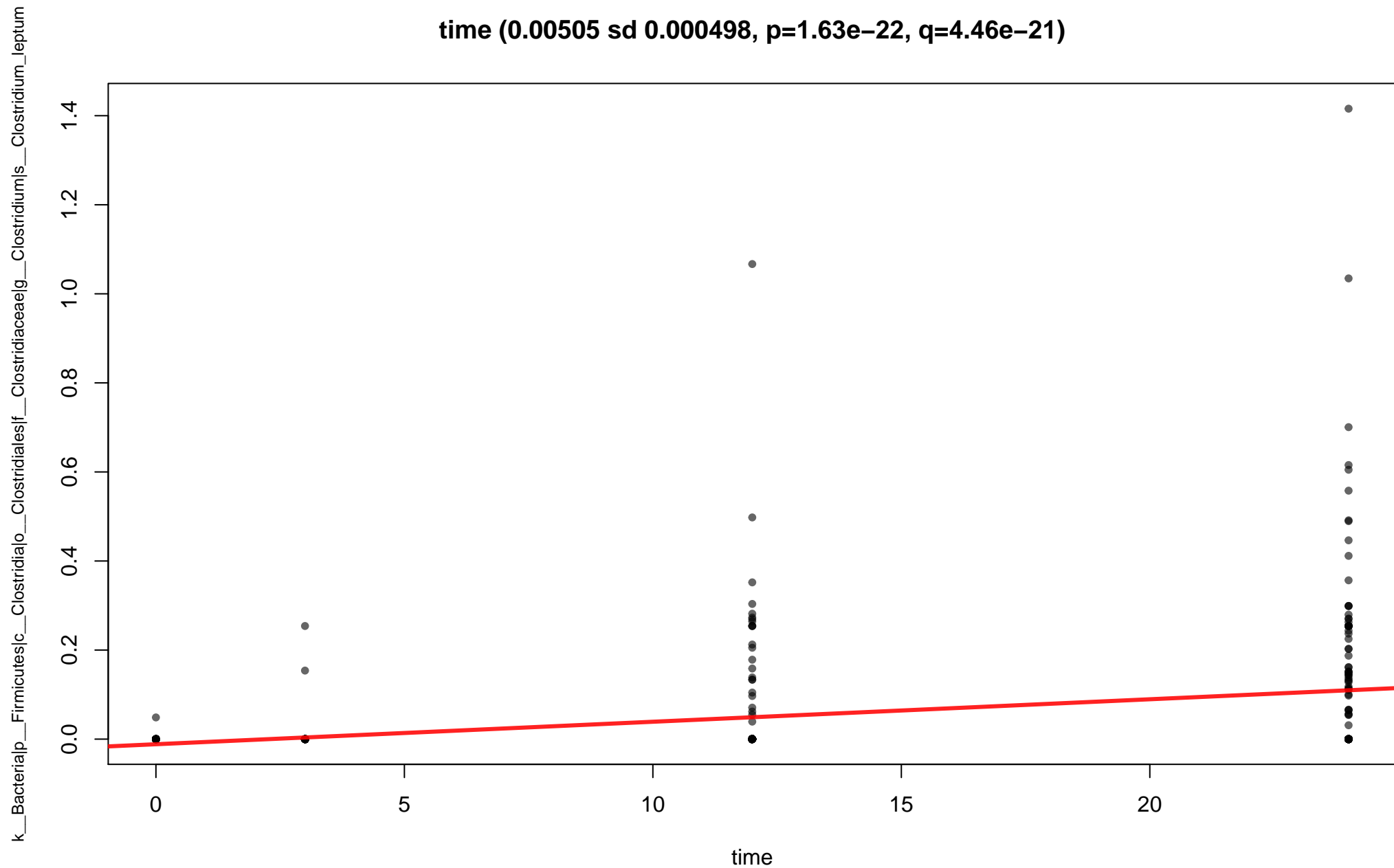




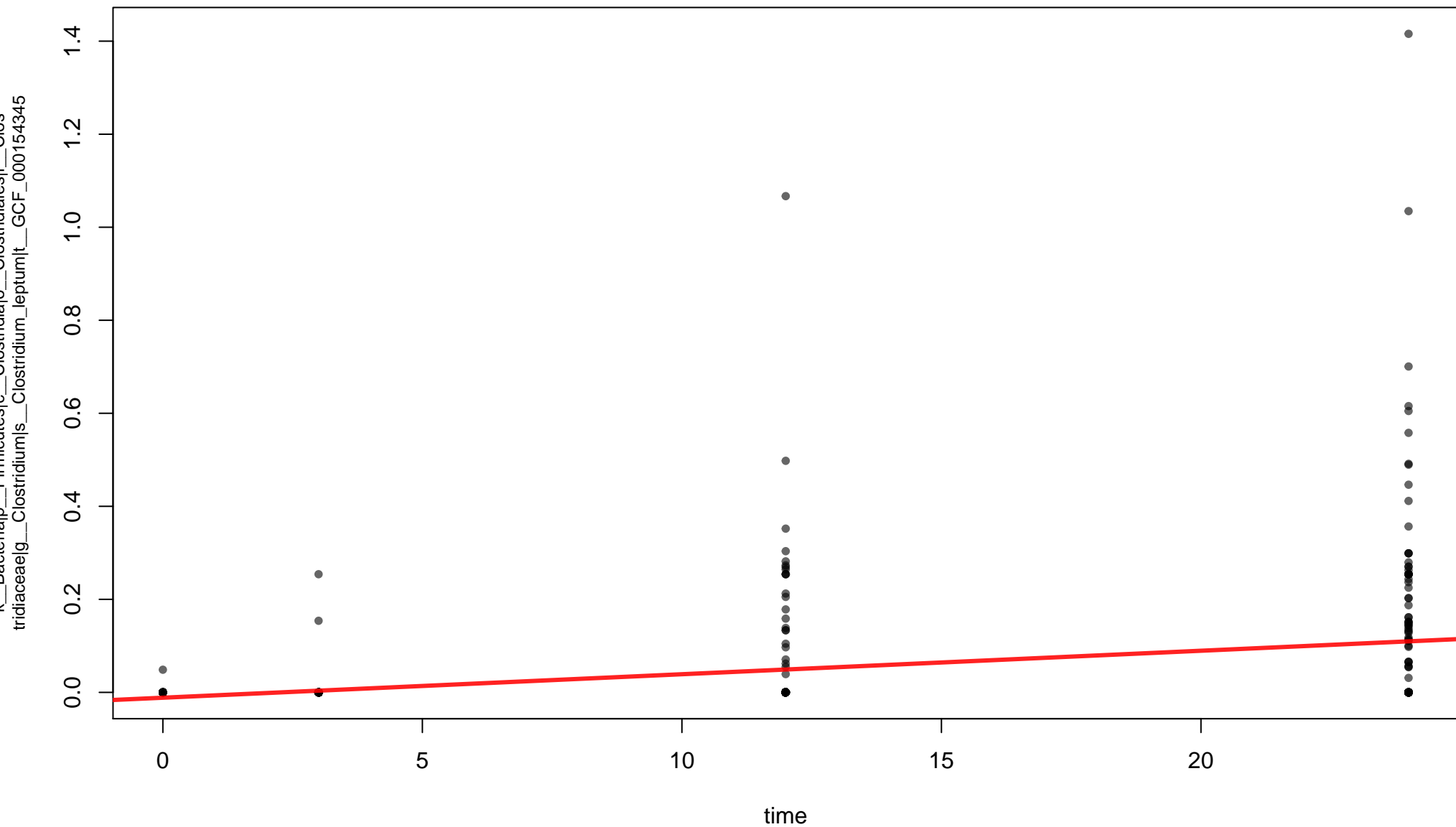
time (0.0114 sd 0.00112, p=1.24e-22, q=3.45e-21)



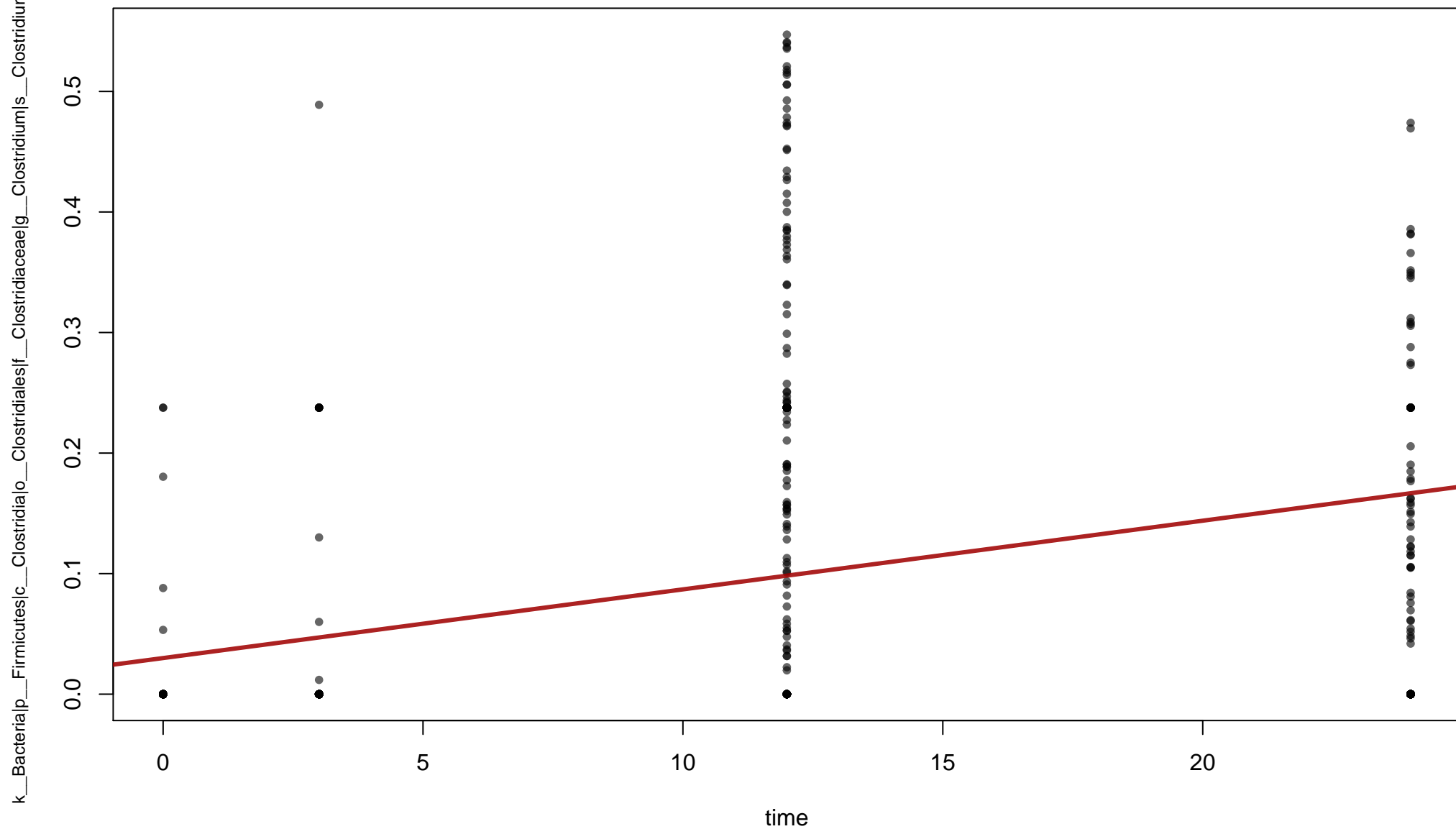
time (0.00505 sd 0.000498, p=1.63e-22, q=4.46e-21)



time (0.00505 sd 0.000498, p=1.63e-22, q=4.46e-21)

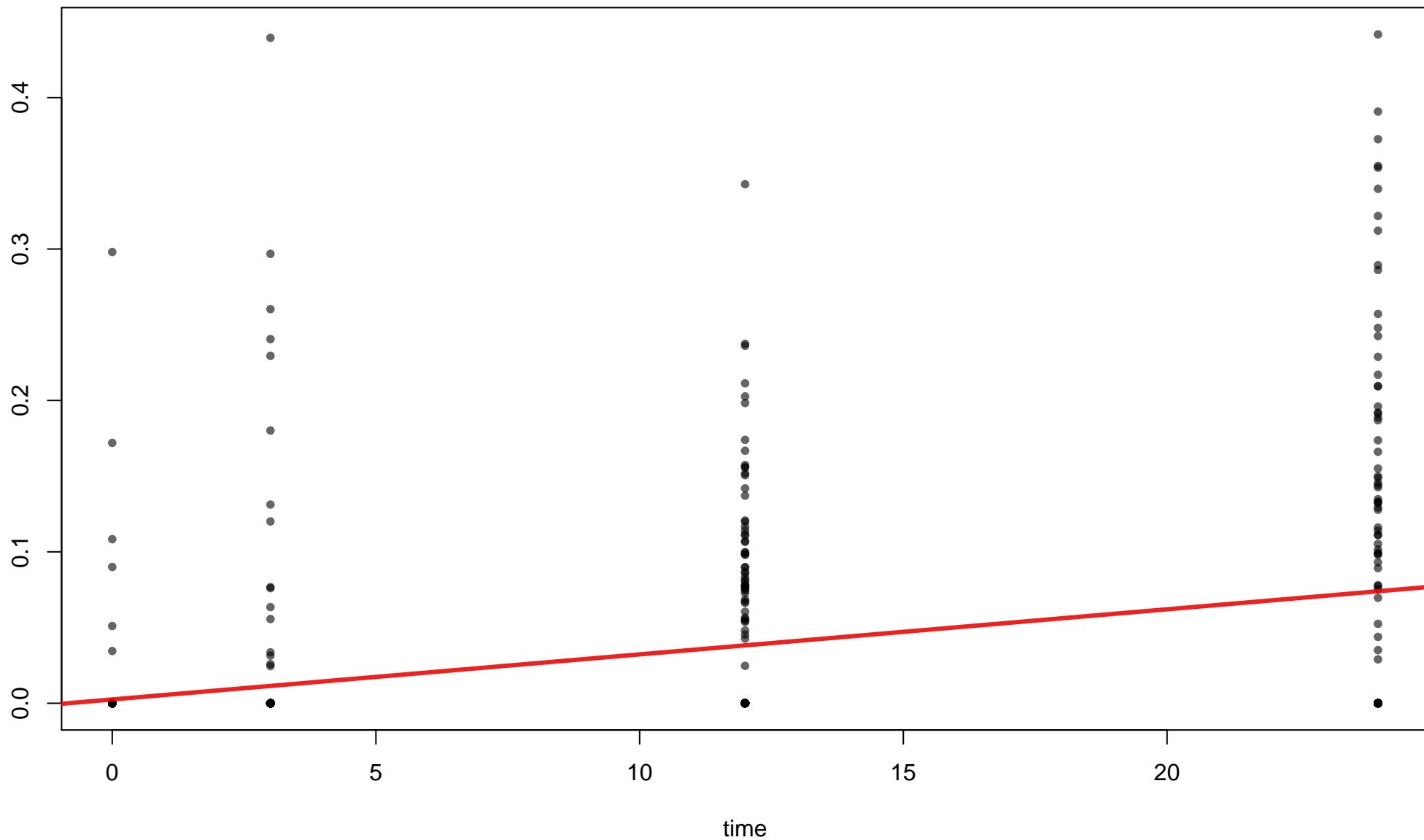


time (0.00571 sd 0.000567, p=2.95e-22, q=7.99e-21)



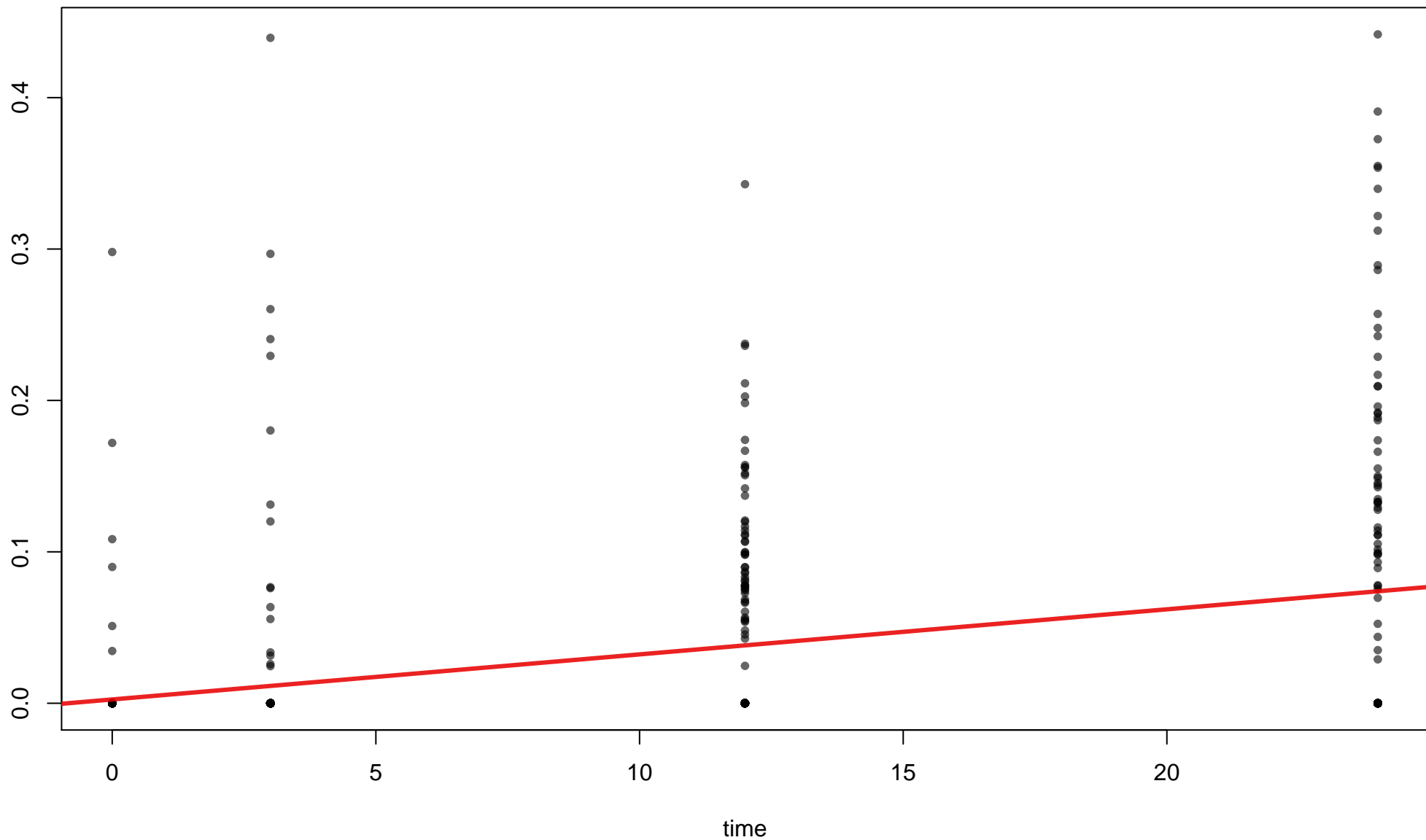
time (0.00298 sd 0.000297, p=3.94e-22, q=1.05e-20)

k\_\_Bacteria|p\_\_Firmicutes|c\_\_Bacilli|o\_\_Bacillales|f\_\_Bacillales|g\_\_Gemella|s\_\_Gemella\_sanguinis

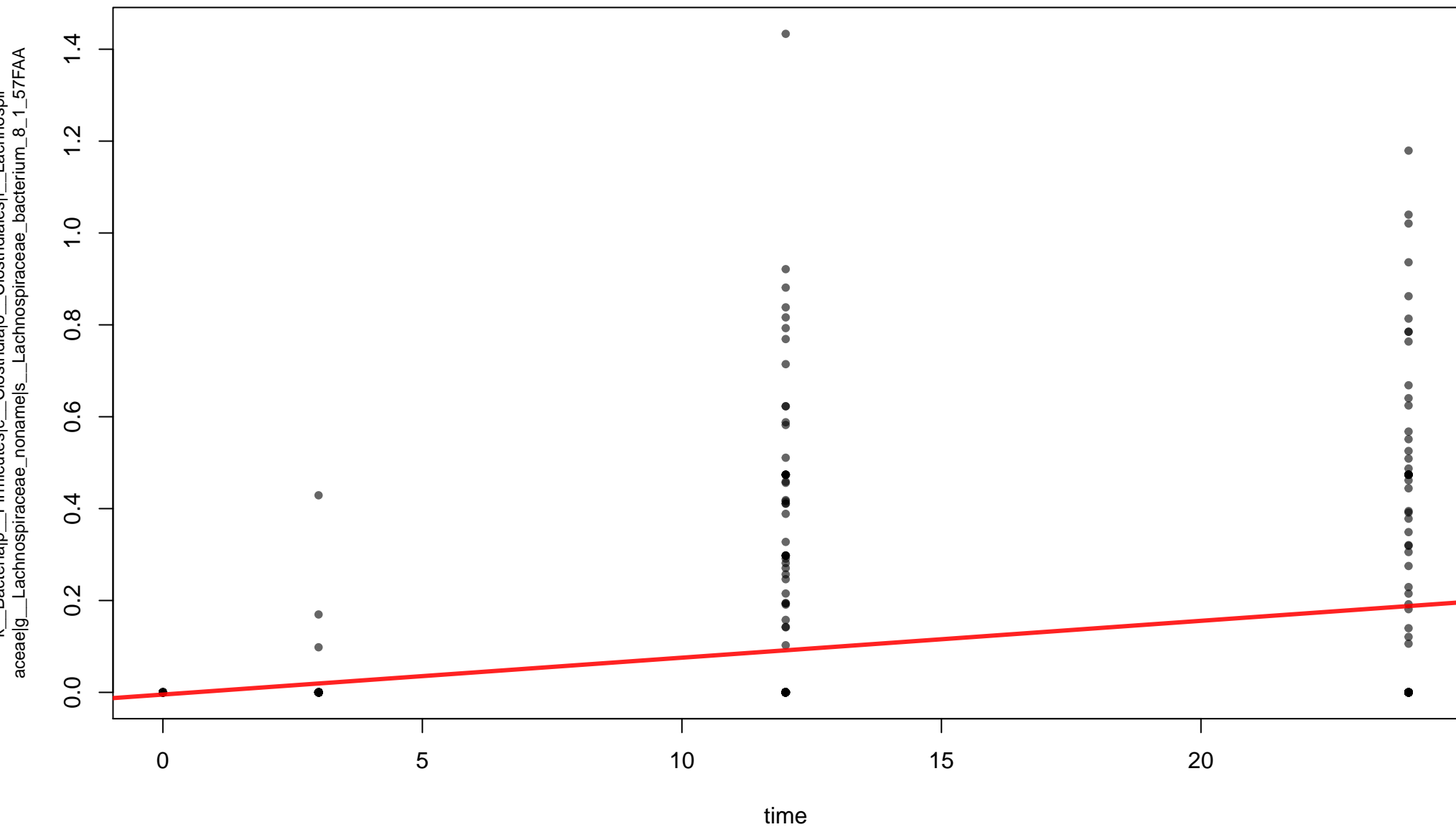


time (0.00298 sd 0.000297, p=3.94e-22, q=1.05e-20)

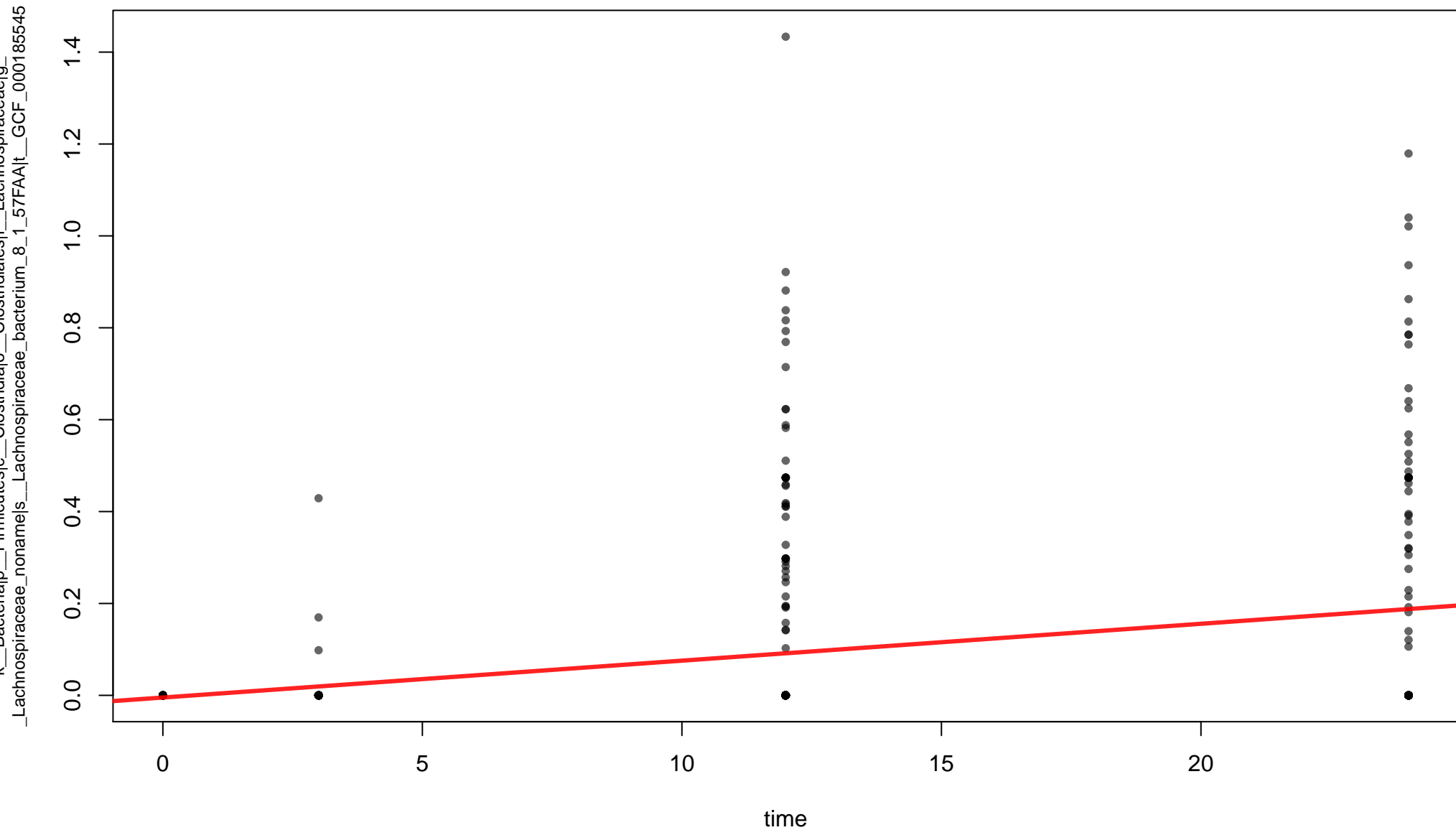
k\_Bacteria|p\_\_Firmicutes|c\_\_Bacilli|o\_\_Bacillales|f\_\_Bacillales\_noname|g\_\_Gemella|s\_\_Gemella|s\_\_GCF\_000204



time (0.00804 sd 0.000804, p=5.46e-22, q=1.43e-20)

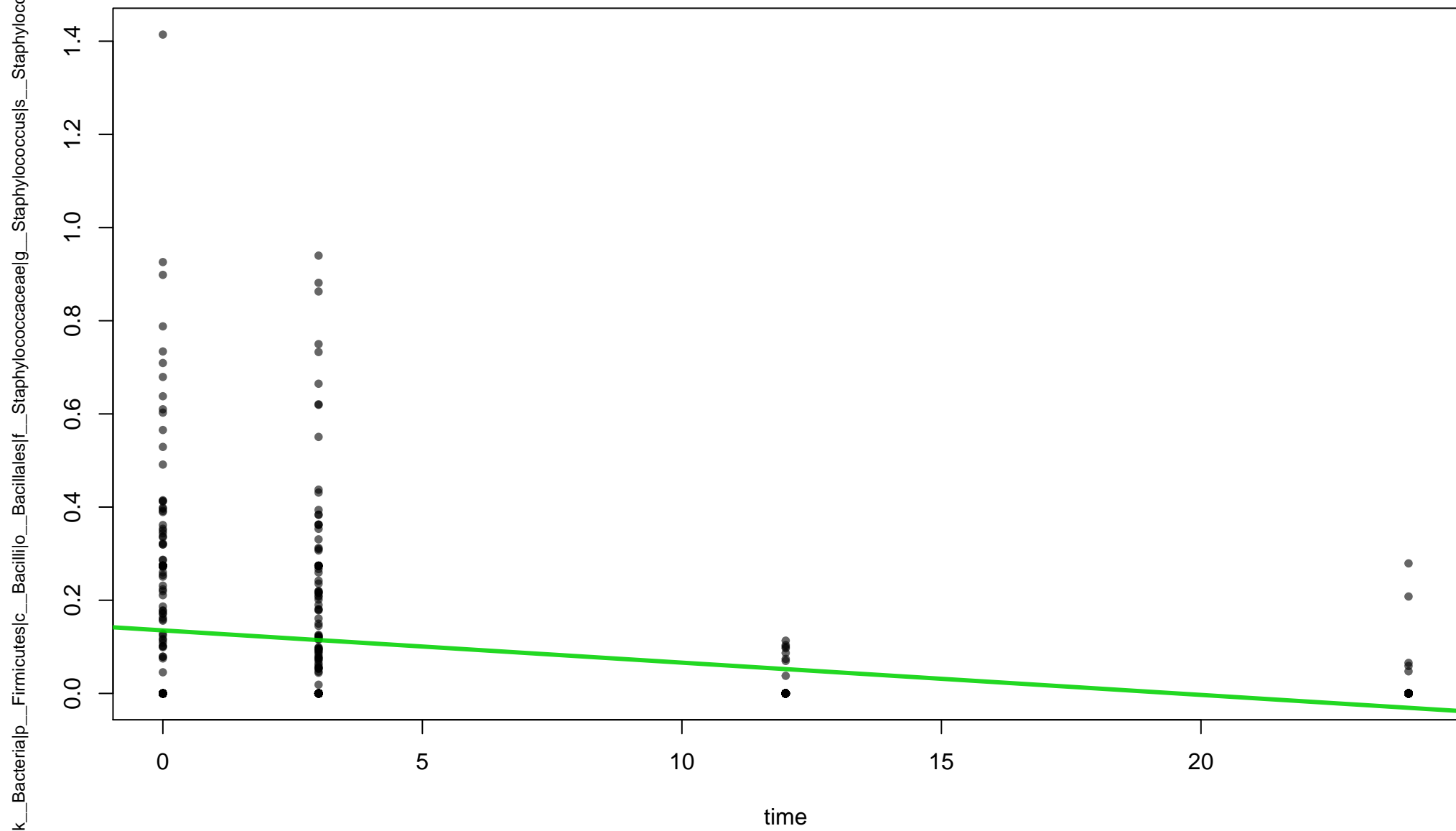


time (0.00804 sd 0.000804, p=5.46e-22, q=1.43e-20)

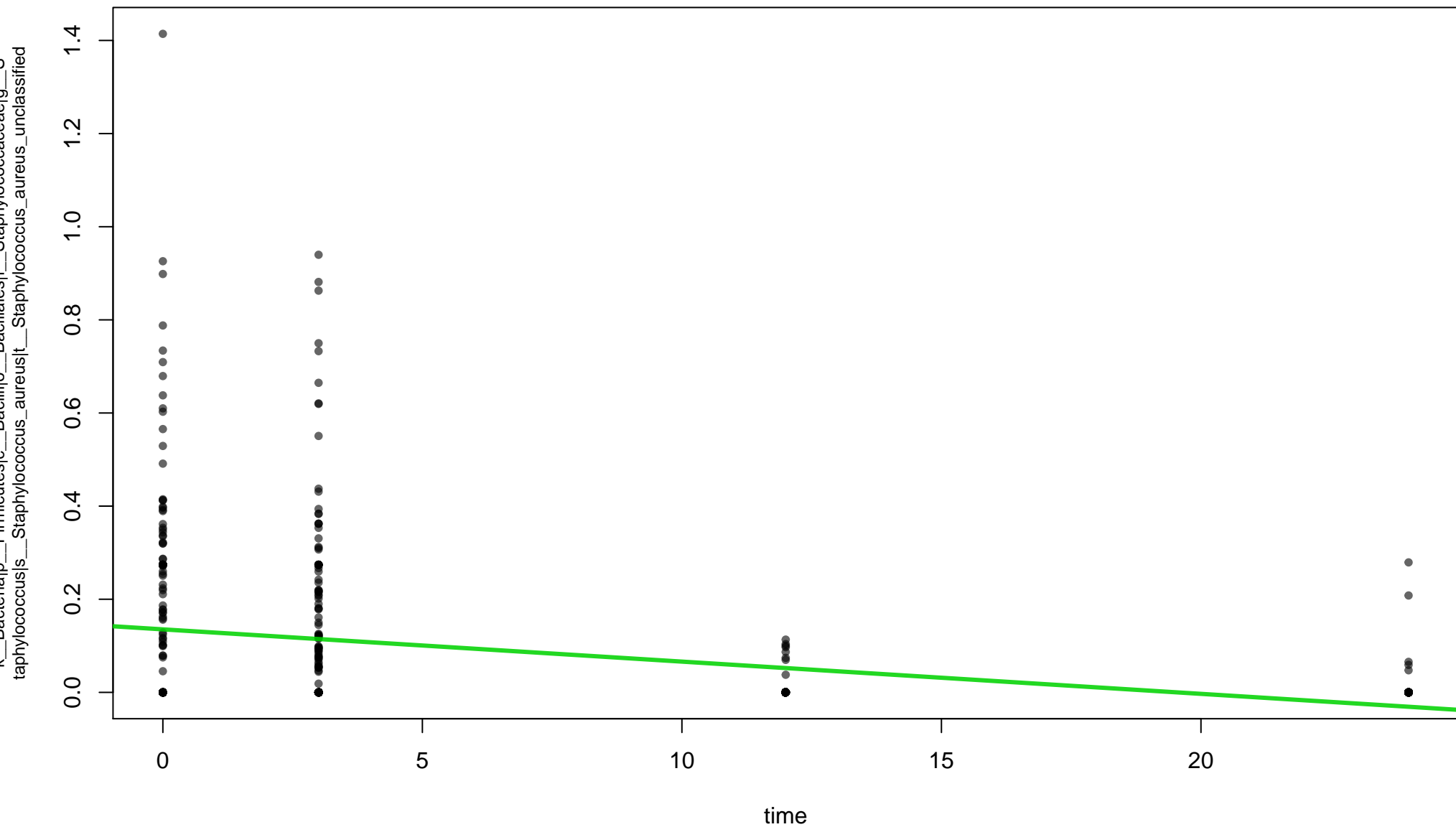




time ( $-0.00693$  sd  $0.000698$ ,  $p=1.09e-21$ ,  $q=2.81e-20$ )

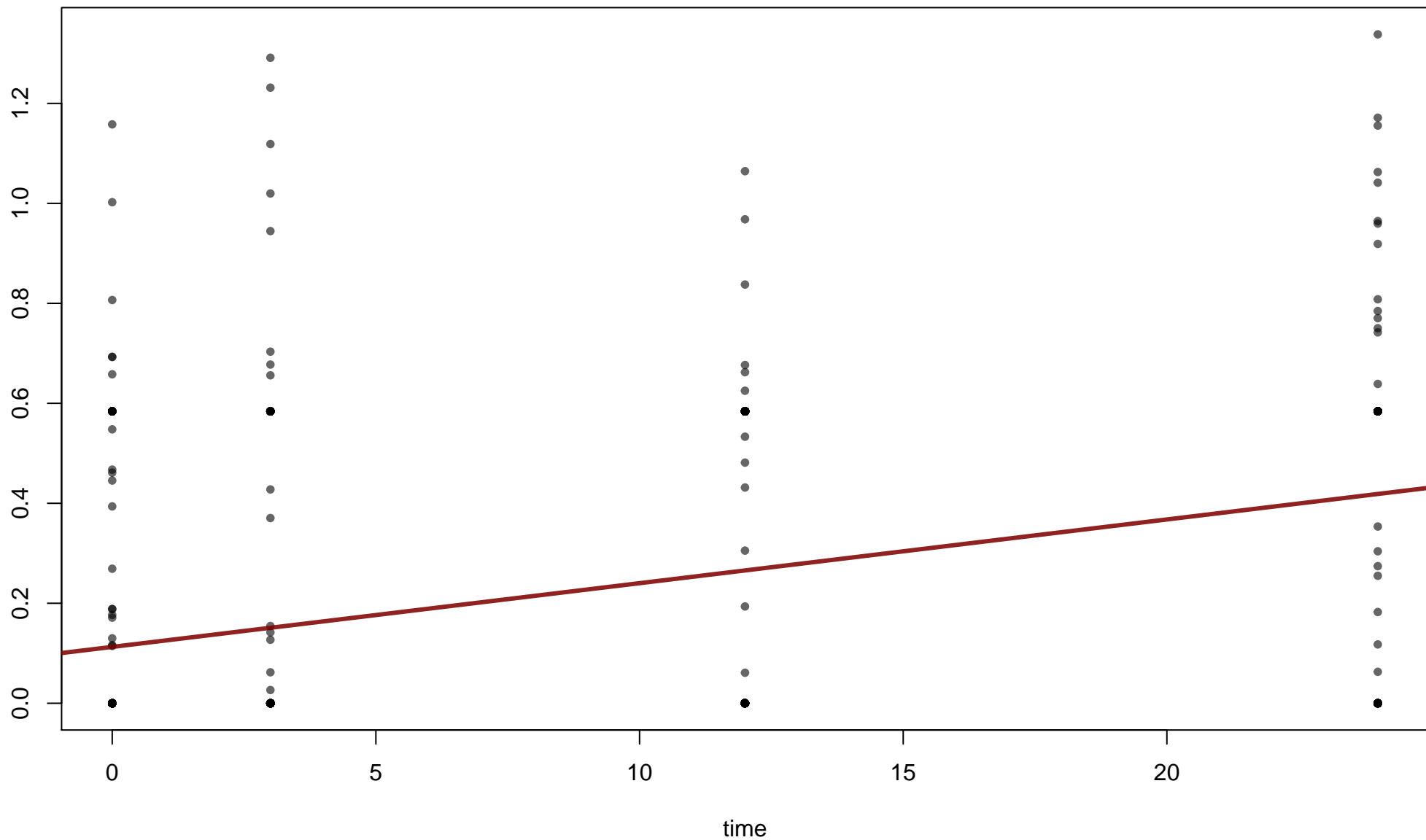


time ( $-0.00693$  sd  $0.000698$ ,  $p=1.09e-21$ ,  $q=2.81e-20$ )

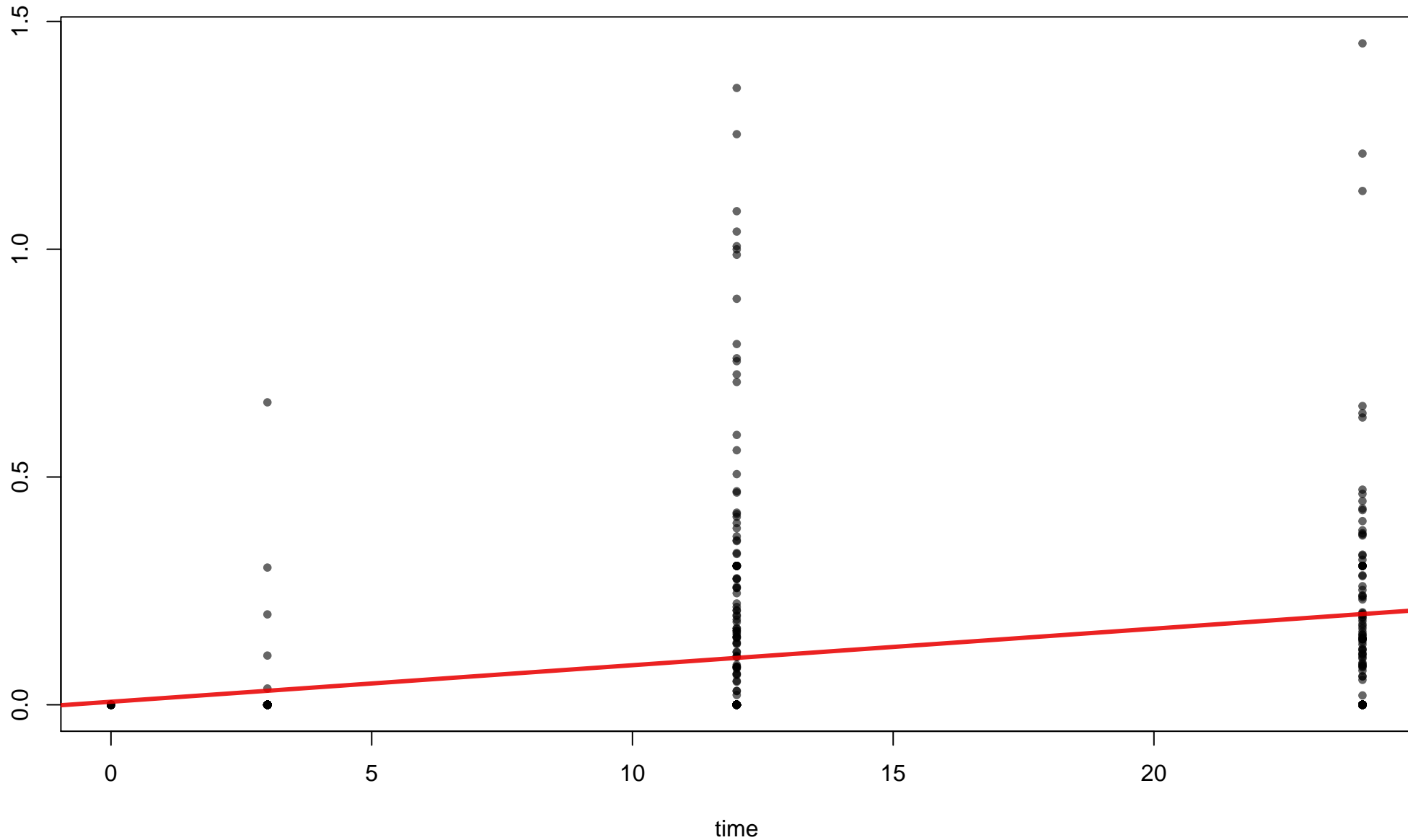


time (0.0128 sd 0.0013, p=1.73e-21, q=4.42e-20)

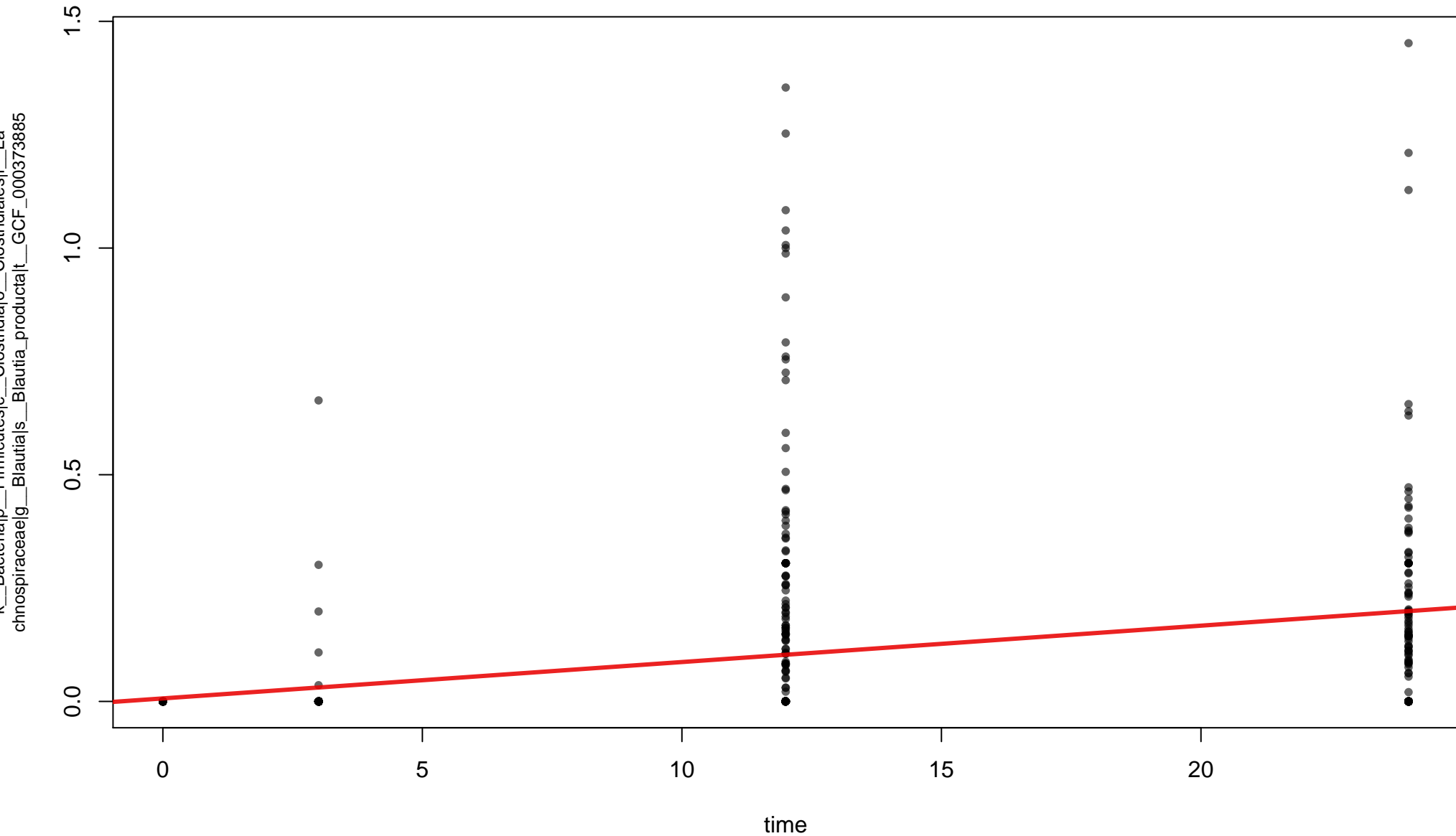
k\_\_Bacteria|p\_\_Actinobacteria|c\_\_Actinobacteriales|f\_\_Coriobacteriales|g\_\_Coriobacteriaceae|g\_\_Collinsella



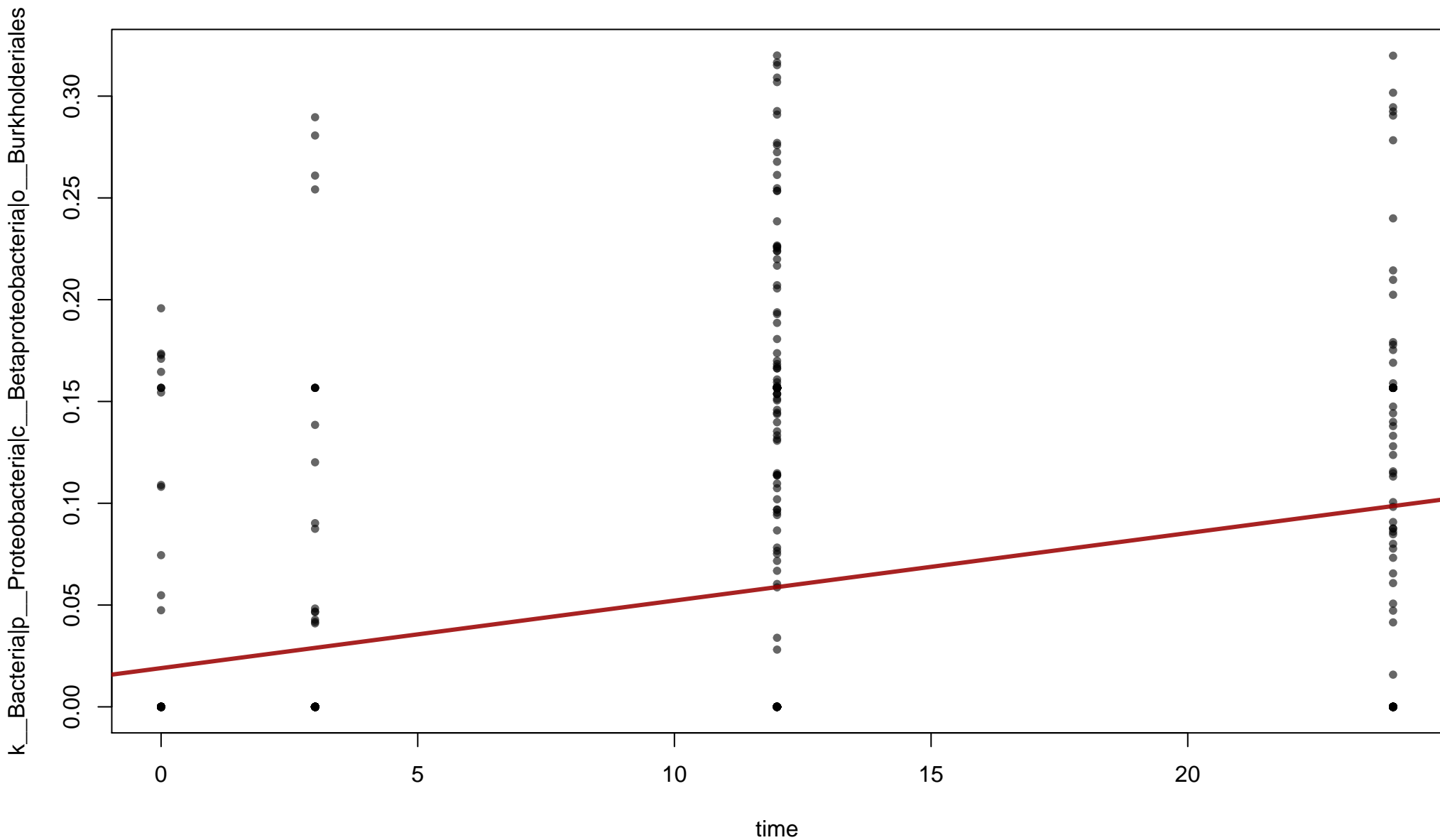
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Clostridia|o\_\_Clostridiales|f\_\_Lachnospiraceae|g\_\_Blautia|s\_\_Blautia|producta



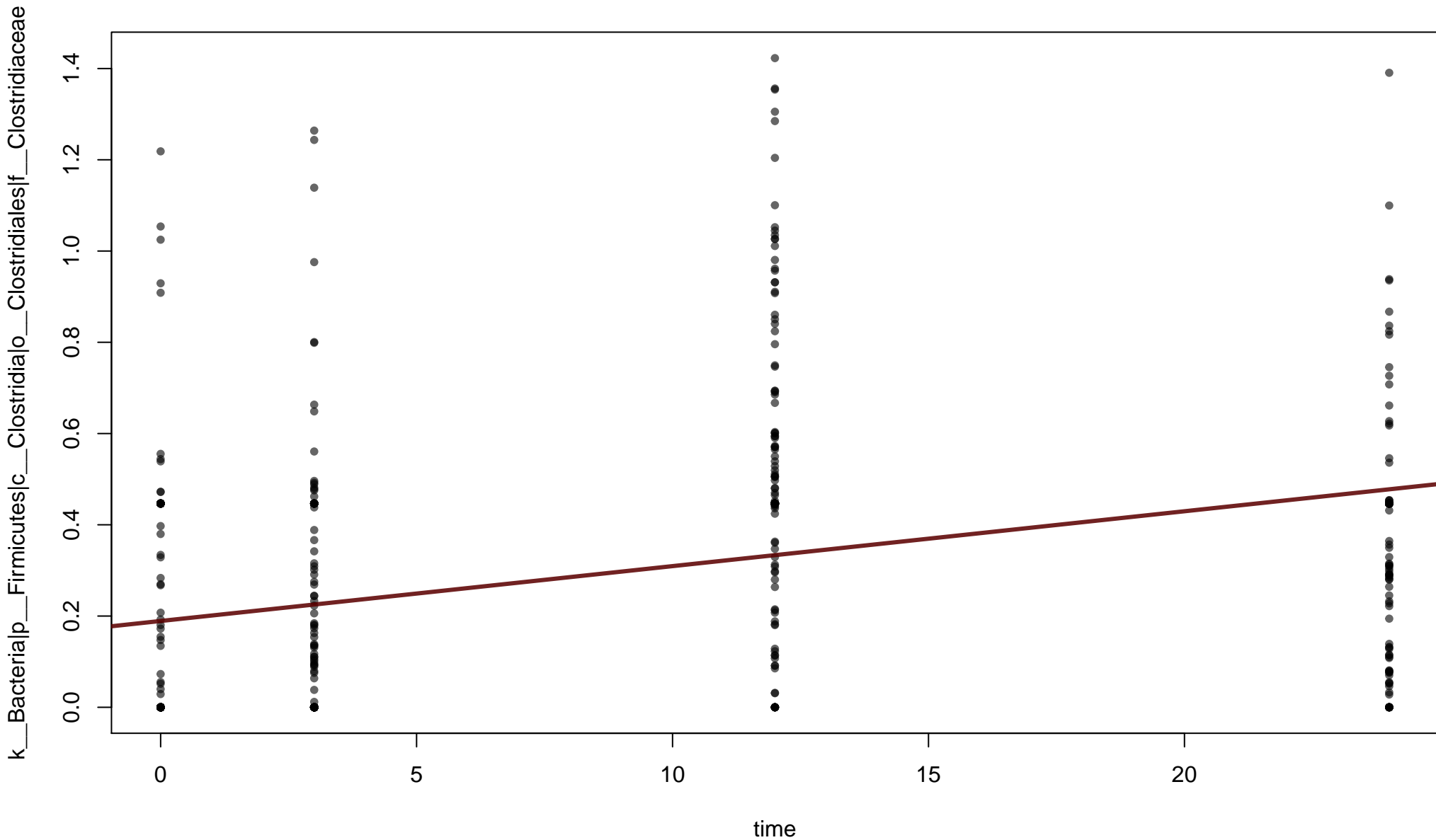
time (0.00802 sd 0.000814, p=2.11e-21, q=5.29e-20)



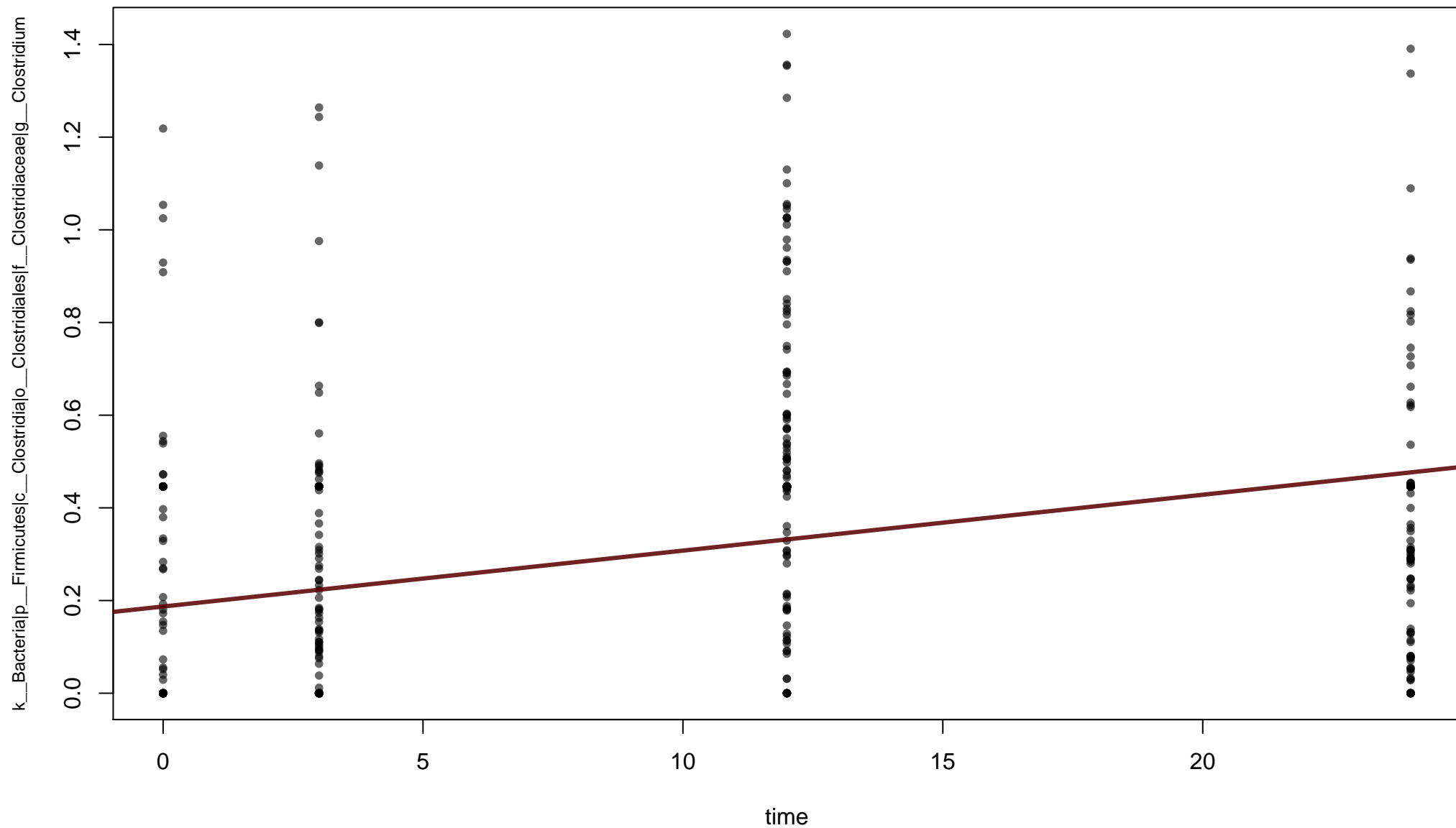
time (0.00332 sd 0.000344, p=1.12e-20, q=2.79e-19)



time (0.012 sd 0.00125, p=1.21e-20, q=2.99e-19)

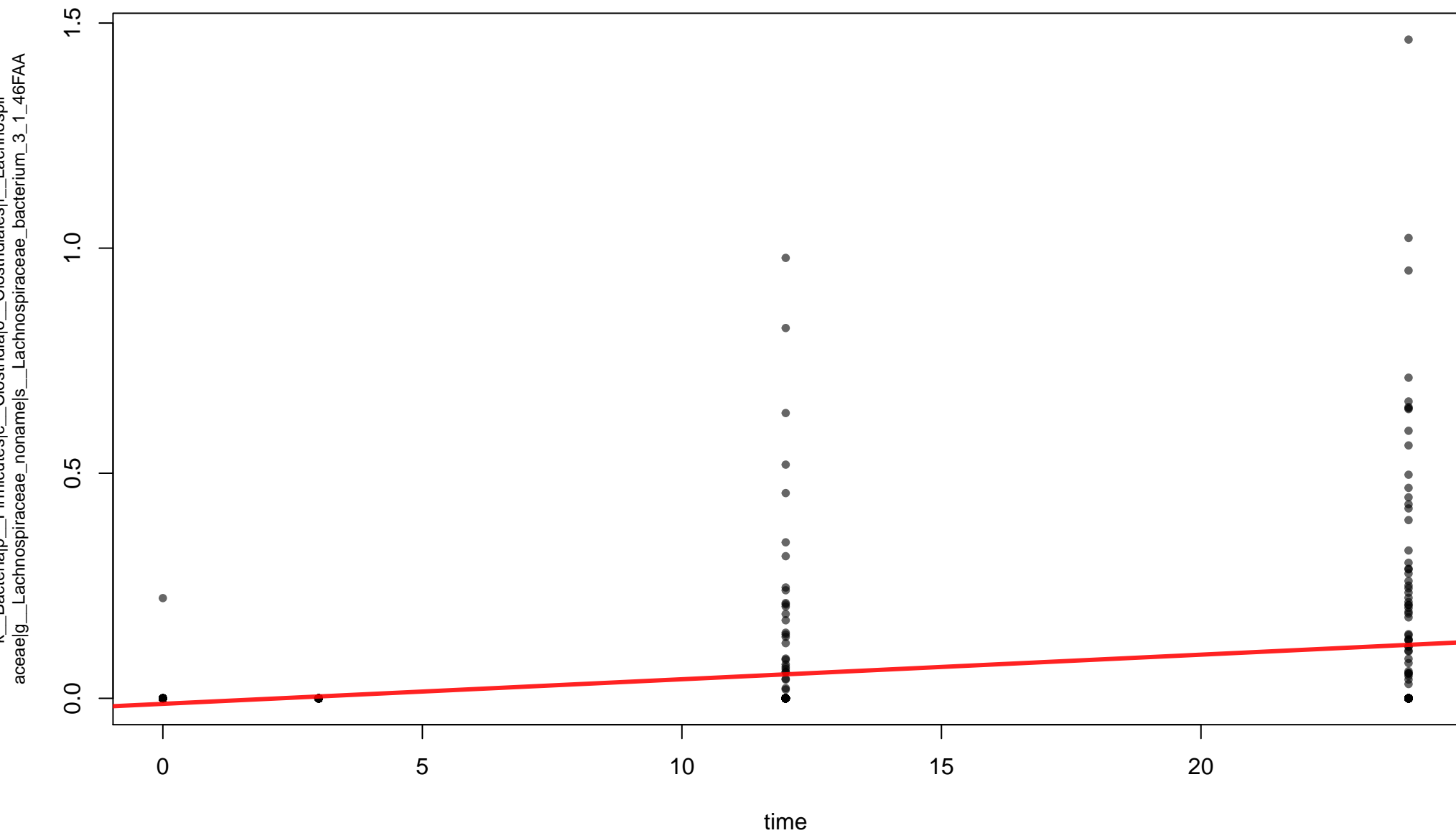


time (0.0121 sd 0.00125, p=1.28e-20, q=3.15e-19)

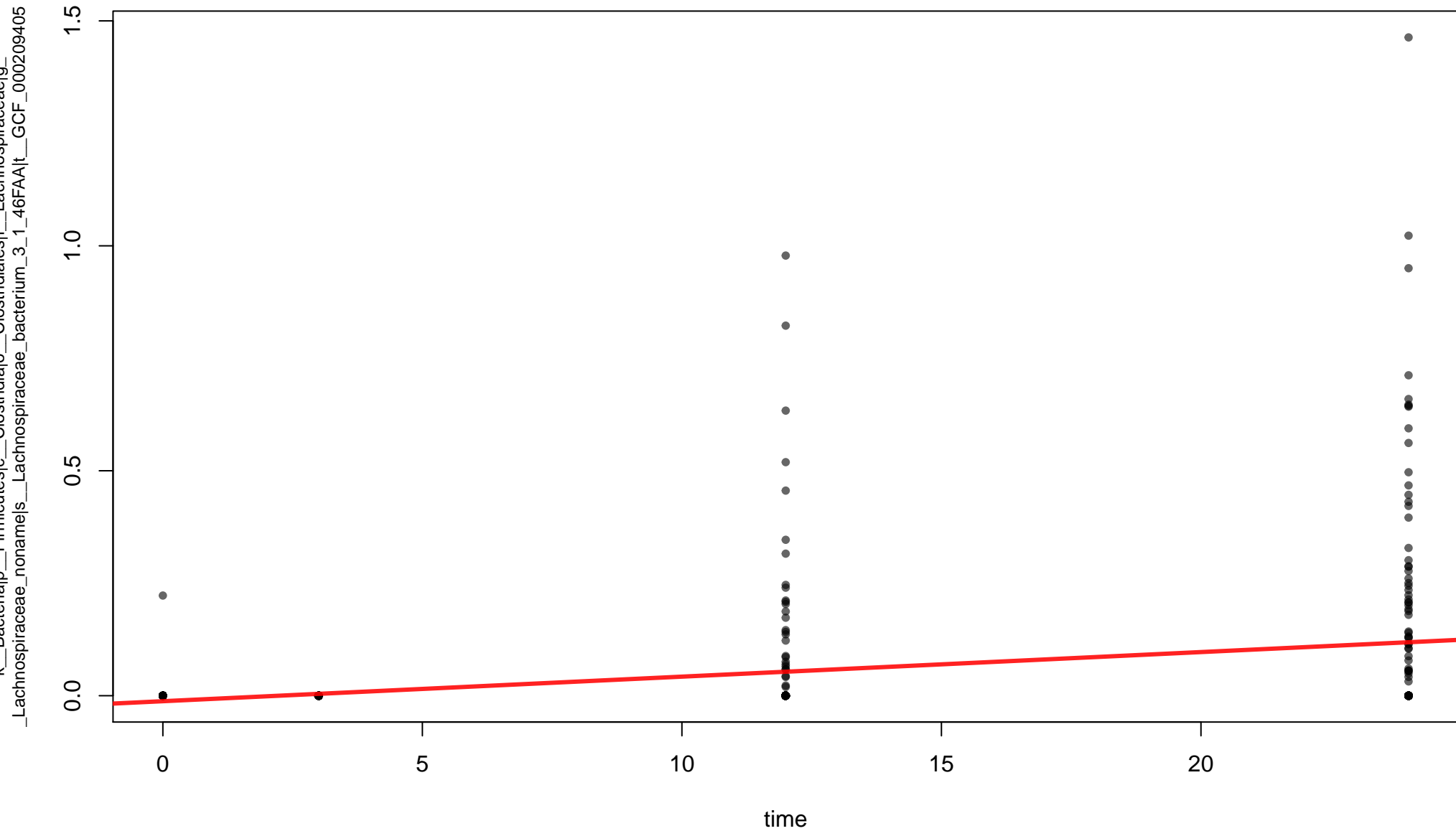




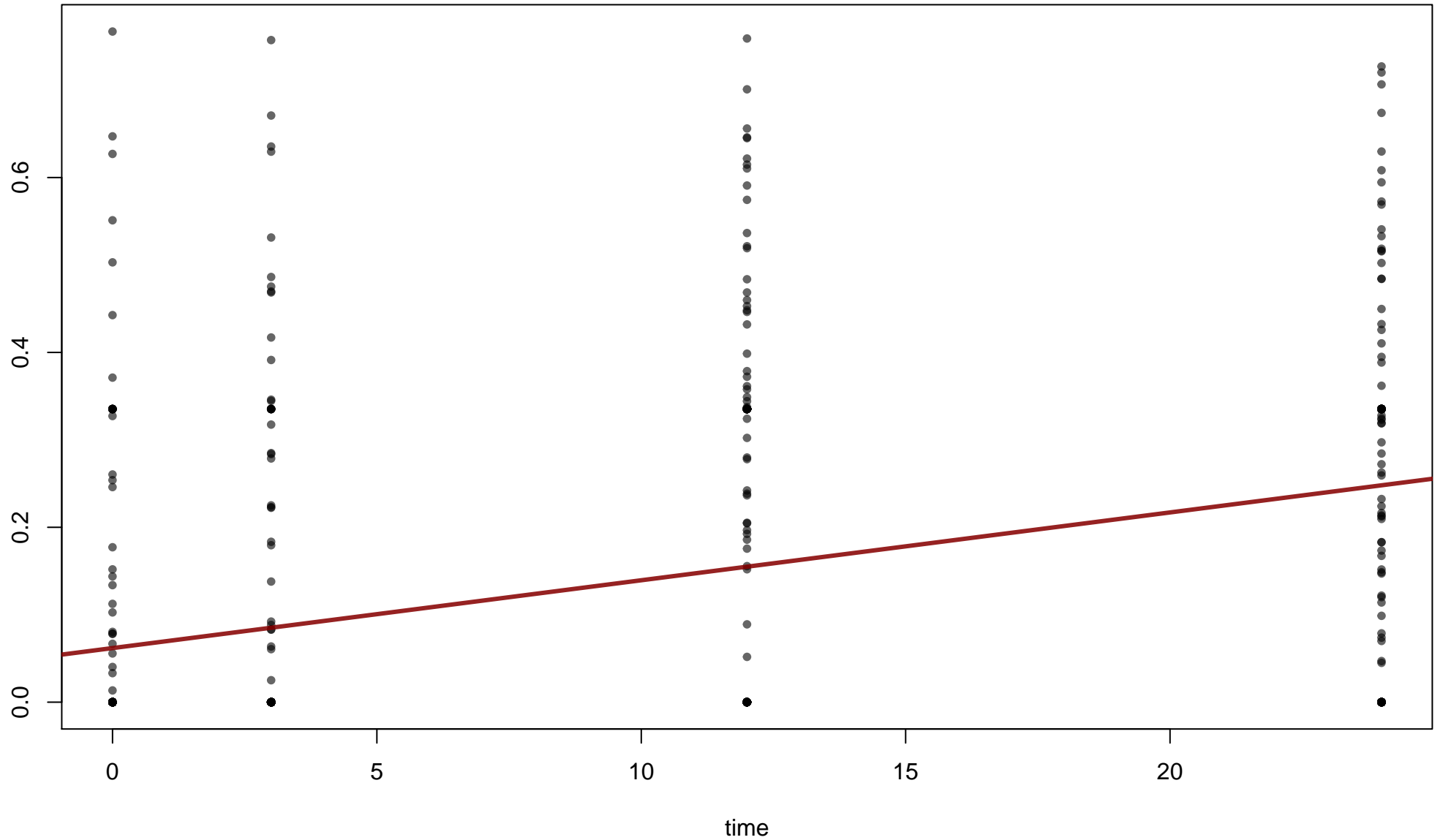
**time (0.00548 sd 0.000569, p=1.39e-20, q=3.35e-19)**



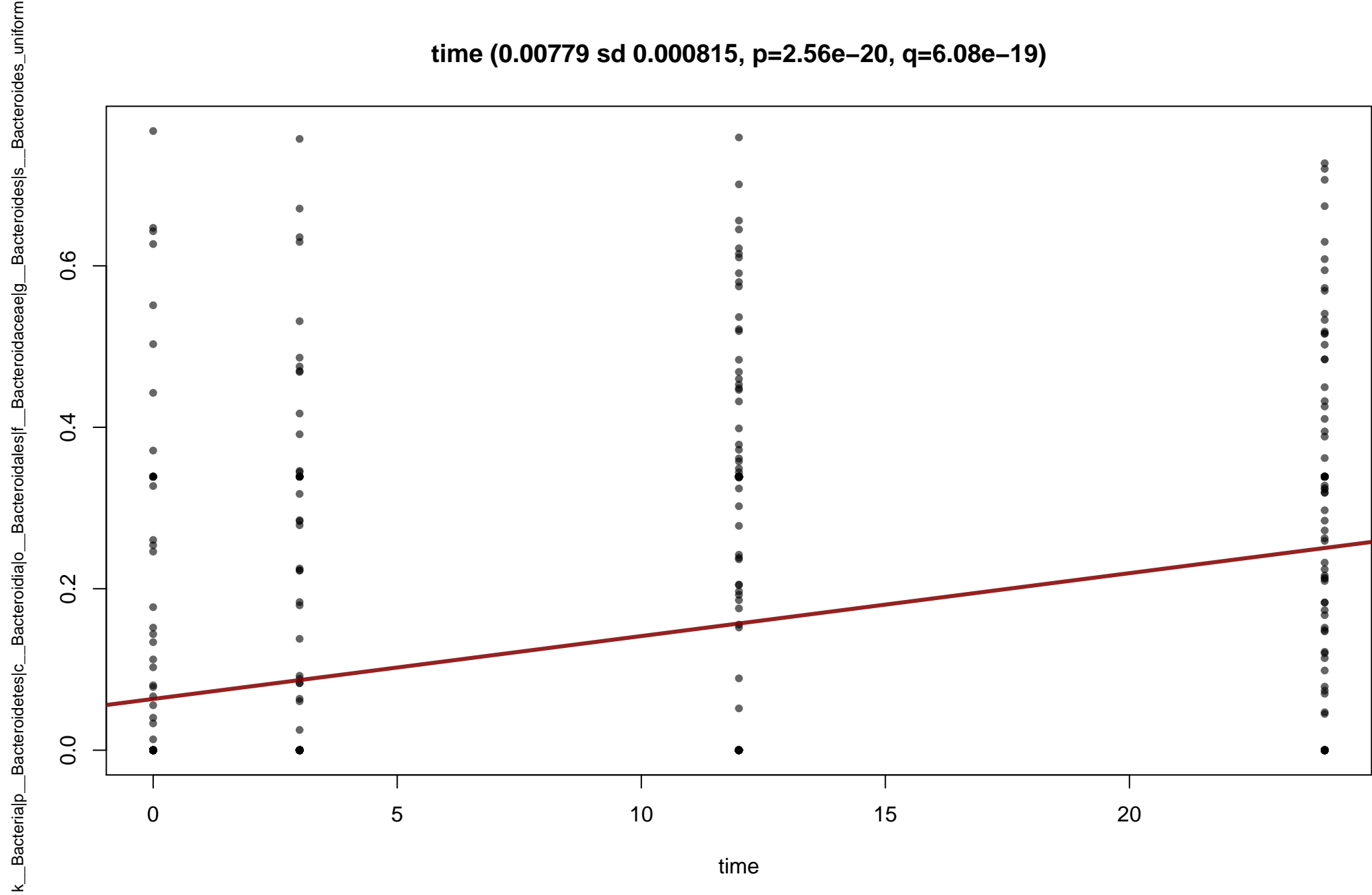
time (0.00548 sd 0.000569, p=1.39e-20, q=3.35e-19)



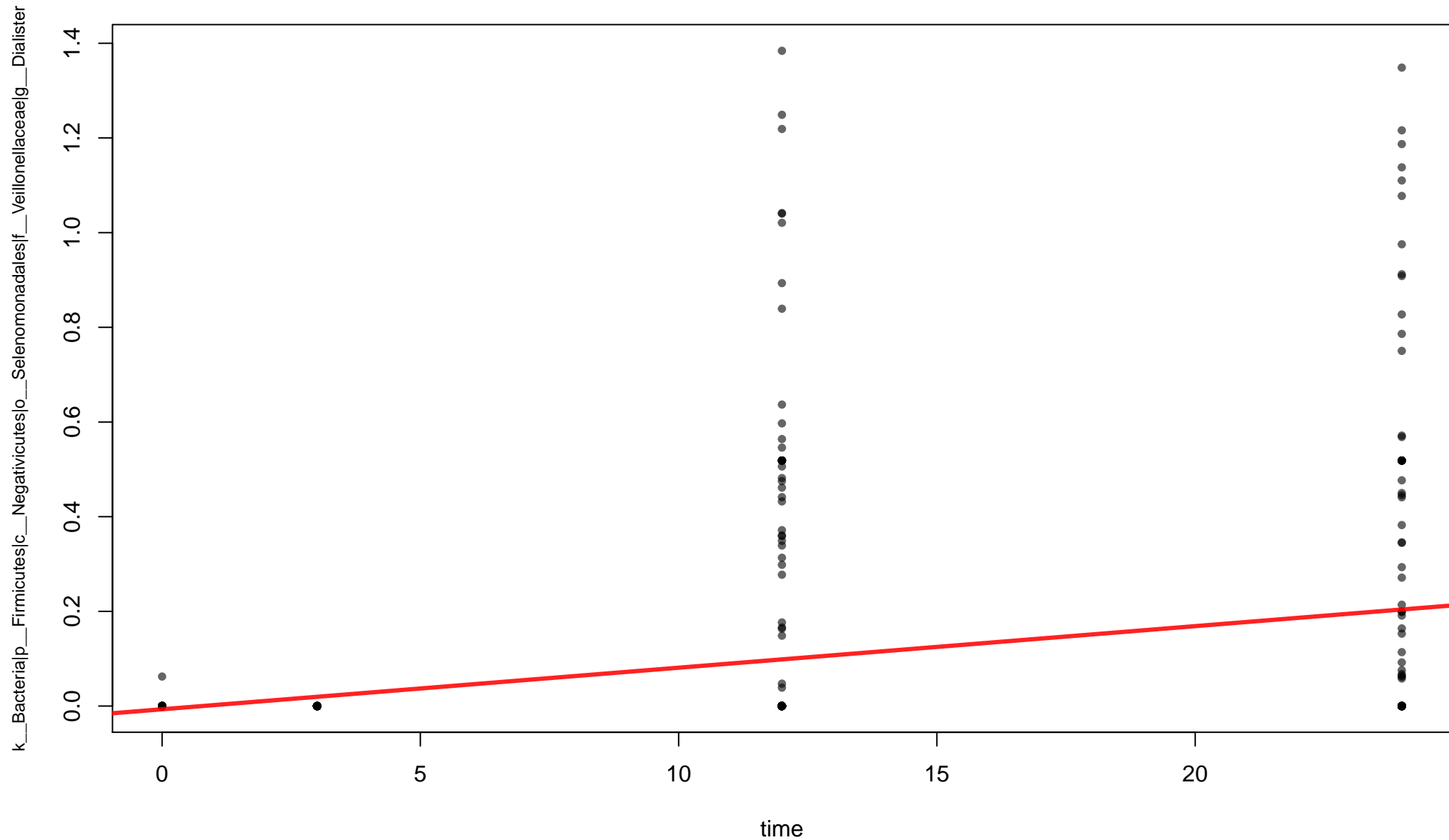
lg\_Bacteroides|\_Bacteroides\_uniformis|\_Bacteroides\_uniformis\_unclassified



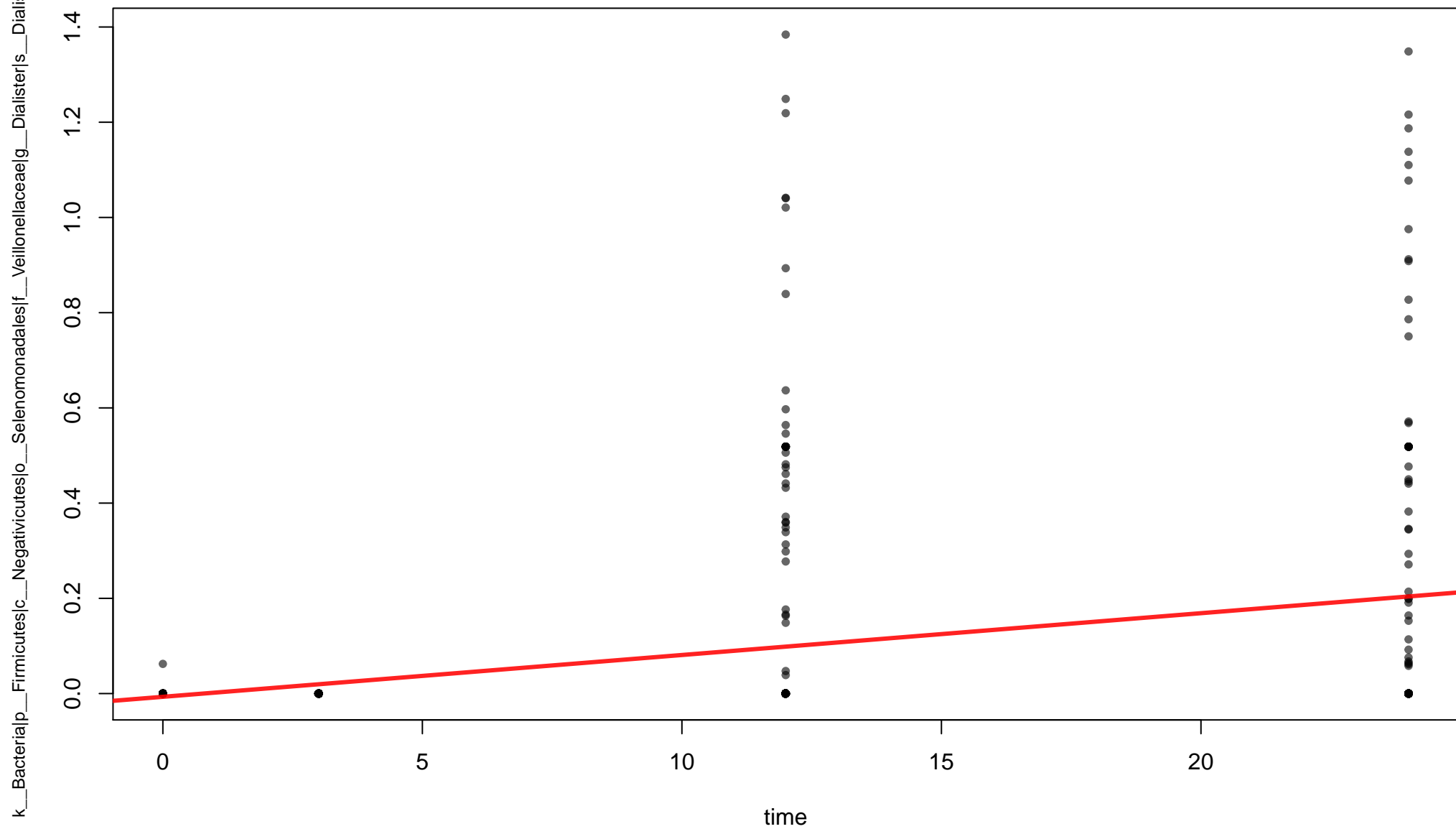
time (0.00779 sd 0.000815, p=2.56e-20, q=6.08e-19)



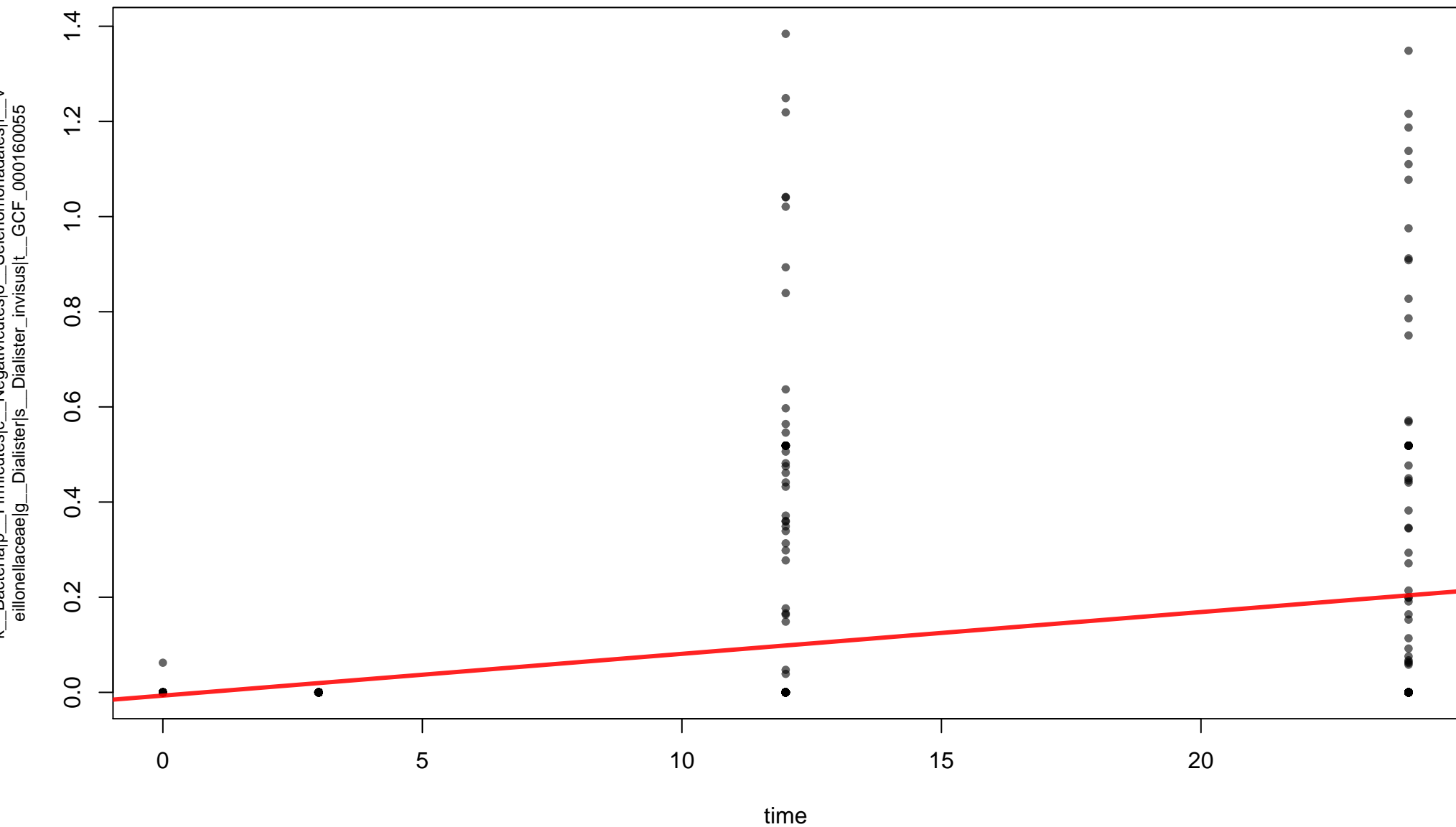
time (0.00876 sd 0.000919, p=3.23e-20, q=7.52e-19)



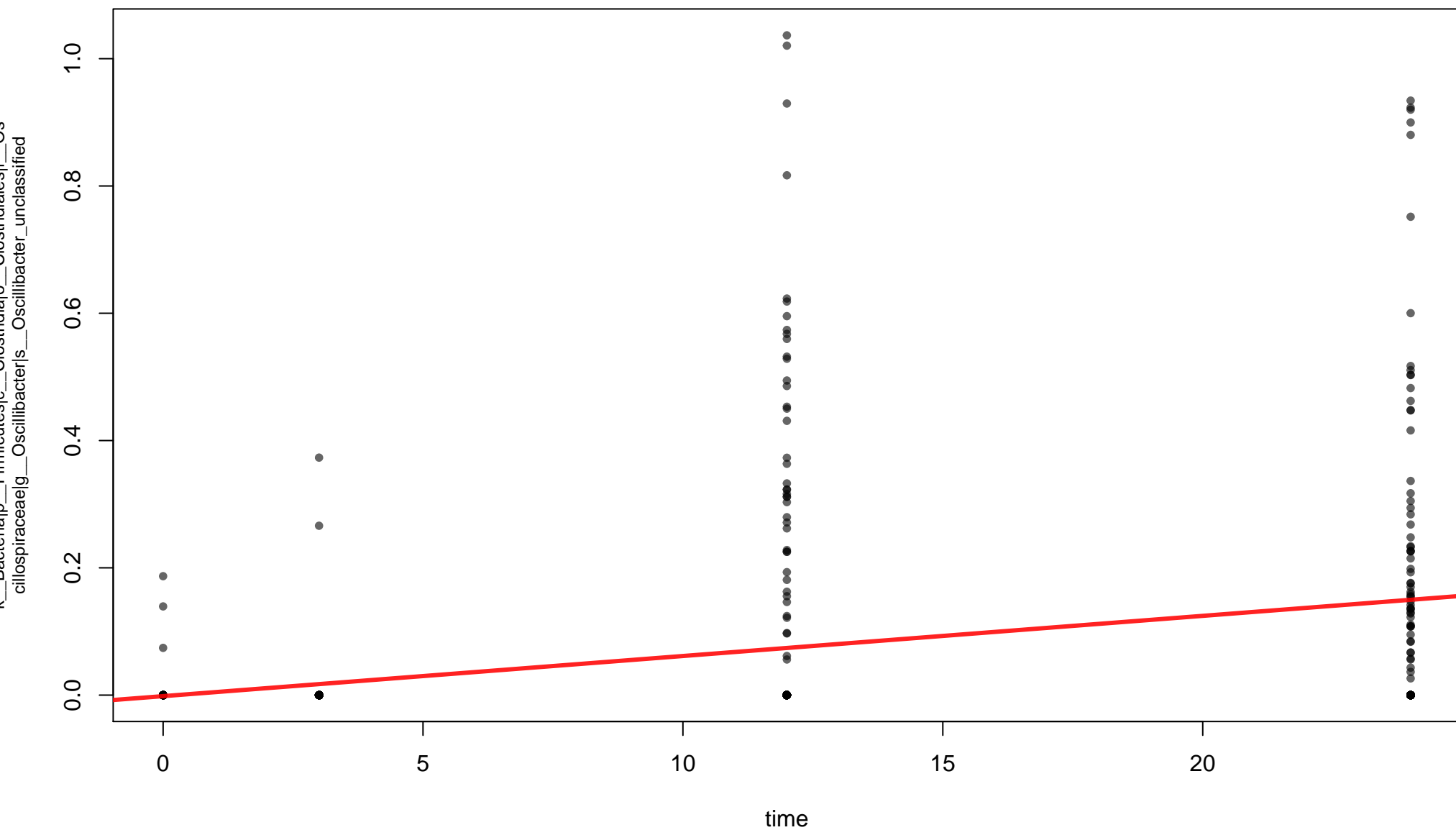
time (0.00876 sd 0.000919, p=3.23e-20, q=7.52e-19)



time (0.00876 sd 0.000919, p=3.23e-20, q=7.52e-19)

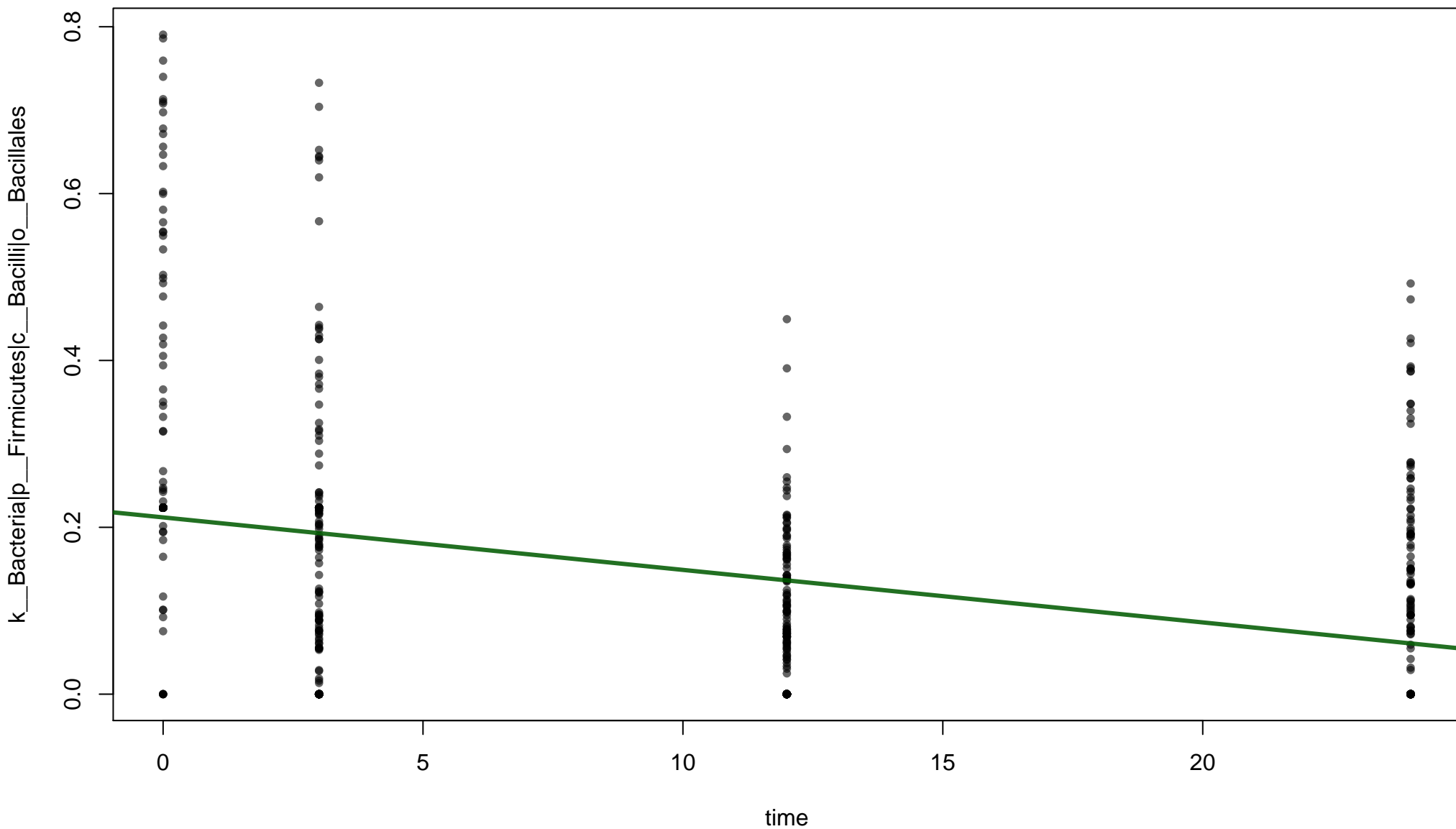


time (0.00631 sd 0.000667, p=5.41e-20, q=1.25e-18)



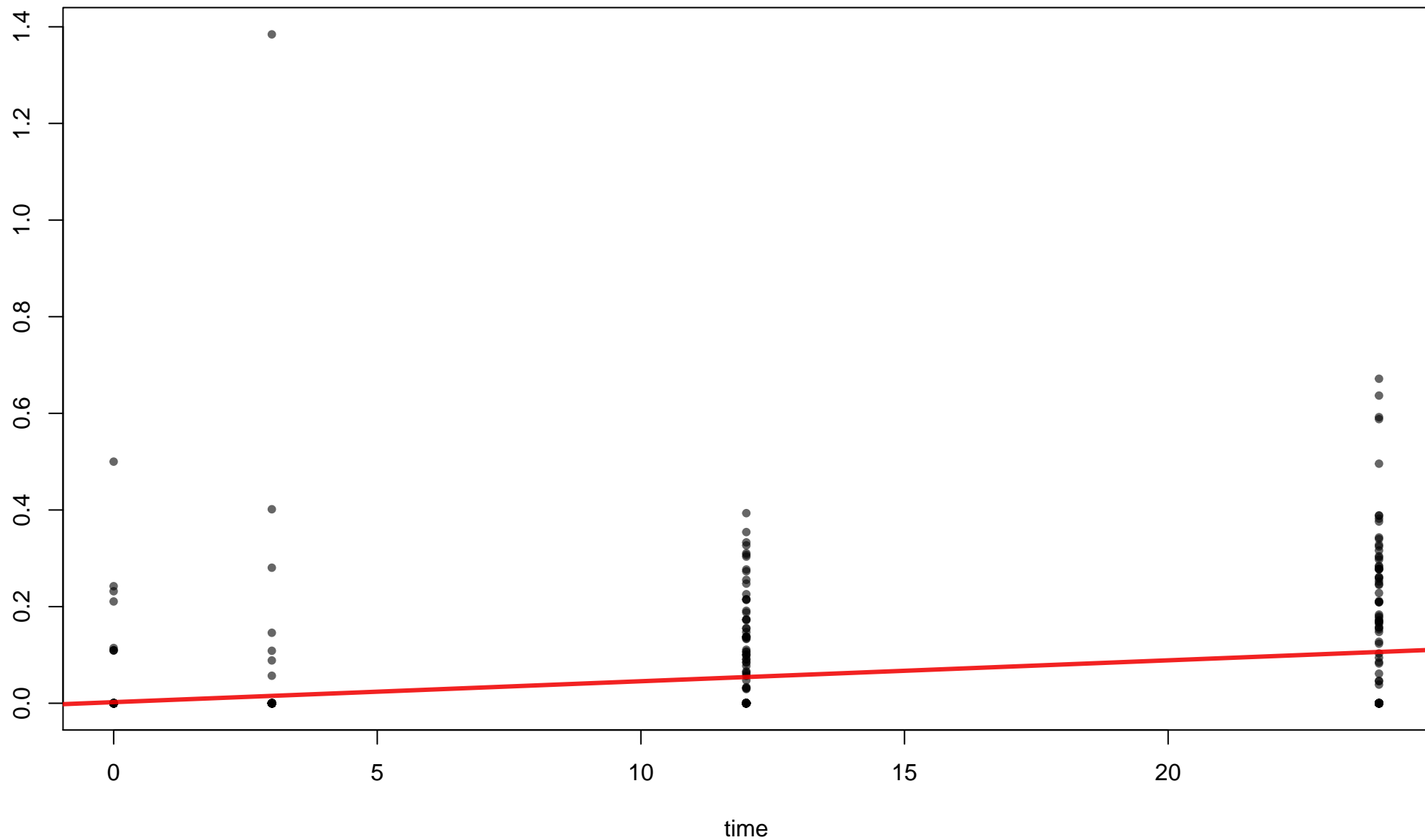


time ( $-0.0063$  sd  $0.000687$ ,  $p=6.34e-19$ ,  $q=1.45e-17$ )

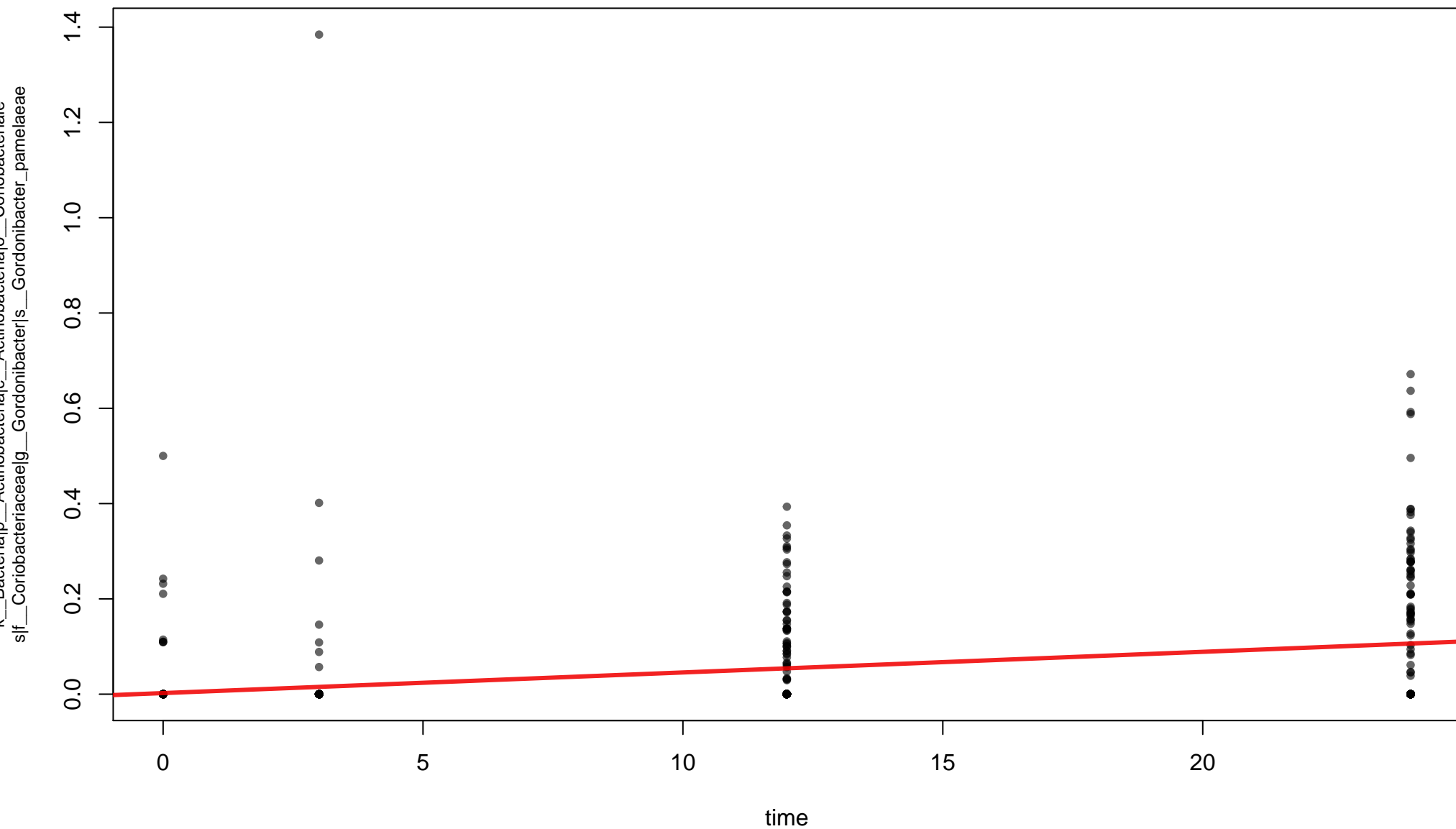


time (0.00433 sd 0.000475, p=9.54e-19, q=2.14e-17)

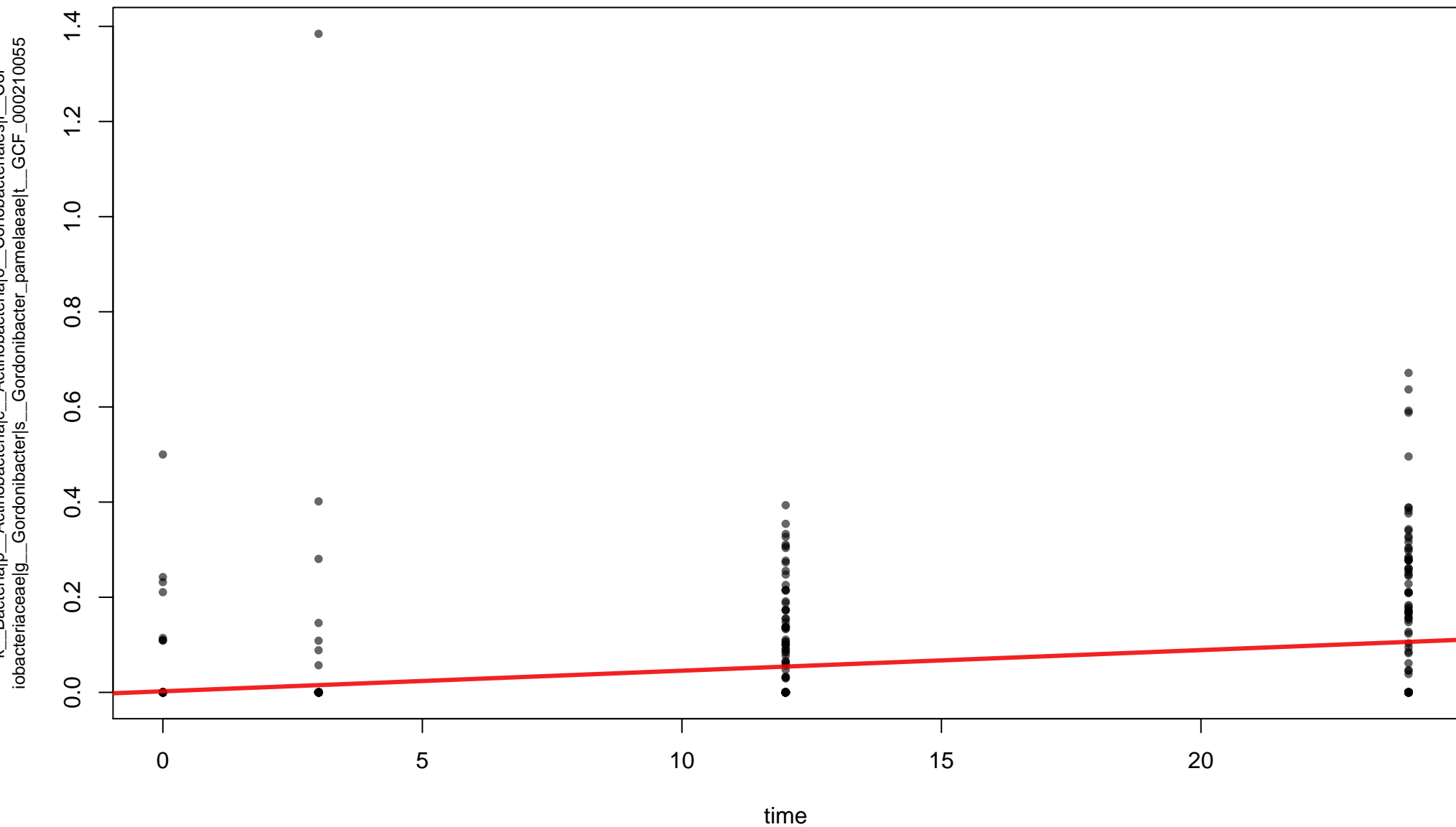
k\_Bacteria|p\_Actinobacteria|c\_Actinobacteria|o\_Corionobacterales|f\_Corionobacterales|g\_Gordonibacter



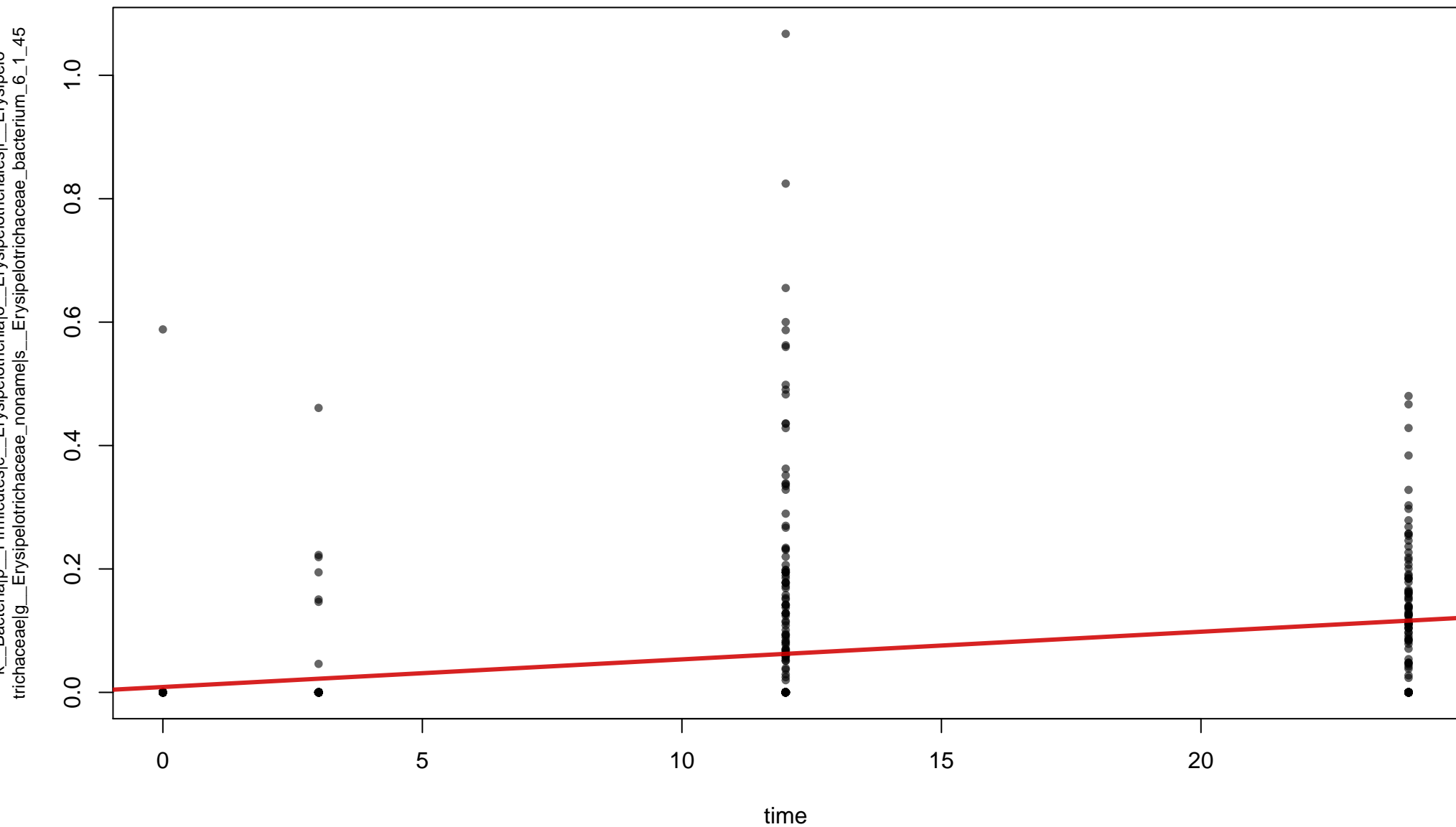
time (0.00433 sd 0.000475, p=9.54e-19, q=2.14e-17)



time (0.00433 sd 0.000475, p=9.54e-19, q=2.14e-17)

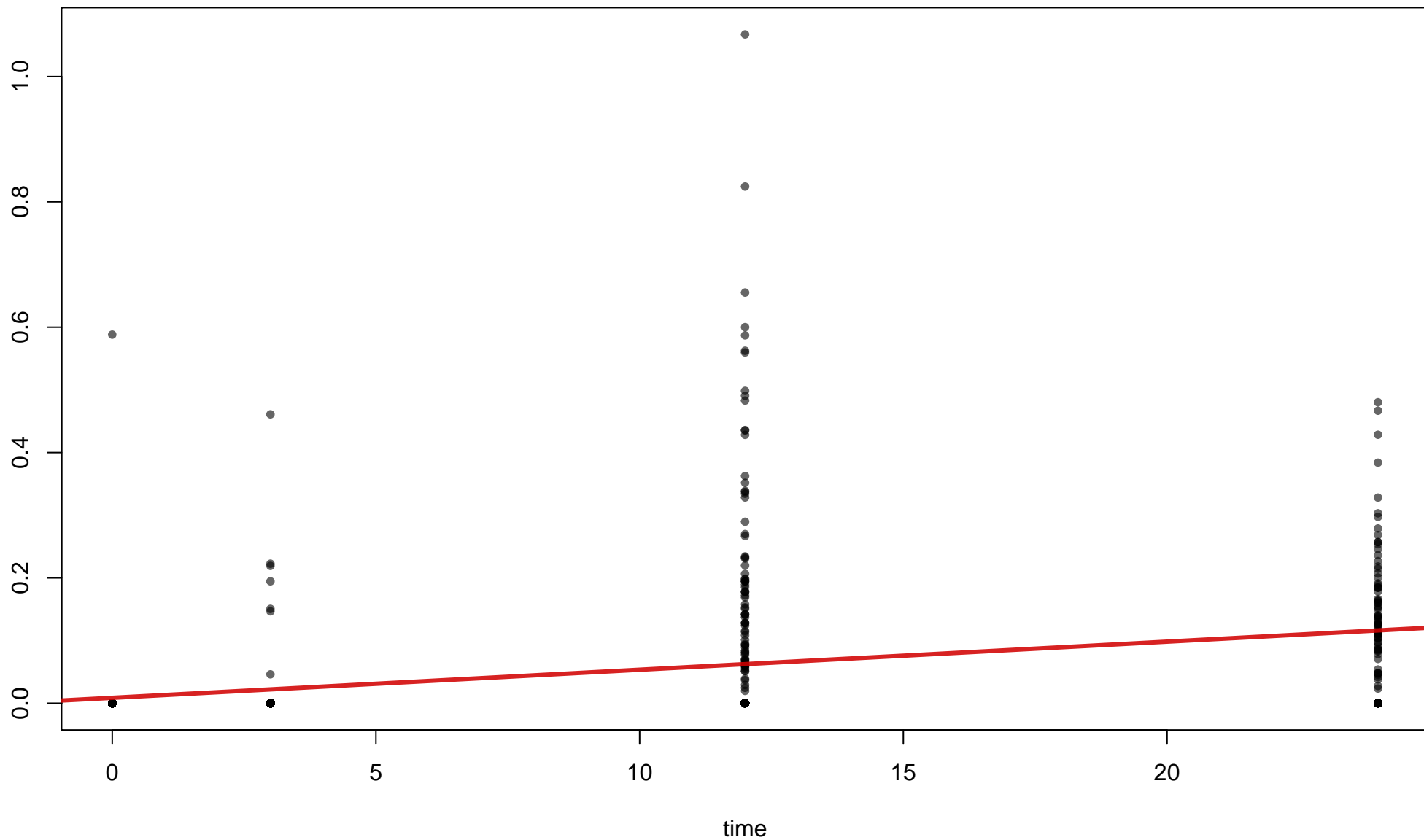


time (0.00449 sd 0.000493, p=1.15e-18, q=2.54e-17)

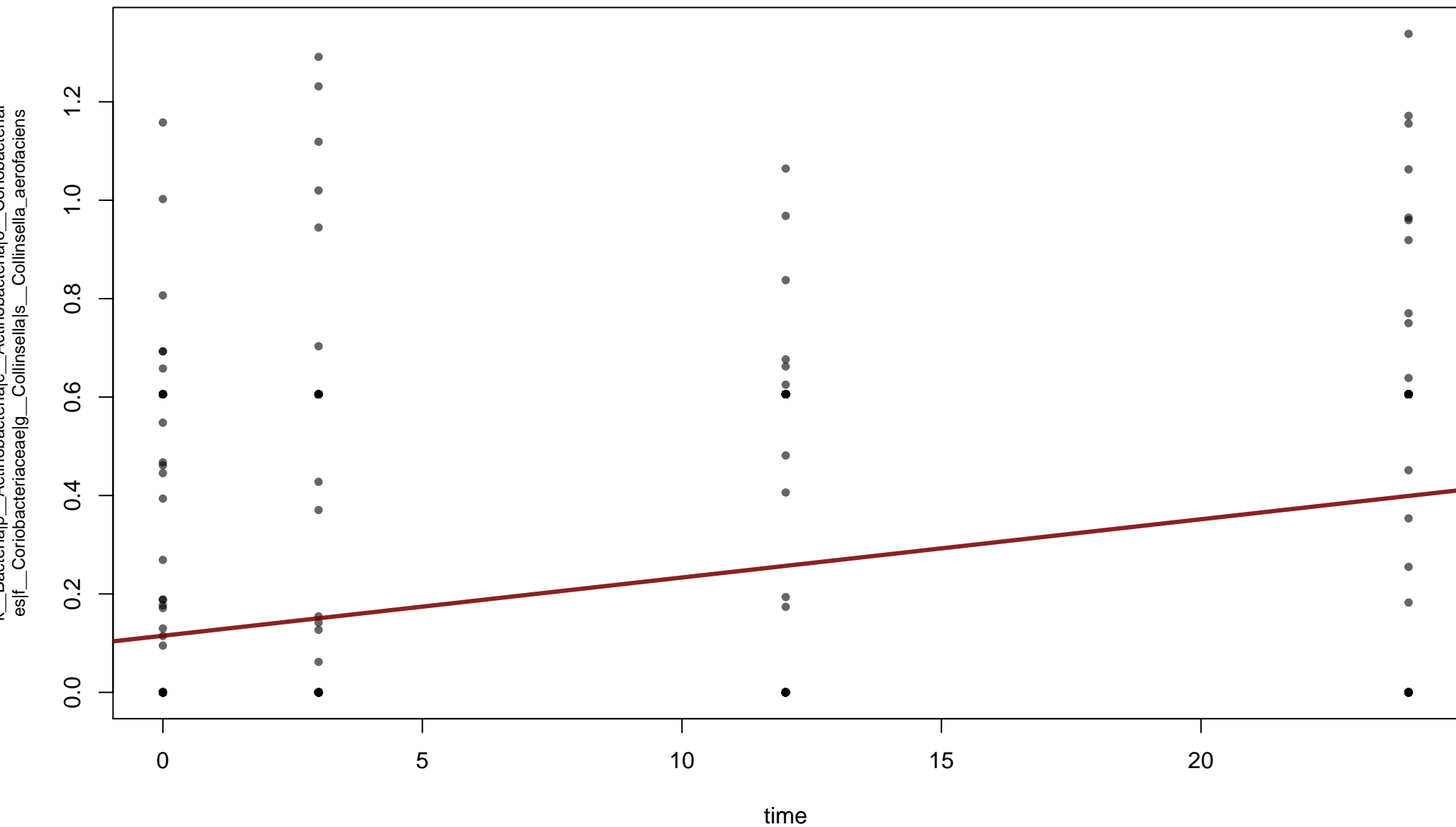


time (0.00449 sd 0.000493, p=1.15e-18, q=2.54e-17)

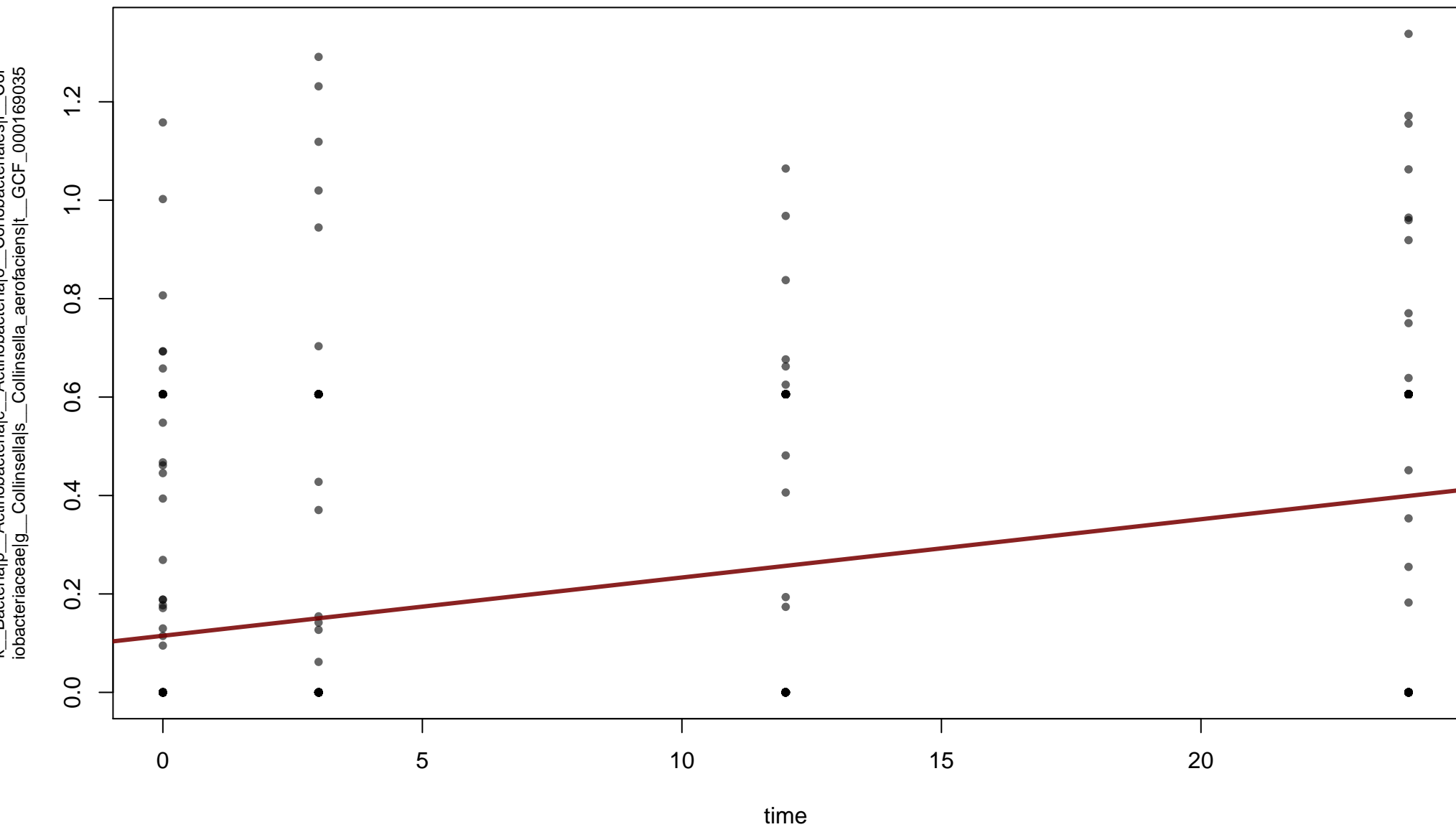
aeig\_\_Erysipelotrichaceae\_noname[s\_\_Erysipelotrichaceae\_bacterium\_6\_1\_45[t\_\_GCF\_000242175



time (0.0119 sd 0.00132, p=2.47e-18, q=5.4e-17)

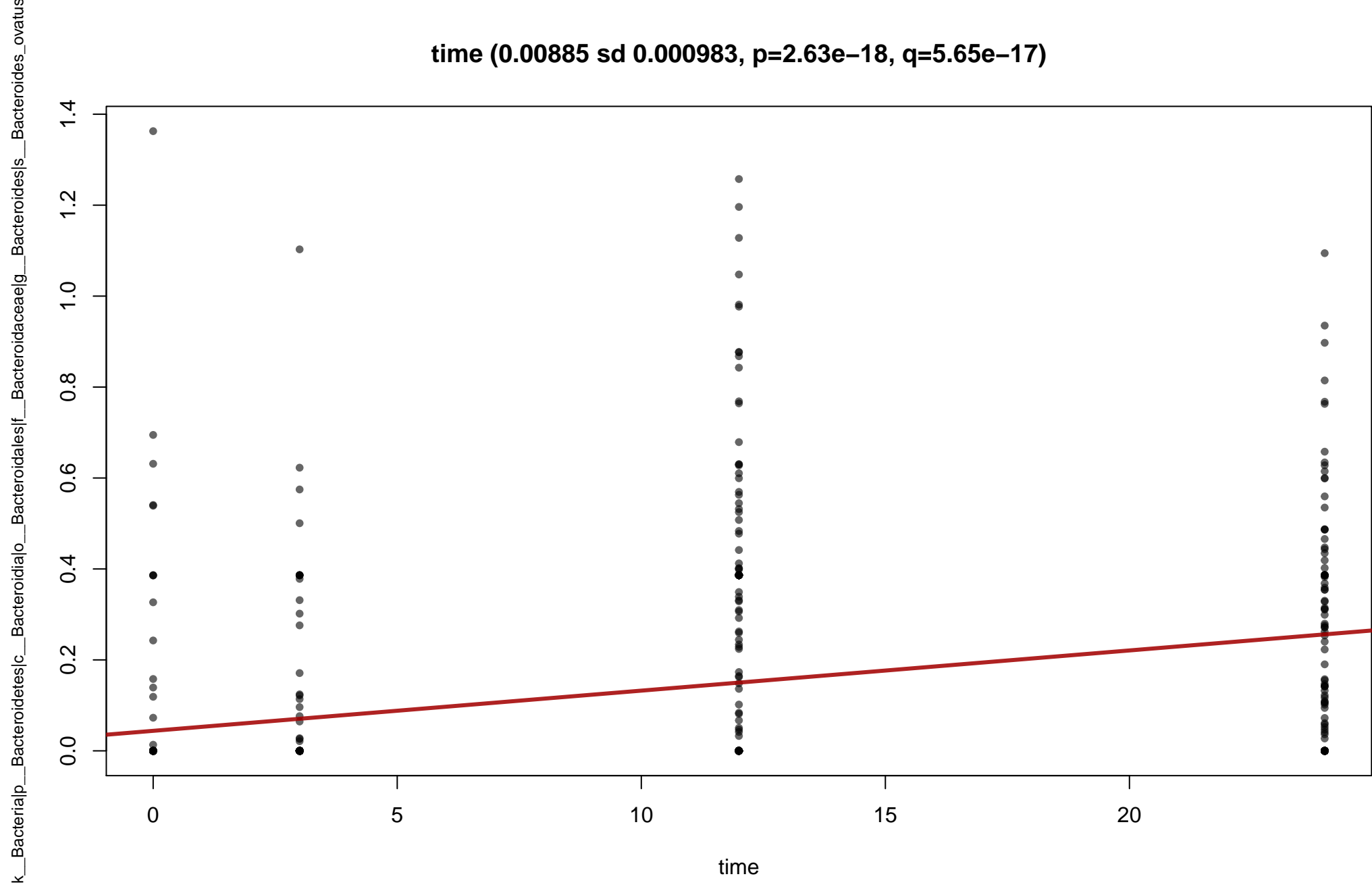


time (0.0119 sd 0.00132, p=2.47e-18, q=5.4e-17)

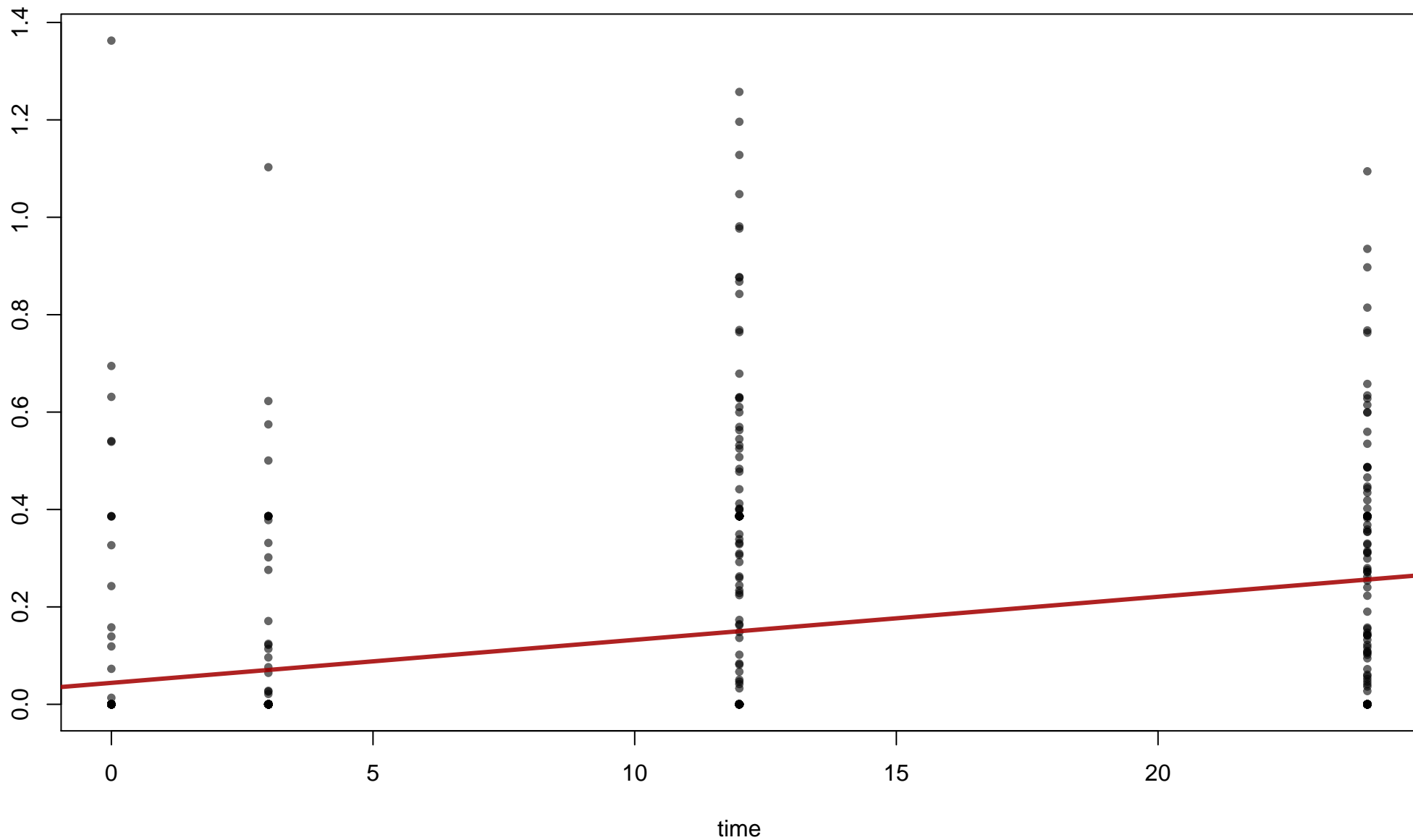




time (0.00885 sd 0.000983, p=2.63e-18, q=5.65e-17)

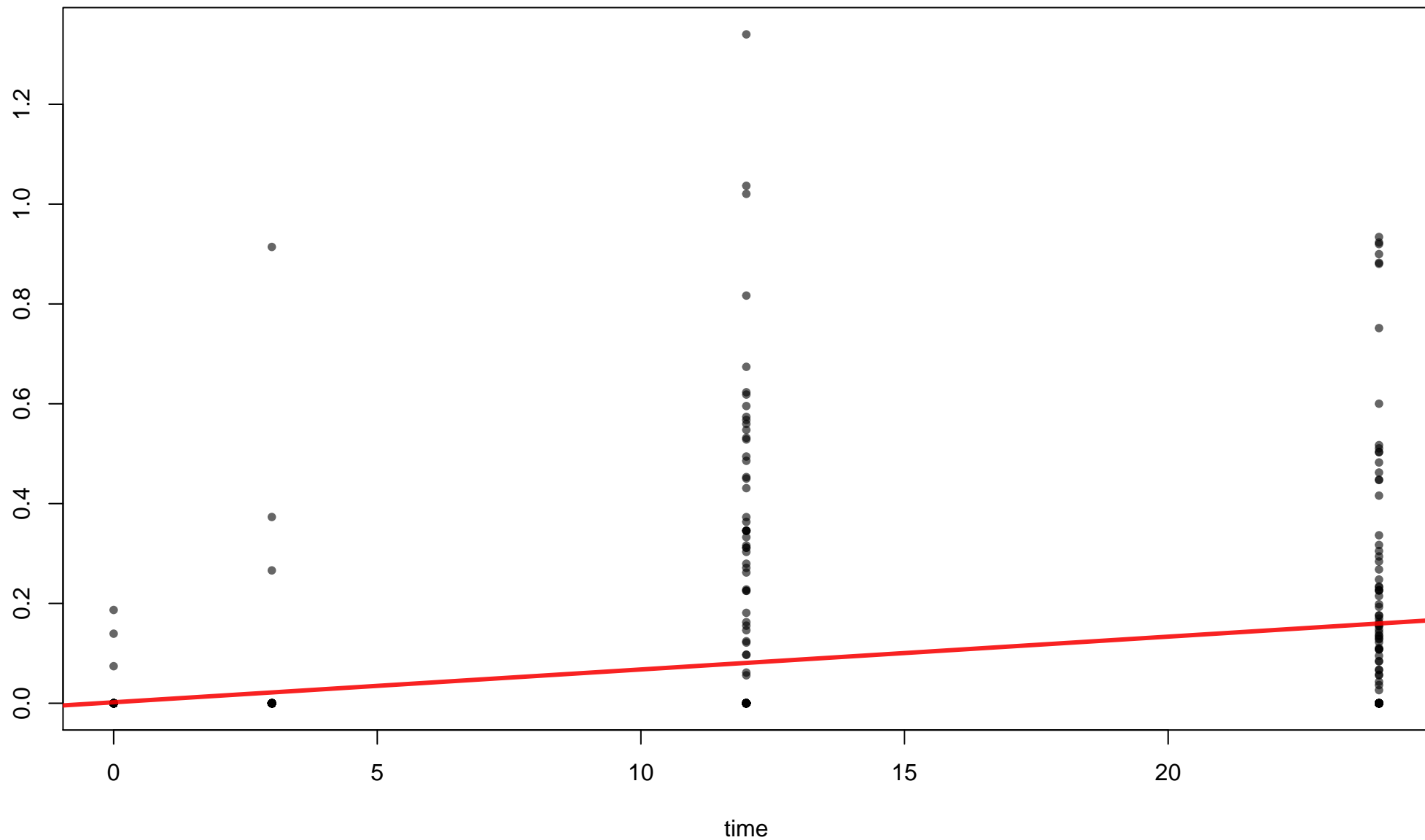


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n__Bacteriophages_Bacteroides_s__Bacteroides_ovatus|_Bacteroides_ovatus_unclassified
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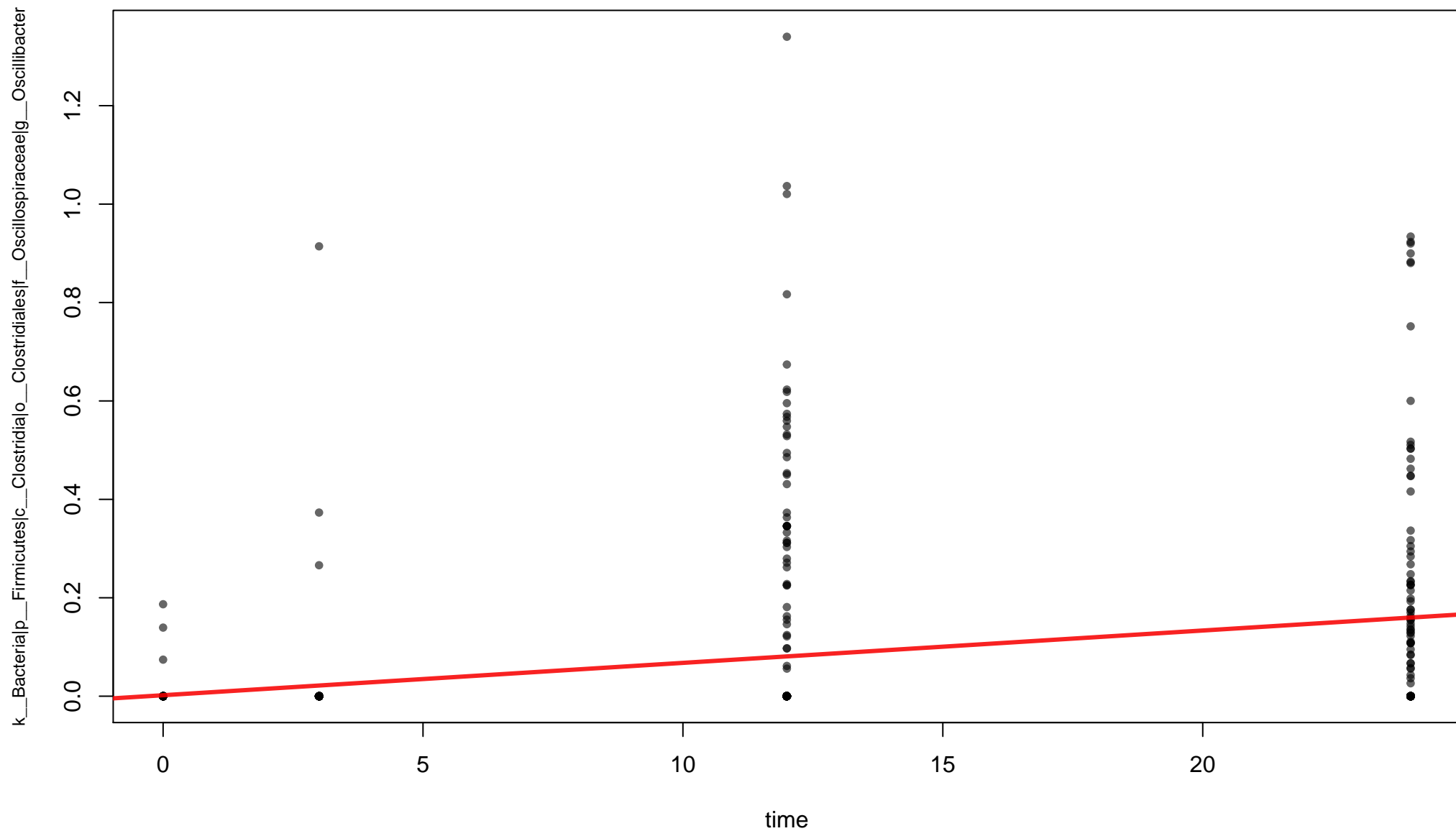


time (0.00658 sd 0.000733, p=3.02e-18, q=6.41e-17)

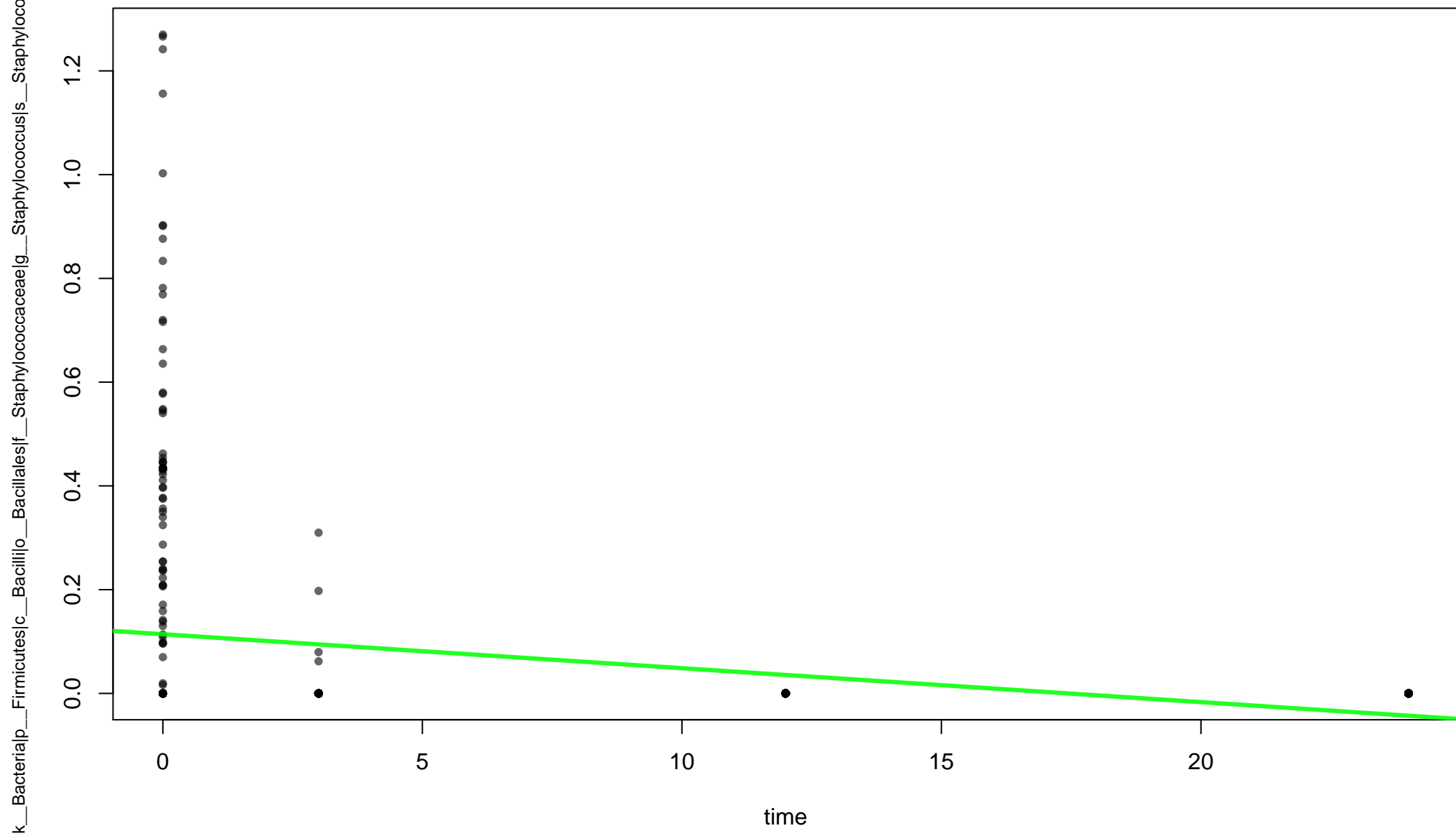
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Clostridia|o\_\_Clostridiales|f\_\_Oscillospiraceae



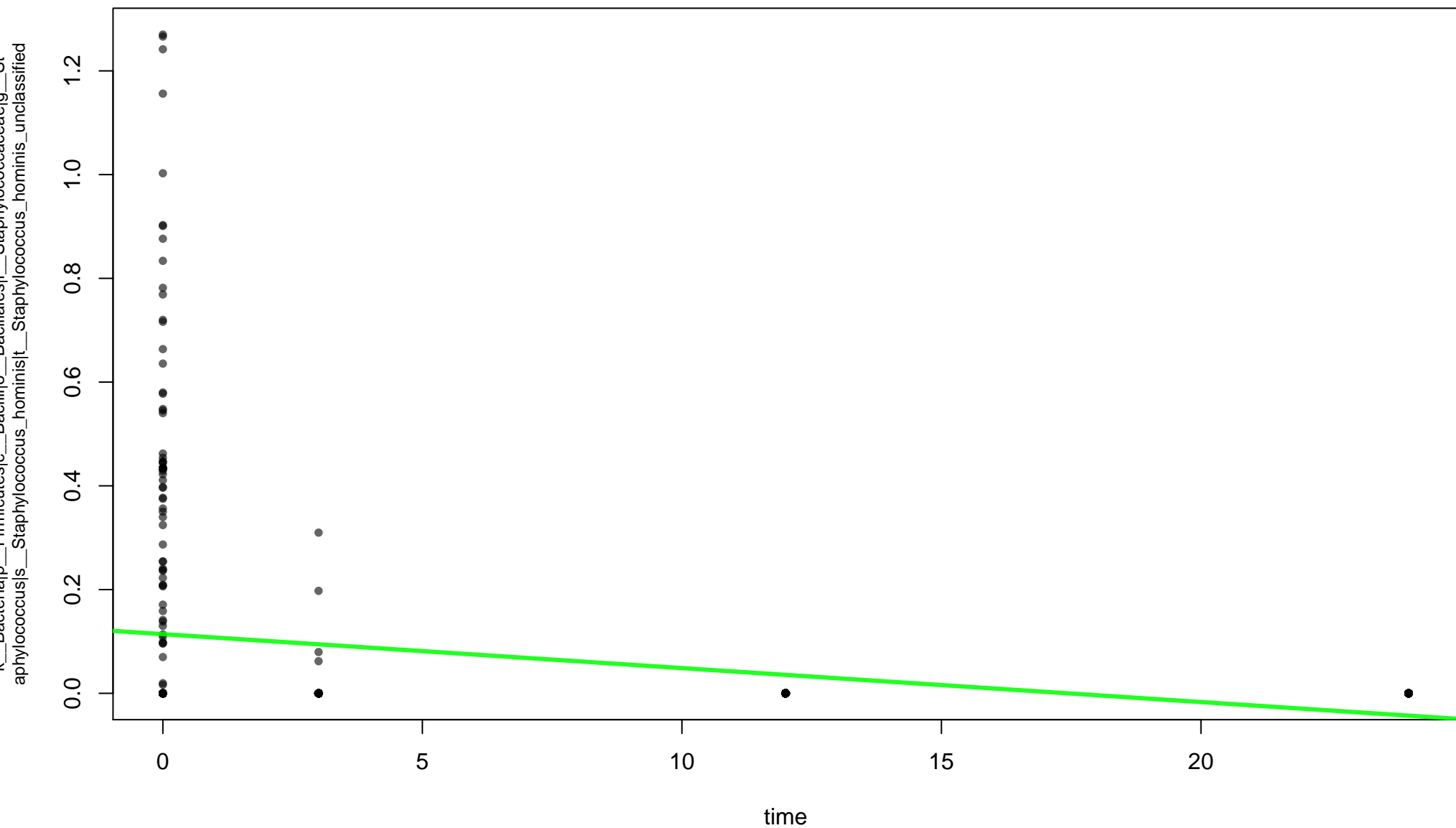
time (0.00658 sd 0.000733, p=3.02e-18, q=6.41e-17)



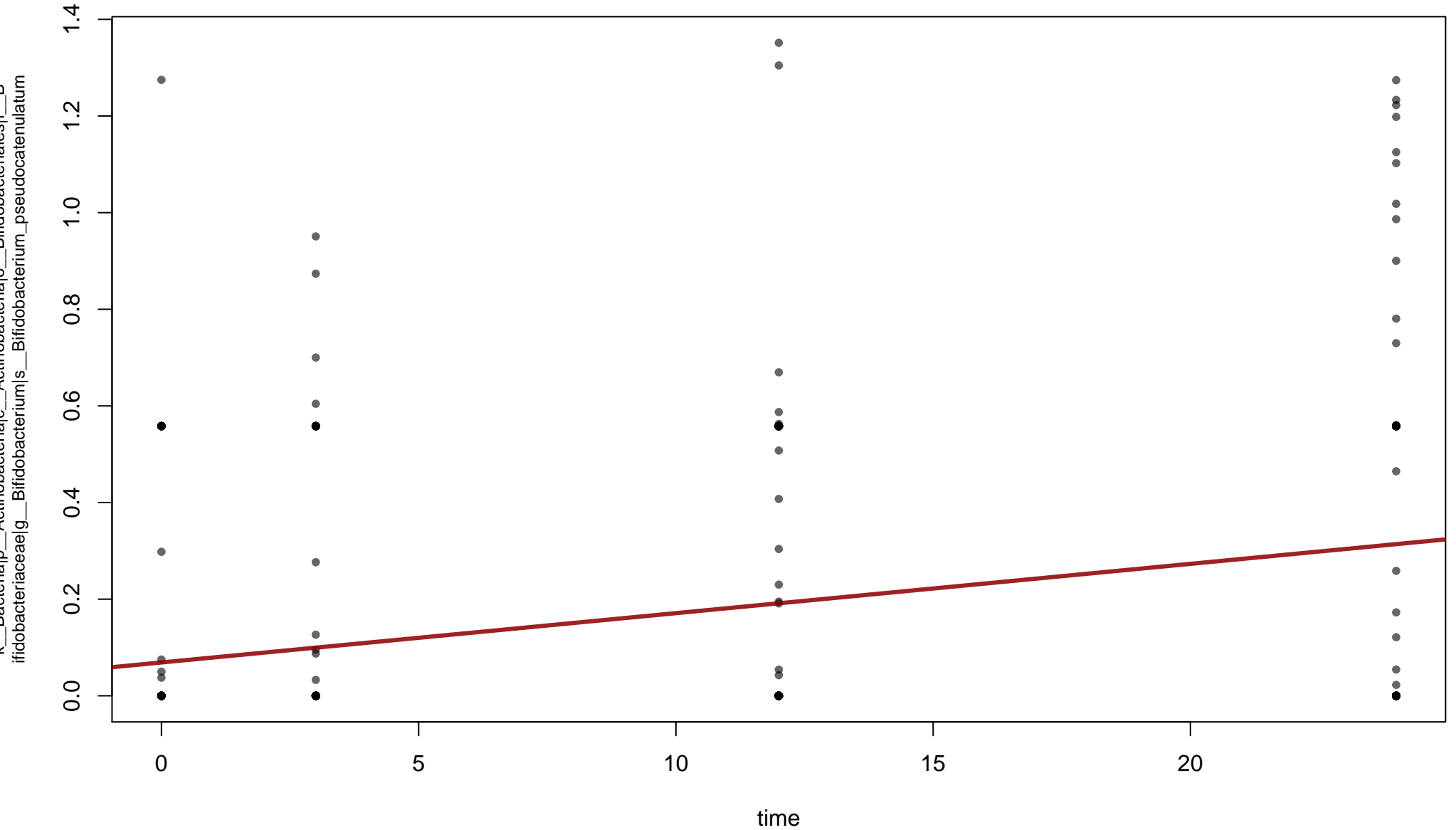
time ( $-0.00654$  sd  $0.00076$ ,  $p=6.07e-17$ ,  $q=1.27e-15$ )



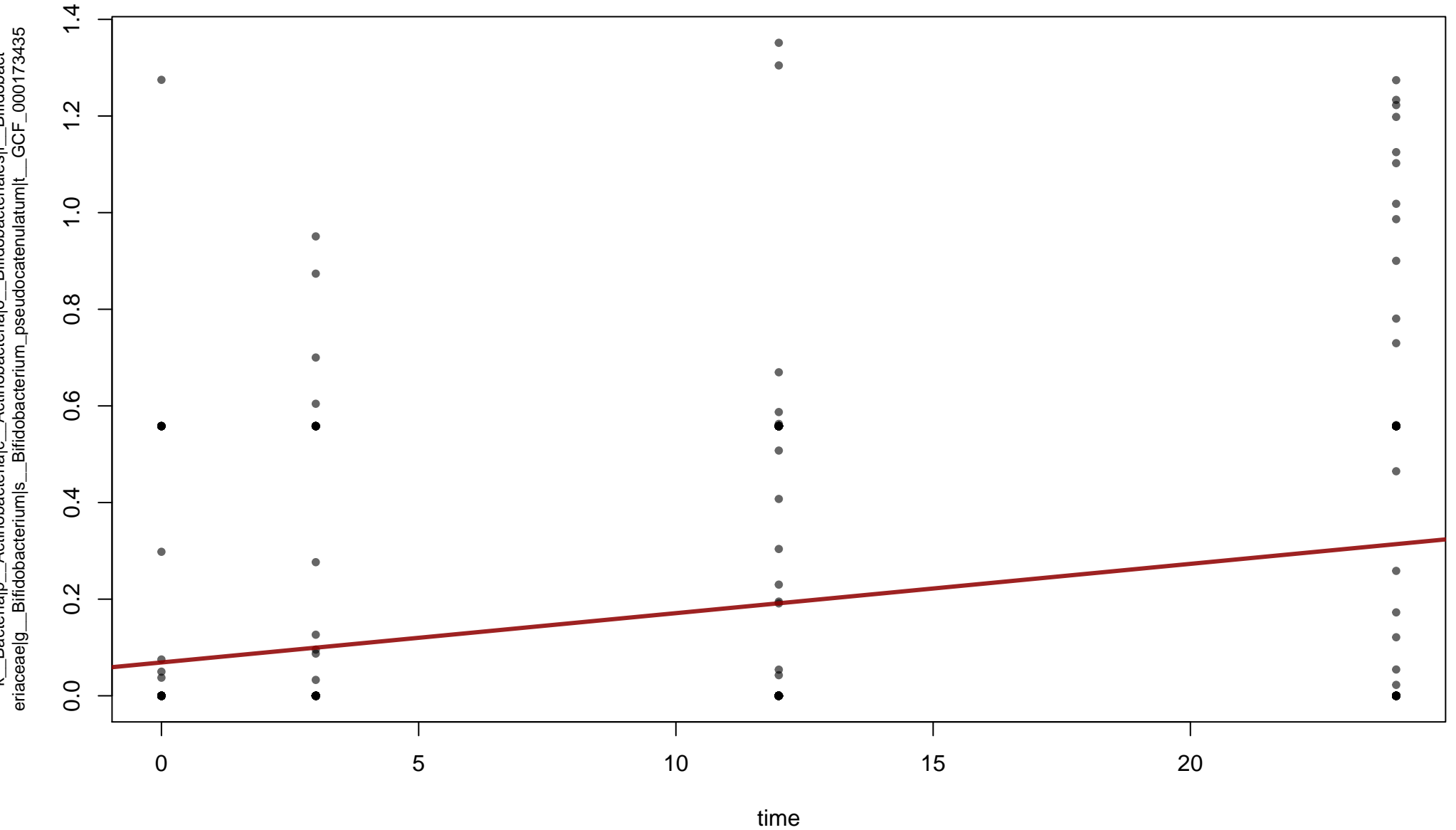
time ( $-0.00654$  sd  $0.00076$ ,  $p=6.07e-17$ ,  $q=1.27e-15$ )



time (0.0102 sd 0.00119, p=7.24e-17, q=1.5e-15)

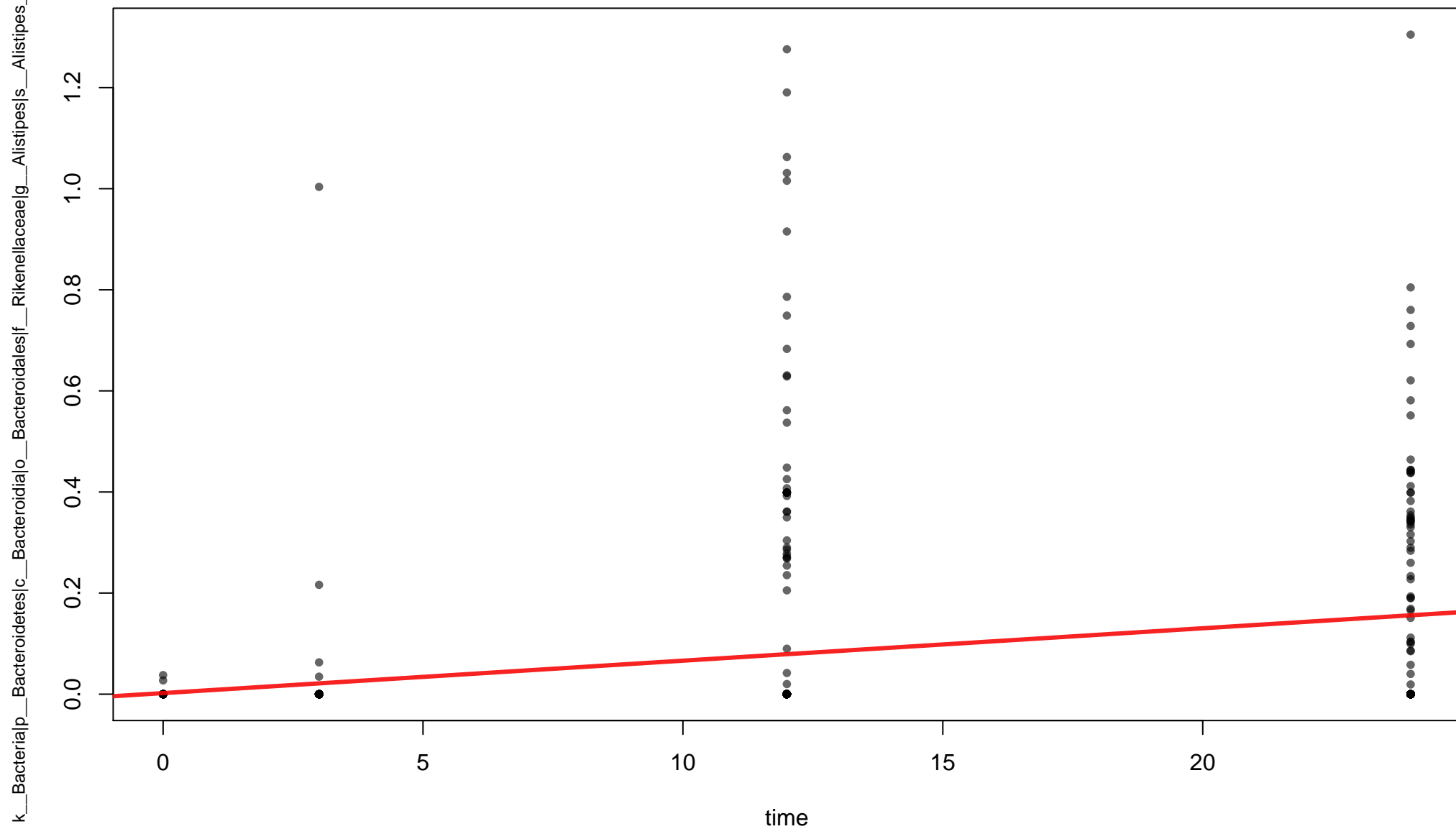


time (0.0102 sd 0.00119, p=7.24e-17, q=1.5e-15)

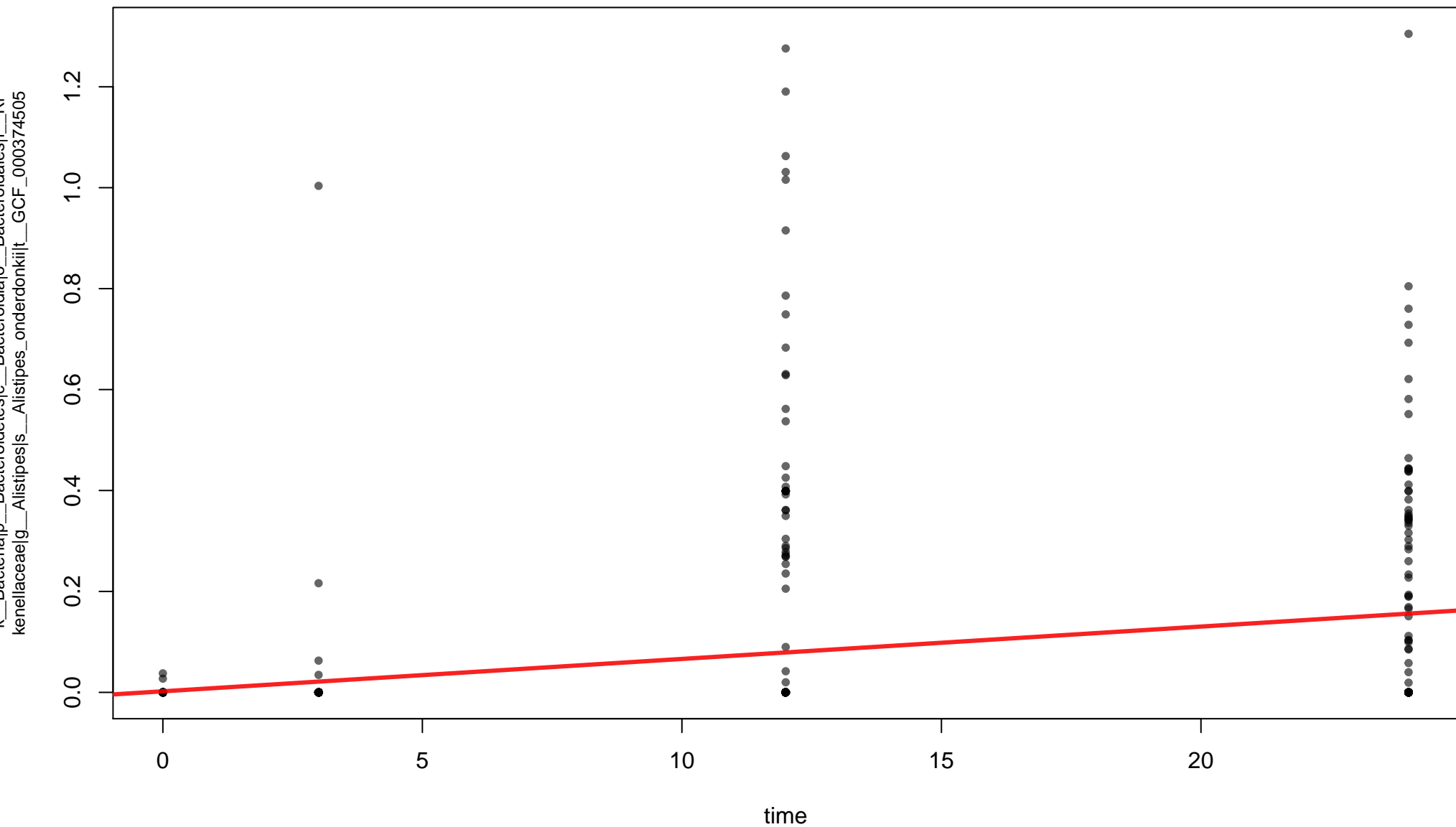




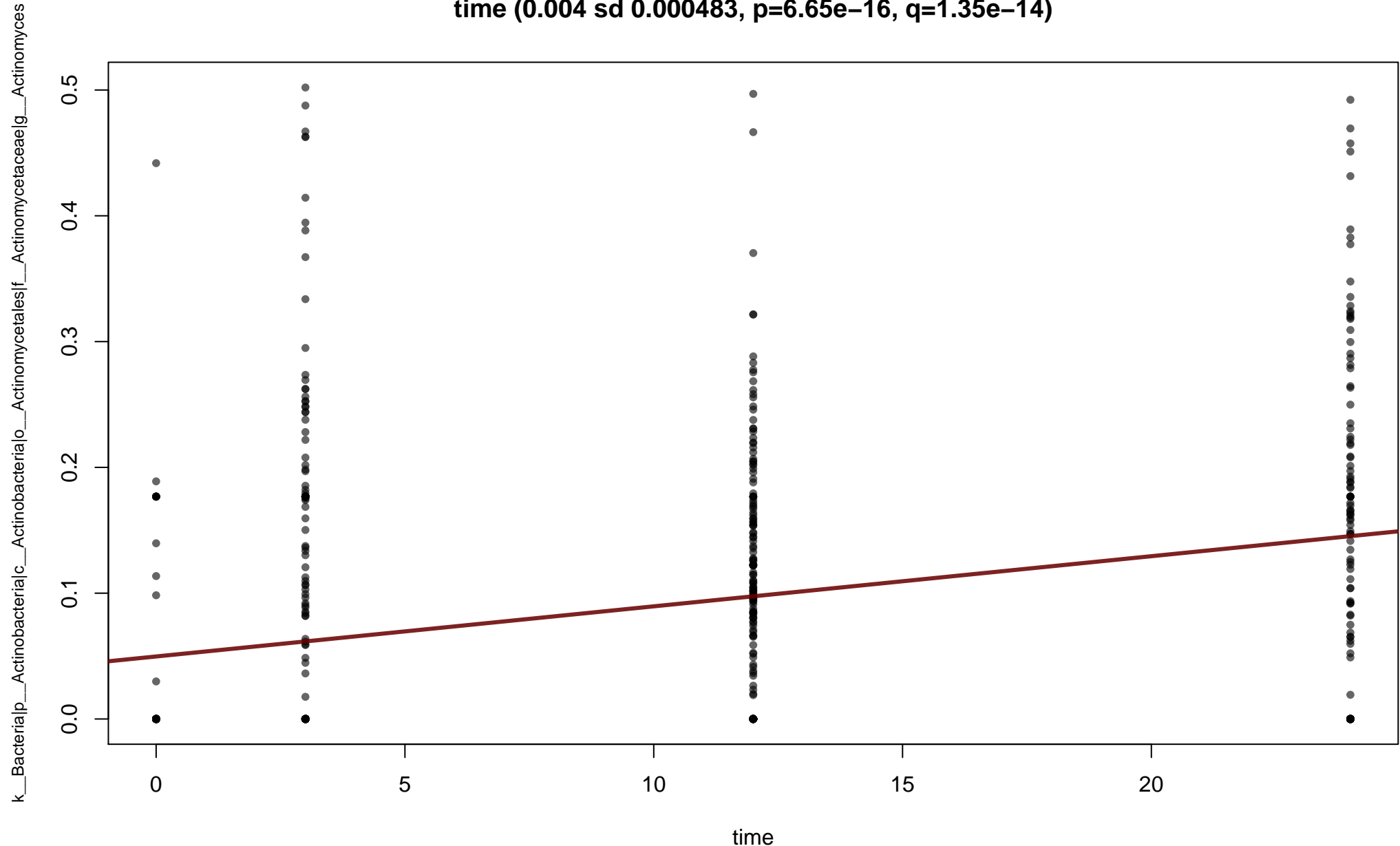
time (0.00642 sd 0.000769, p=4.07e-16, q=8.31e-15)



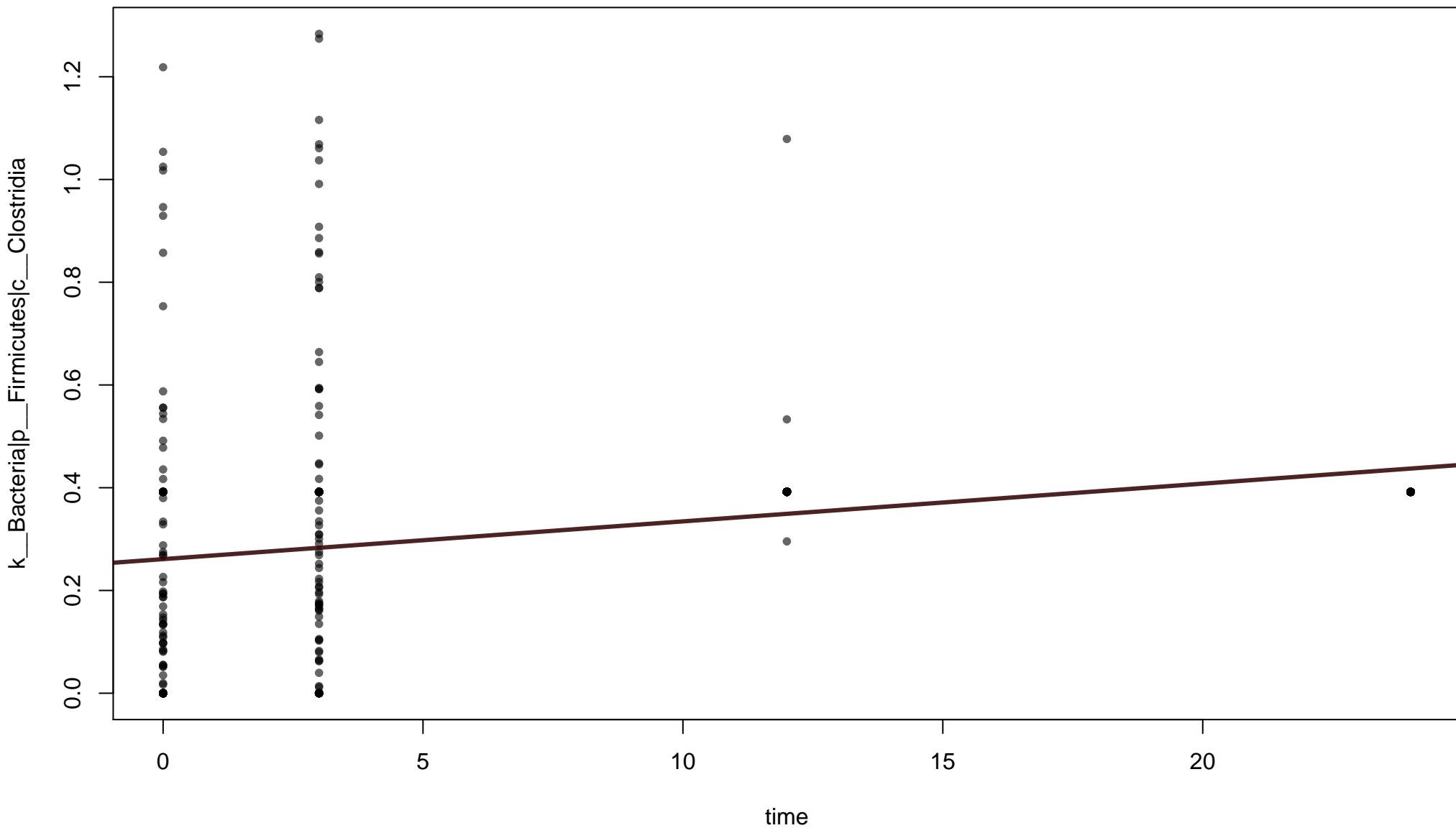
time (0.00642 sd 0.000769, p=4.07e-16, q=8.31e-15)



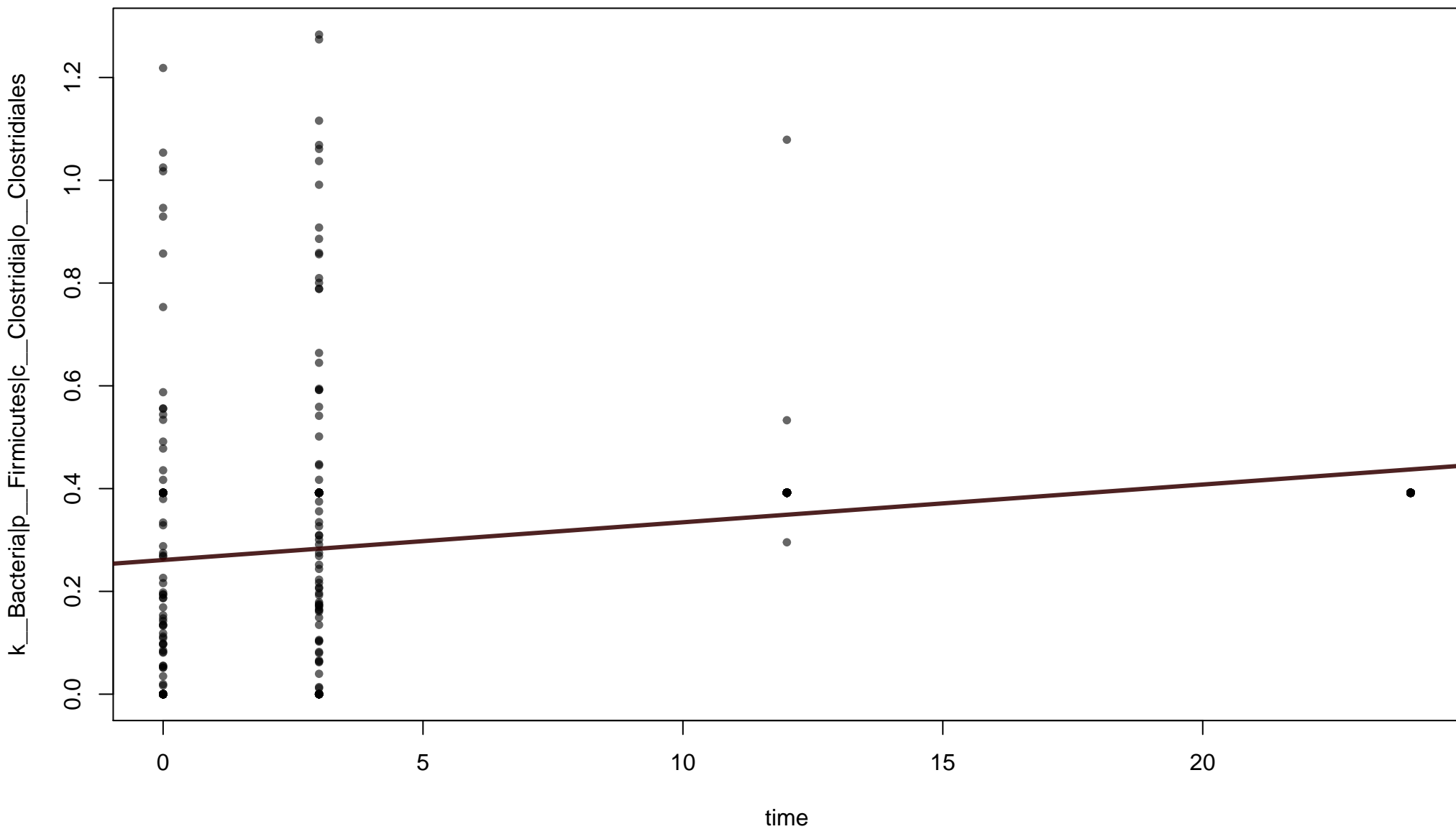
time (0.004 sd 0.000483, p=6.65e-16, q=1.35e-14)



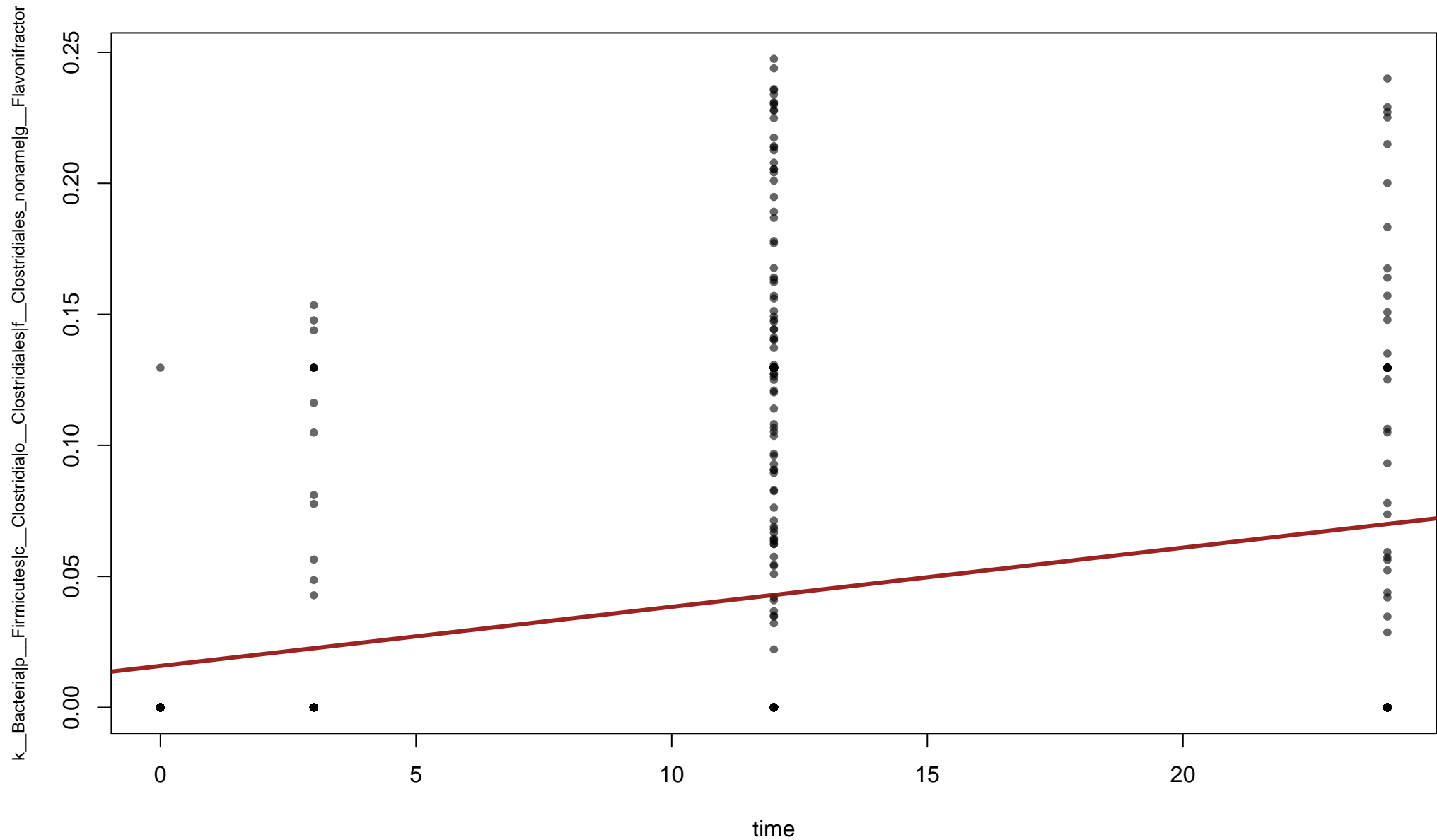
time (0.00736 sd 0.00089, p=7.59e-16, q=1.52e-14)



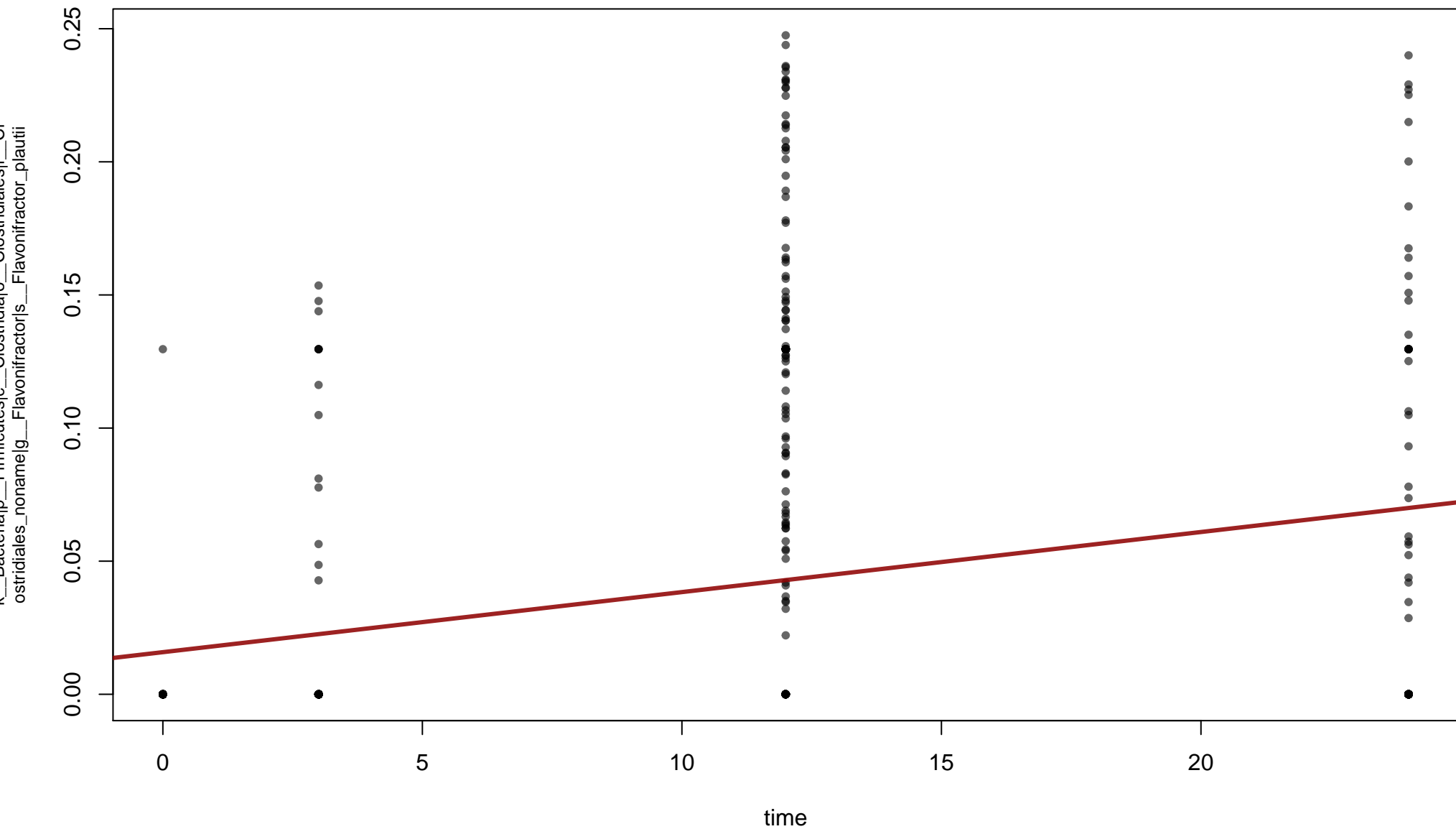
time (0.00736 sd 0.00089, p=7.59e-16, q=1.52e-14)



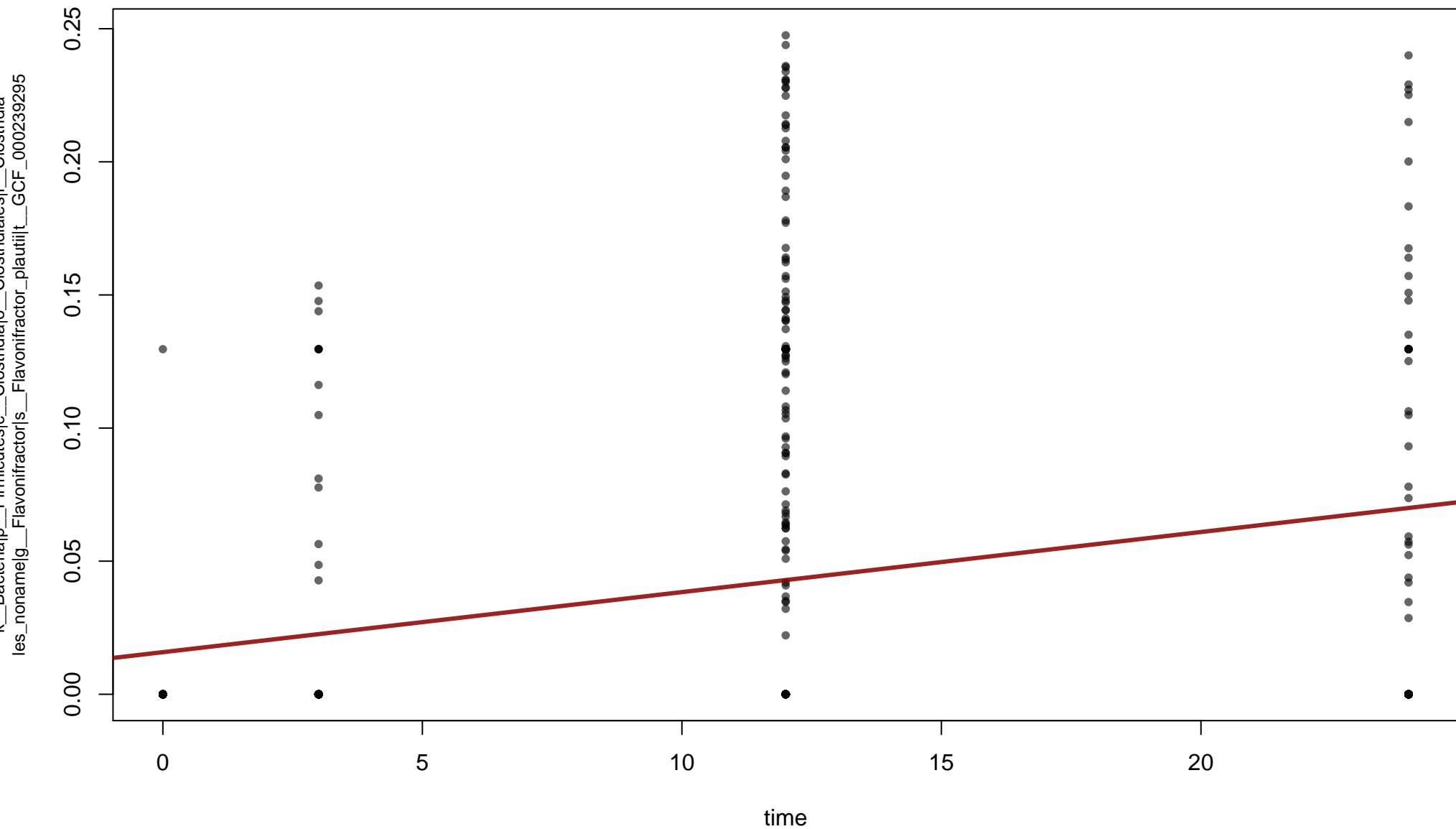
time (0.00226 sd 0.000277, p=2.06e-15, q=4.04e-14)



time (0.00226 sd 0.000277, p=2.06e-15, q=4.04e-14)

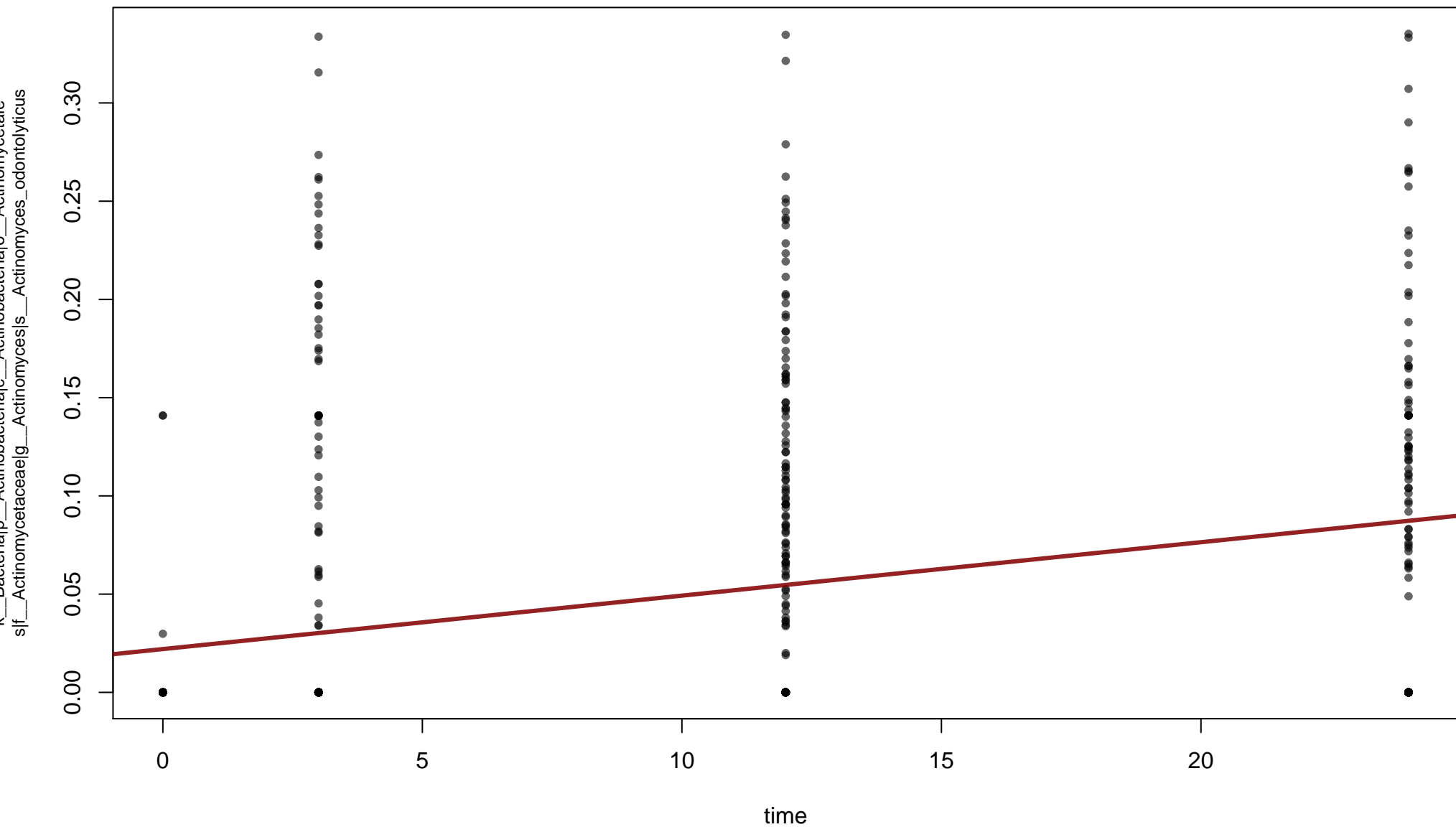


time (0.00226 sd 0.000277, p=2.06e-15, q=4.04e-14)

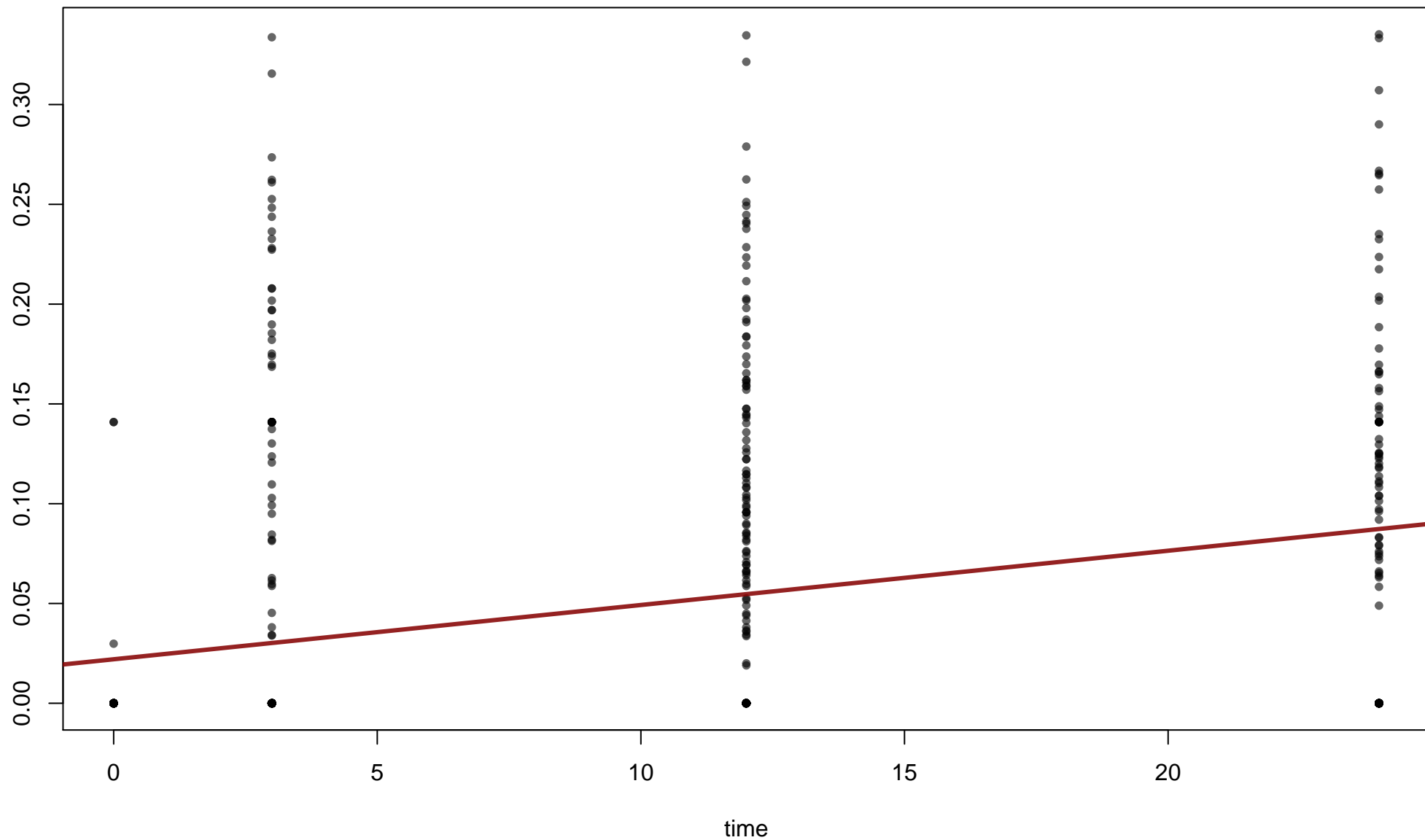




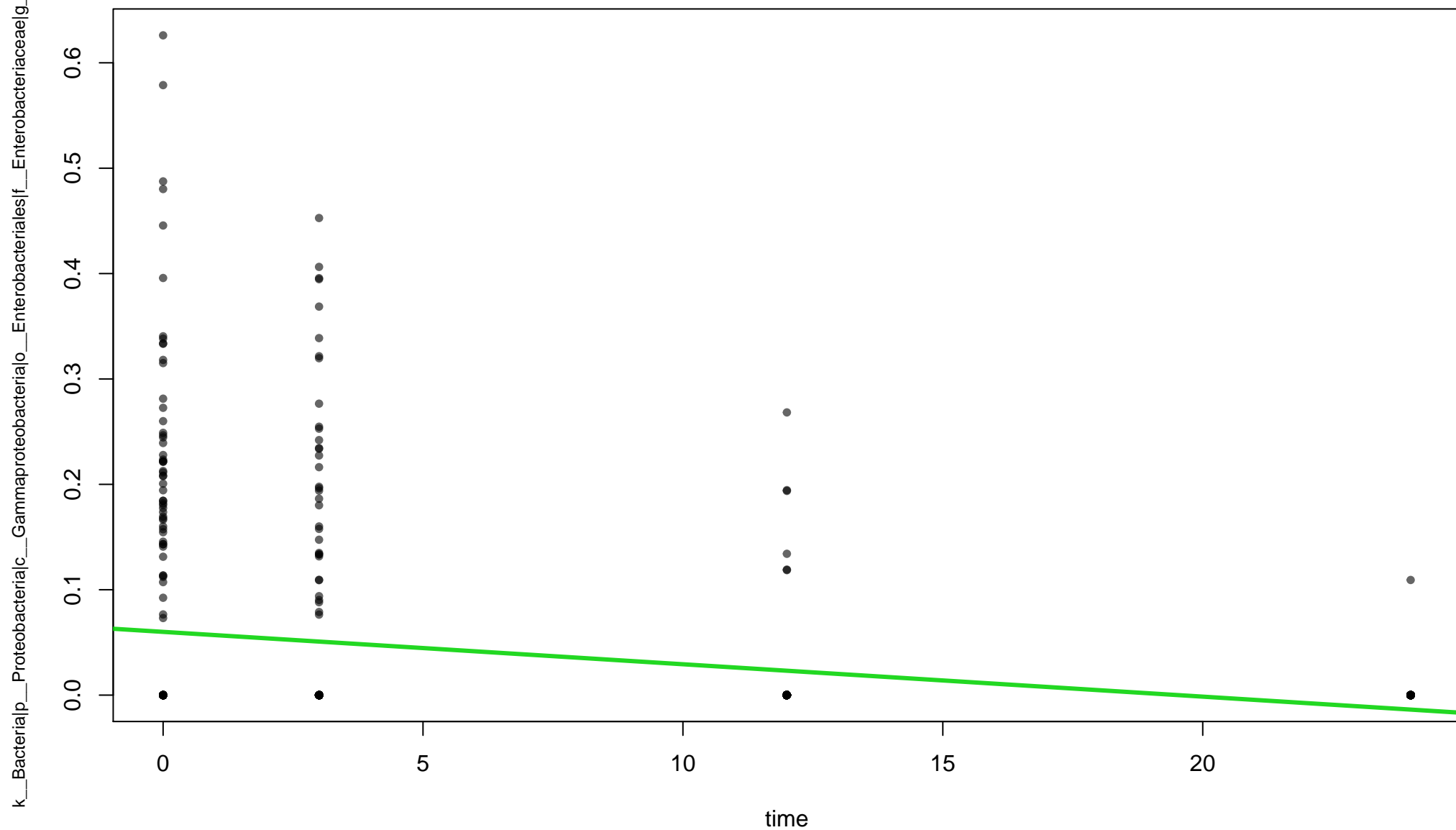
**time (0.00272 sd 0.000337, p=3.37e-15, q=6.46e-14)**



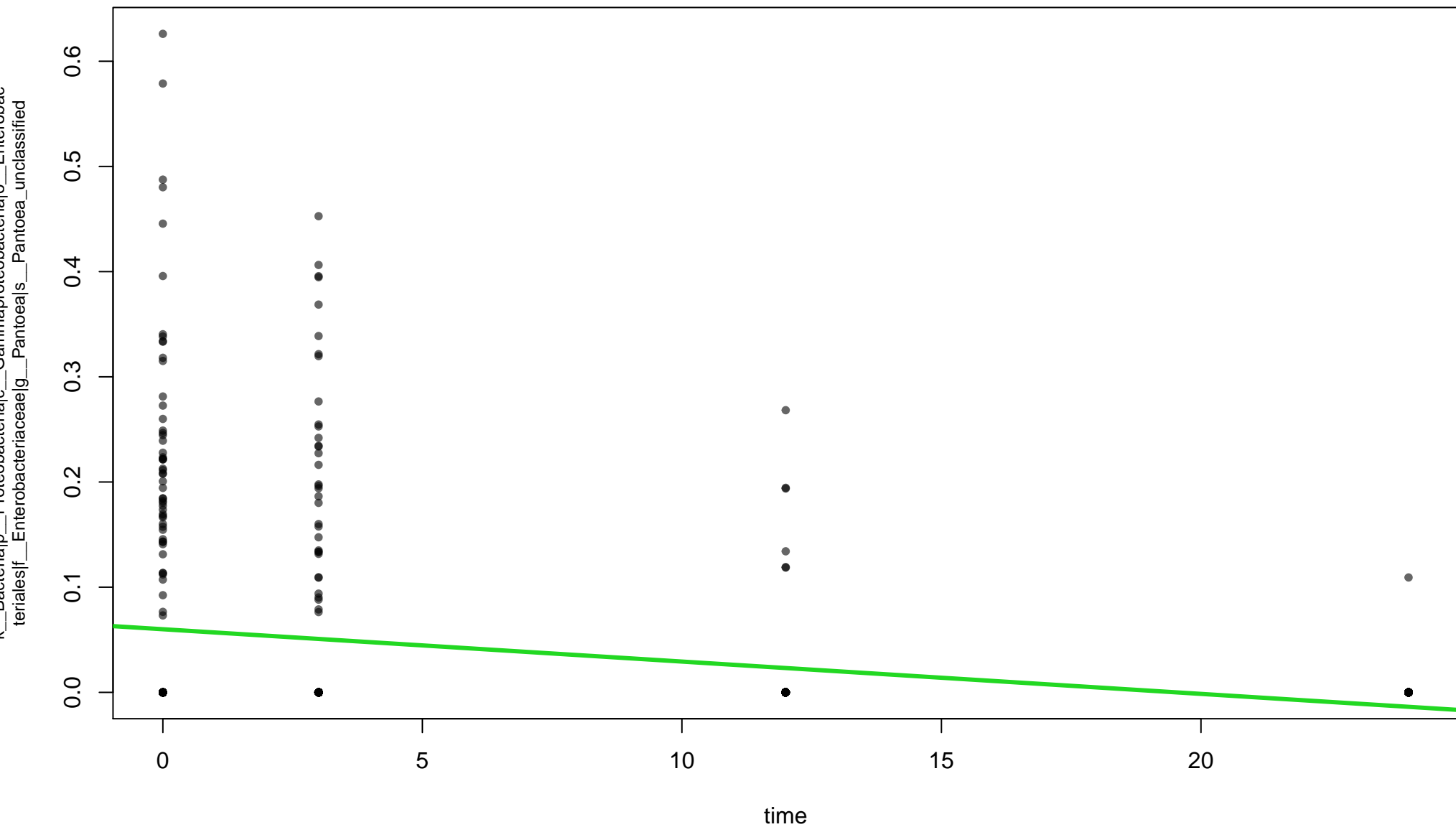
lg\_Actinomycetes\_s\_Actinomycetes\_odontolyticus|t\_Actinomycetes\_odontolyticus\_unclassified



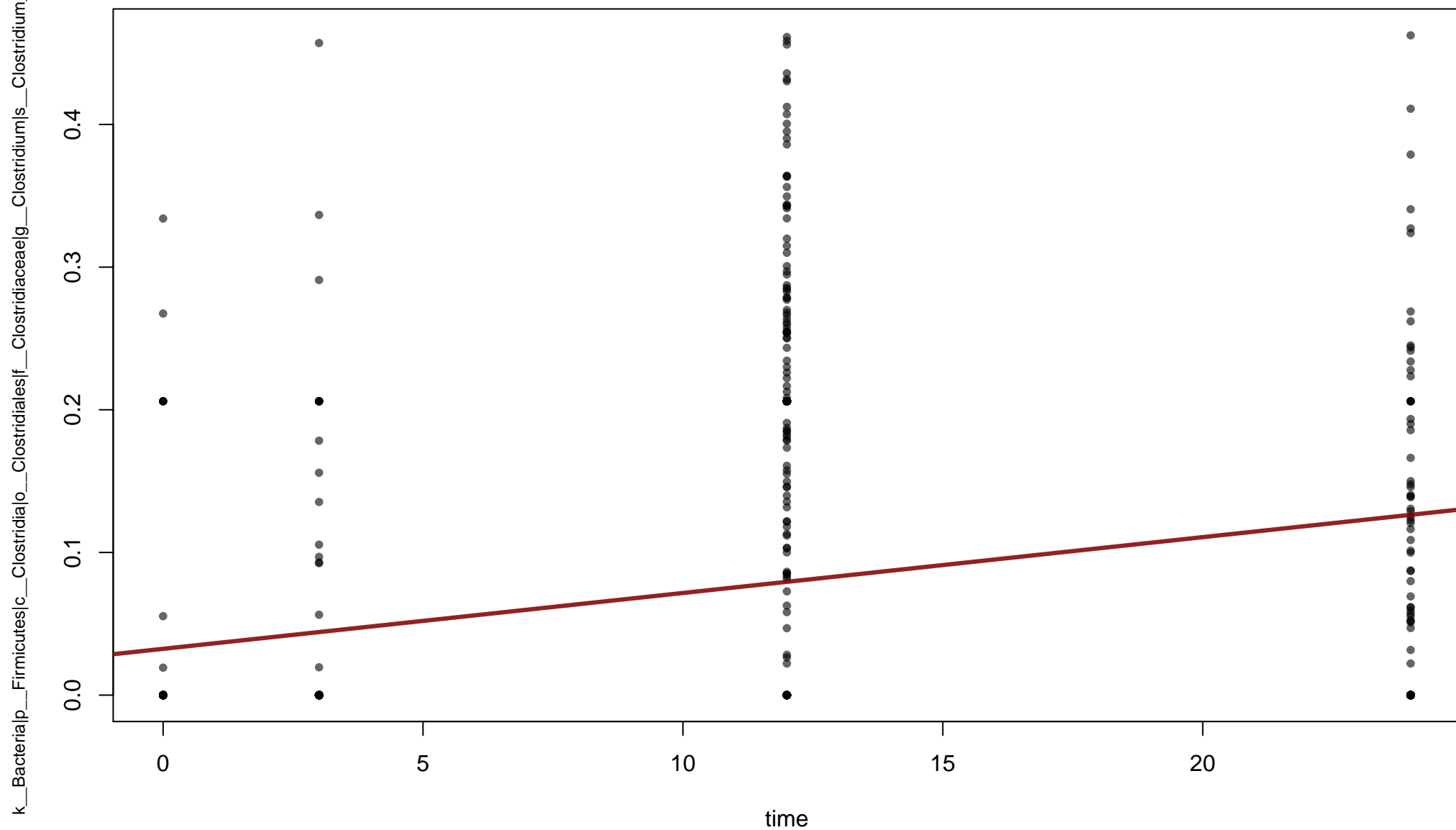
time ( $-0.00306$  sd  $0.000381$ ,  $p=4.39e-15$ ,  $q=8.3e-14$ )



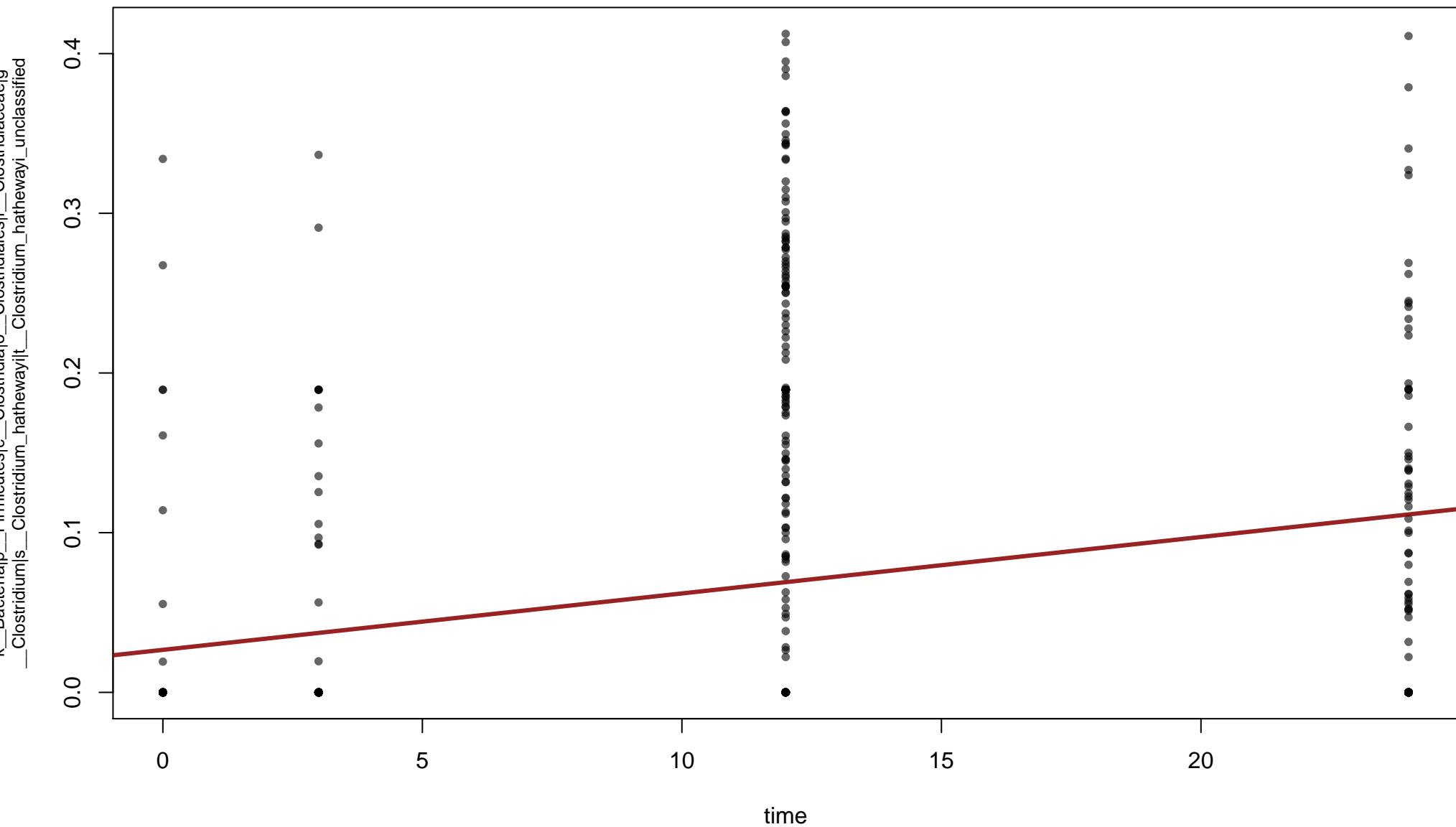
teriales|f\_\_Enterobacteriaceae|g\_\_Pantoea|s\_\_Pantoea\_unclassified



time (0.00391 sd 0.000488, p=5.01e-15, q=9.43e-14)

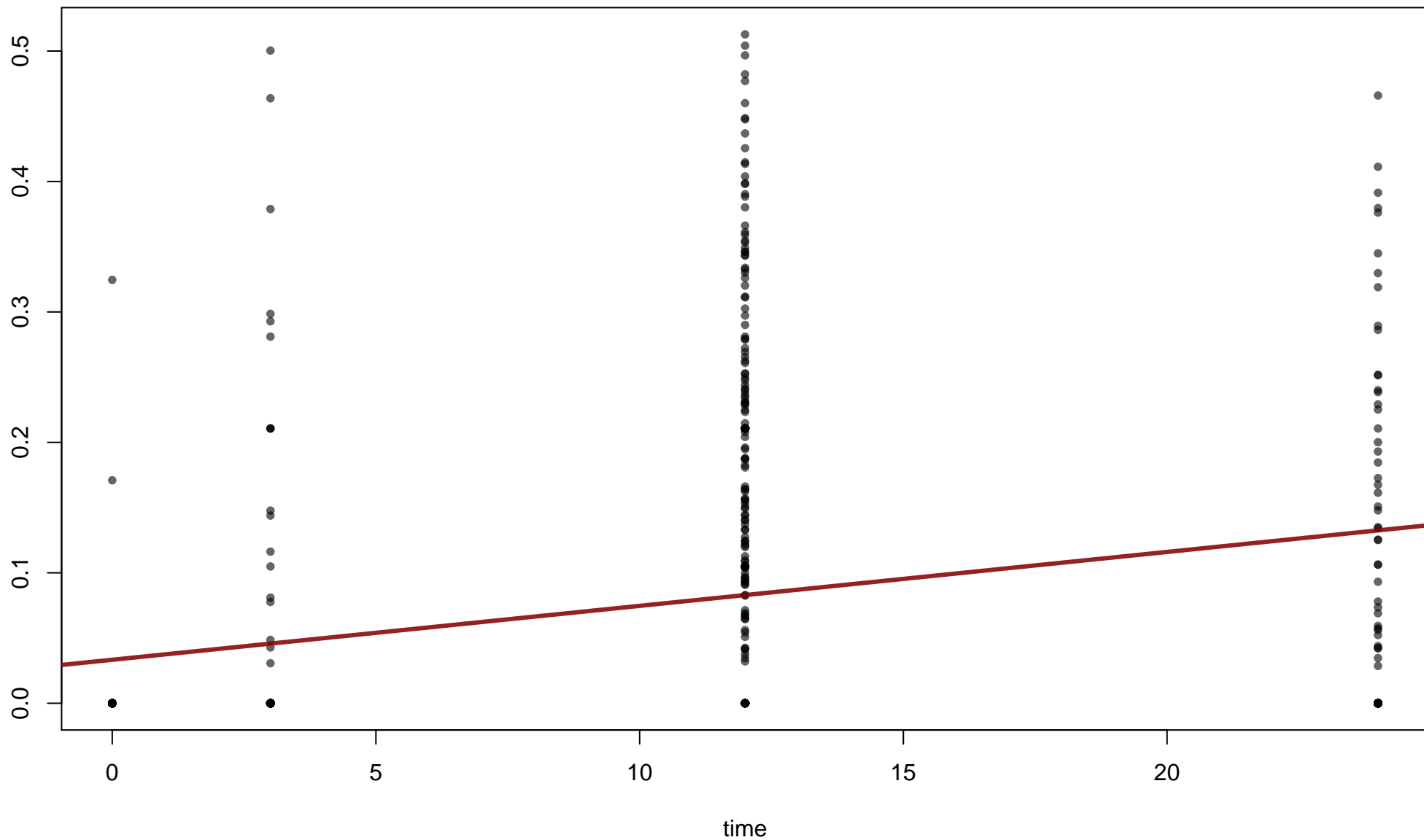


time (0.00353 sd 0.000441, p=5.19e-15, q=9.71e-14)



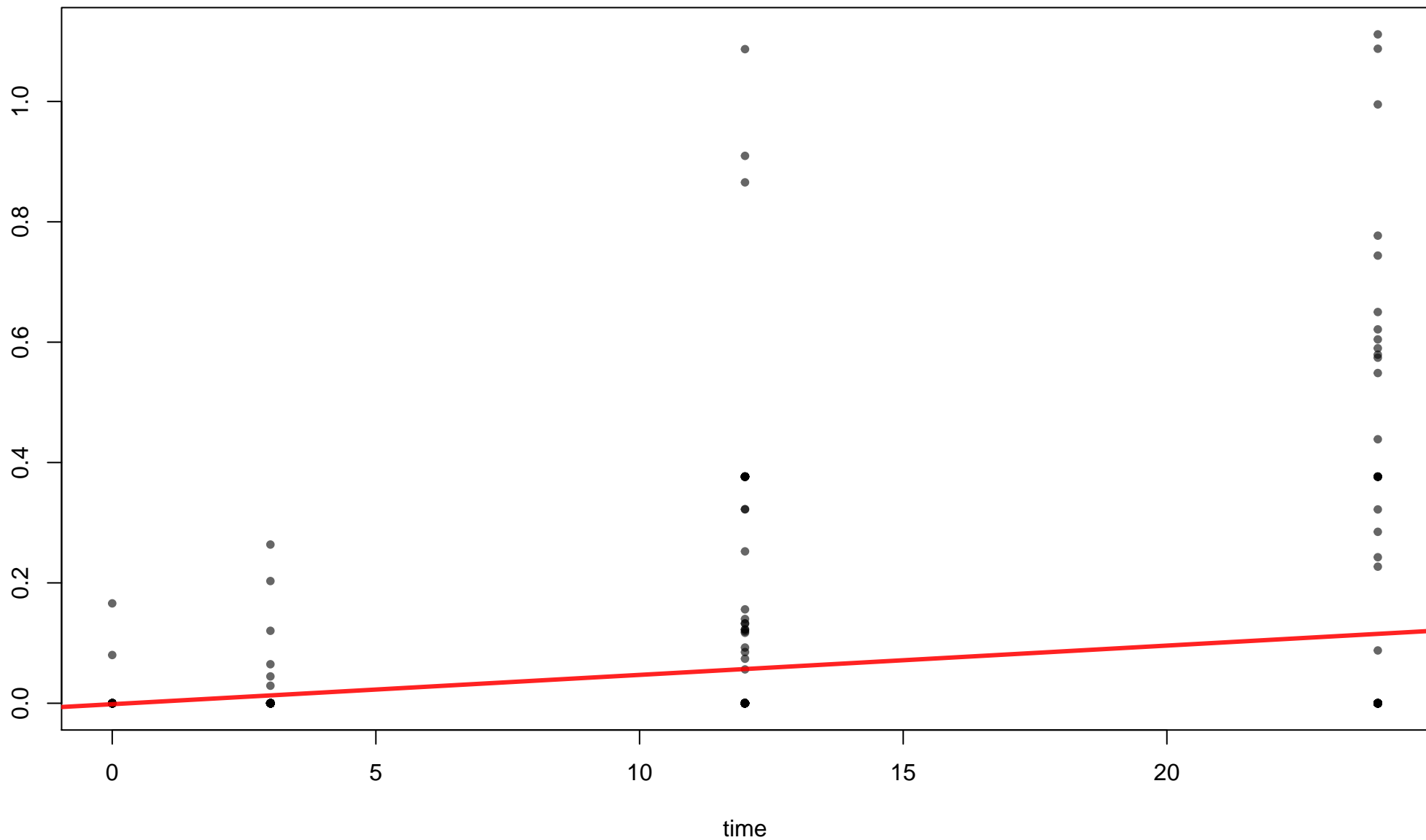
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Clostridia|o\_\_Clostridiales|f\_\_Clostridiales\_noname

time (0.00414 sd 0.000522, p=9.65e-15, q=1.79e-13)



time (0.00489 sd 0.000627, p=2.36e-14, q=4.31e-13)

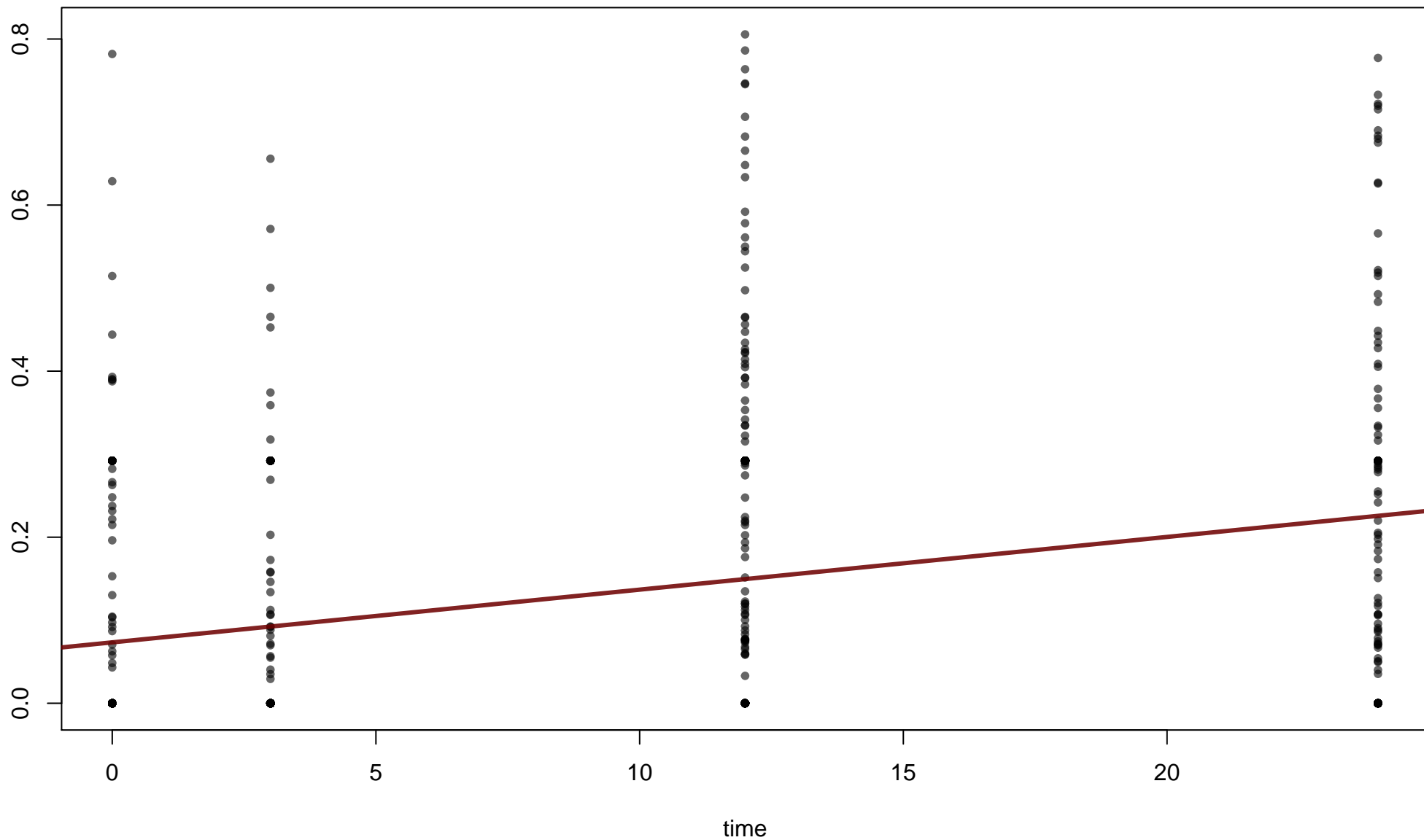
k\_\_Bacteria|p\_\_Bacteroidetes|c\_\_Bacteroidia|o\_\_Bacteroidales|f\_\_Prevotellaceae



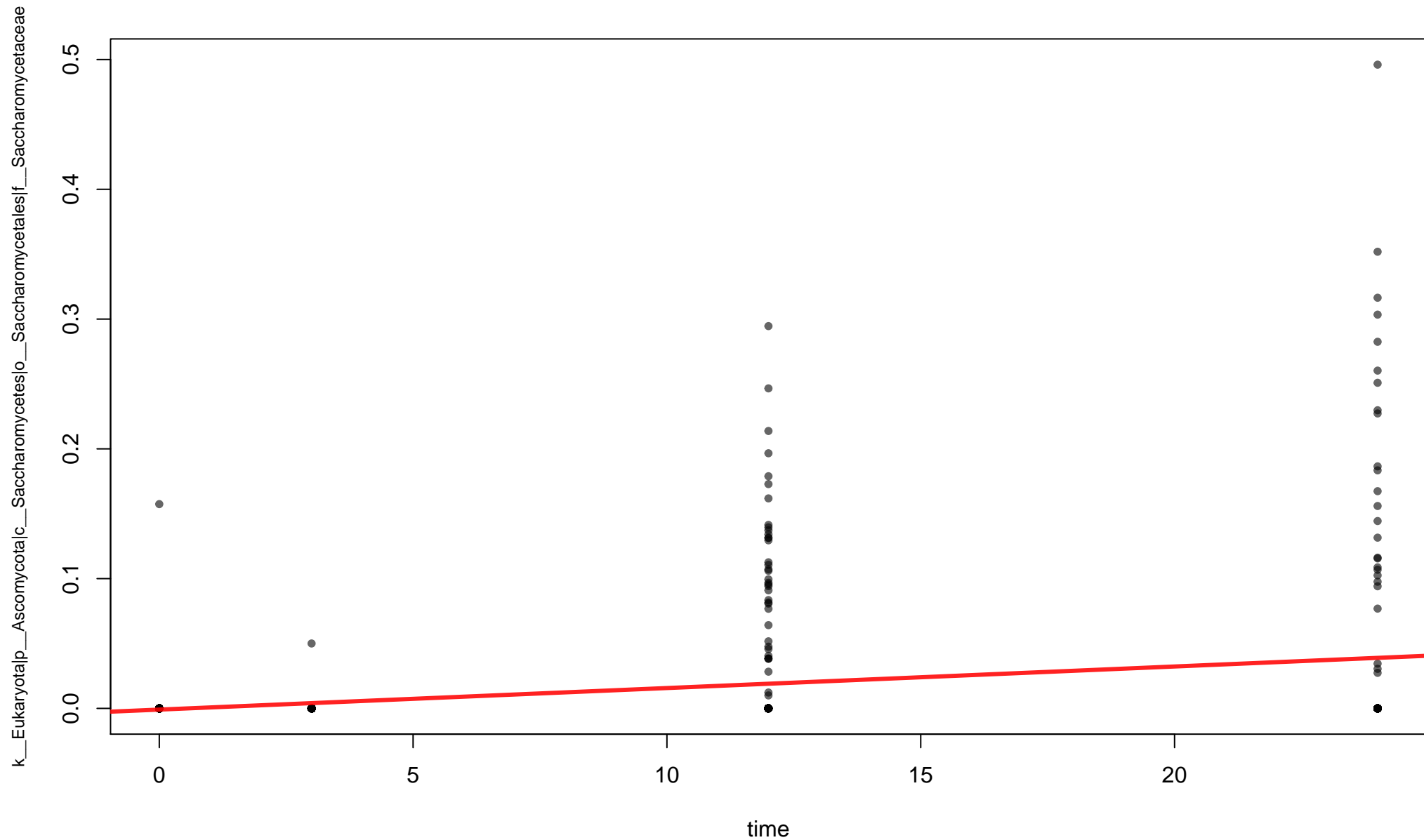


time (0.00623 sd 0.000812, p=6.05e-14, q=1.1e-12)

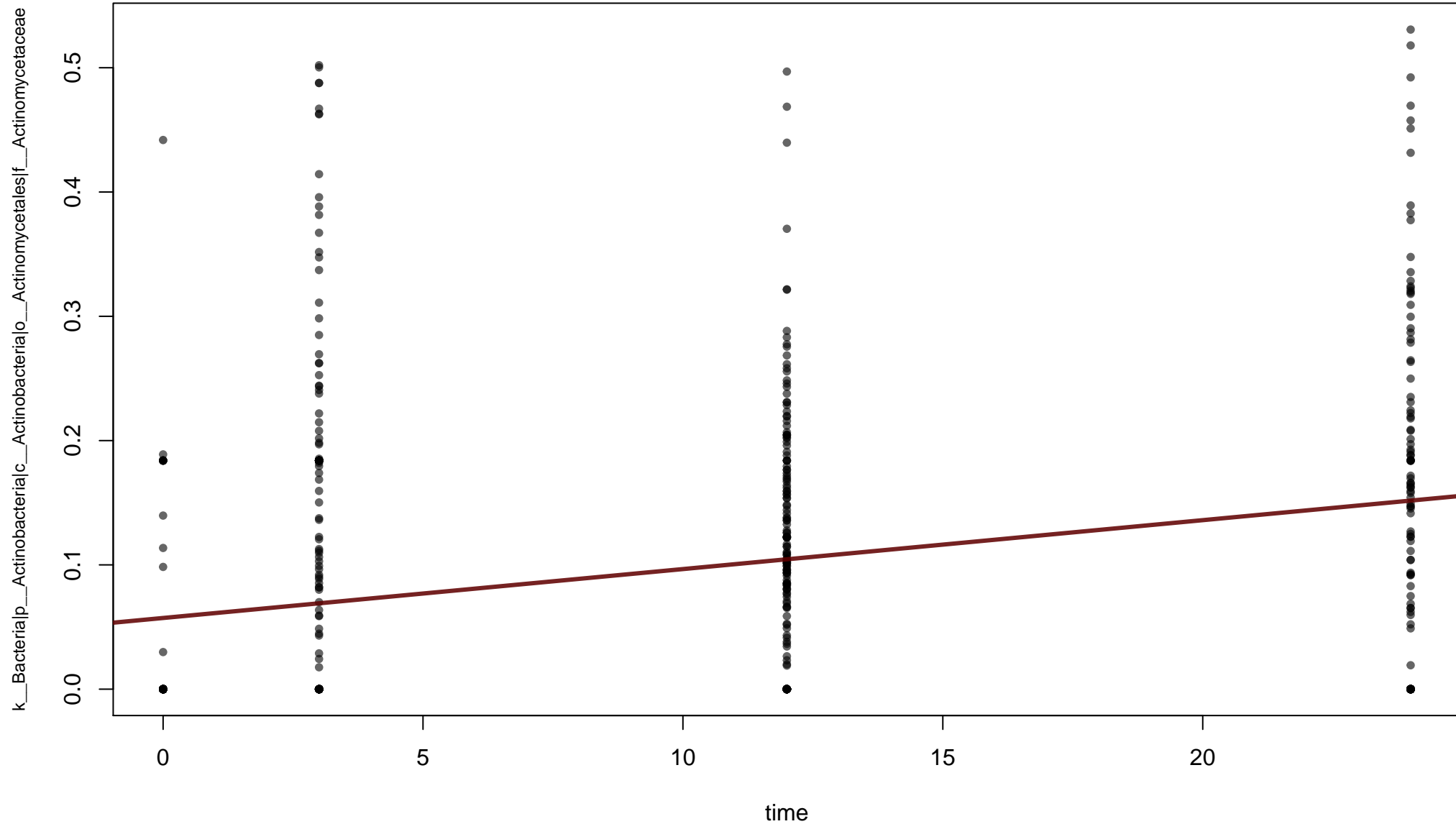
k\_Bacteria|p\_\_Bacteroidetes|c\_\_Bacteroidia|o\_\_Bacteroidales|f\_\_Porphyromonadaceae|g\_\_Parabacteroides



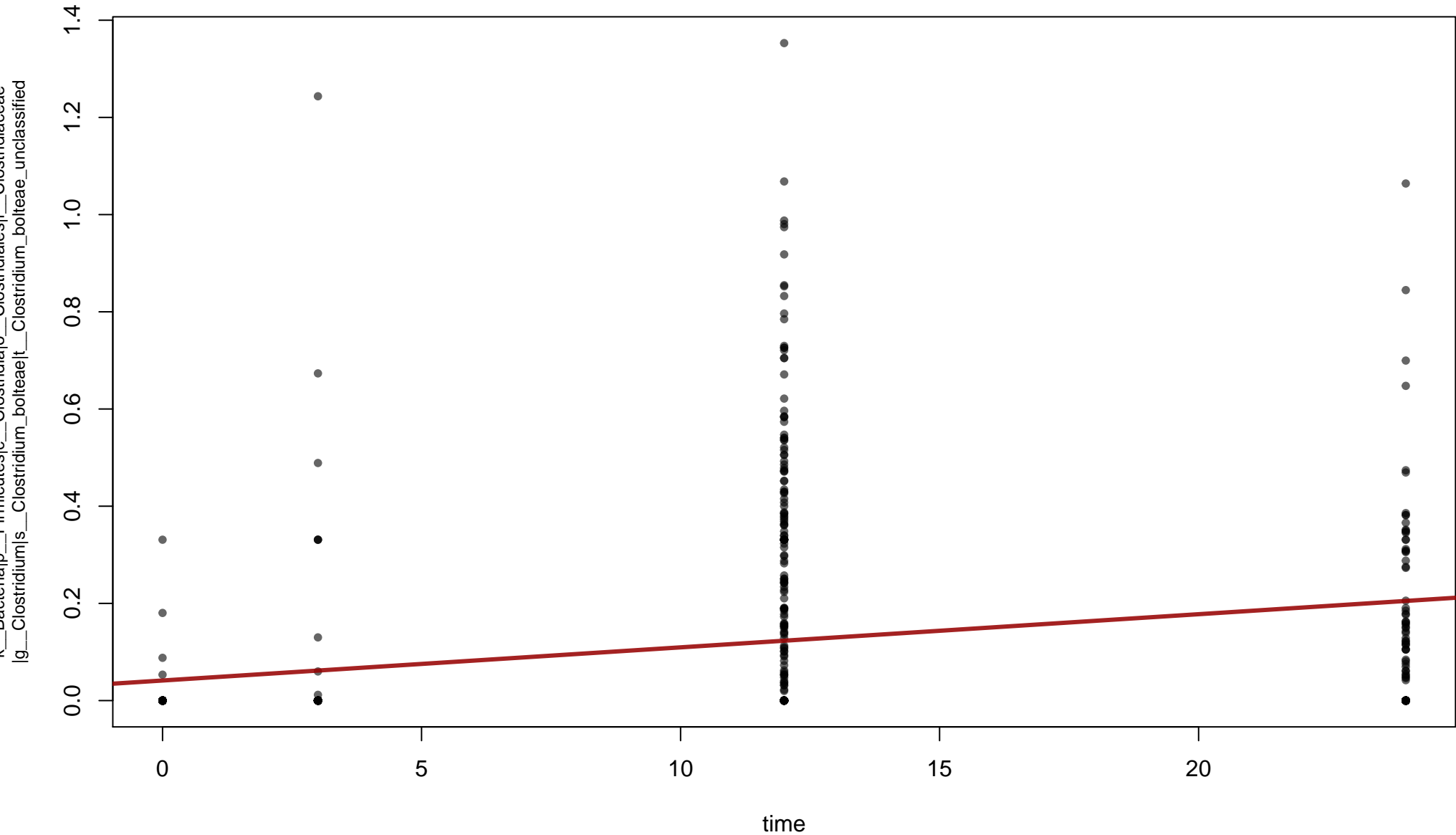
time (0.00166 sd 0.000216, p=6.77e-14, q=1.22e-12)



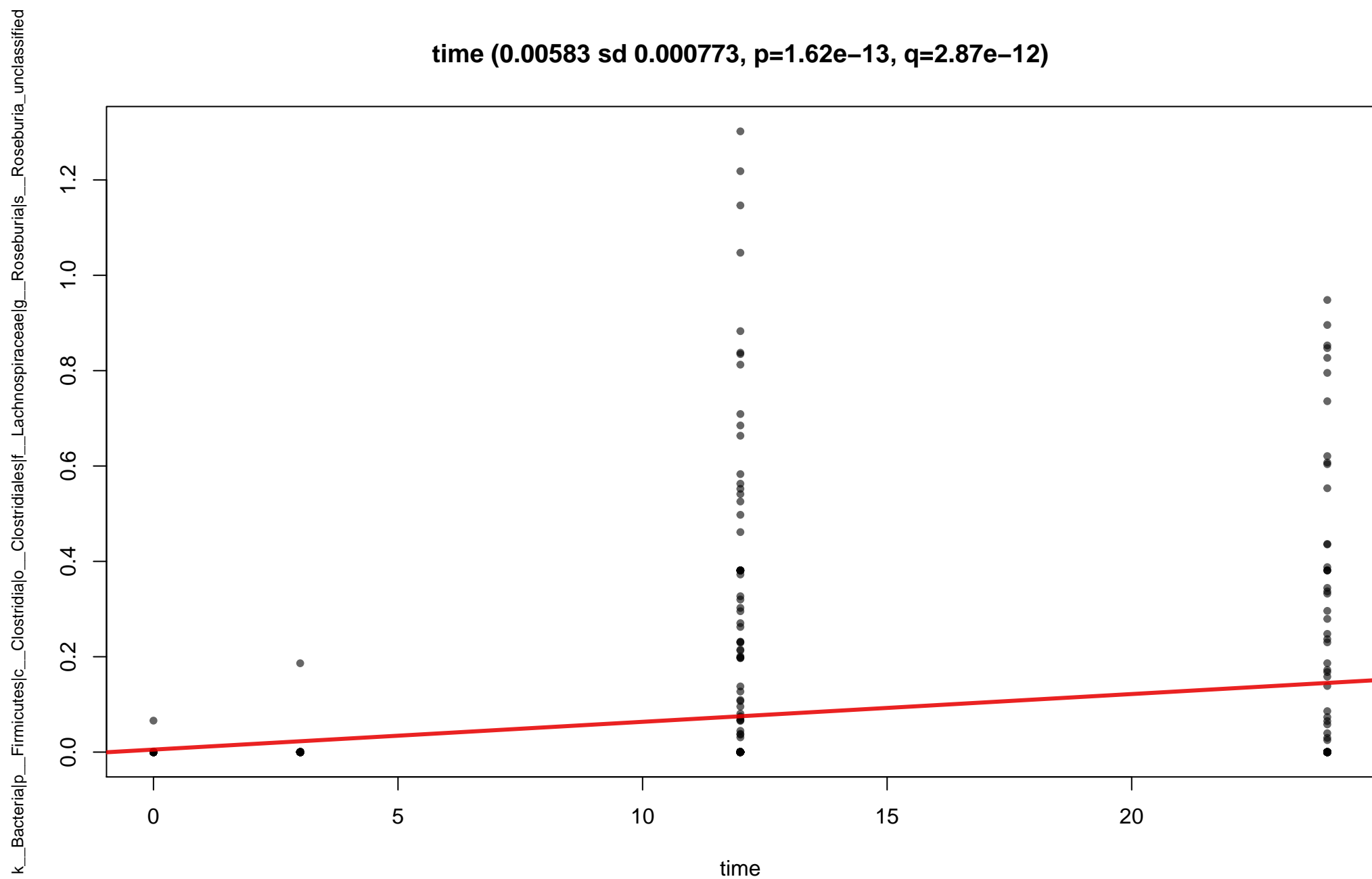
time (0.00395 sd 0.000517, p=8.06e-14, q=1.45e-12)



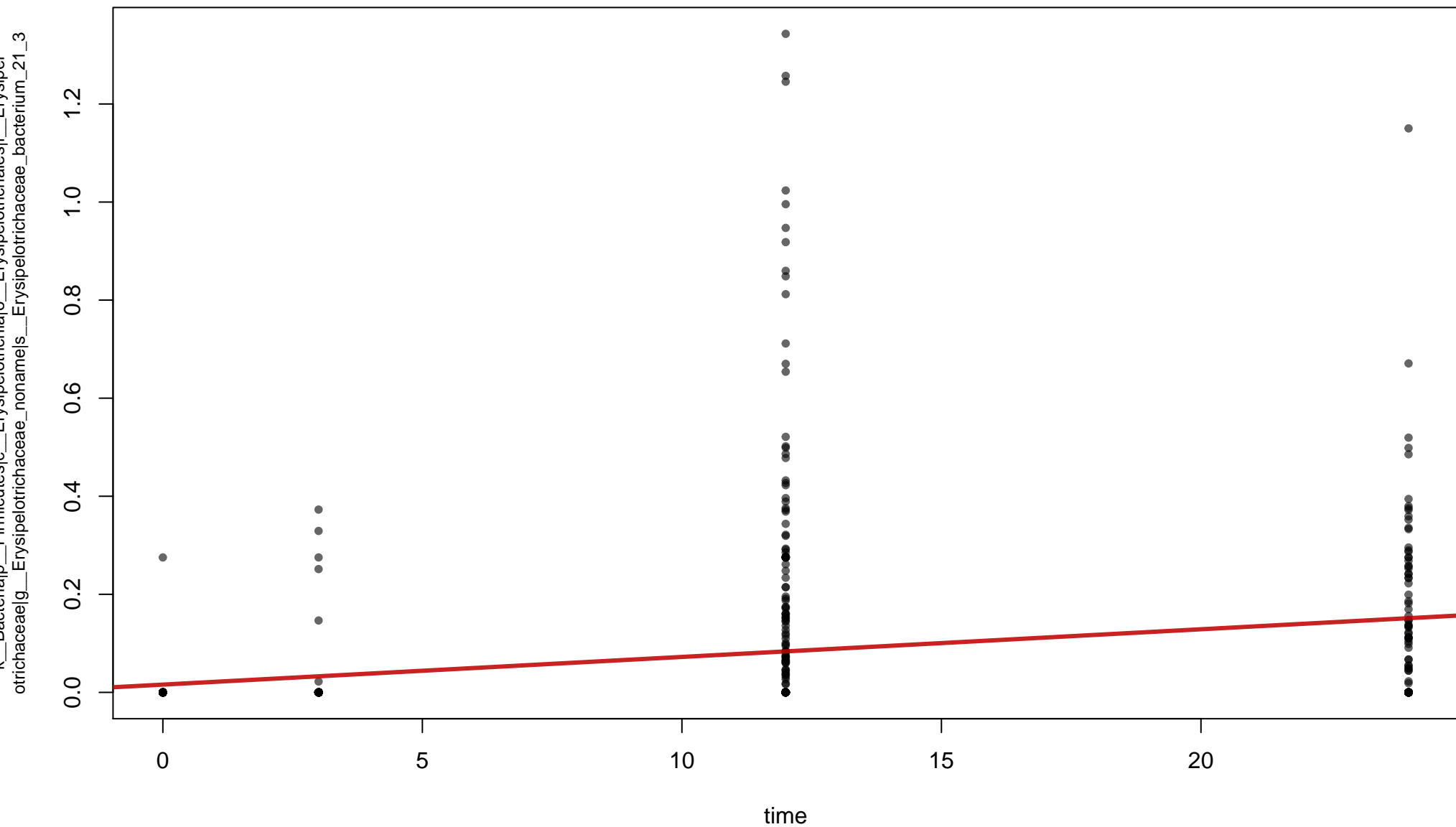
time (0.00682 sd 0.0009, p=1.2e-13, q=2.14e-12)



time (0.00583 sd 0.000773, p=1.62e-13, q=2.87e-12)

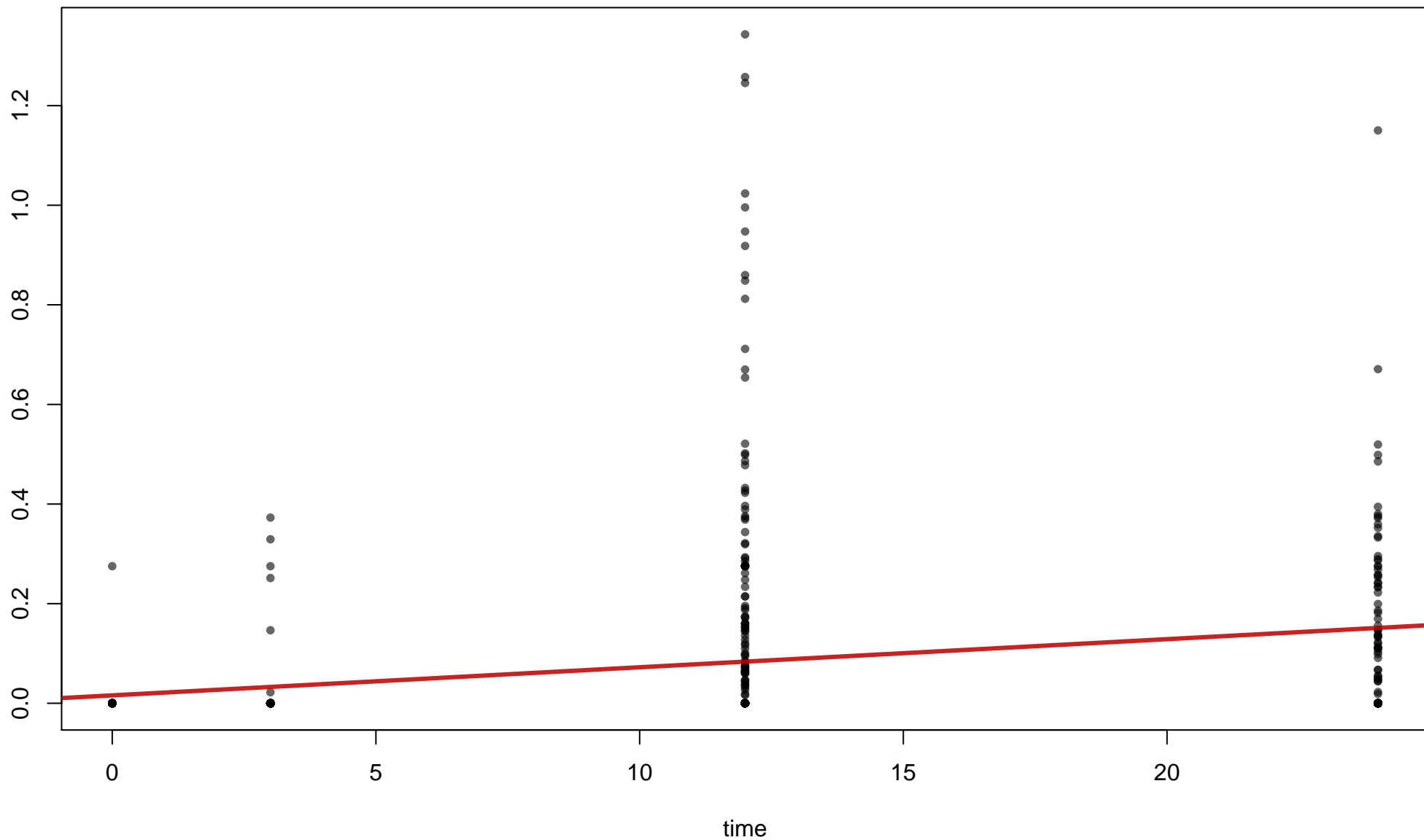


time (0.00564 sd 0.000754, p=2.63e-13, q=4.61e-12)

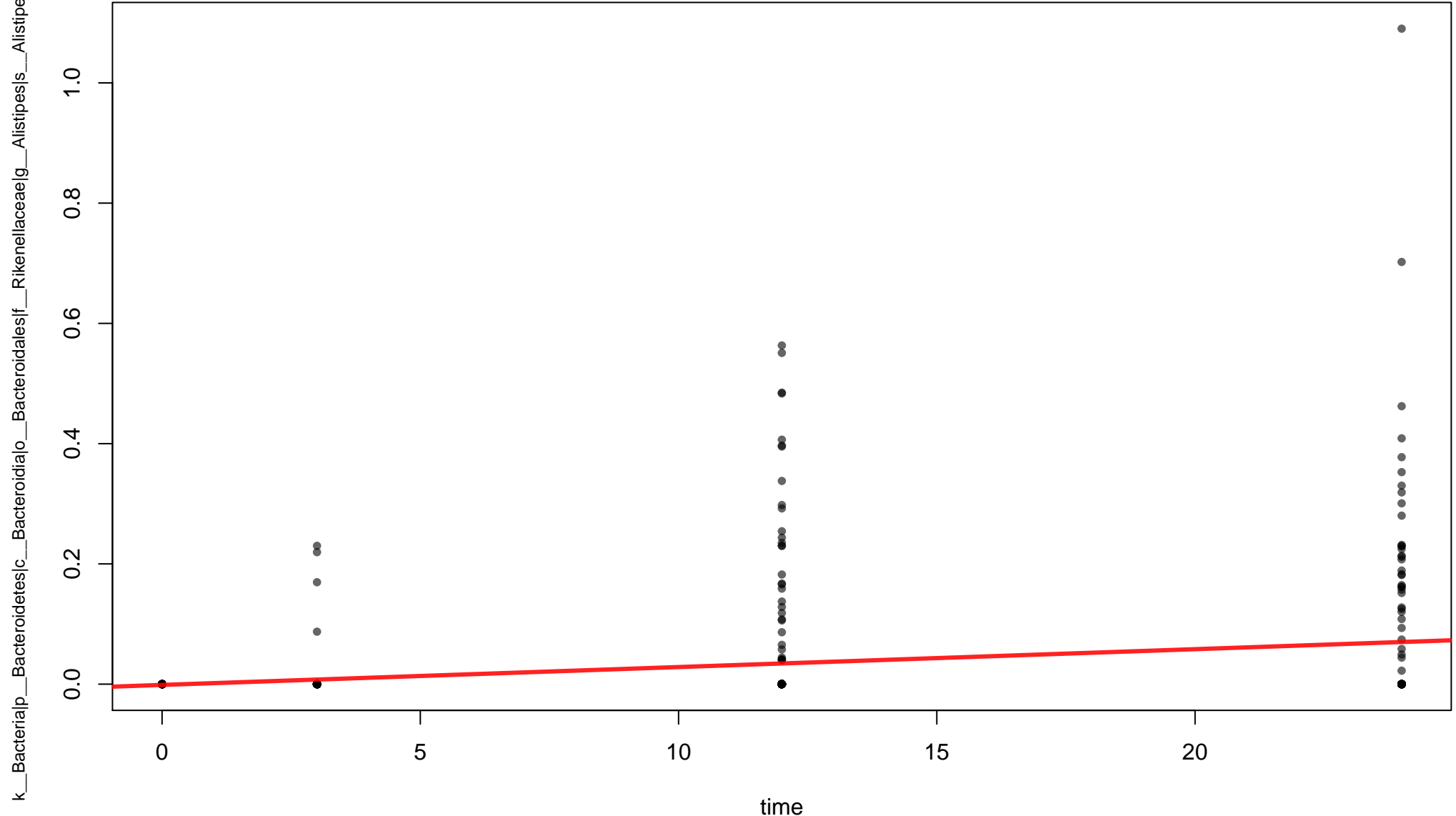


time (0.00564 sd 0.000754, p=2.63e-13, q=4.61e-12)

aeig\_\_Erysipelotrichaceae\_noname[s\_\_Erysipelotrichaceae\_bacterium\_21\_3[lt\_\_GCF\_000242195

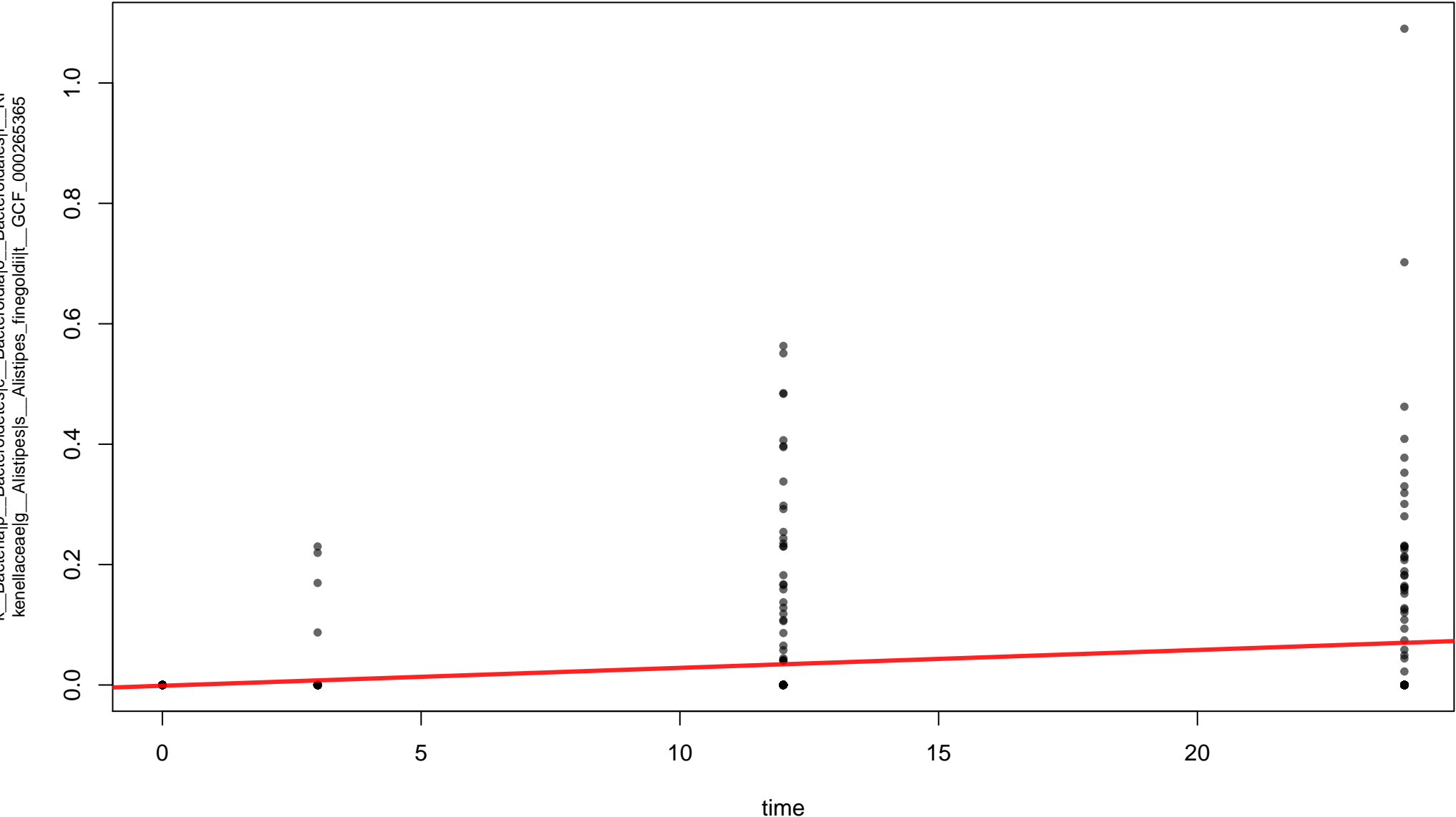


time (0.00298 sd 0.0004, p=3.32e-13, q=5.77e-12)

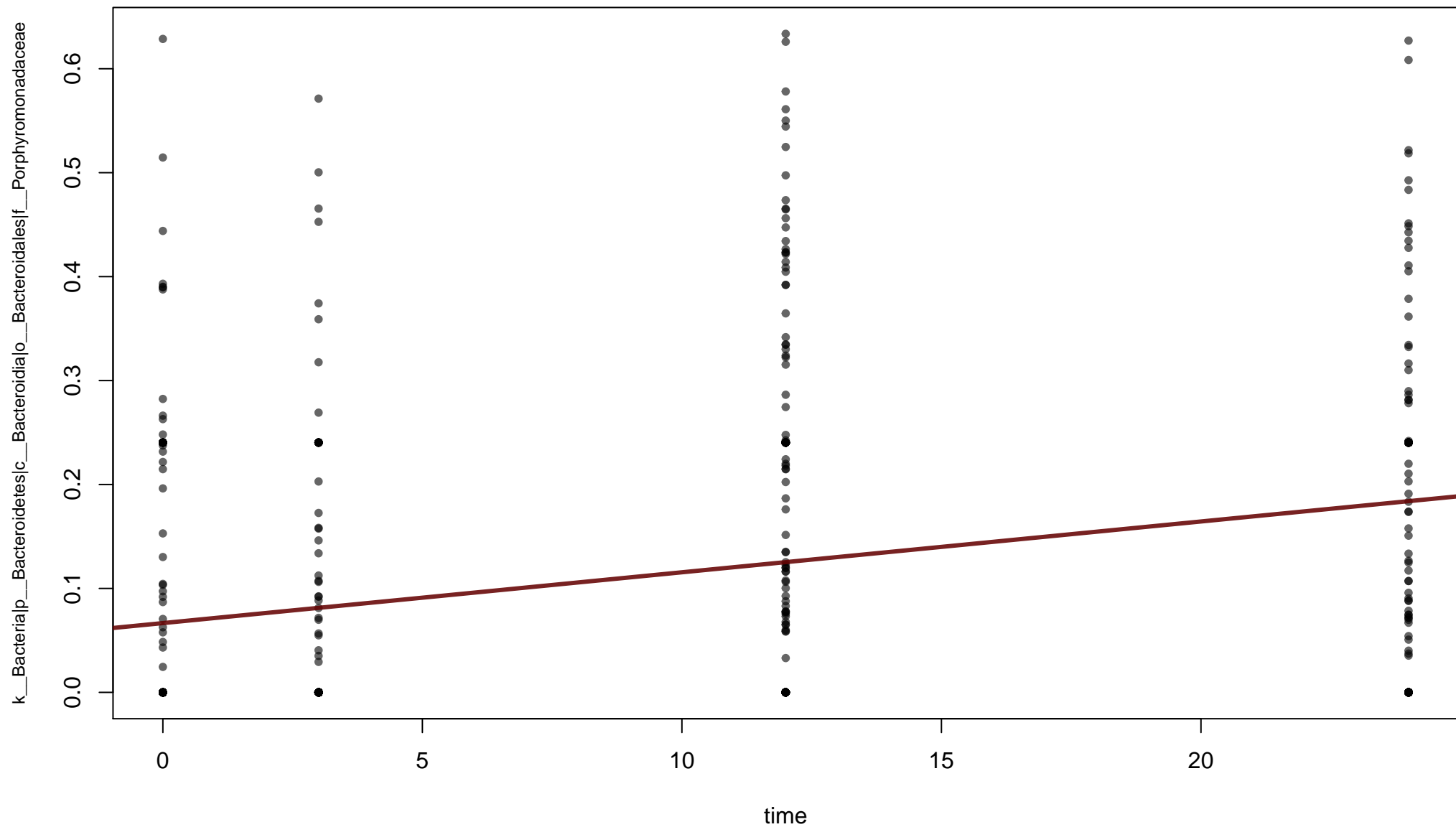




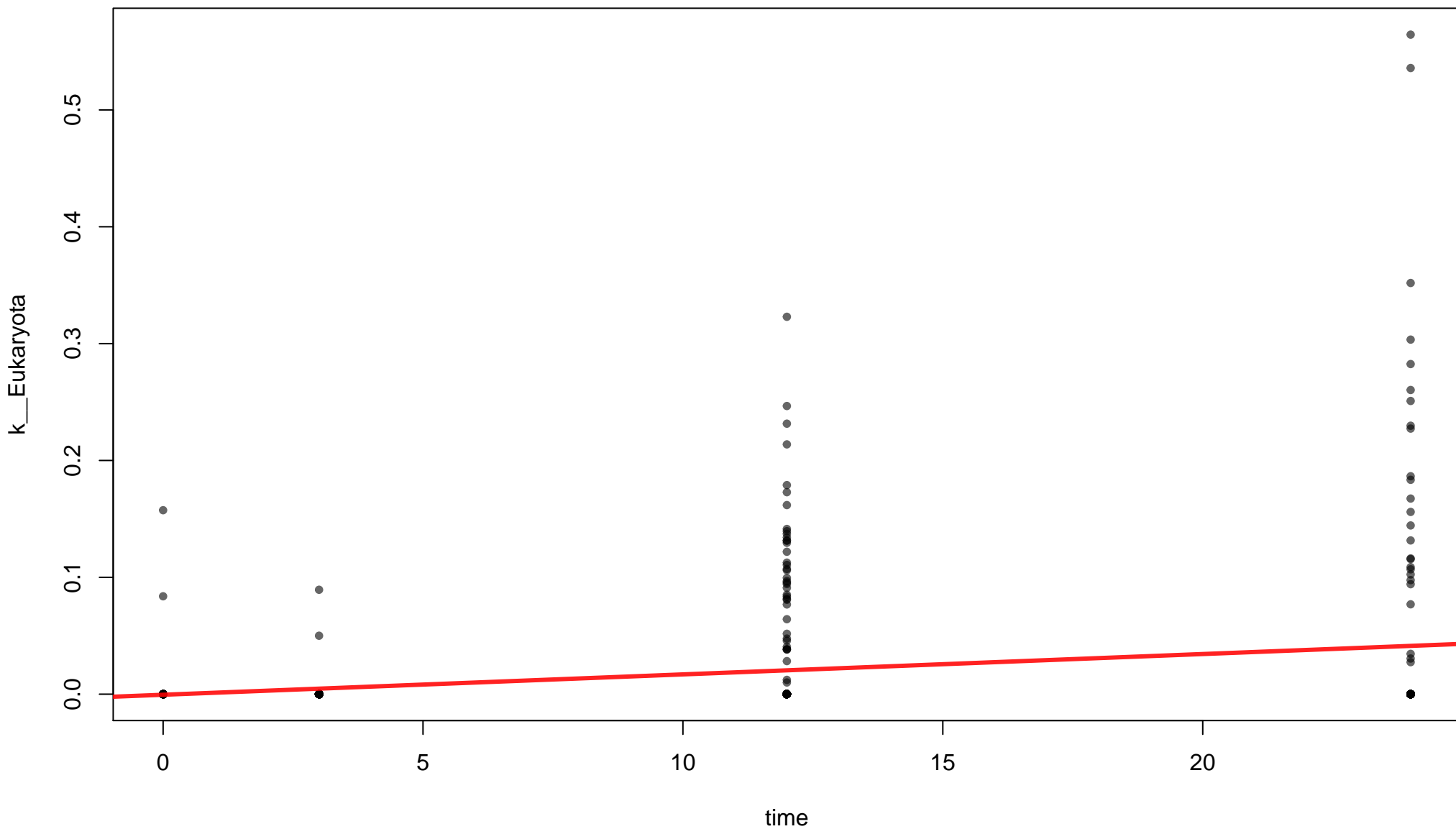
time (0.00298 sd 0.0004, p=3.32e-13, q=5.77e-12)



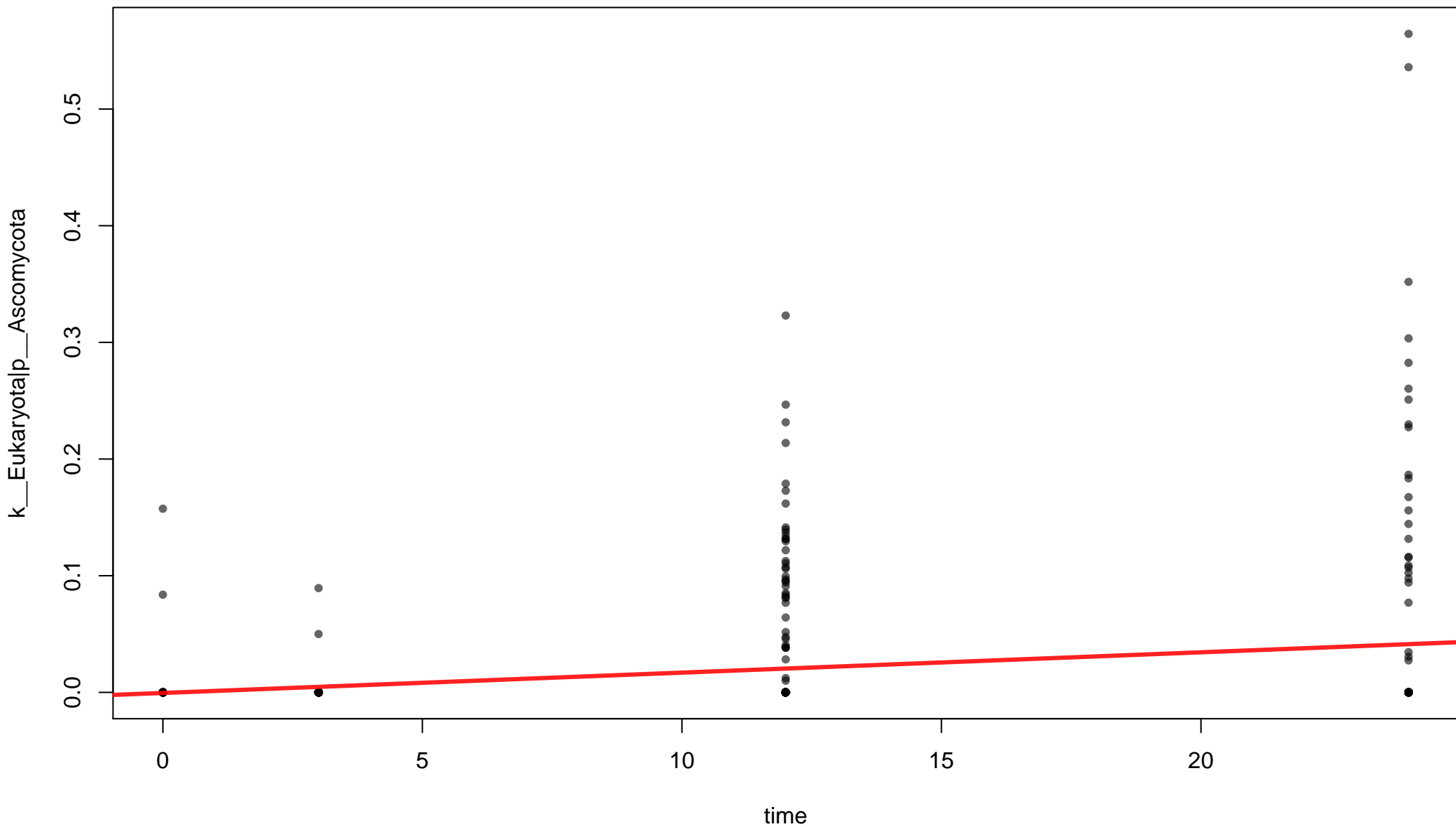
time (0.00475 sd 0.000642,  $p=4.52e-13$ ,  $q=7.8e-12$ )



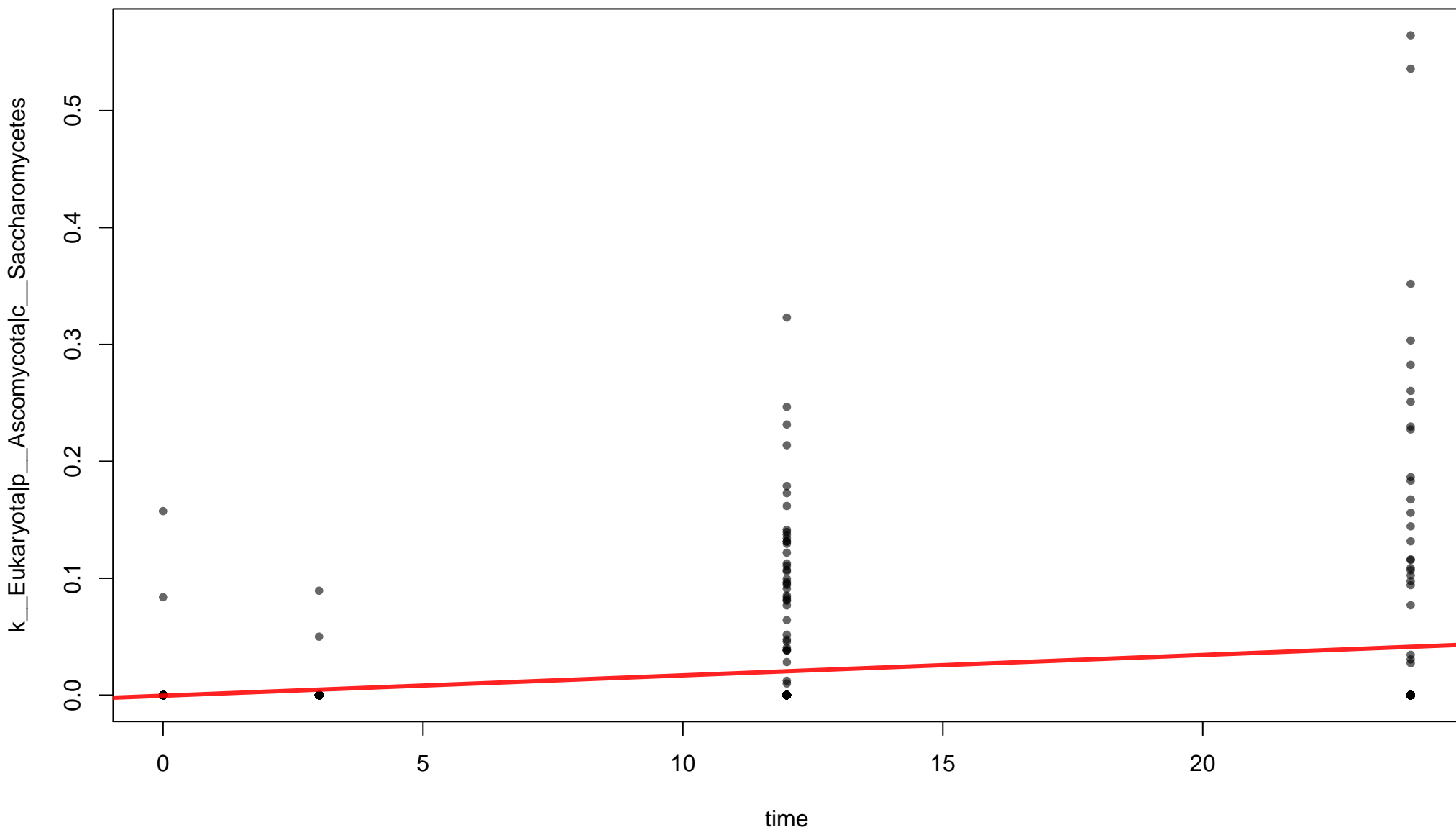
time (0.00174 sd 0.000237, p=6.3e-13, q=1.06e-11)



time (0.00174 sd 0.000237, p=6.3e-13, q=1.06e-11)

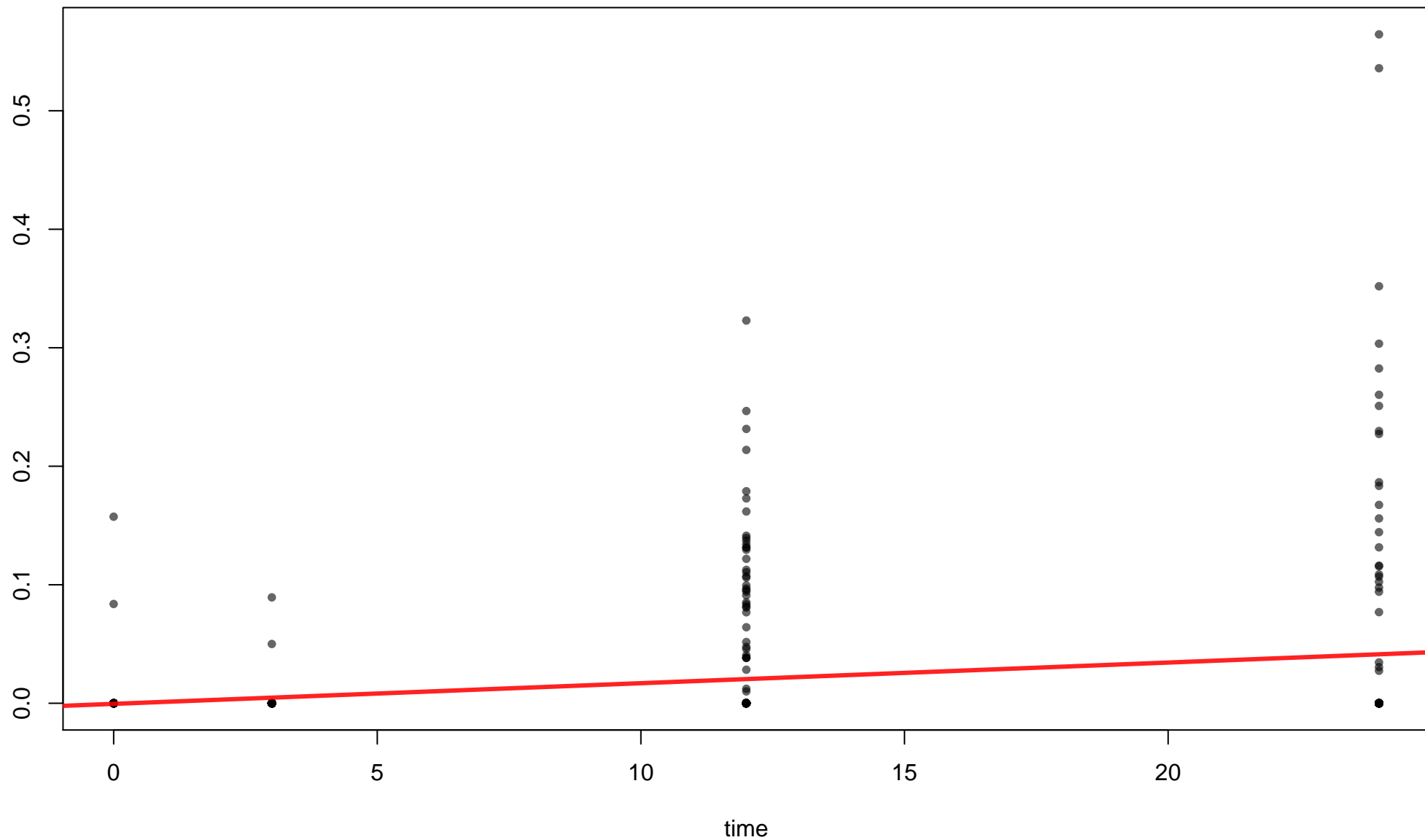


time (0.00174 sd 0.000237, p=6.3e-13, q=1.06e-11)



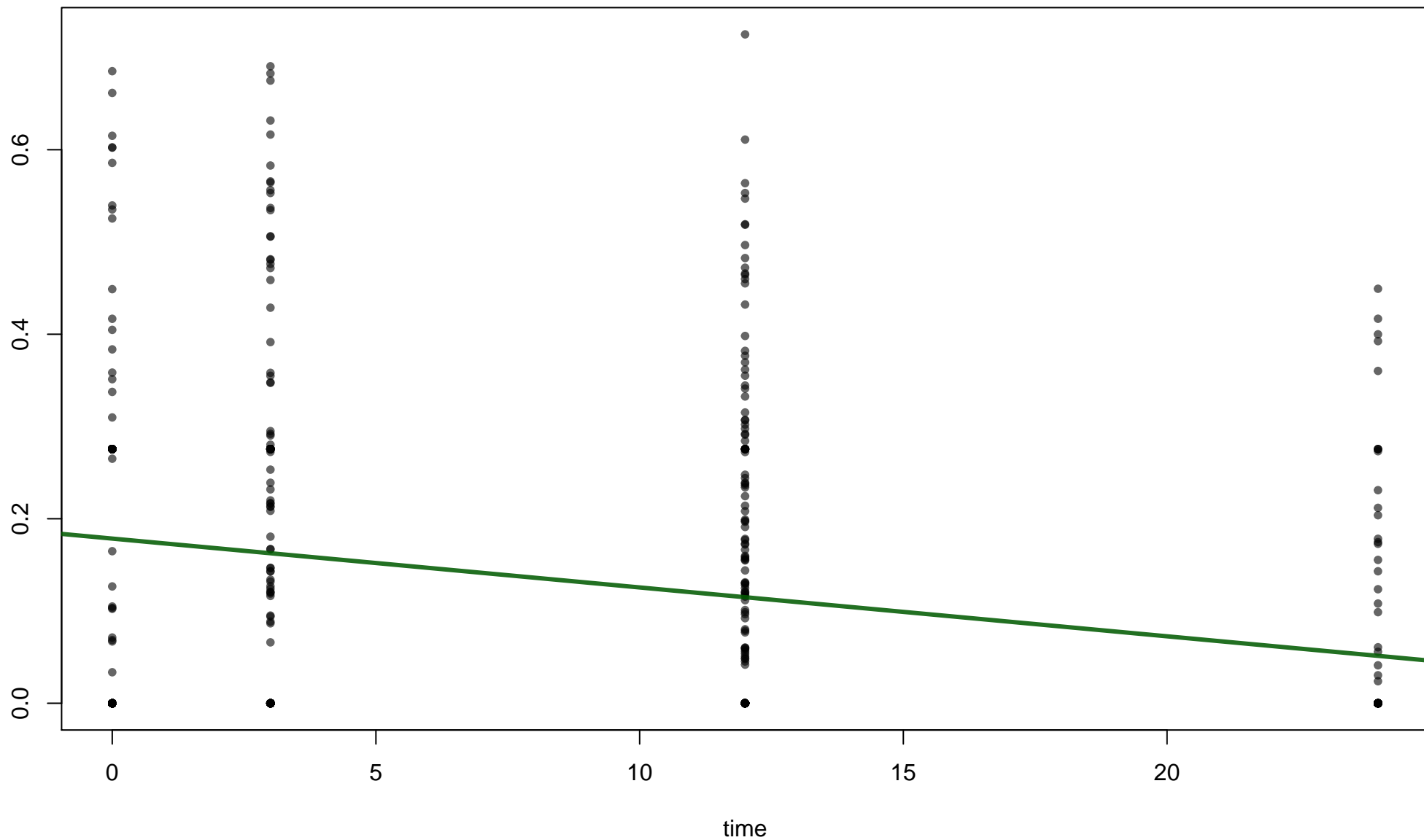
time (0.00174 sd 0.000237, p=6.3e-13, q=1.06e-11)

k\_\_Eukaryota|p\_\_Ascomycota|c\_\_Saccharomycetes|o\_\_Saccharomycetales

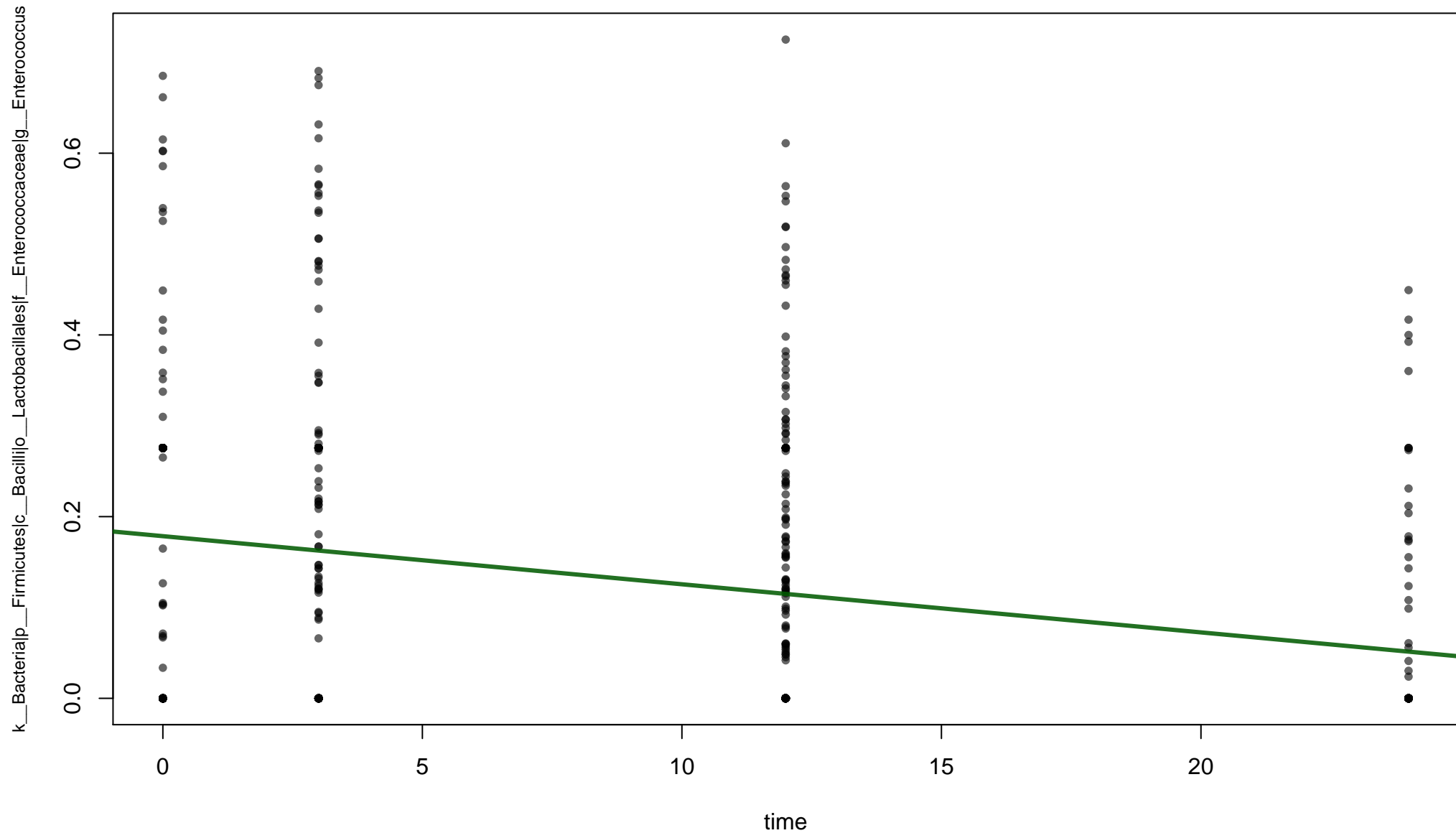


time ( $-0.00531$  sd  $0.000739$ ,  $p=1.84e-12$ ,  $q=3.08e-11$ )

k\_\_Bacteria|p\_\_Firmicutes|c\_\_Bacilli|o\_\_Lactobacillales|f\_\_Enterococcaceae

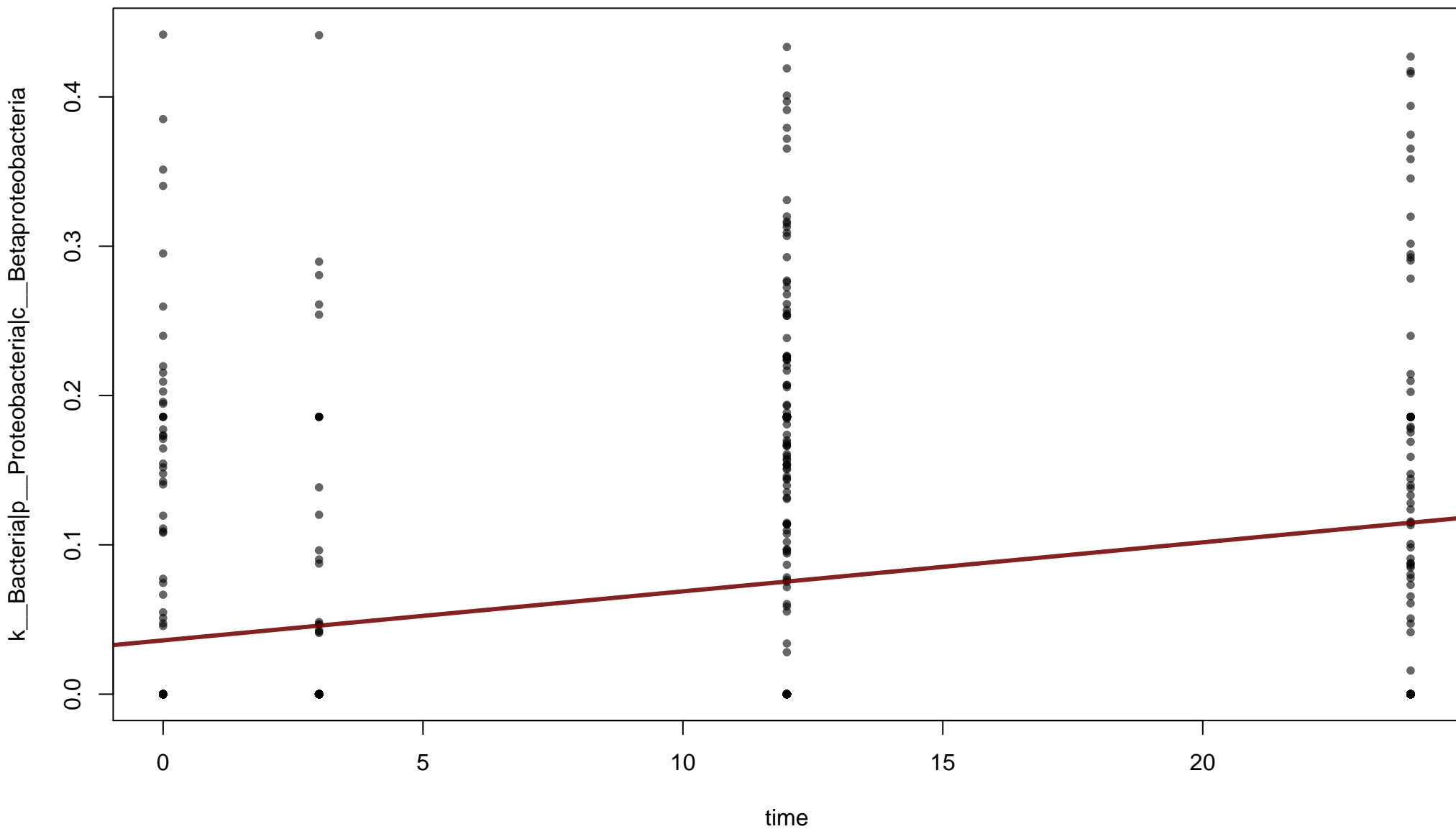


time ( $-0.00531$  sd  $0.000739$ ,  $p=1.84e-12$ ,  $q=3.08e-11$ )

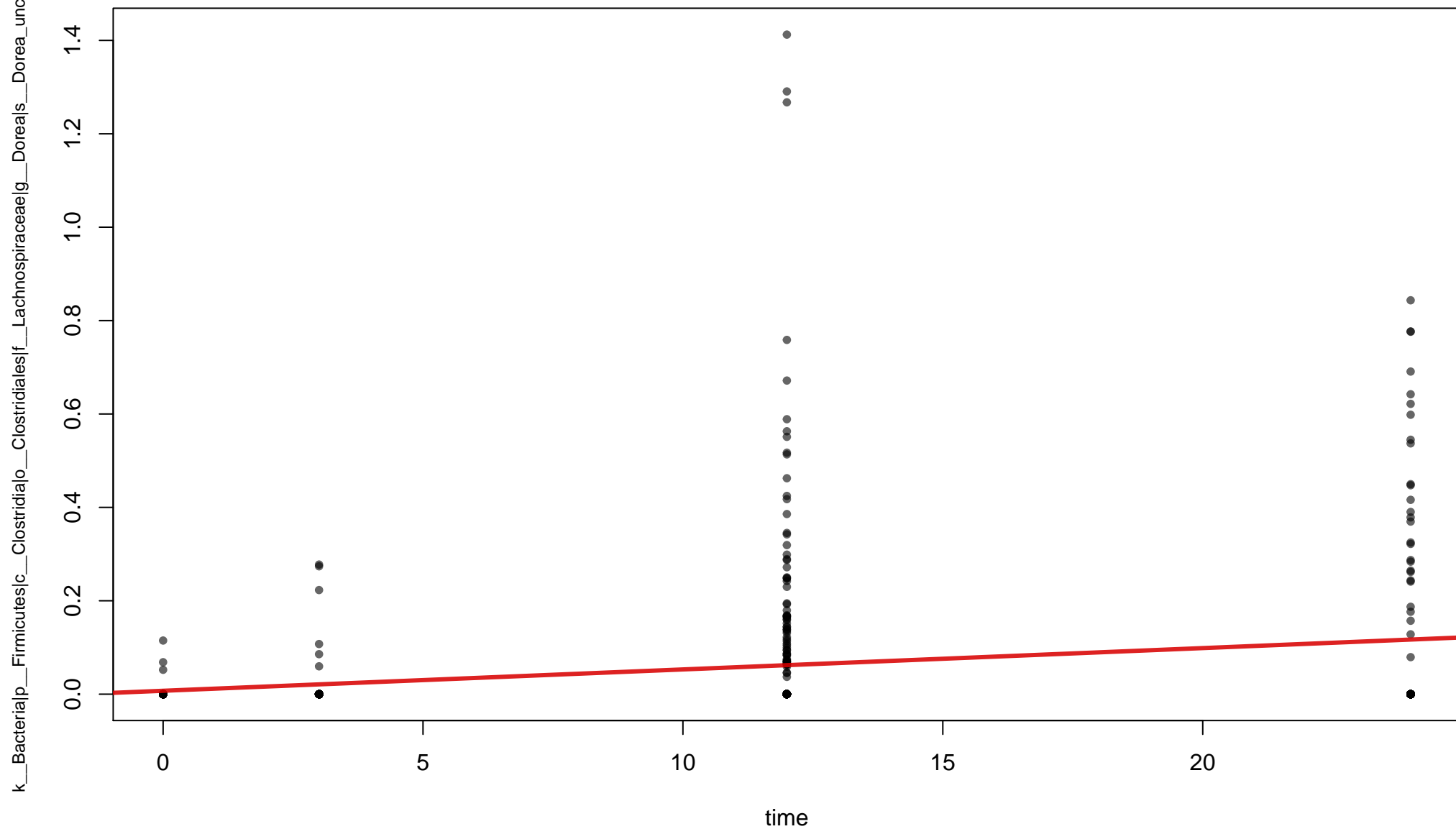




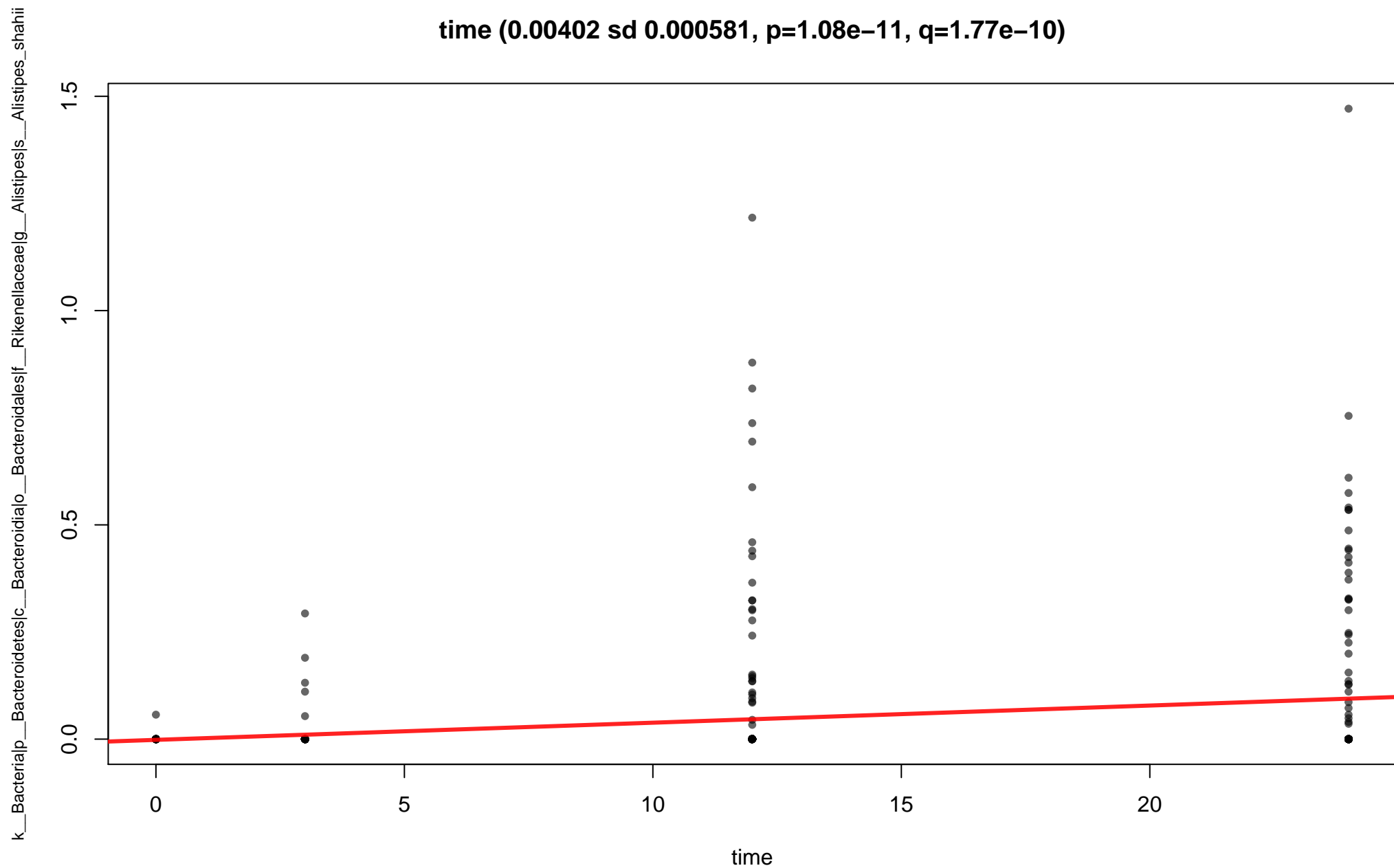
time (0.00329 sd 0.000458, p=2.12e-12, q=3.52e-11)



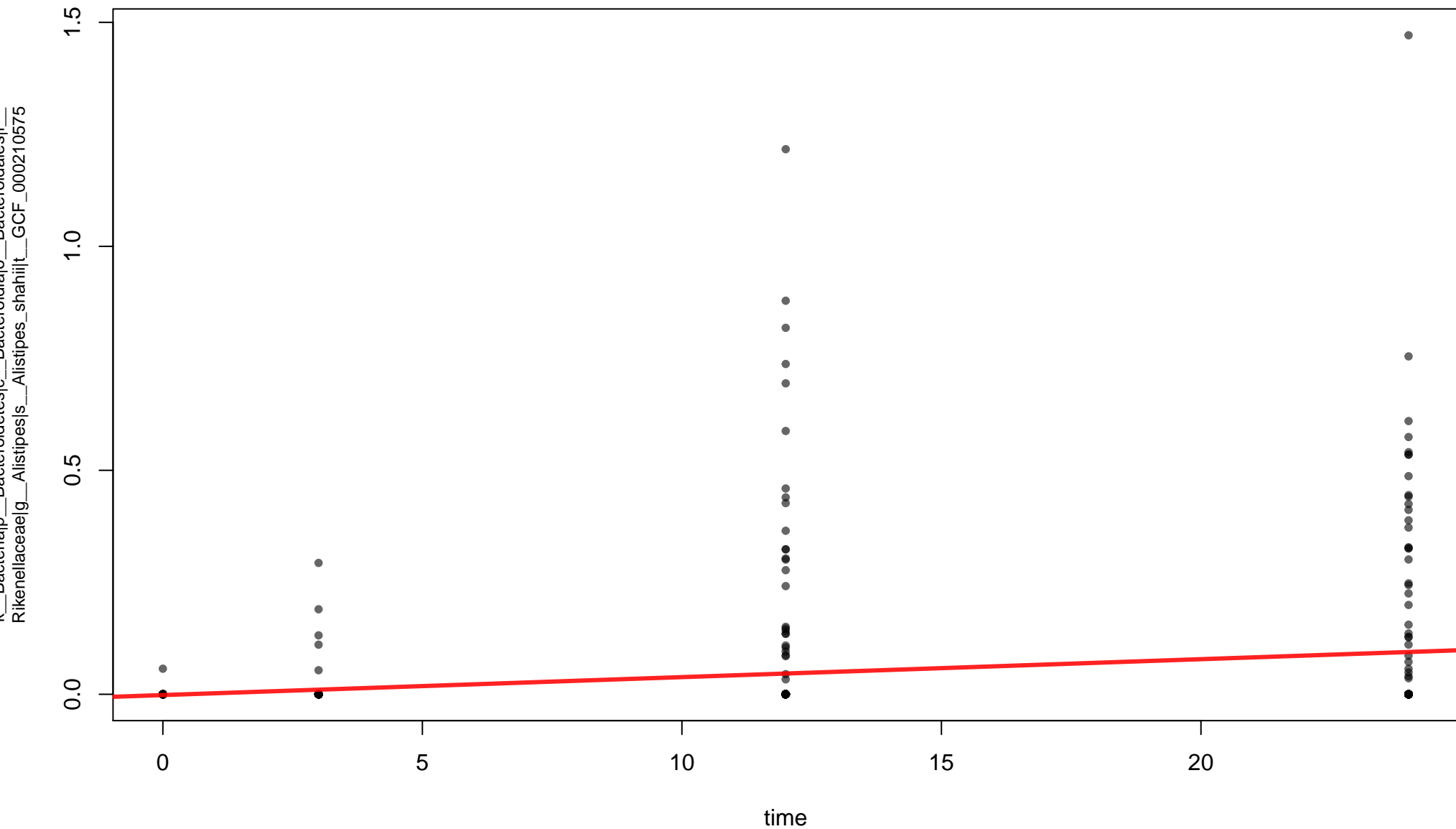
time (0.00457 sd 0.00066, p=1.07e-11, q=1.76e-10)



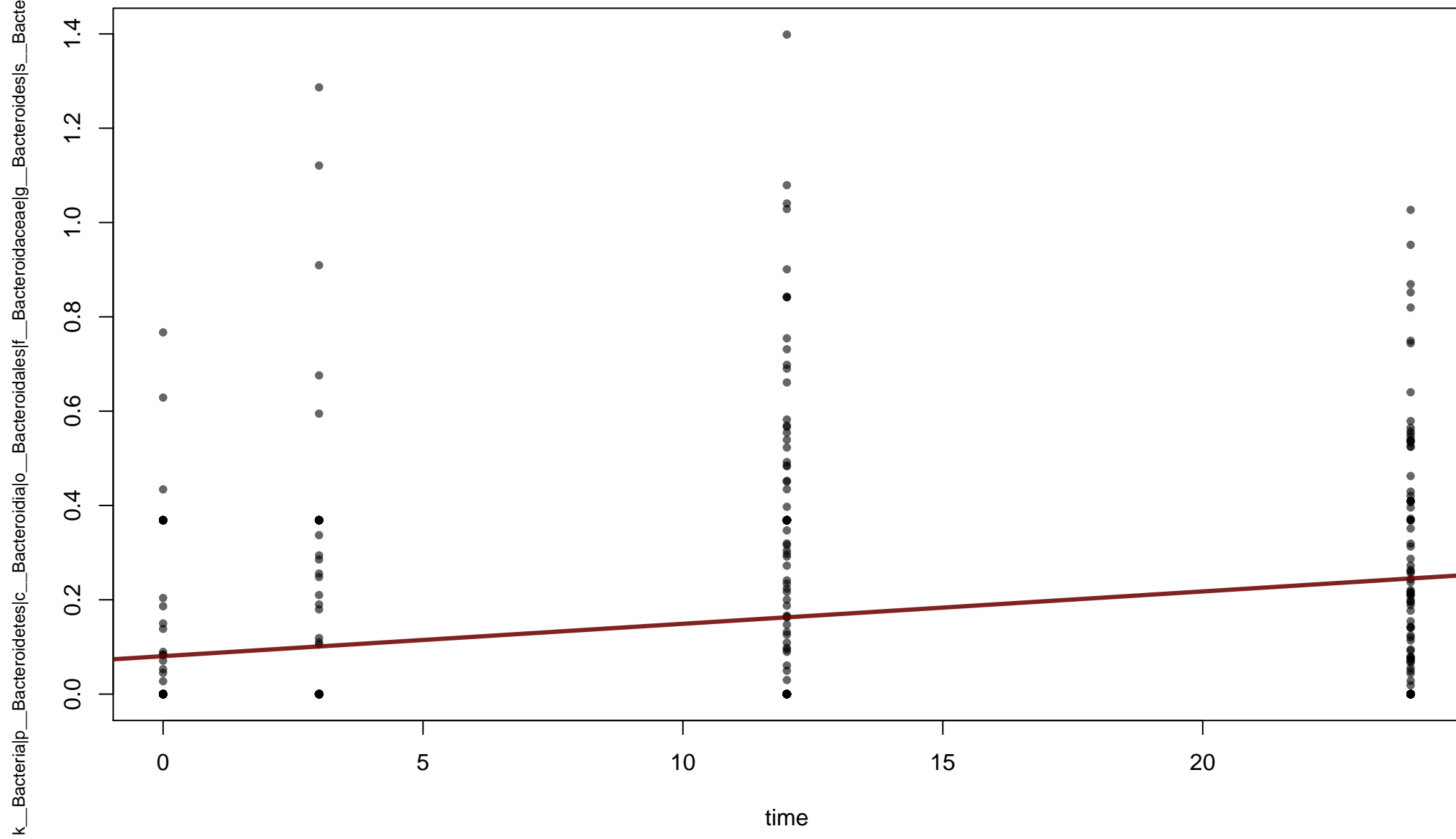
time (0.00402 sd 0.000581, p=1.08e-11, q=1.77e-10)



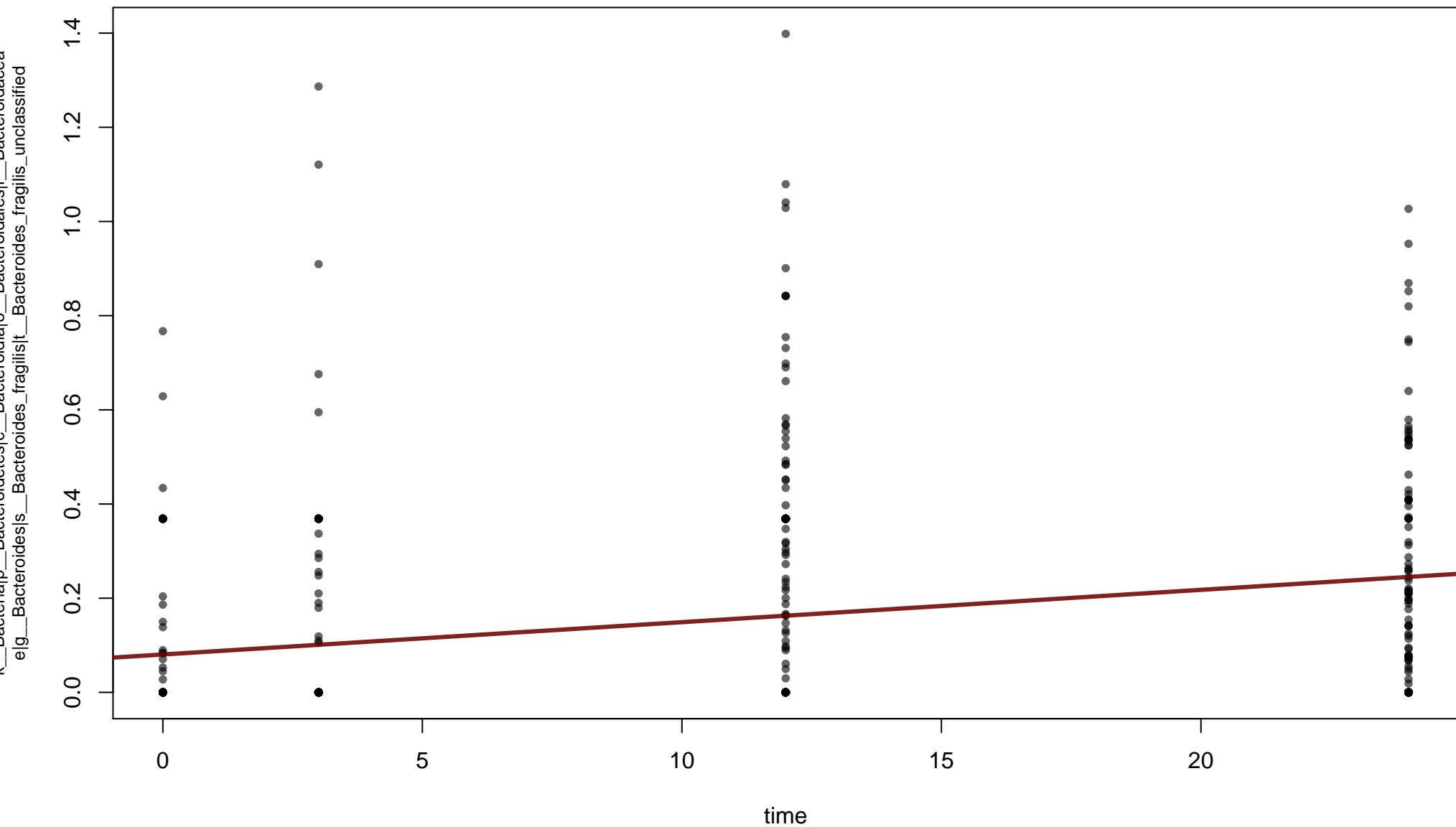
time (0.00402 sd 0.000581, p=1.08e-11, q=1.77e-10)



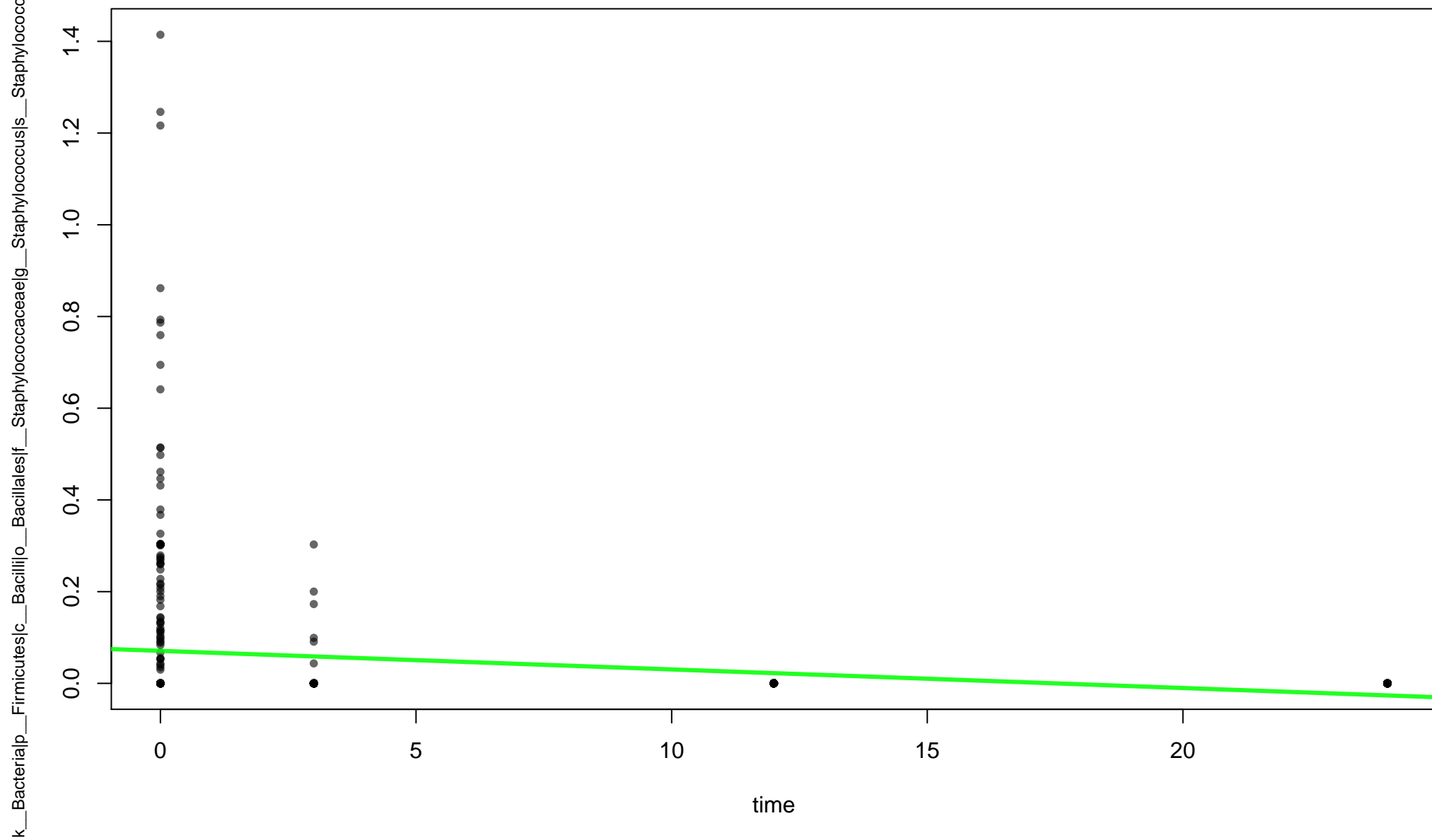
time (0.00688 sd 0.000998, p=1.31e-11, q=2.13e-10)



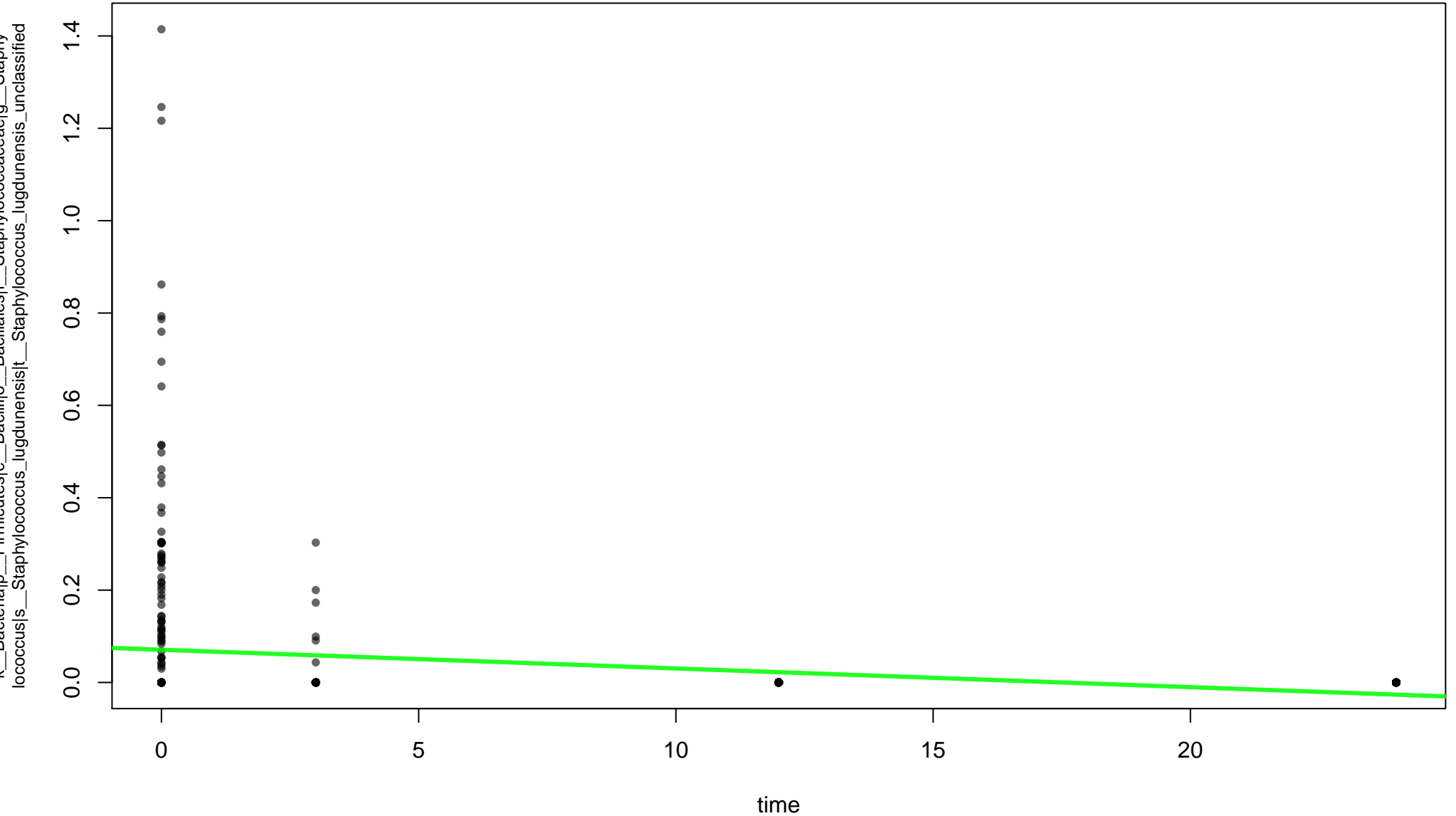
time (0.00688 sd 0.000998, p=1.31e-11, q=2.13e-10)



time ( $-0.00406$  sd  $0.000593$ ,  $p=1.83e-11$ ,  $q=2.93e-10$ )

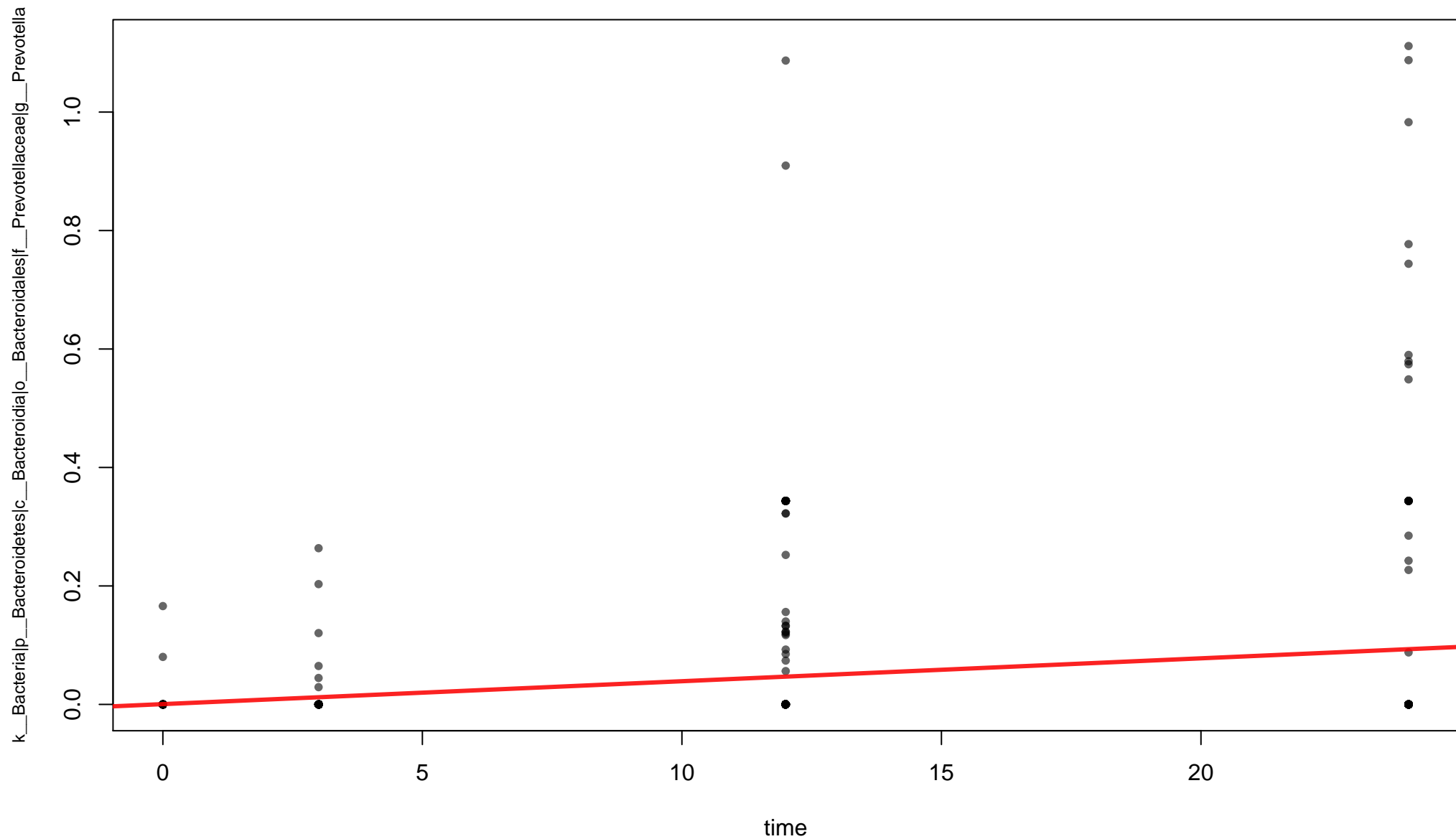


**time (−0.00406 sd 0.000593, p=1.83e−11, q=2.93e−10)**

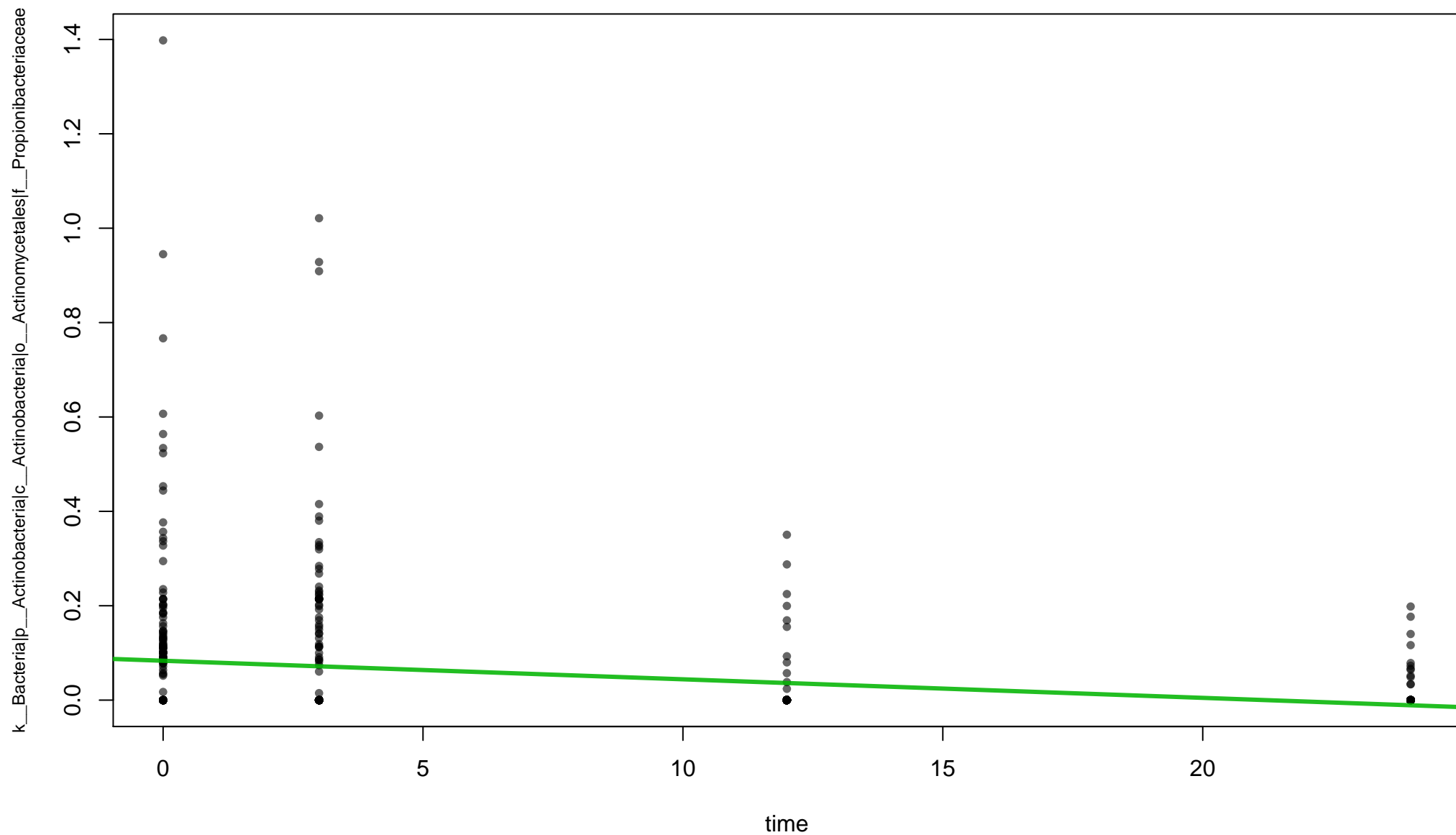




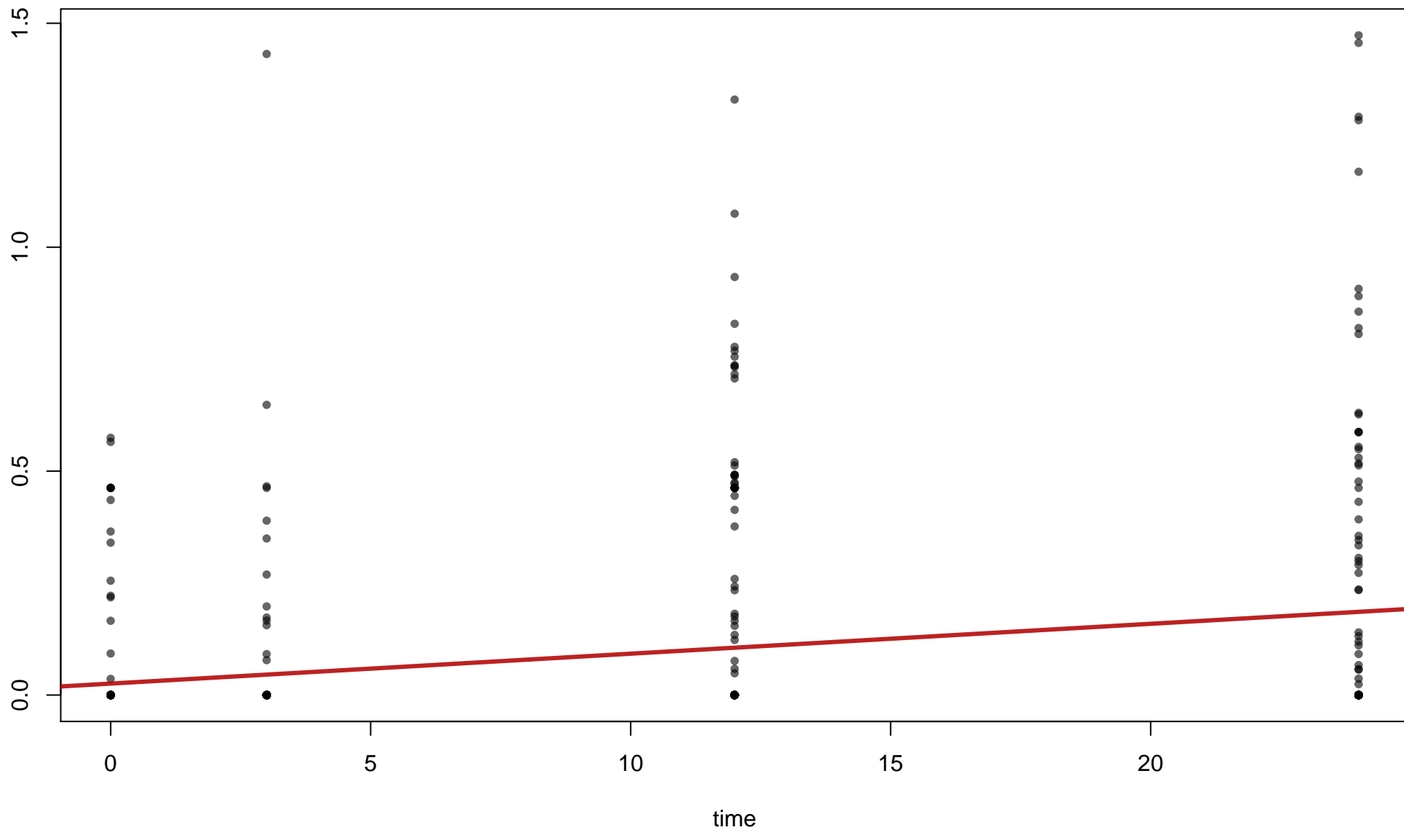
time (0.00389 sd 0.000571, p=2.17e-11, q=3.45e-10)



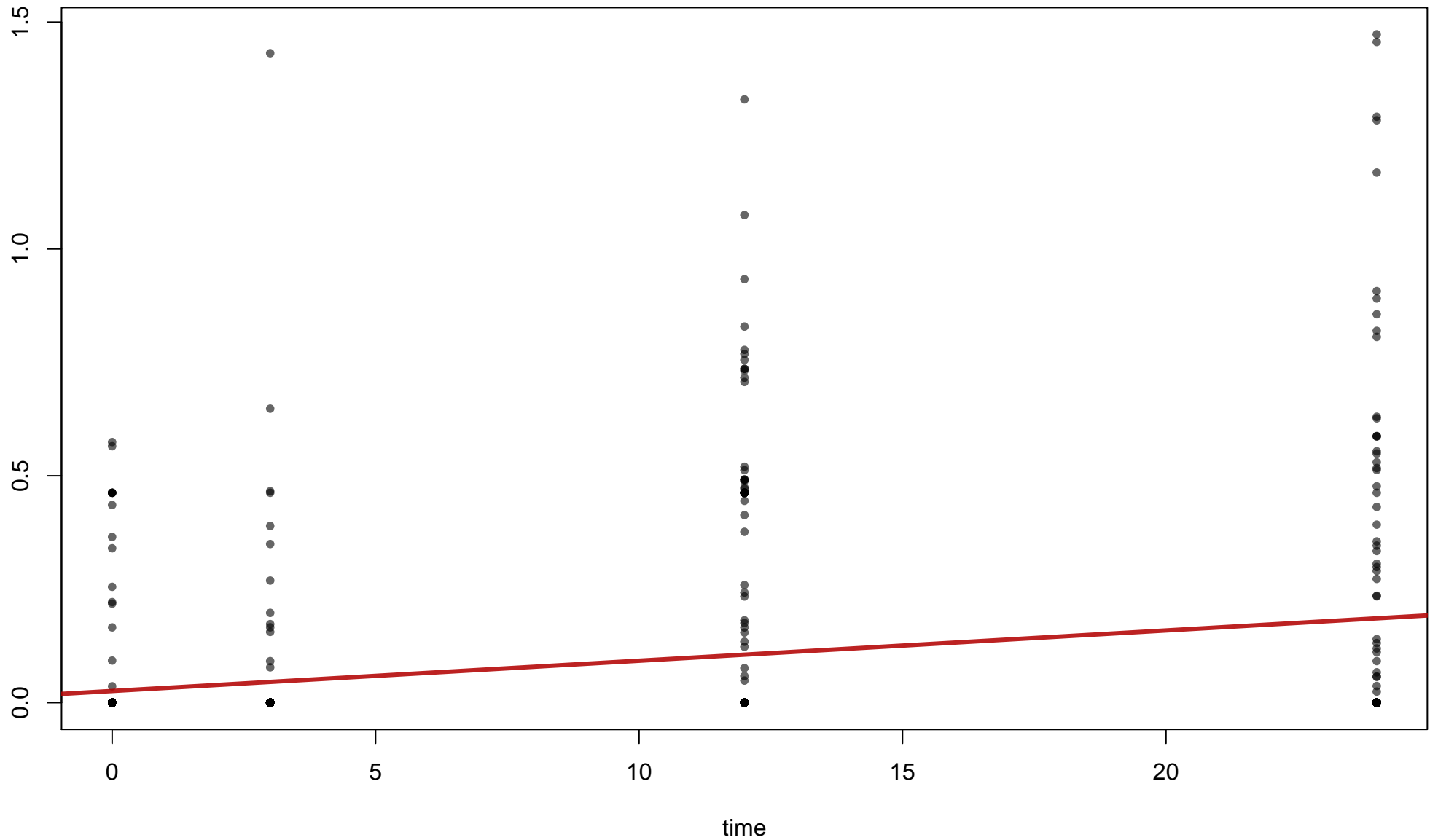
time ( $-0.00394$  sd  $0.000582$ ,  $p=2.84e-11$ ,  $q=4.5e-10$ )



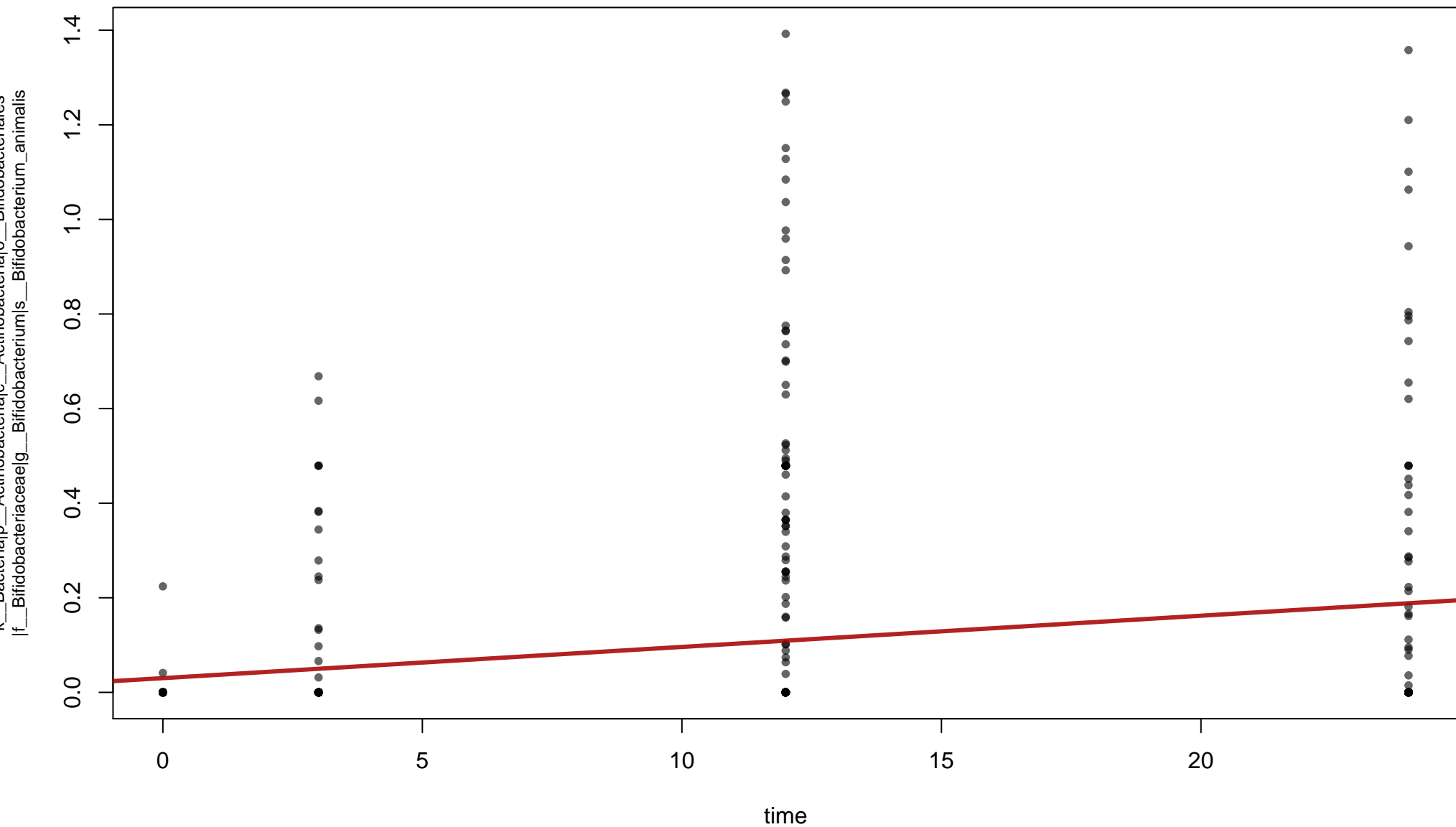
time (0.00666 sd 0.000985, p=3.06e-11, q=4.81e-10)



eeaealg\_\_Bacteroides|s\_\_Bacteroides\_caccae|t\_\_Bacteroides\_caccae\_unclassified

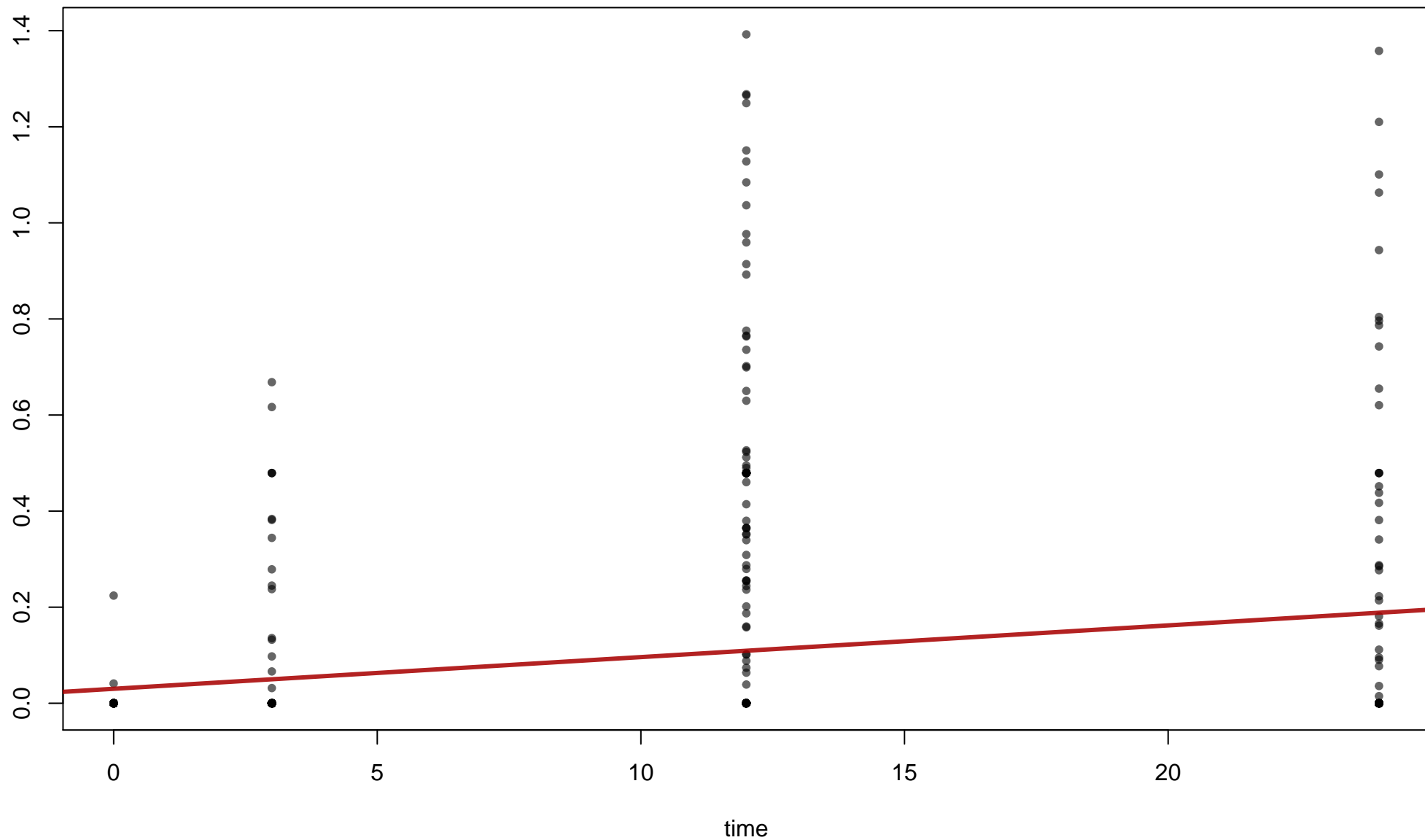


time (0.00655 sd 0.000975, p=4.11e-11, q=6.33e-10)

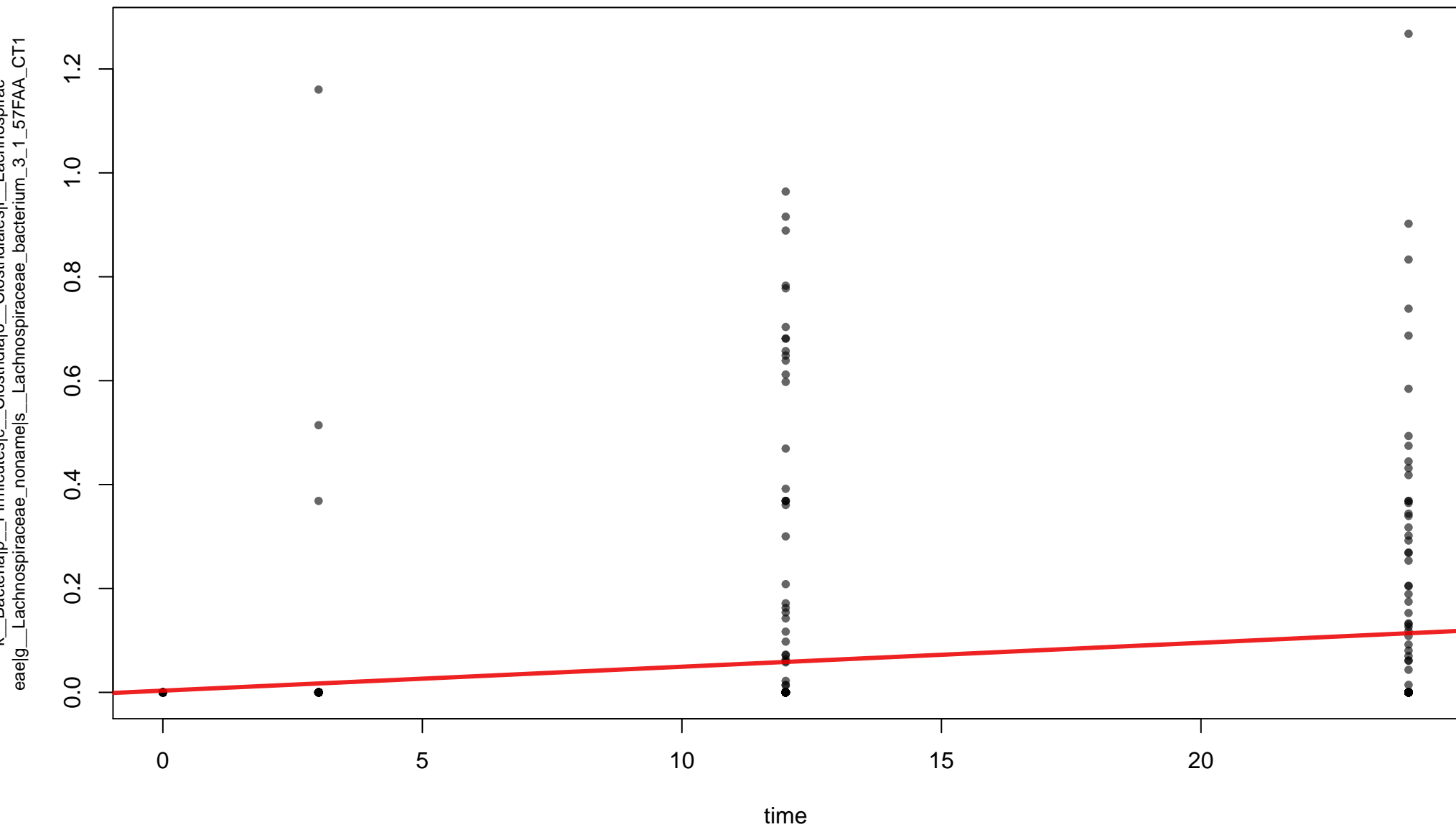


time (0.00655 sd 0.000975, p=4.11e-11, q=6.33e-10)

elg\_Bifidobacterium[s\_Bifidobacterium\_animalis]t\_Bifidobacterium\_animalis\_unclassified

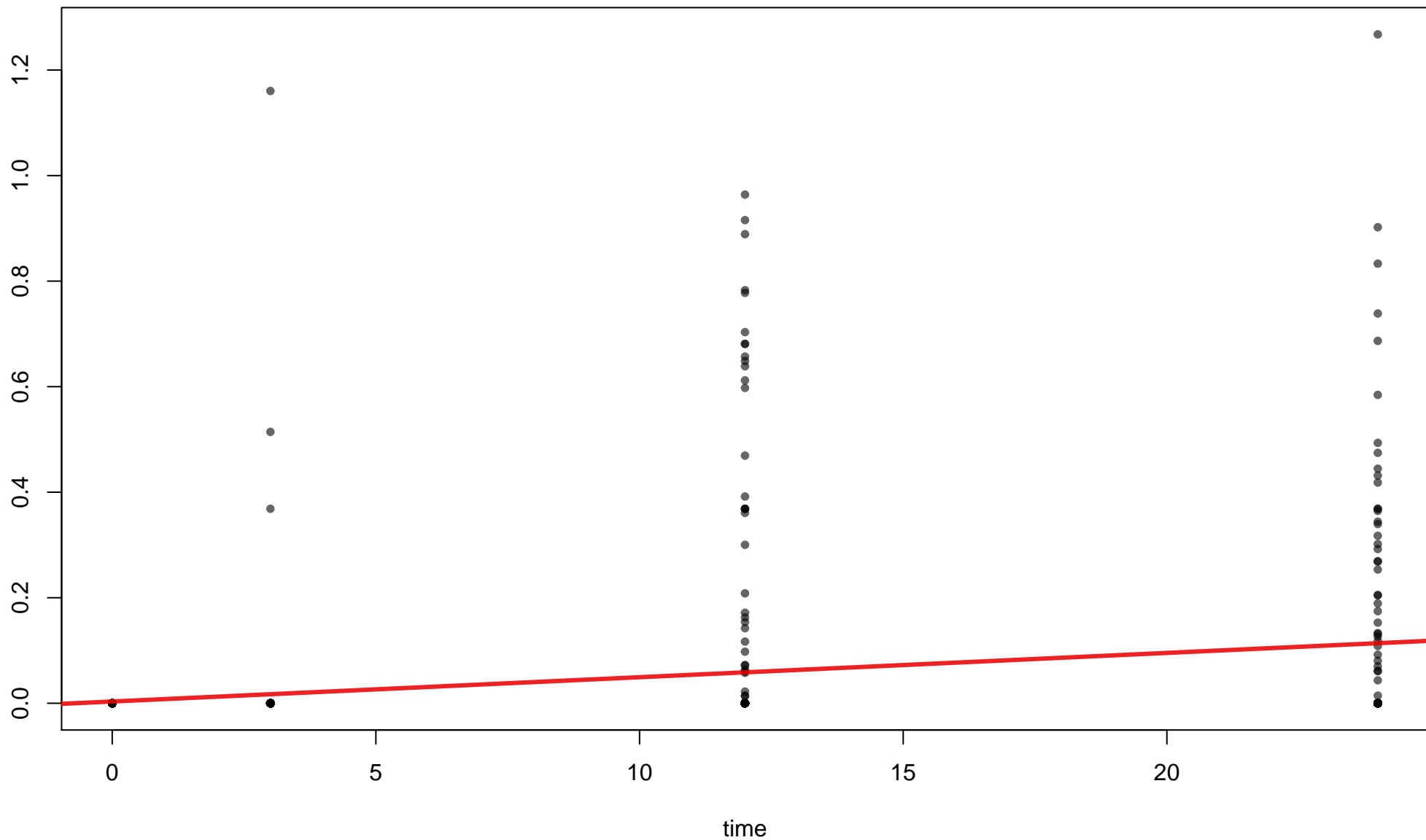


time (0.0046 sd 0.000685, p=4.34e-11, q=6.62e-10)



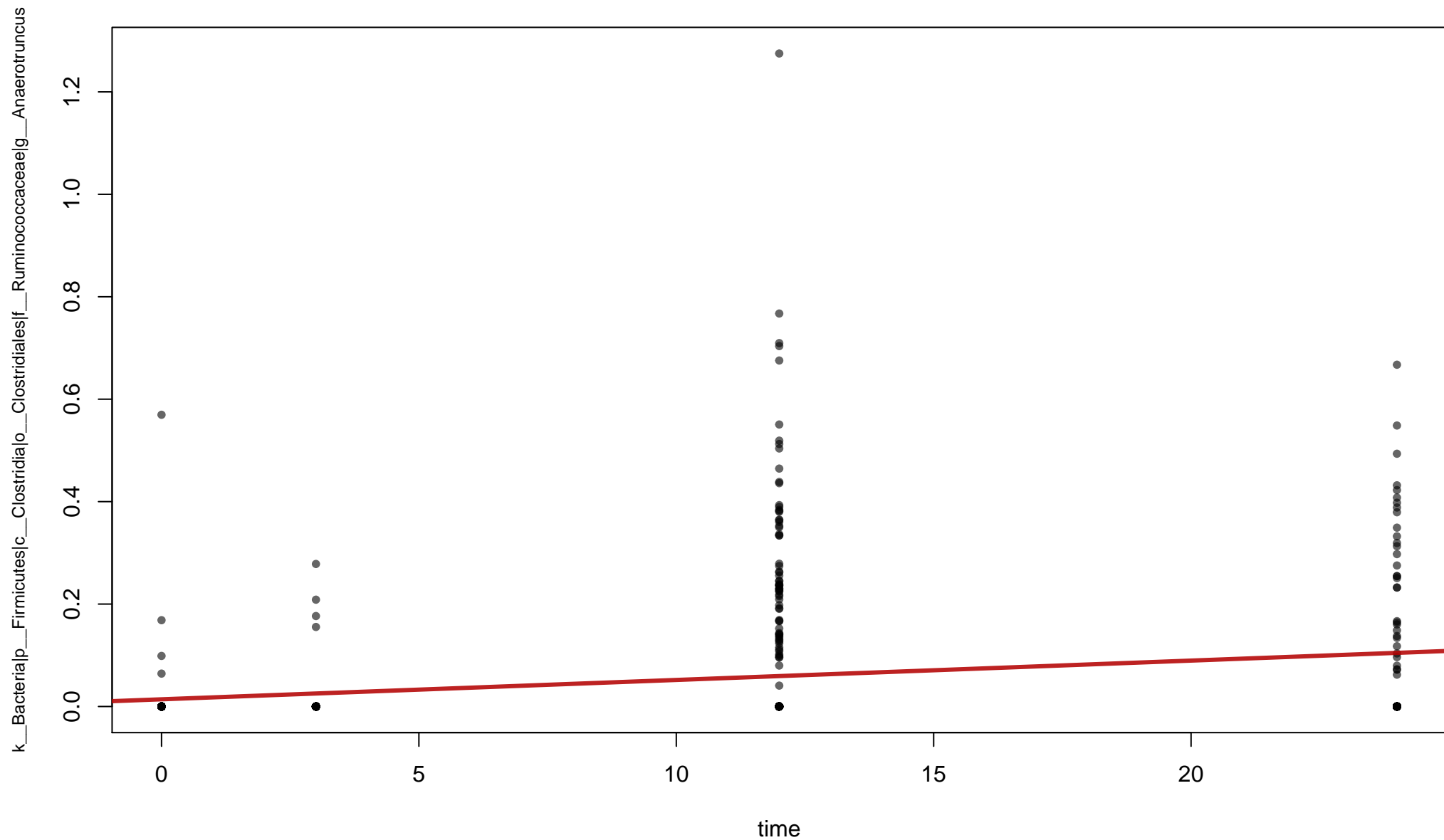
time (0.0046 sd 0.000685, p=4.34e-11, q=6.62e-10)

achnospiraceae\_noname|s\_Lachnospiraceae\_bacterium\_3\_1\_57FAA\_CT1|t\_GCF\_000218405

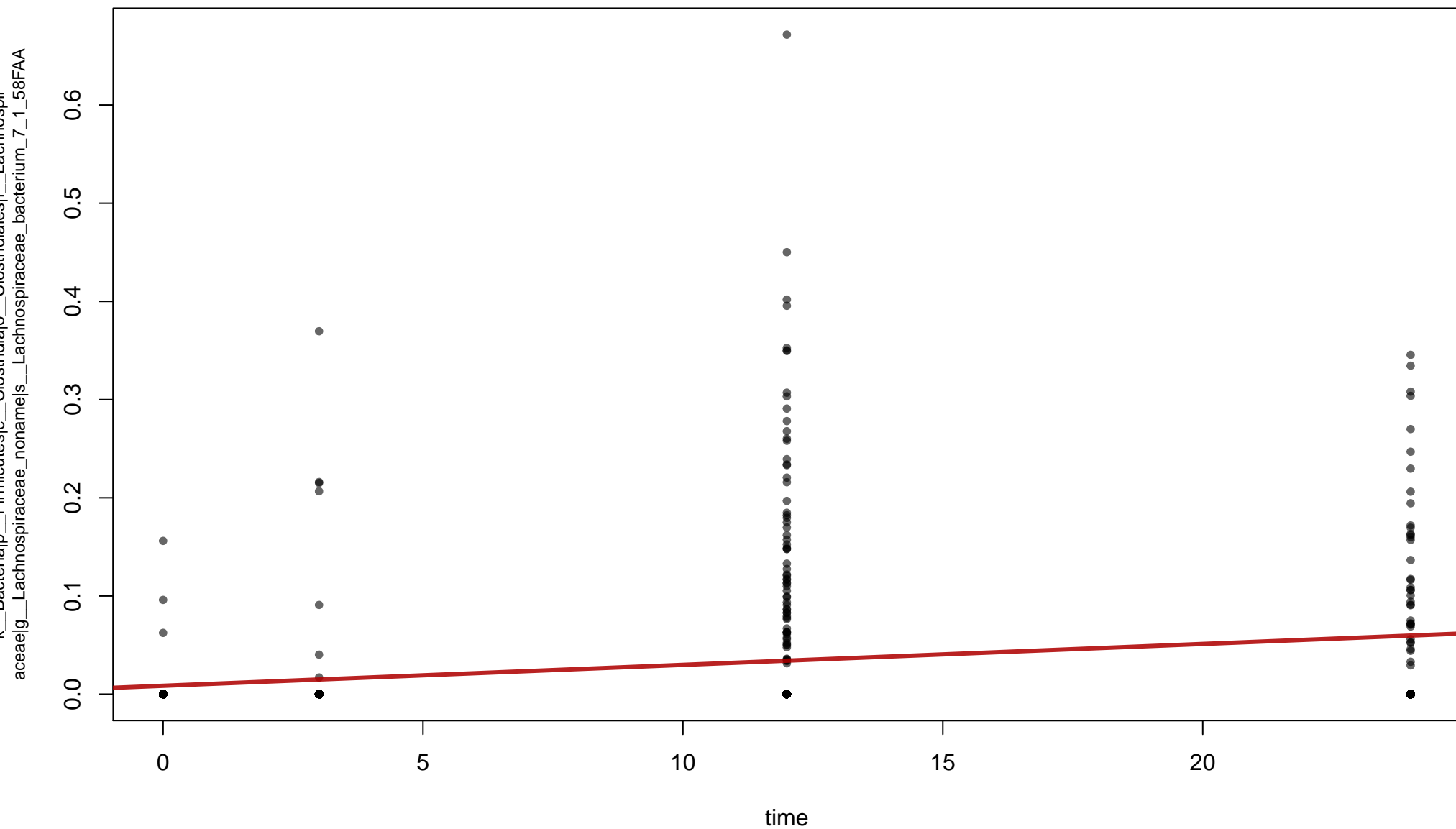




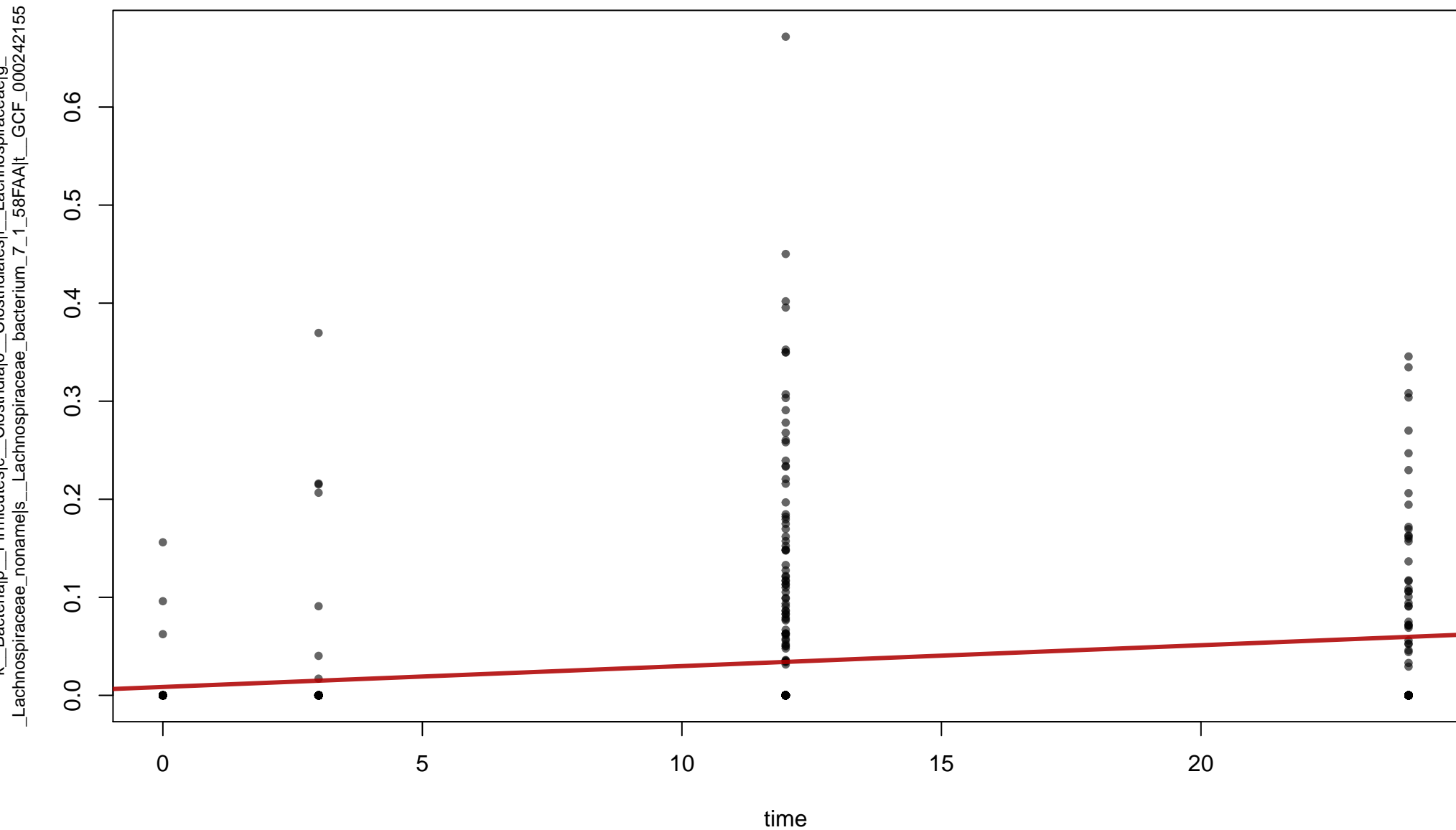
time (0.00378 sd 0.000567, p=5.9e-11, q=8.95e-10)



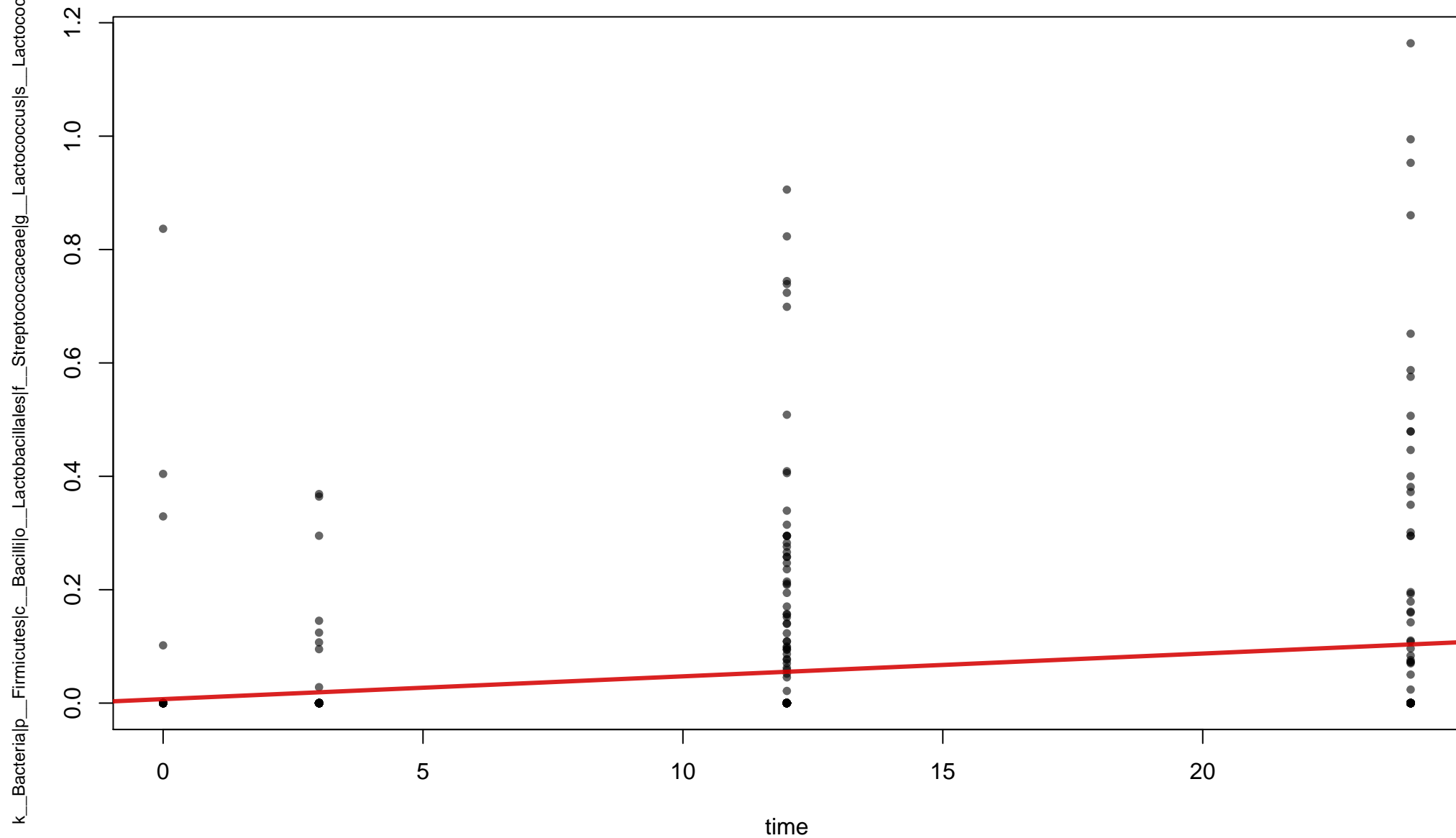
time (0.00214 sd 0.000328, p=1.52e-10, q=2.28e-09)



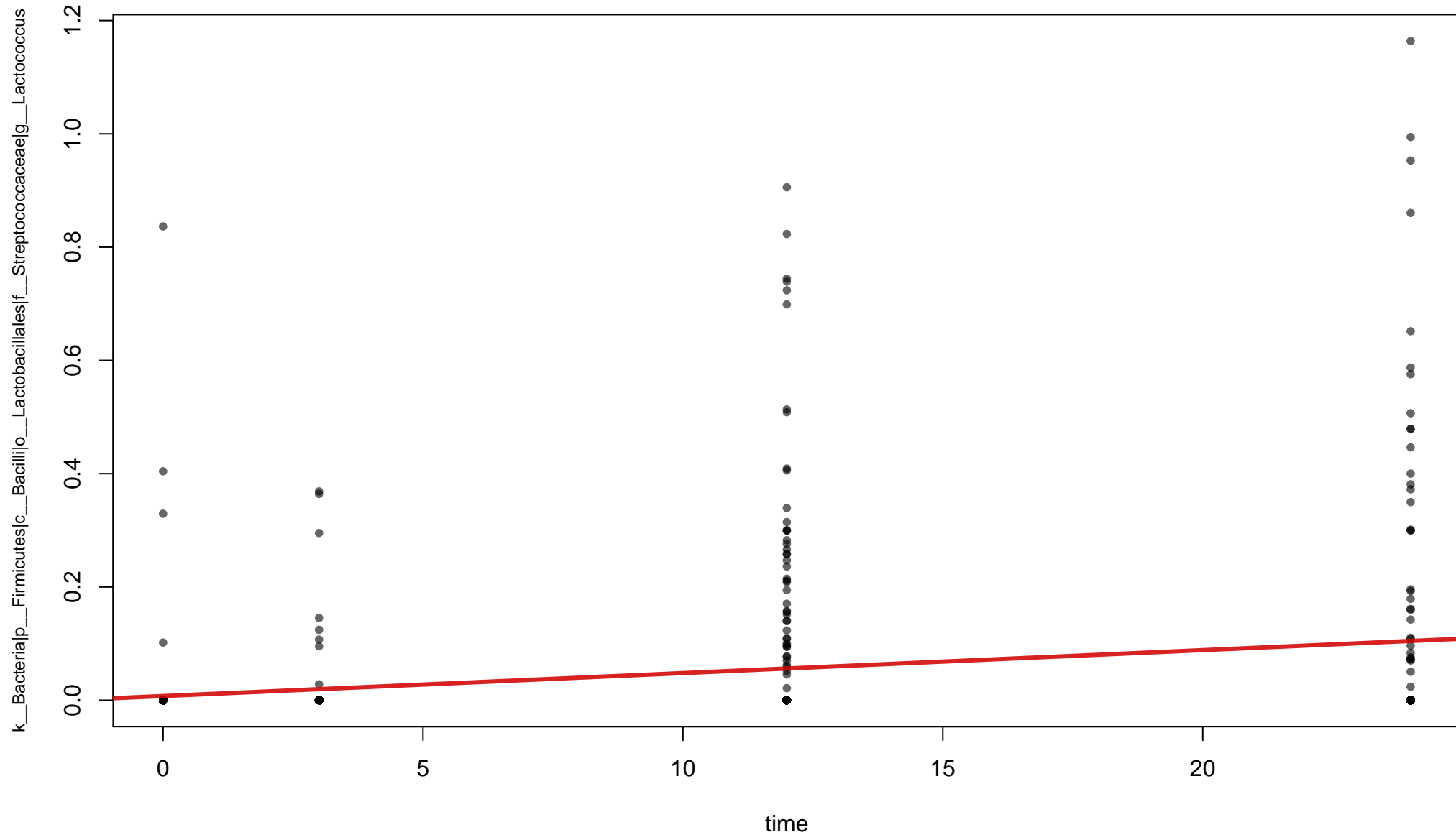
time (0.00214 sd 0.000328, p=1.52e-10, q=2.28e-09)



time (0.00402 sd 0.000622, p=2.04e-10, q=3.05e-09)

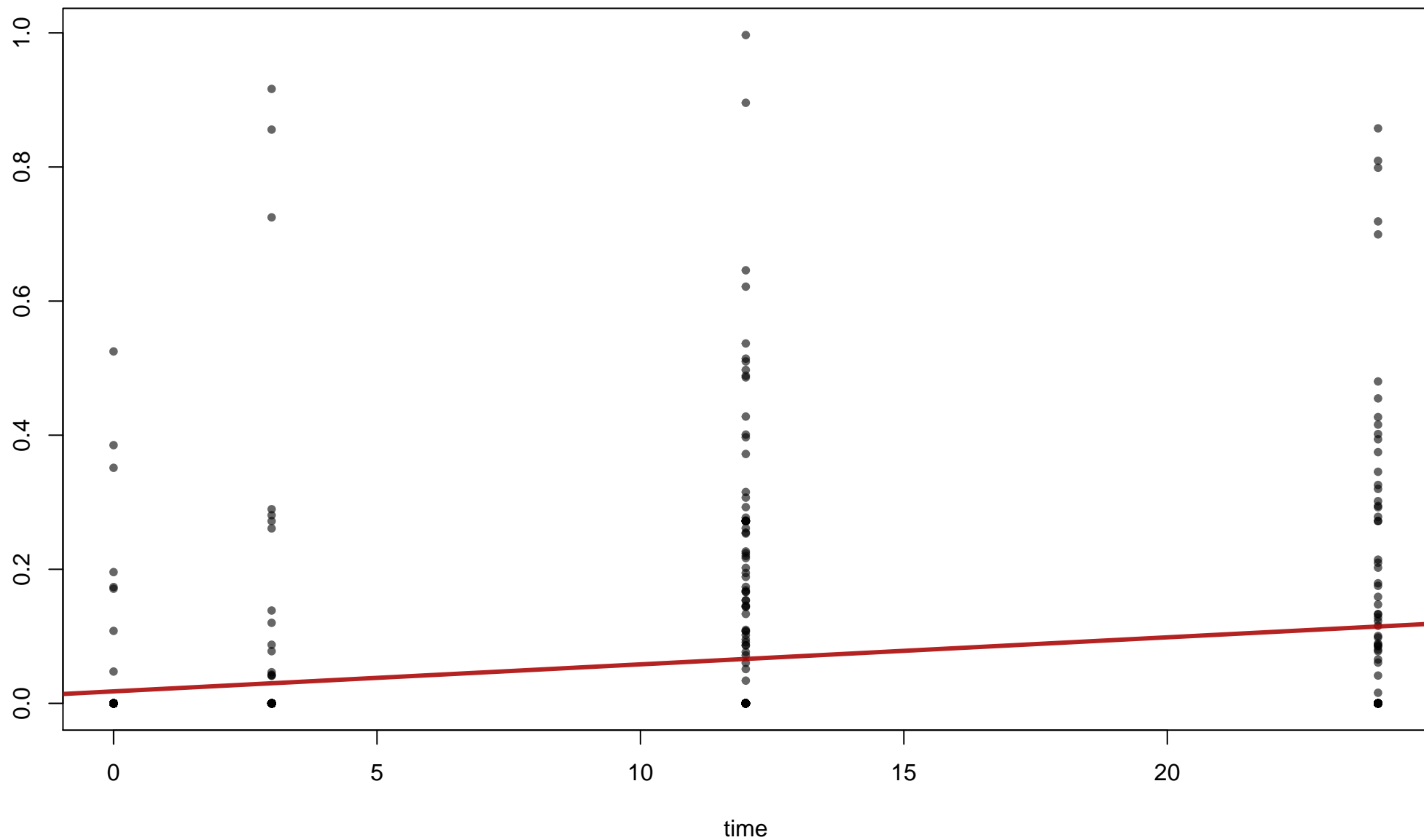


time (0.00405 sd 0.000627, p=2.13e-10, q=3.17e-09)

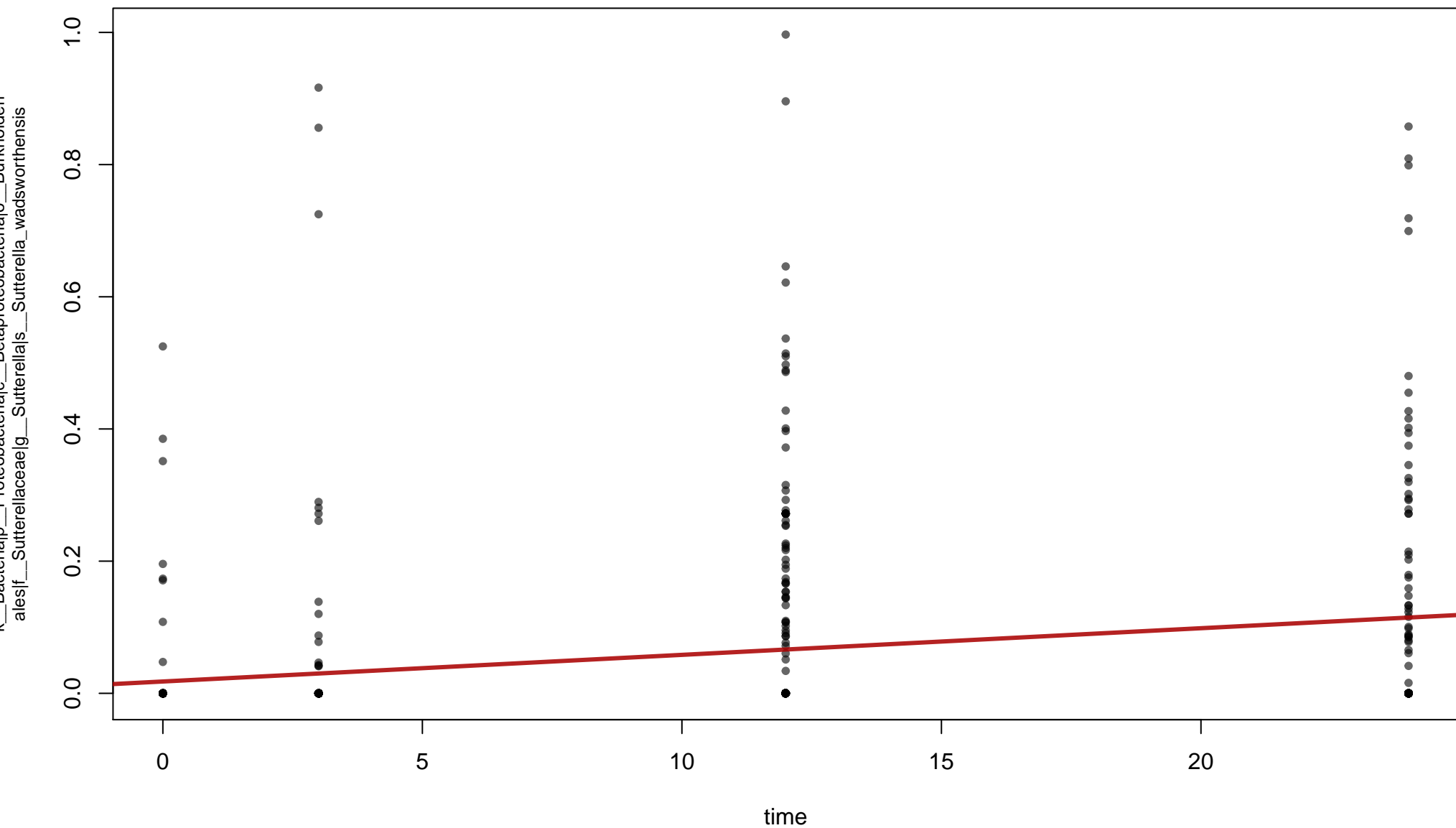


time (0.00403 sd 0.000633, p=3.52e-10, q=5.19e-09)

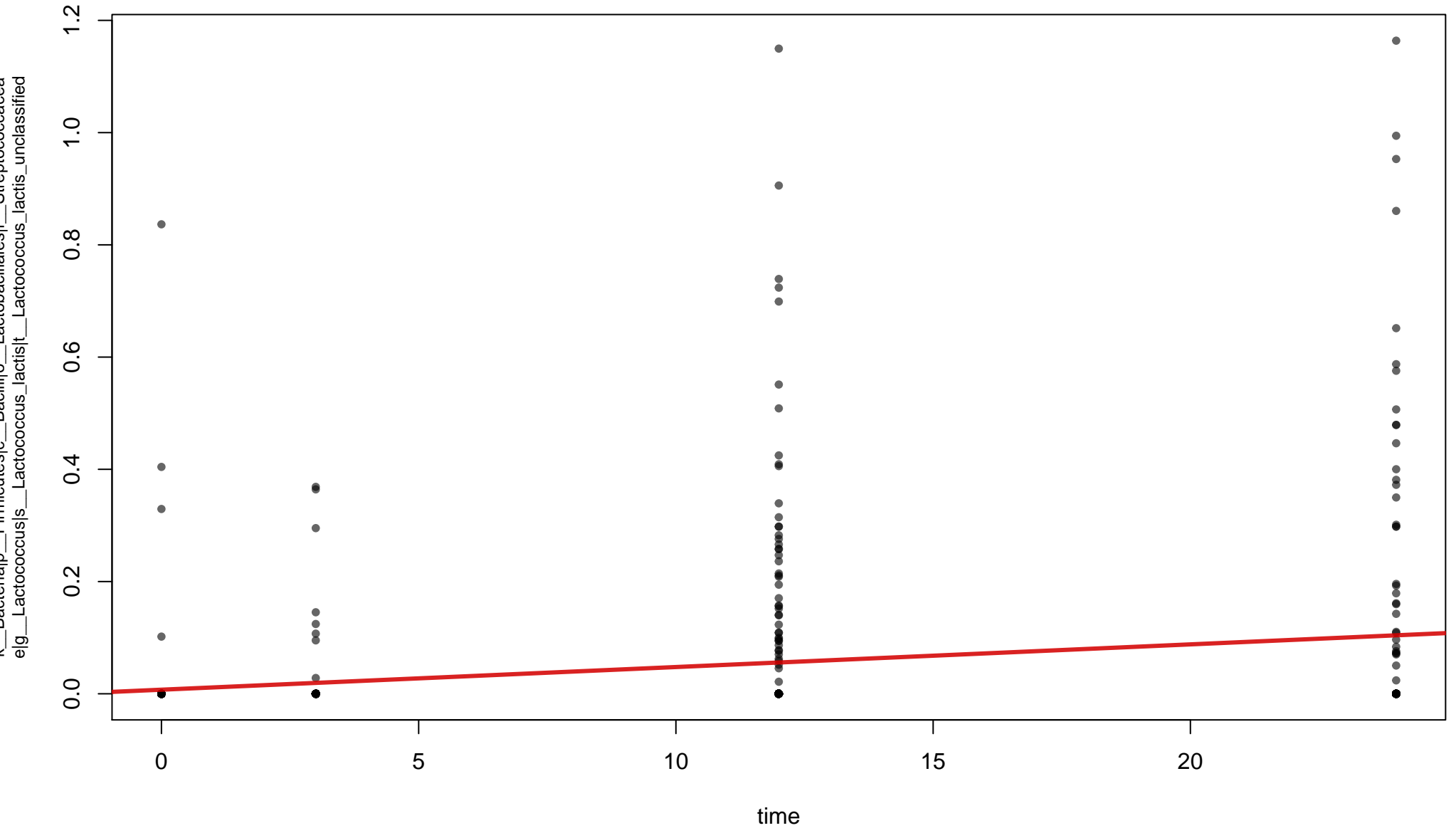
k\_Bacteria|p\_\_Proteobacteria|c\_\_Betaproteobacteria|o\_\_Burkholderiales|f\_\_Sutterellaceae|g\_\_Sutterella



time (0.00403 sd 0.000633, p=3.52e-10, q=5.19e-09)

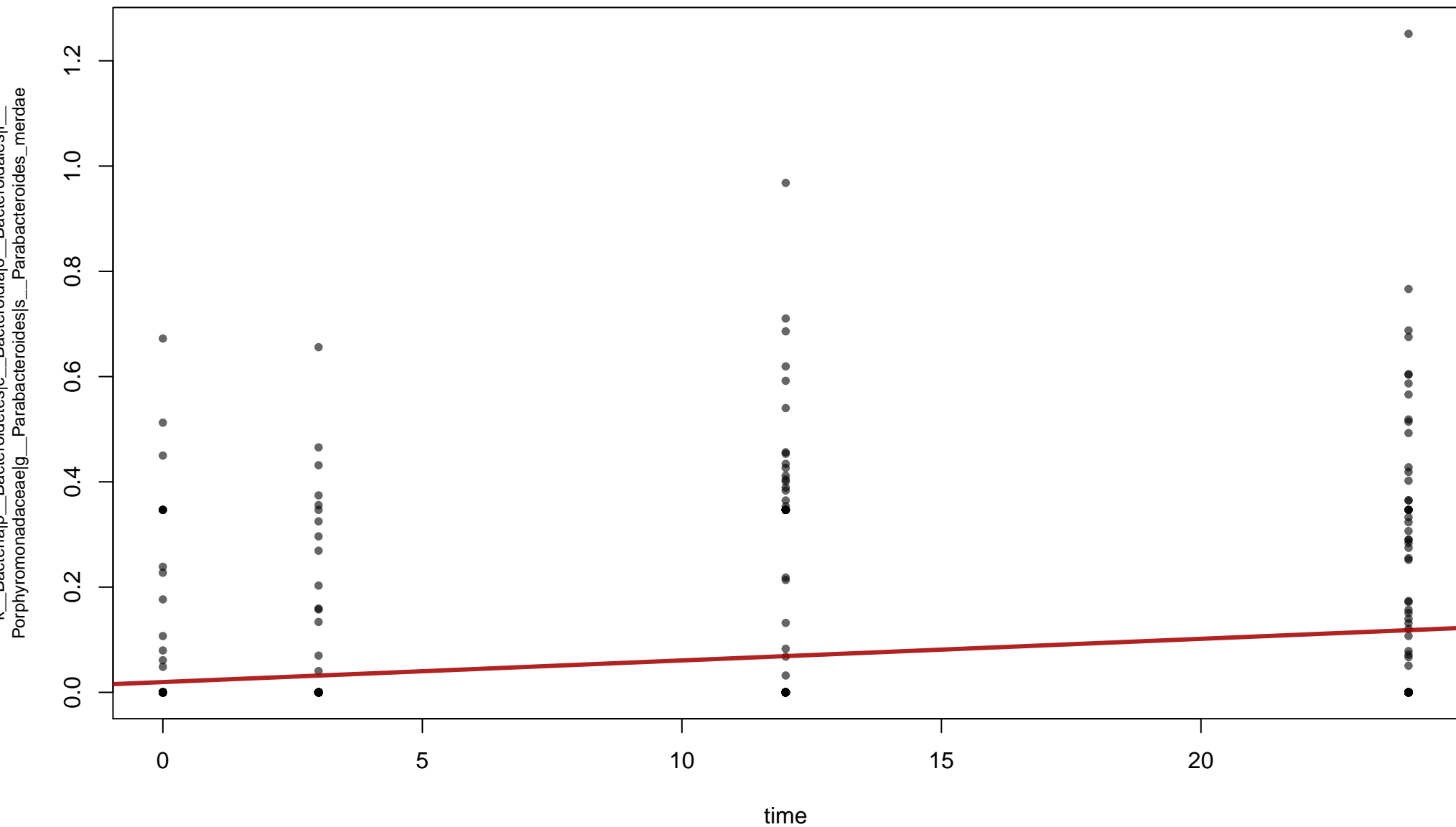


**time (0.00404 sd 0.000633, p=3.54e-10, q=5.2e-09)**

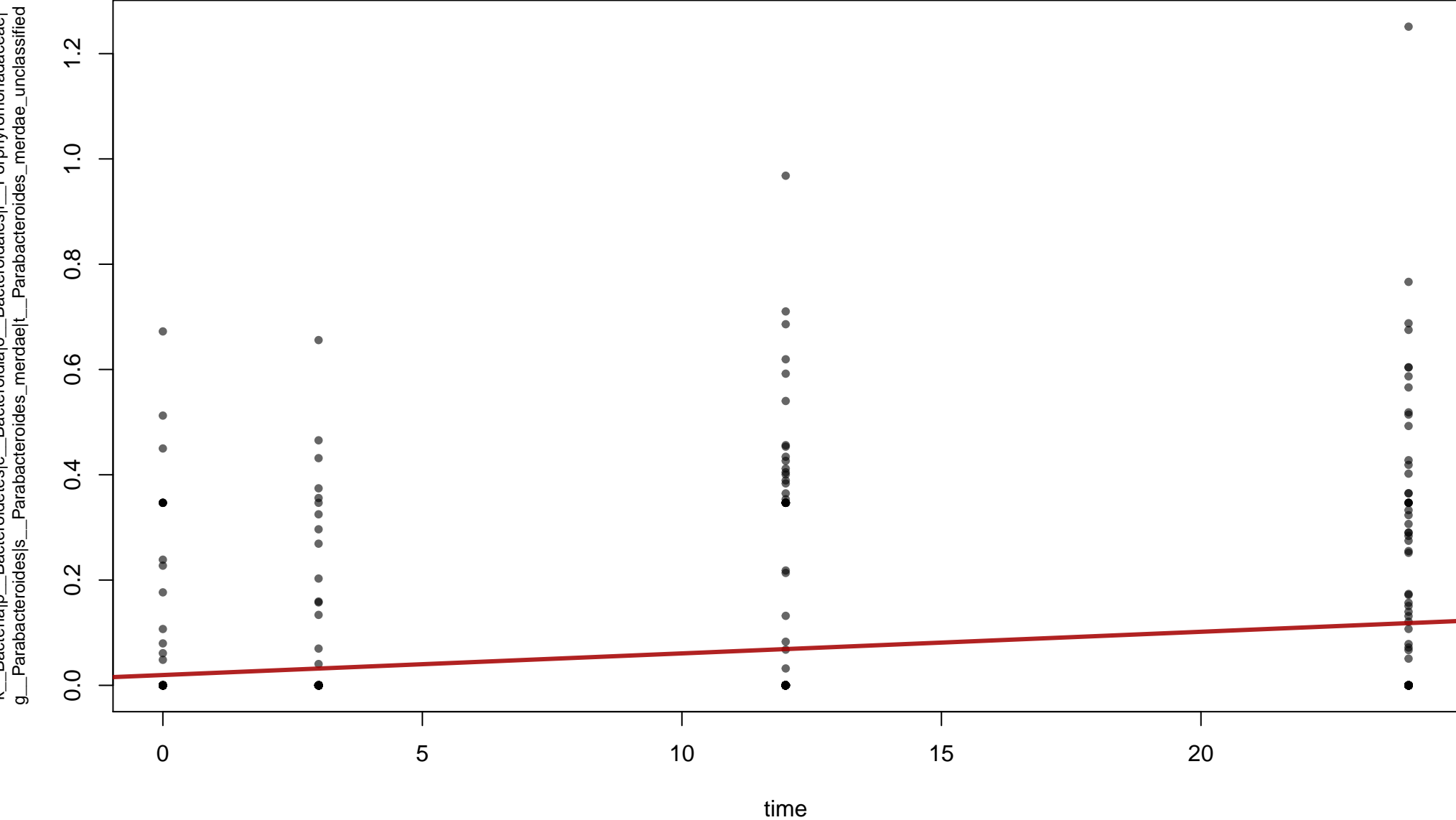




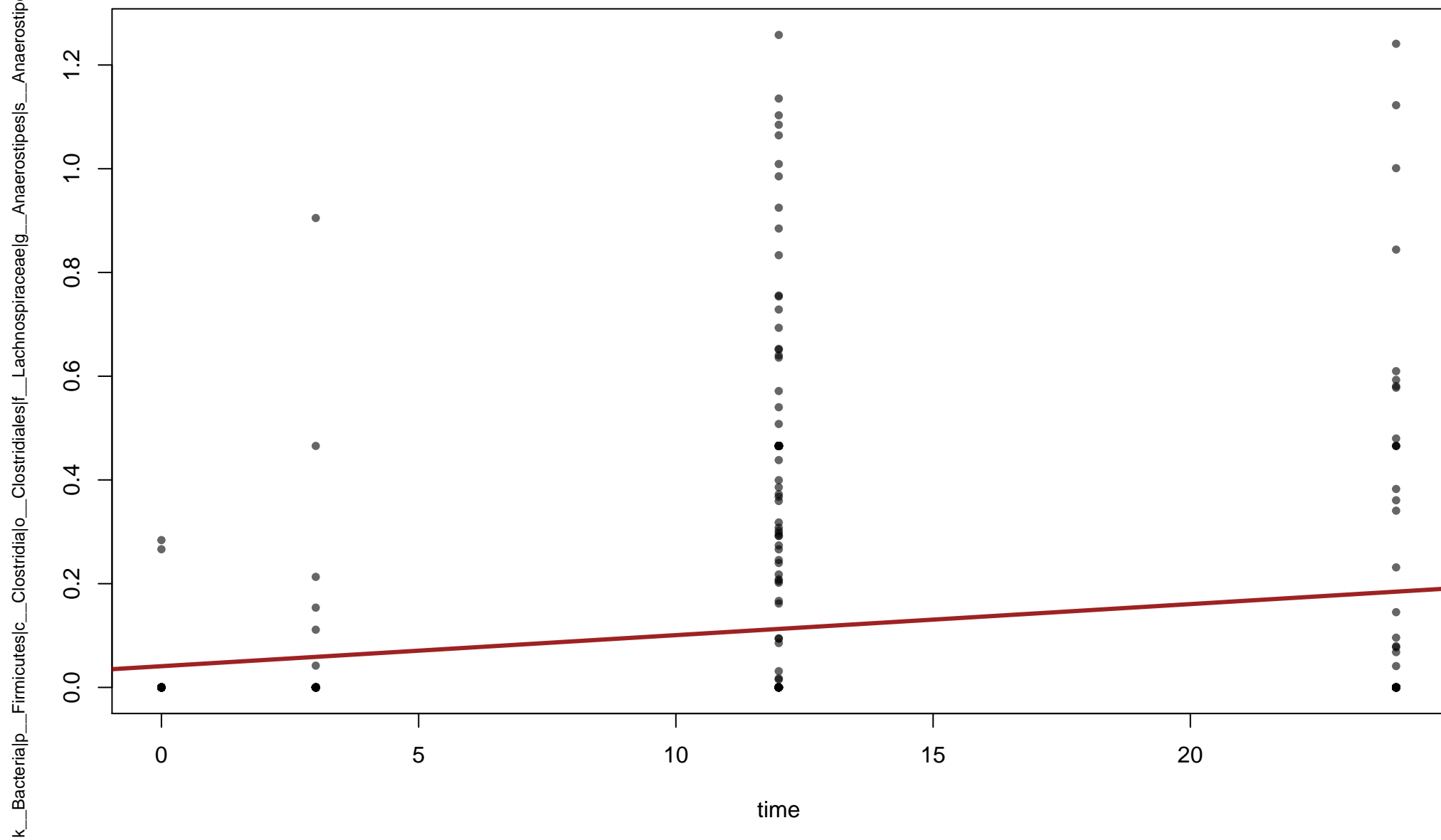
time (0.00412 sd 0.000668, p=1.25e-09, q=1.81e-08)



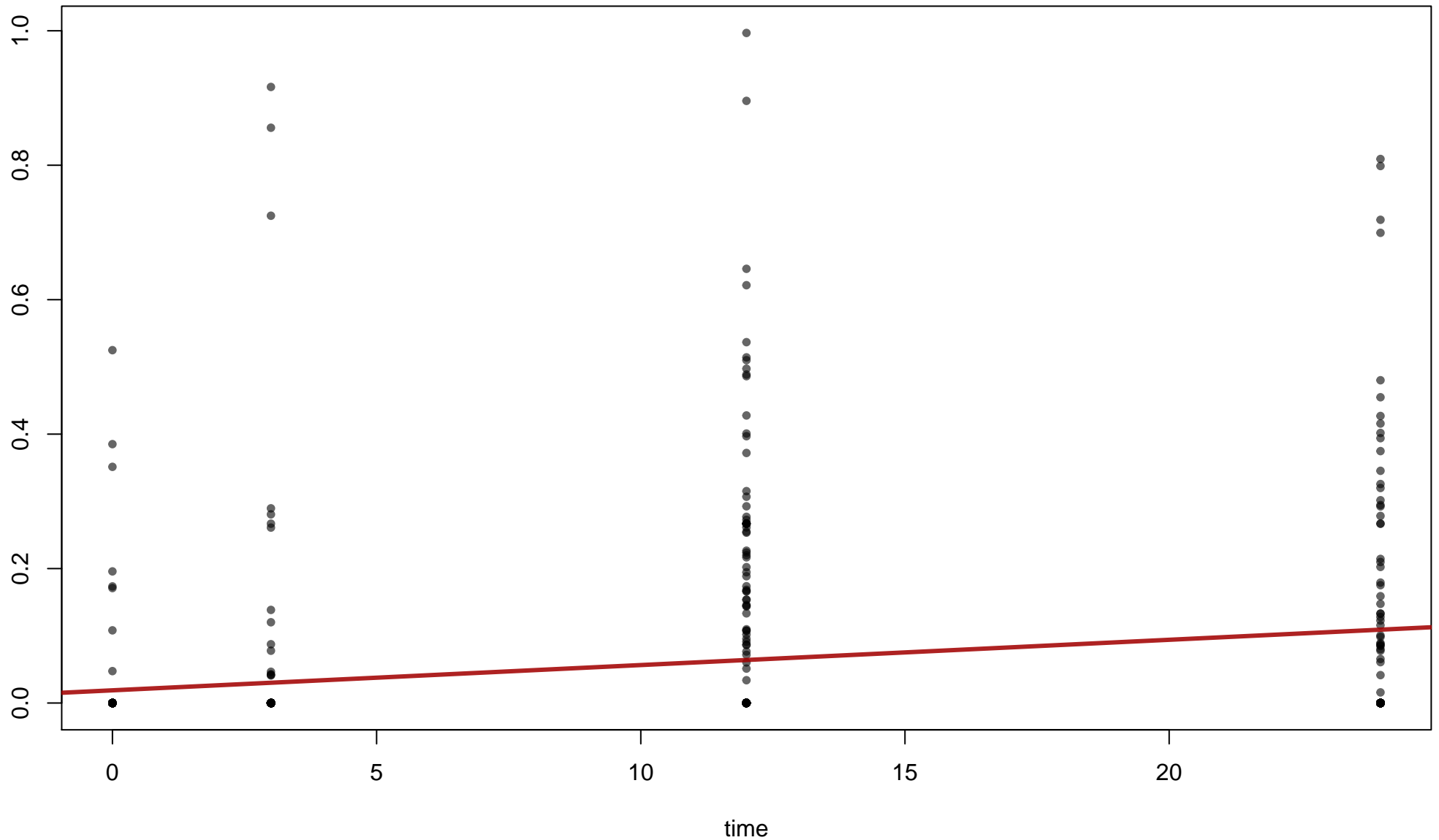
time (0.00412 sd 0.000668, p=1.25e-09, q=1.81e-08)



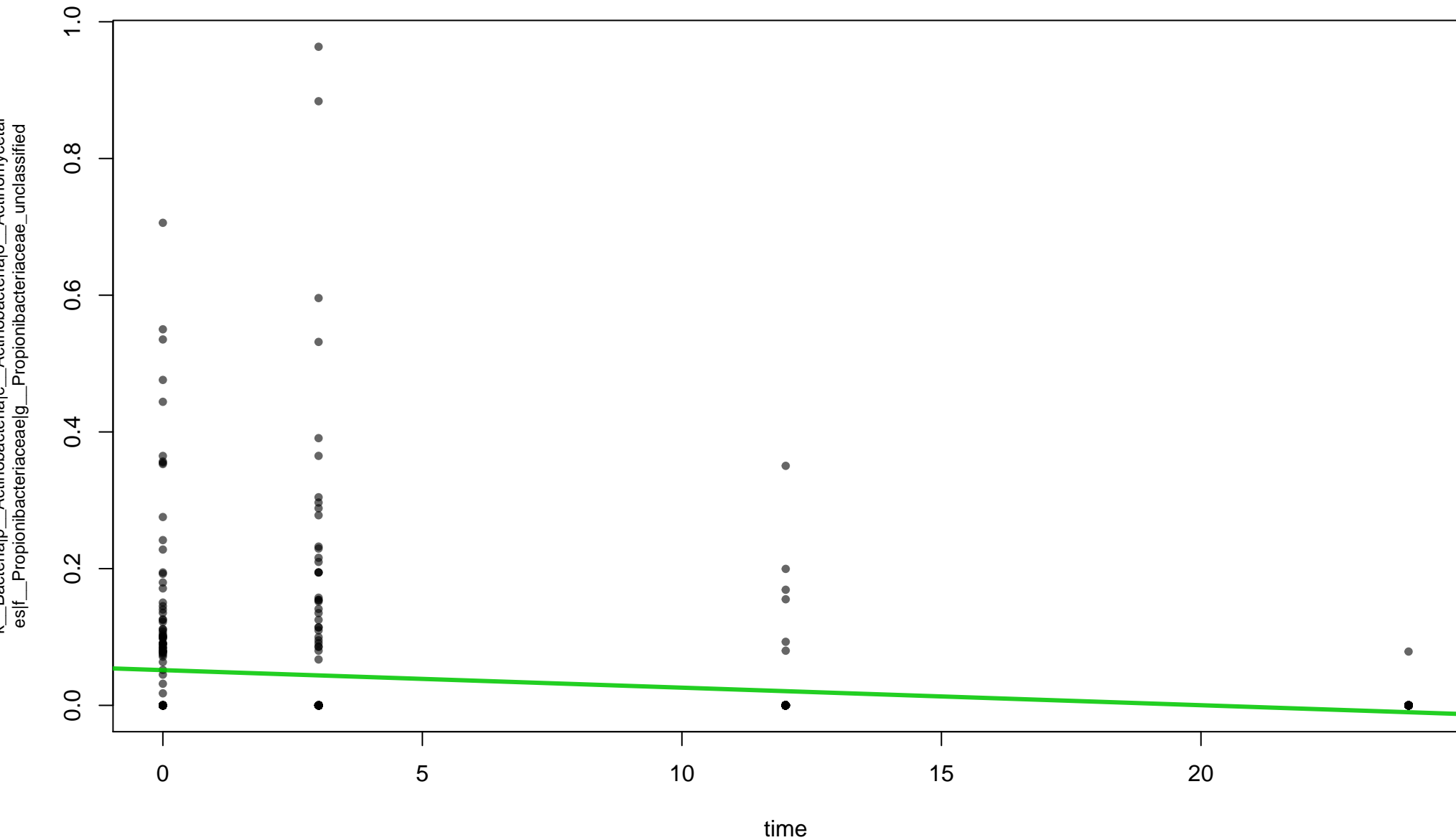
time (0.00598 sd 0.000971, p=1.3e-09, q=1.88e-08)



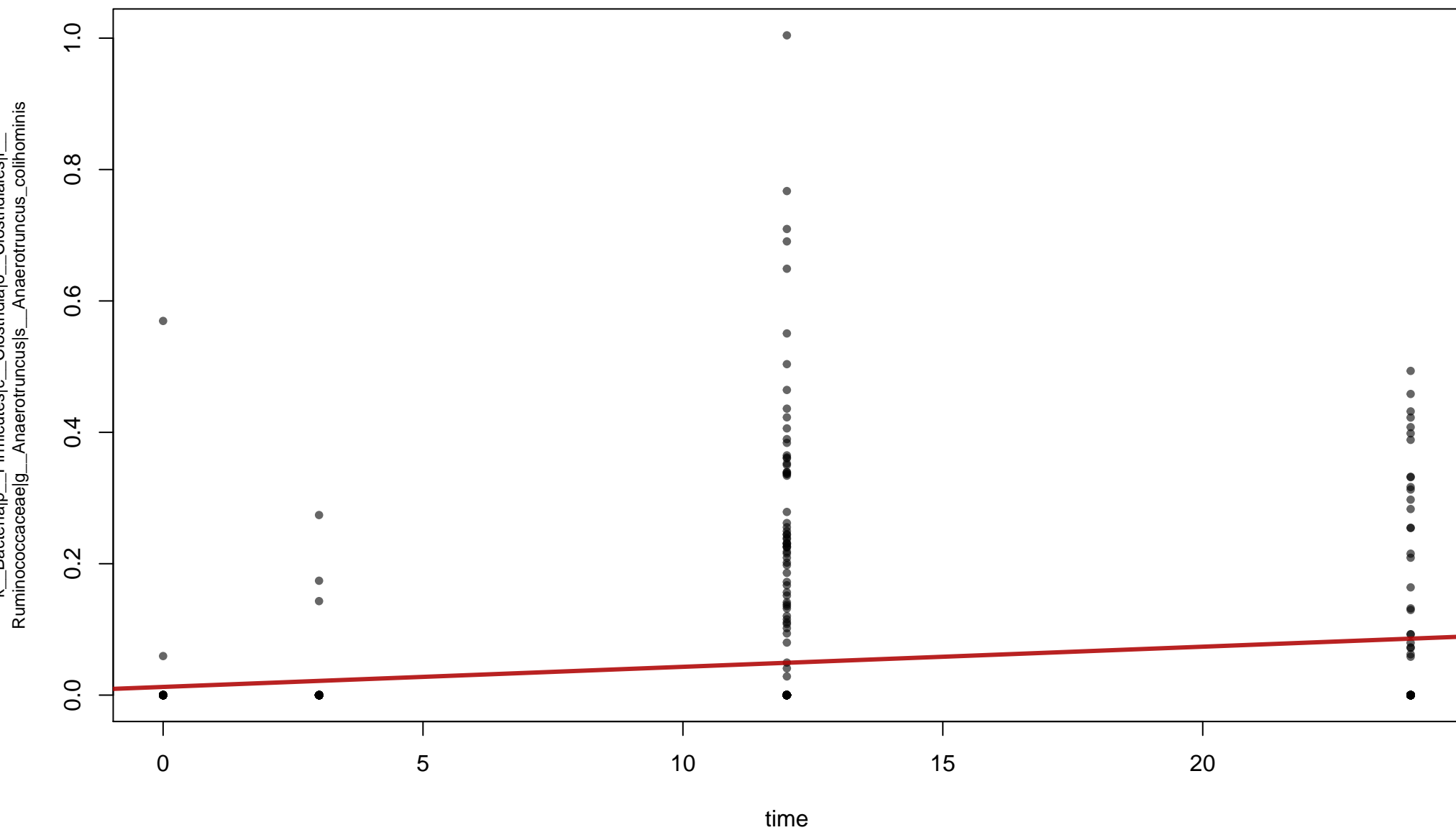
aelg\_\_Sutterella\_s\_\_Sutterella\_wadsworthensis|\_Sutterella\_wadsworthensis\_unclassified



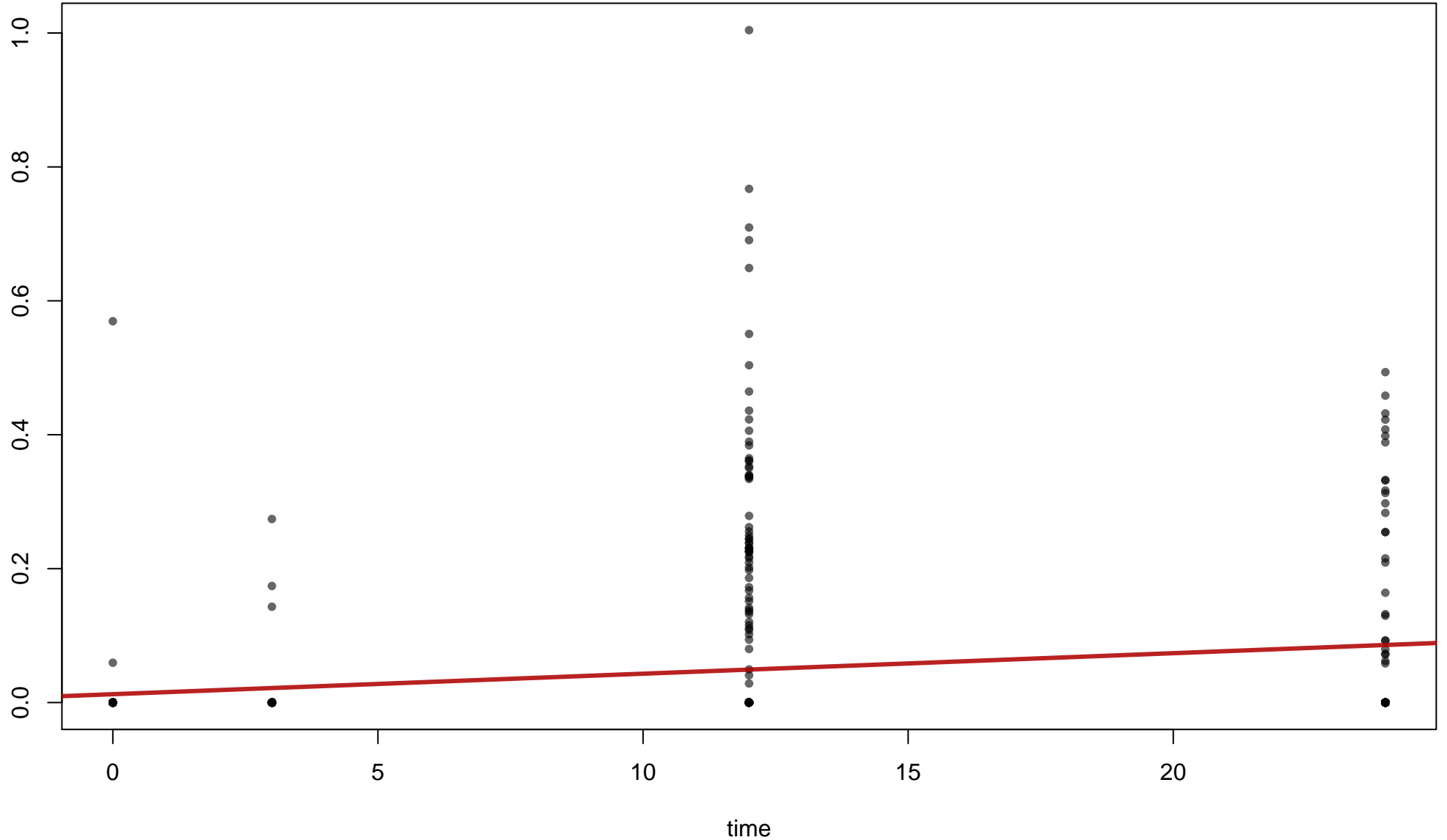
time ( $-0.00257$  sd  $0.000423$ ,  $p=2.18e-09$ ,  $q=3.13e-08$ )



time (0.00306 sd 0.000516, p=4.67e-09, q=6.64e-08)



K\_\_Bacteriophyta\_\_Firmicutes\_\_Clostridia\_\_Clostridiales\_\_Korarchaeo-  
 caceae\_\_Anaerotruncus\_\_Anaerotruncus\_colihominis\_\_GCF\_000154565

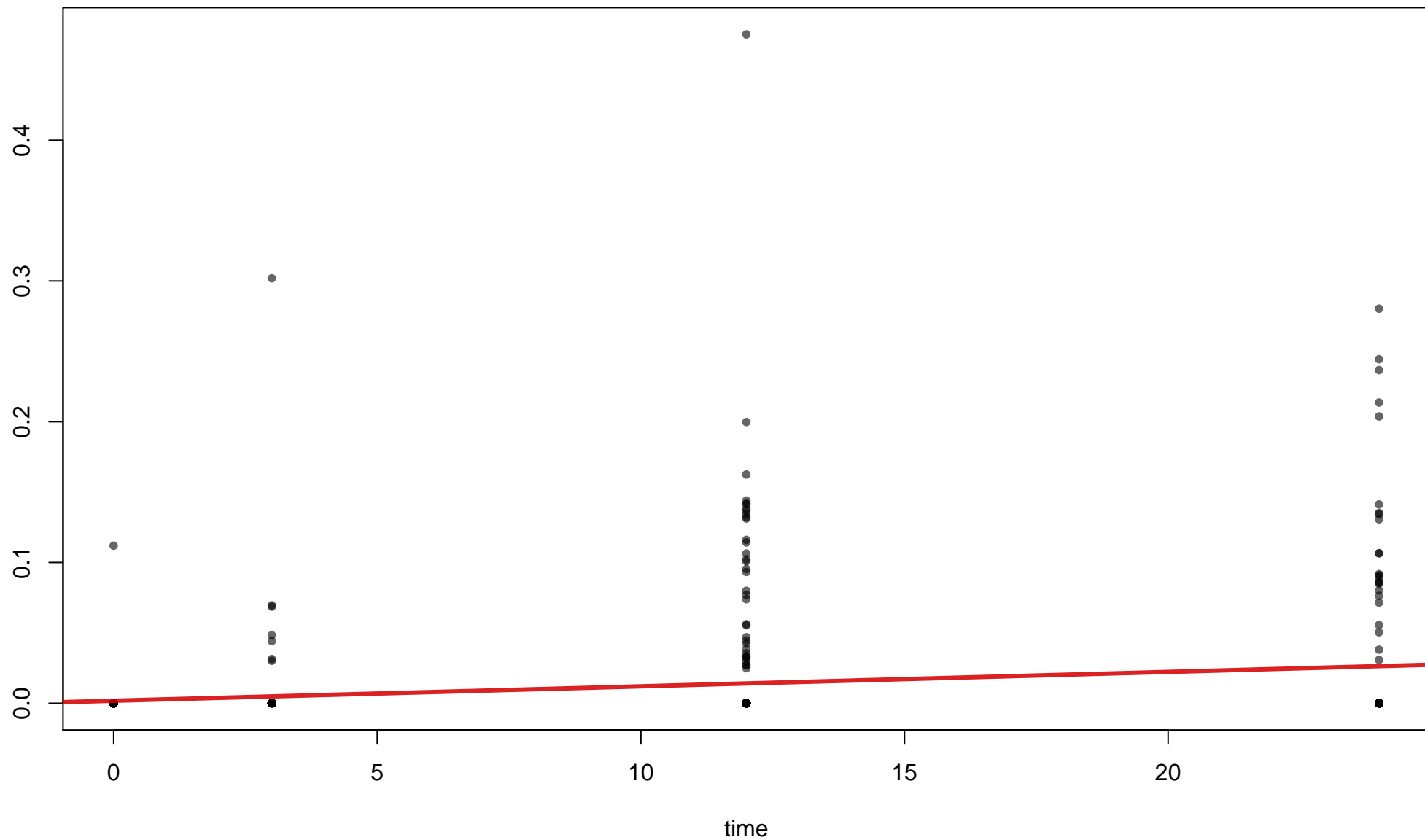




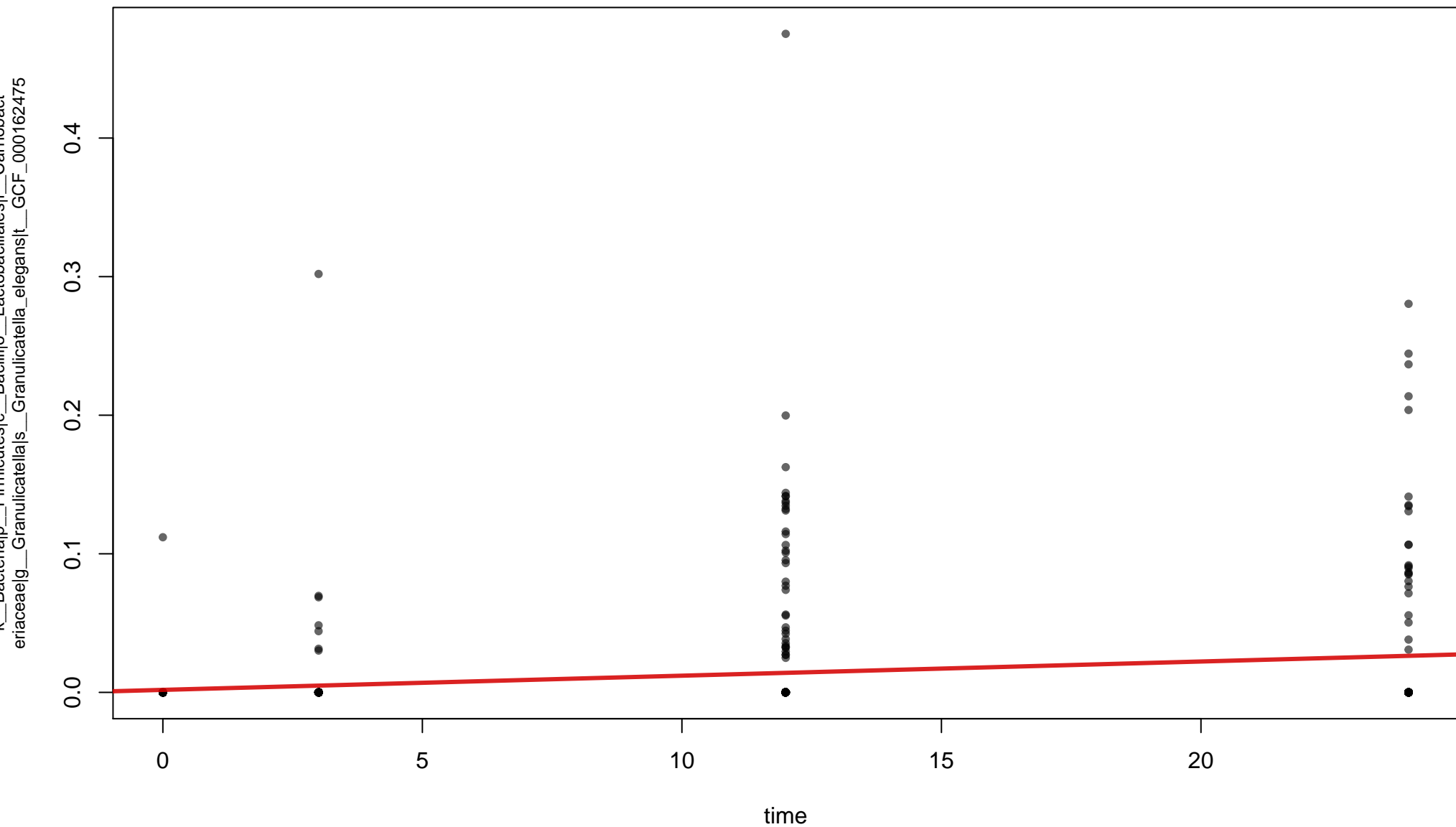


time (0.00103 sd 0.000177, p=9.25e-09, q=1.3e-07)

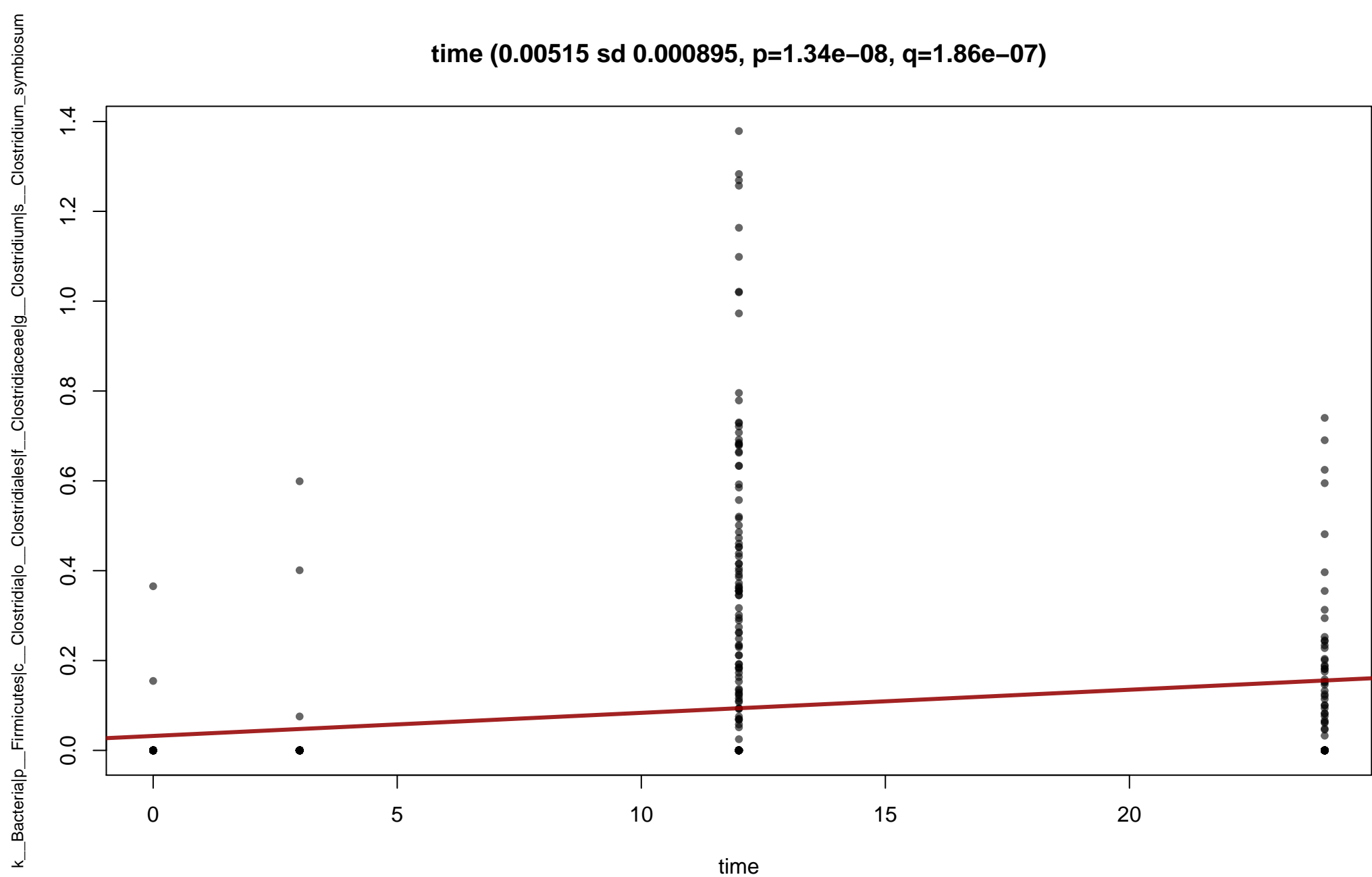
k\_Bacteria|p\_Firmicutes|c\_Bacilli|o\_Lactobacillales|f\_Carnobacteriaceae|g\_Granulicatella|s\_Granulicatella\_elegans



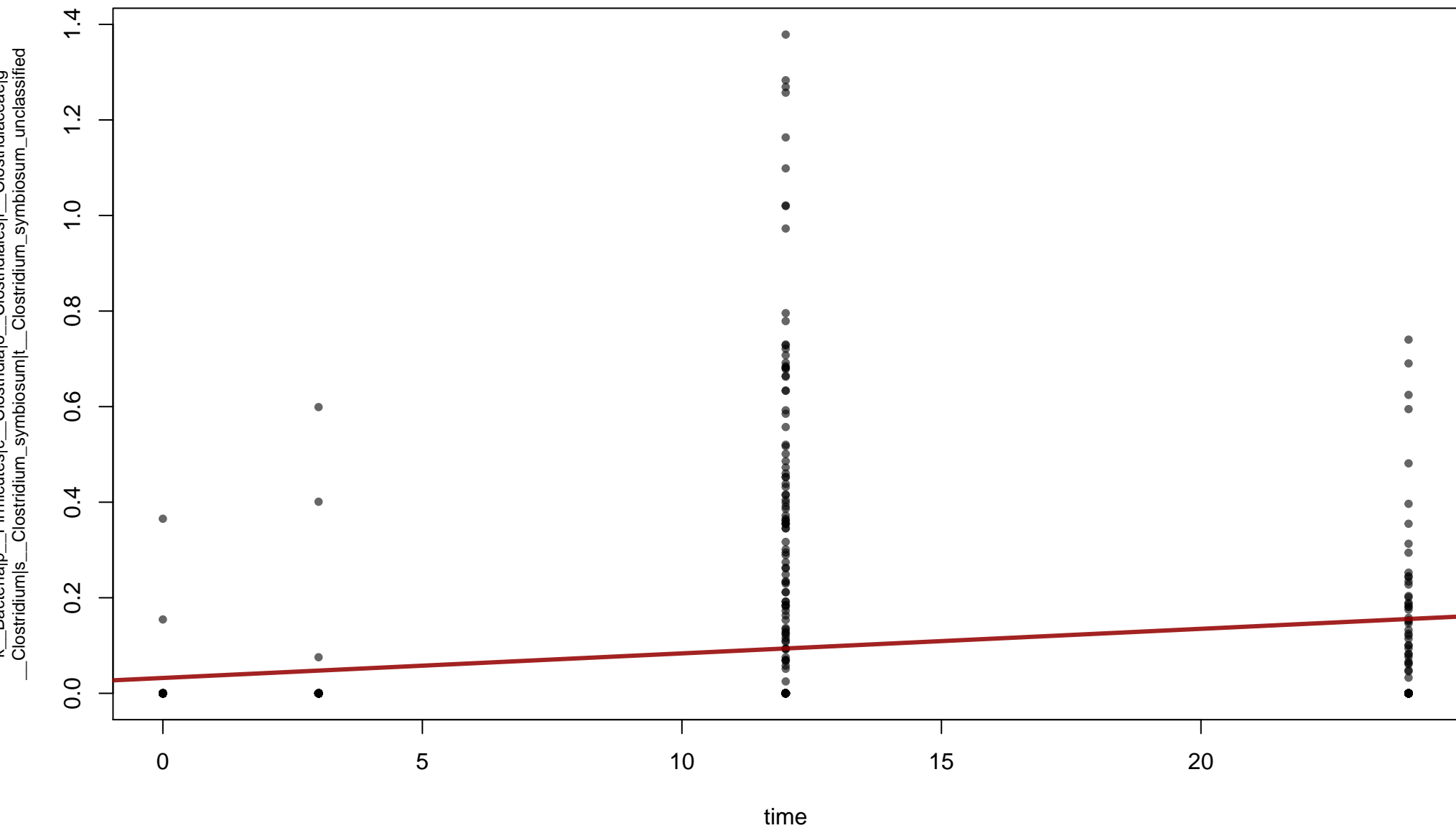
time (0.00103 sd 0.000177, p=9.25e-09, q=1.3e-07)



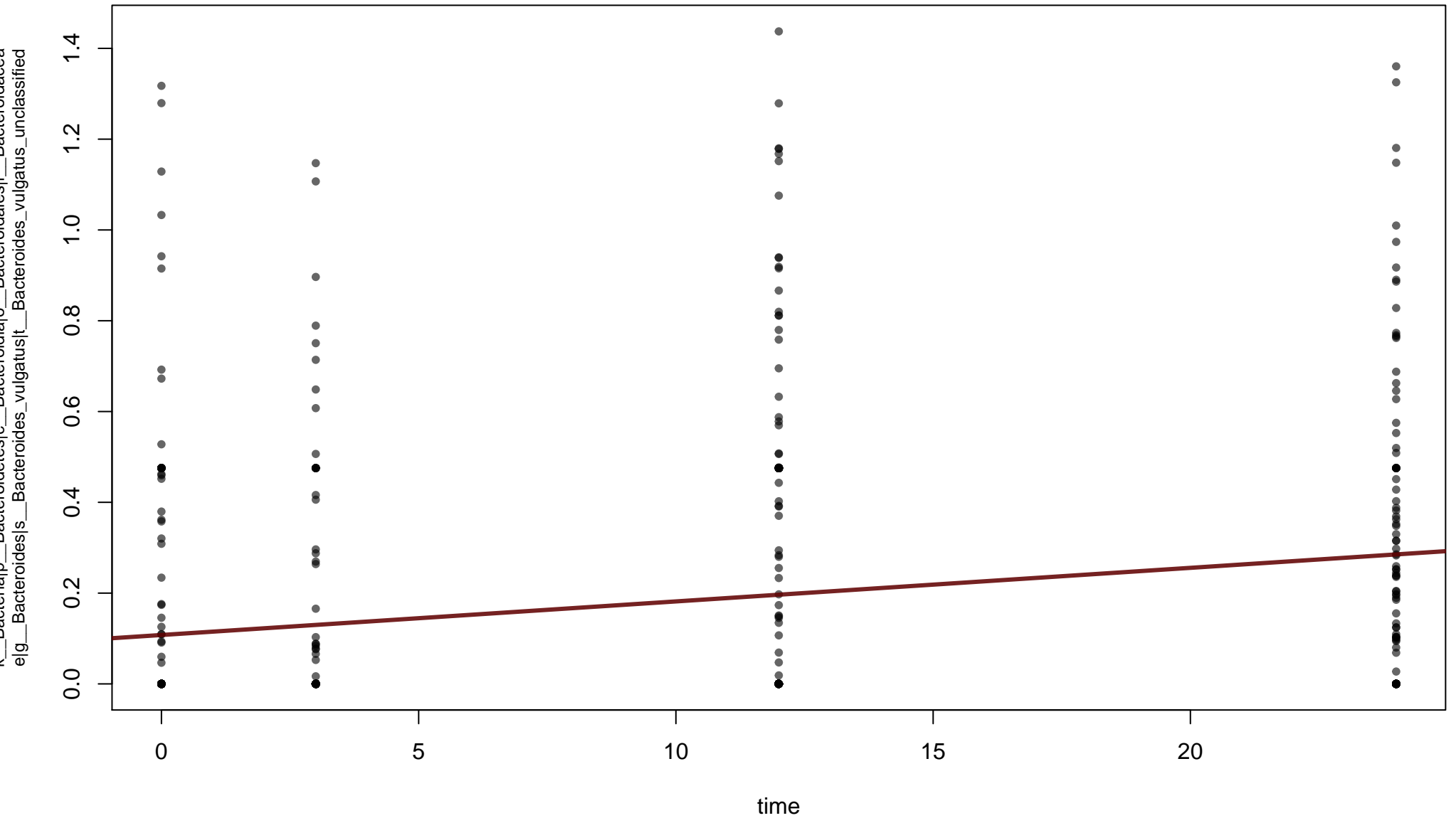
time (0.00515 sd 0.000895, p=1.34e-08, q=1.86e-07)



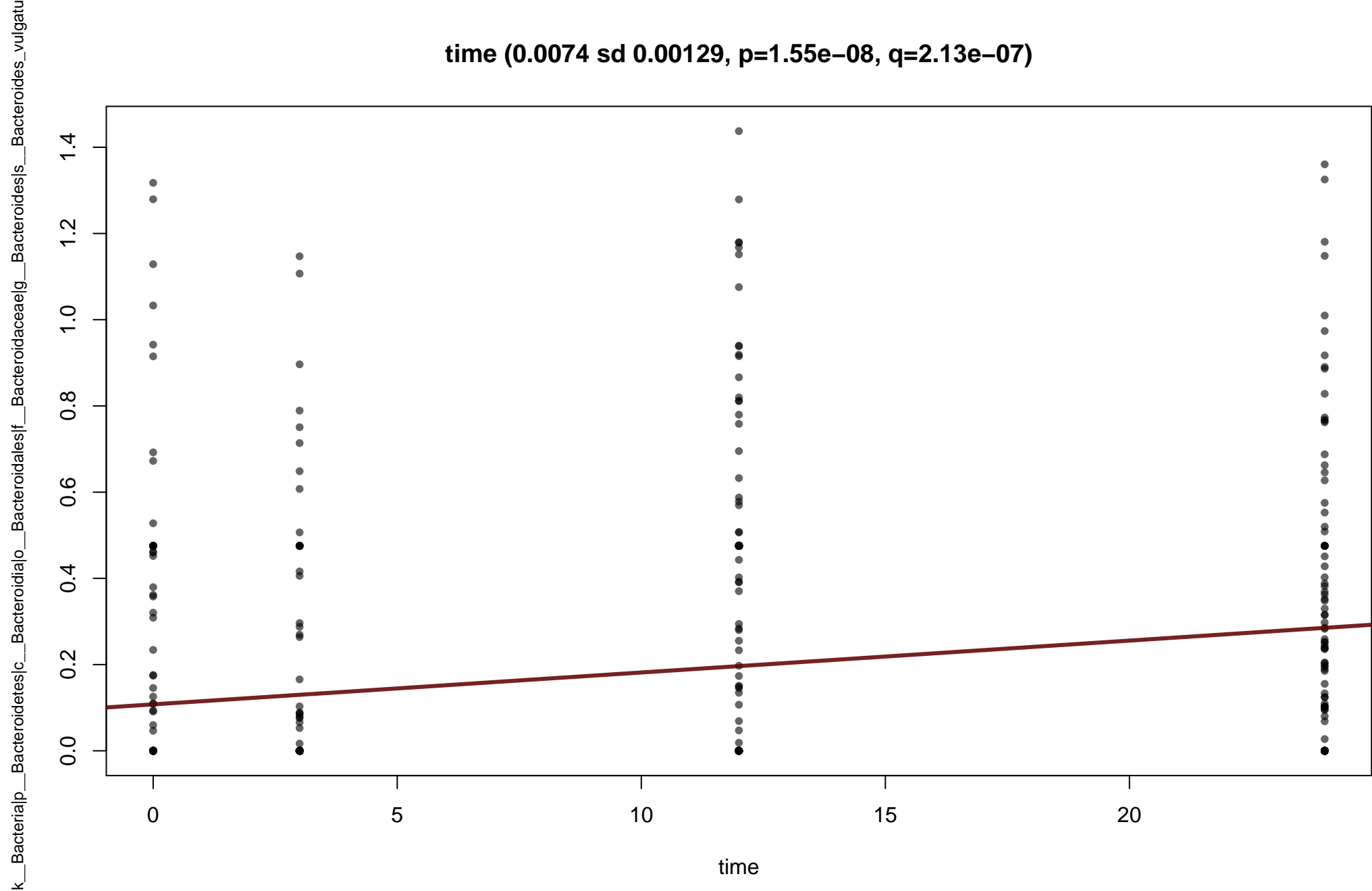
time (0.00515 sd 0.000895, p=1.34e-08, q=1.86e-07)



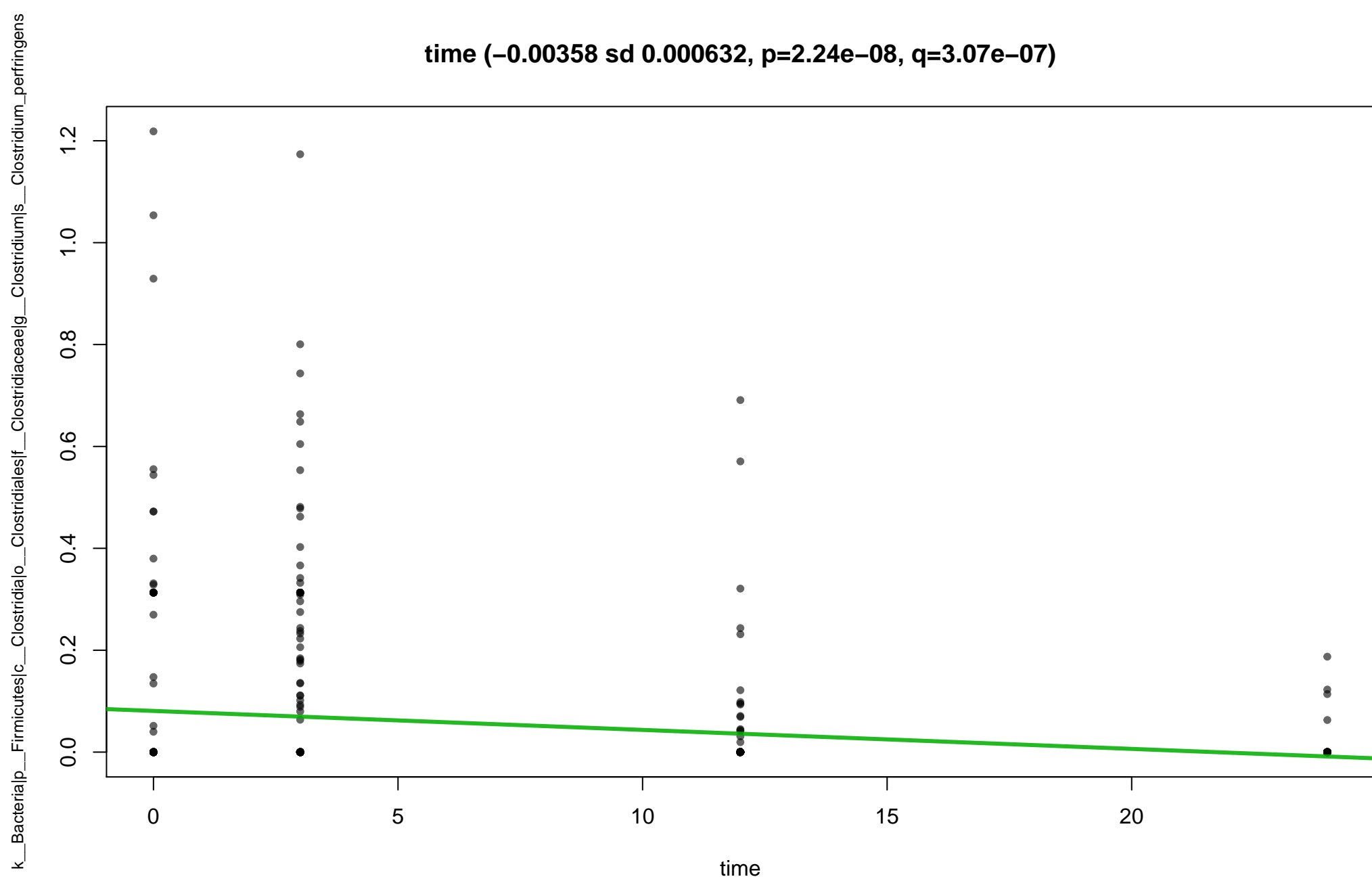
**time (0.00742 sd 0.00129, p=1.46e-08, q=2.02e-07)**



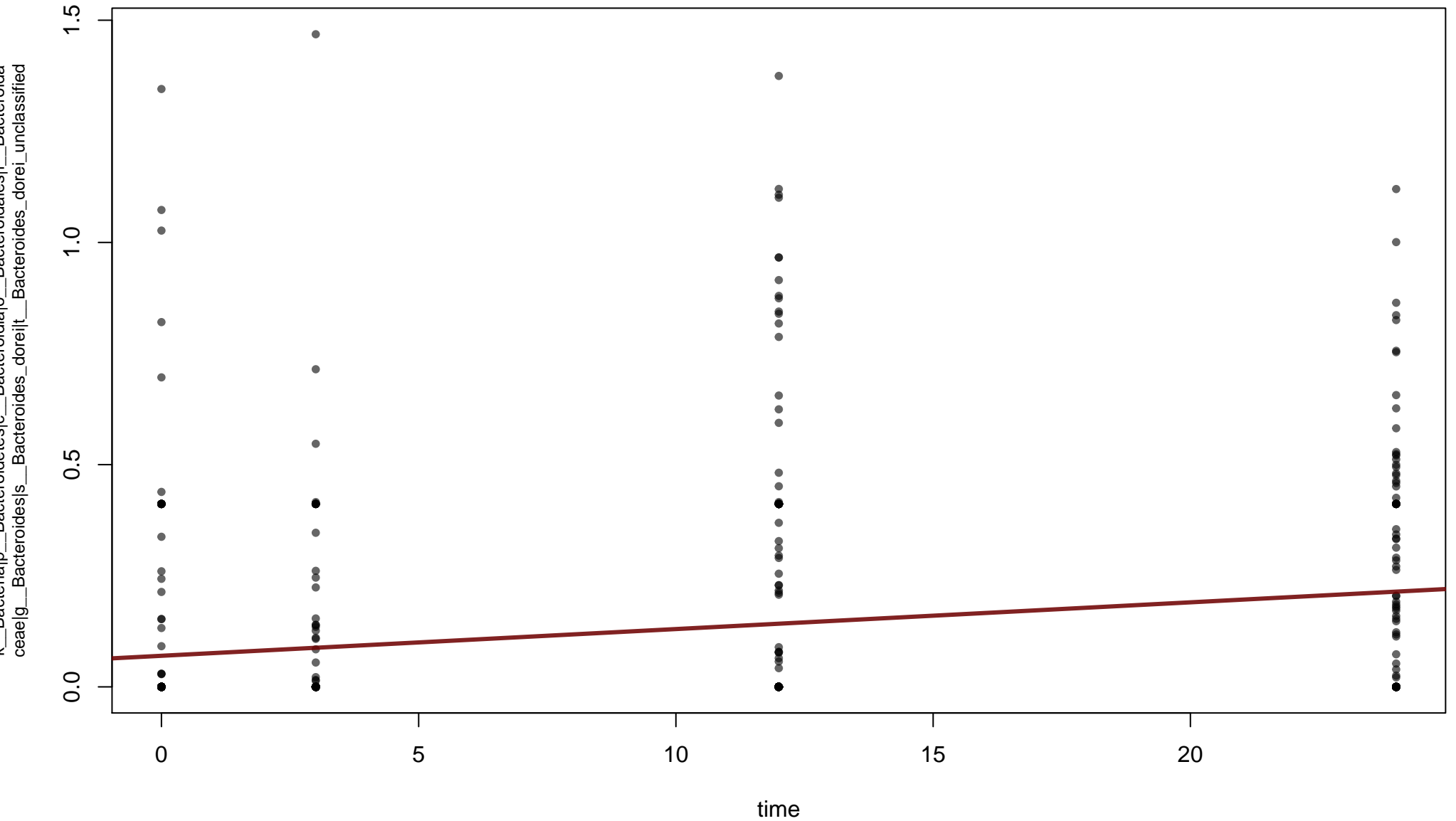
time (0.0074 sd 0.00129, p=1.55e-08, q=2.13e-07)



time ( $-0.00358$  sd  $0.000632$ ,  $p=2.24e-08$ ,  $q=3.07e-07$ )

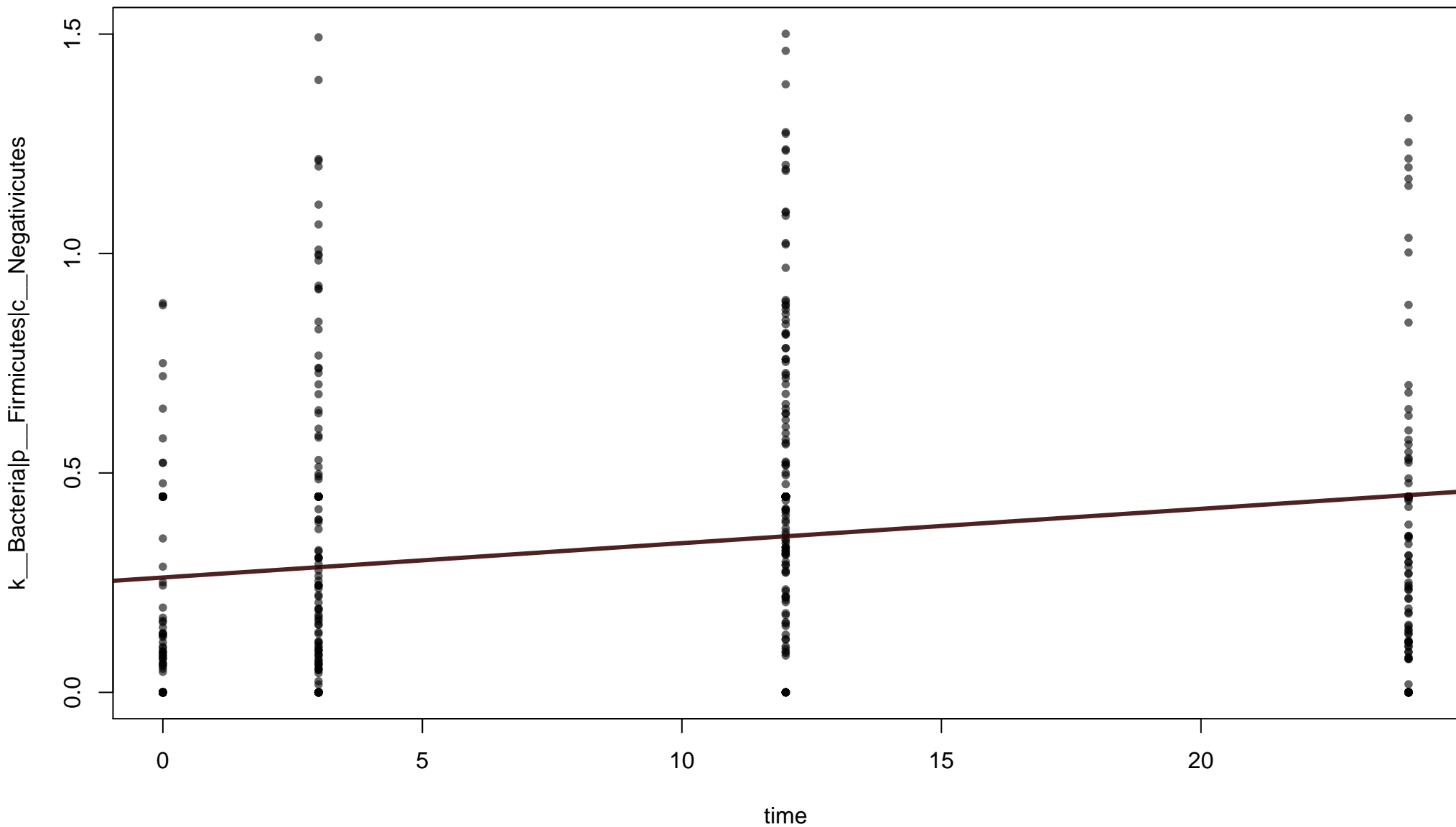


**time (0.00602 sd 0.00107, p=2.43e-08, q=3.32e-07)**

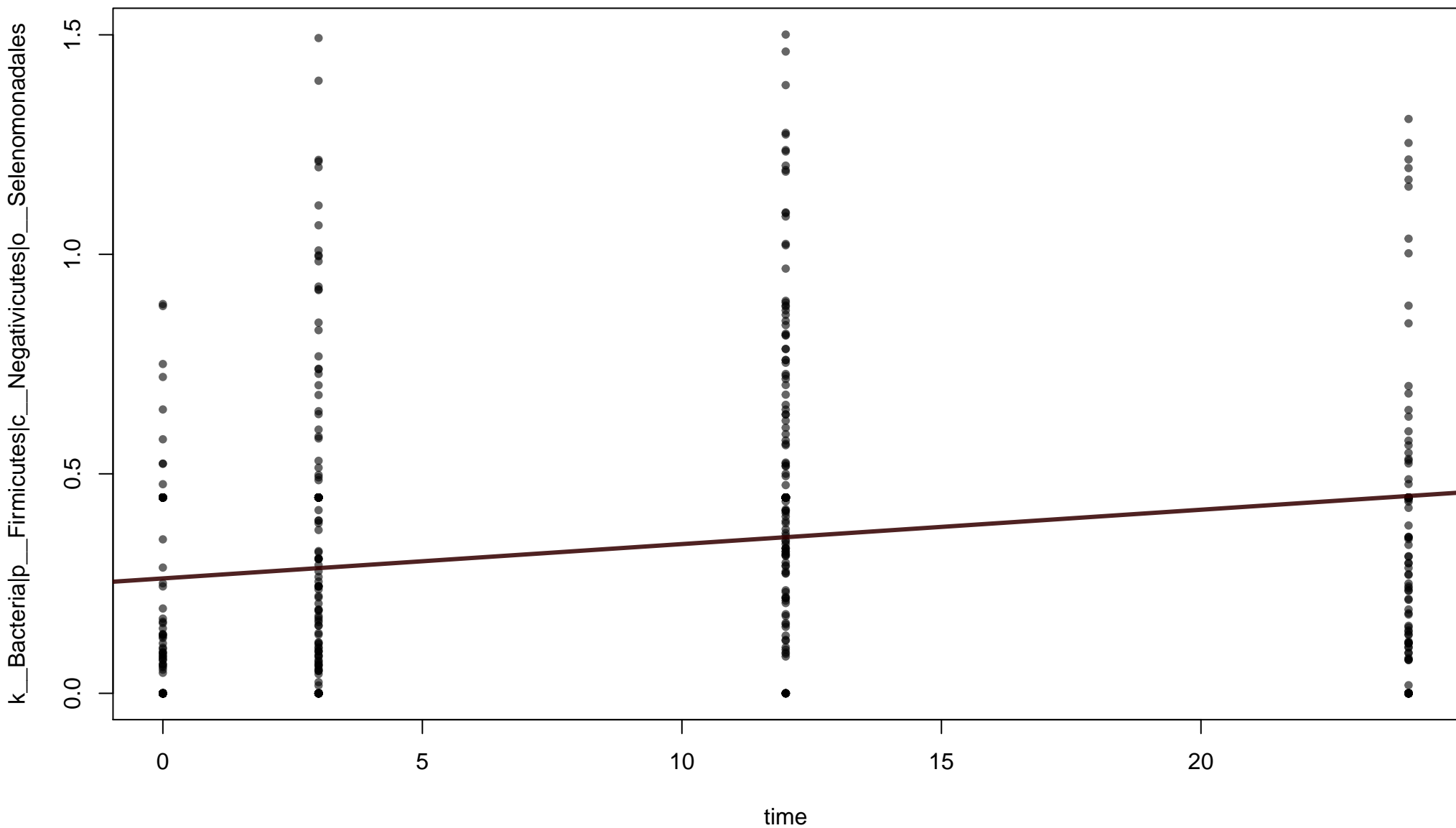




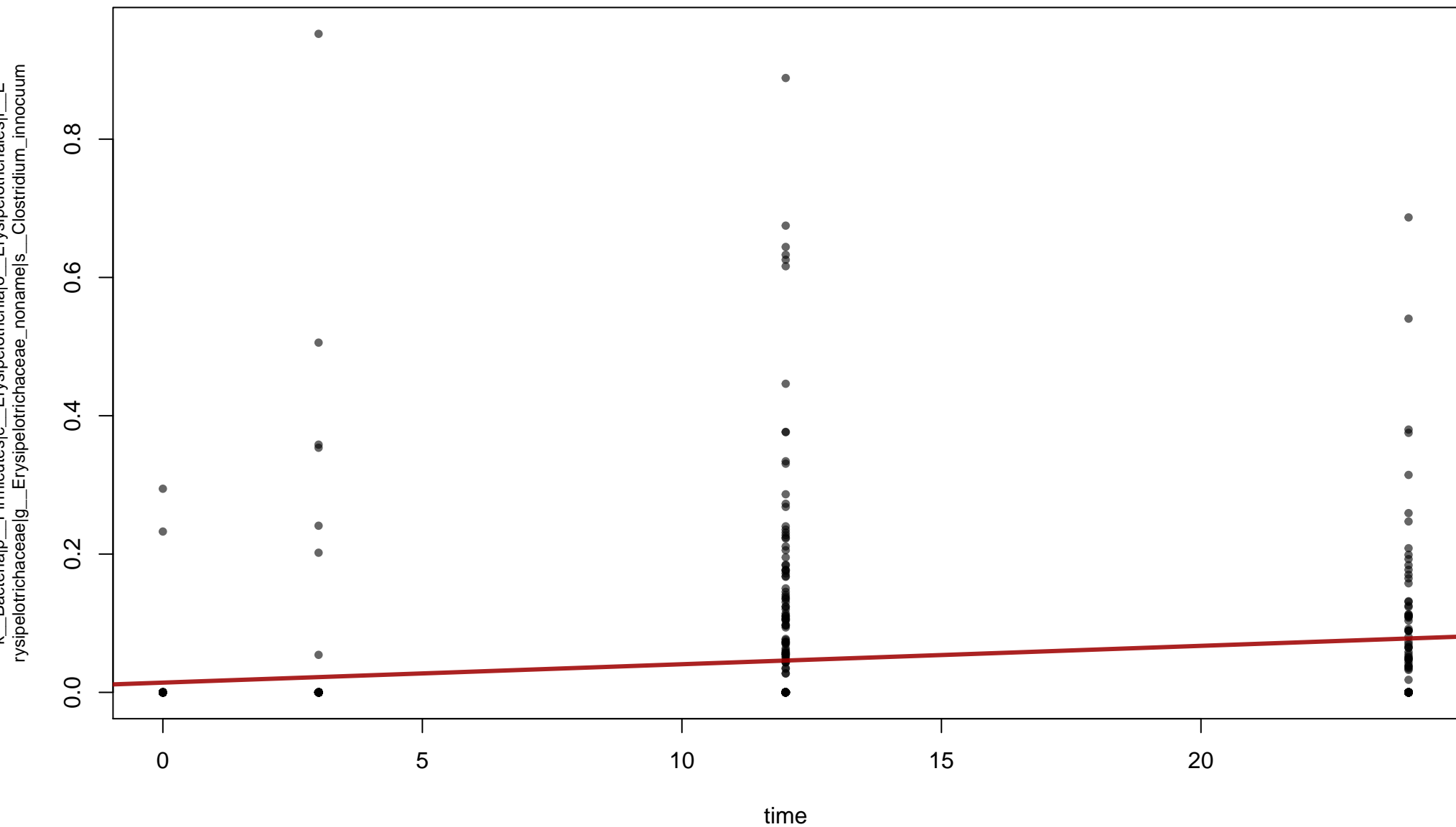
time (0.00778 sd 0.00138, p=2.65e-08, q=3.59e-07)



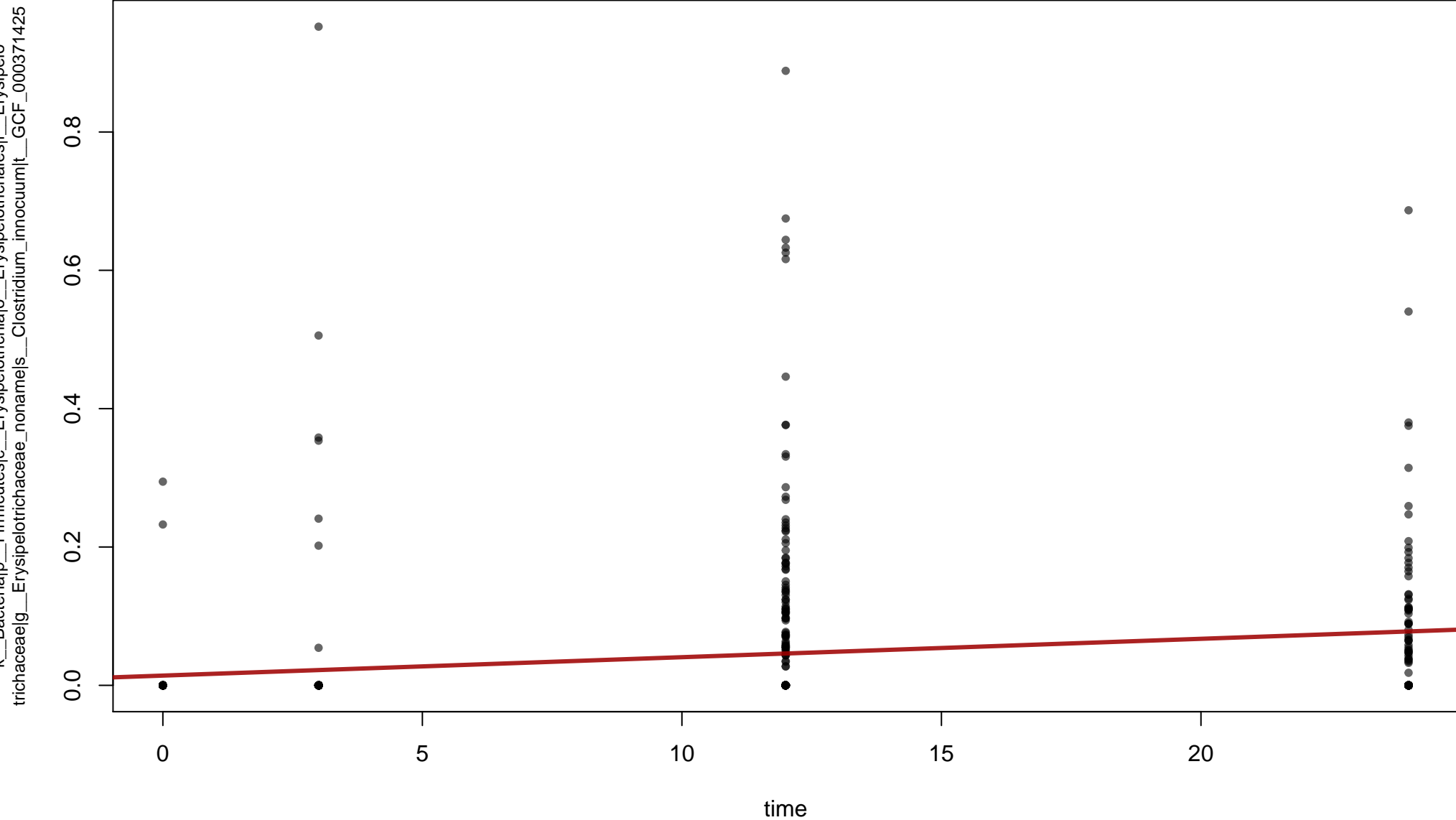
time (0.00778 sd 0.00138, p=2.65e-08, q=3.59e-07)



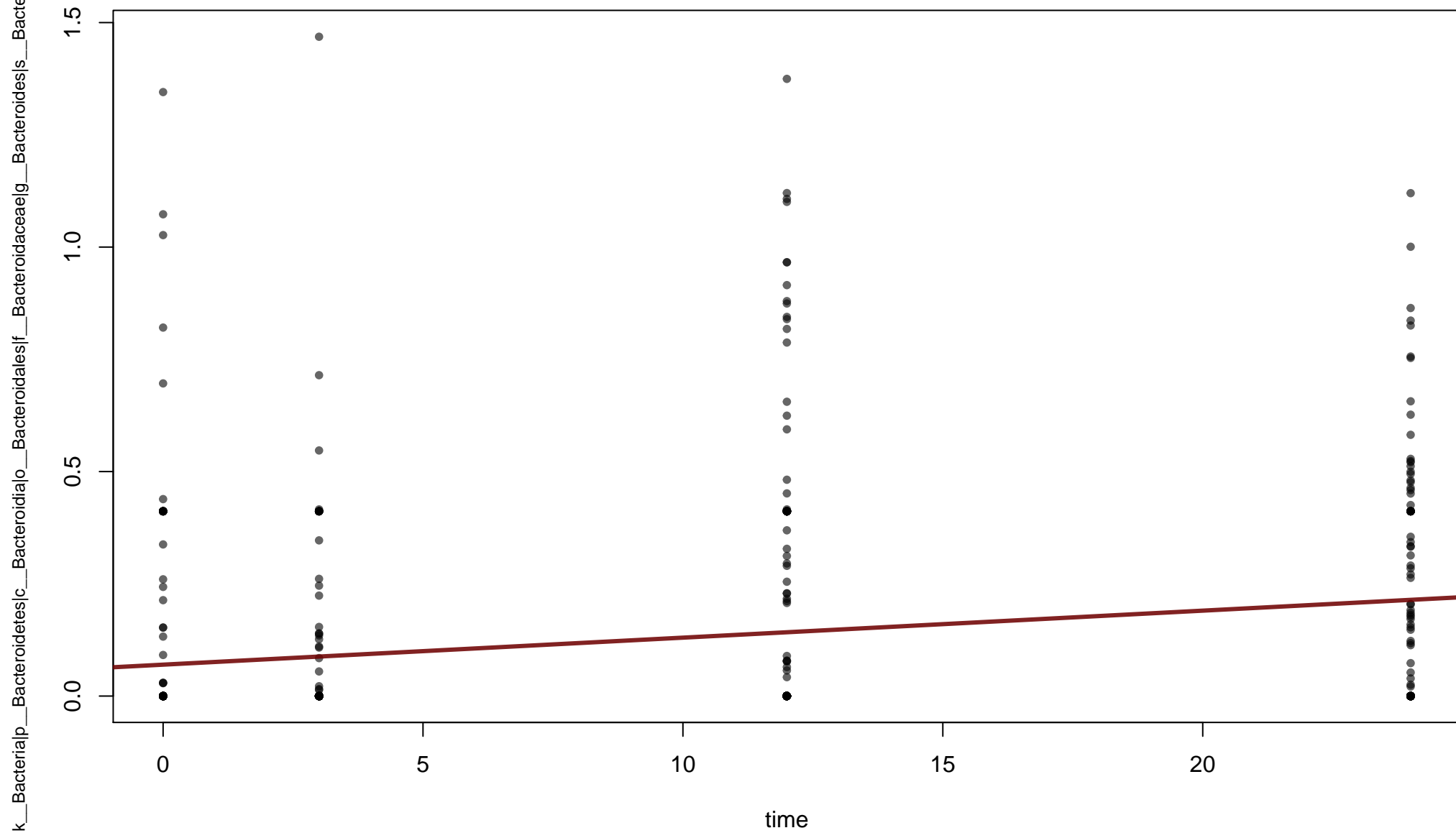
time (0.00266 sd 0.000474, p=2.97e-08, q=3.98e-07)



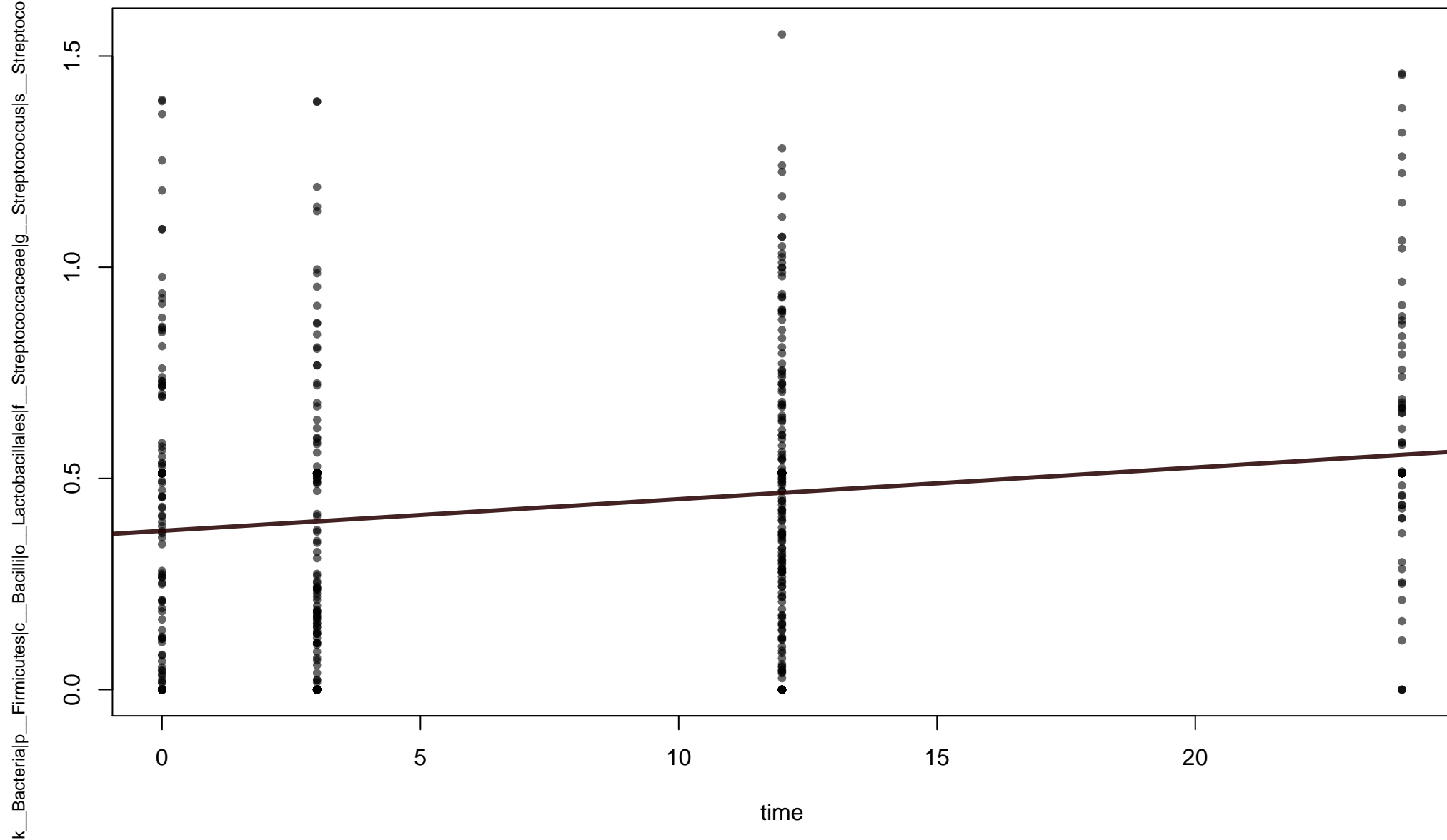
time (0.00266 sd 0.000474, p=2.97e-08, q=3.98e-07)



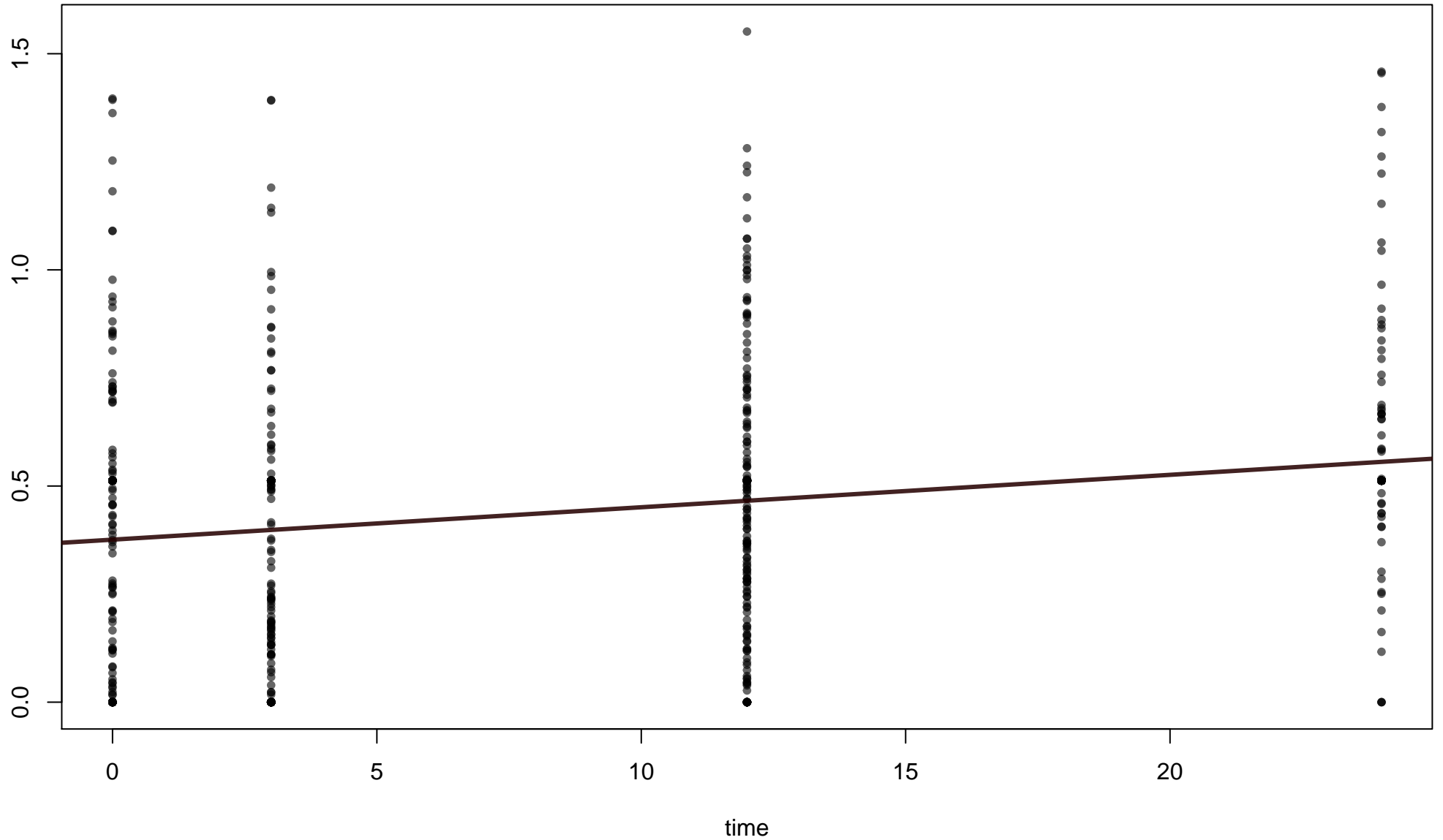
time (0.00588 sd 0.00107, p=4.89e-08, q=6.54e-07)



time (0.00752 sd 0.00138, p=7.07e-08, q=9.36e-07)

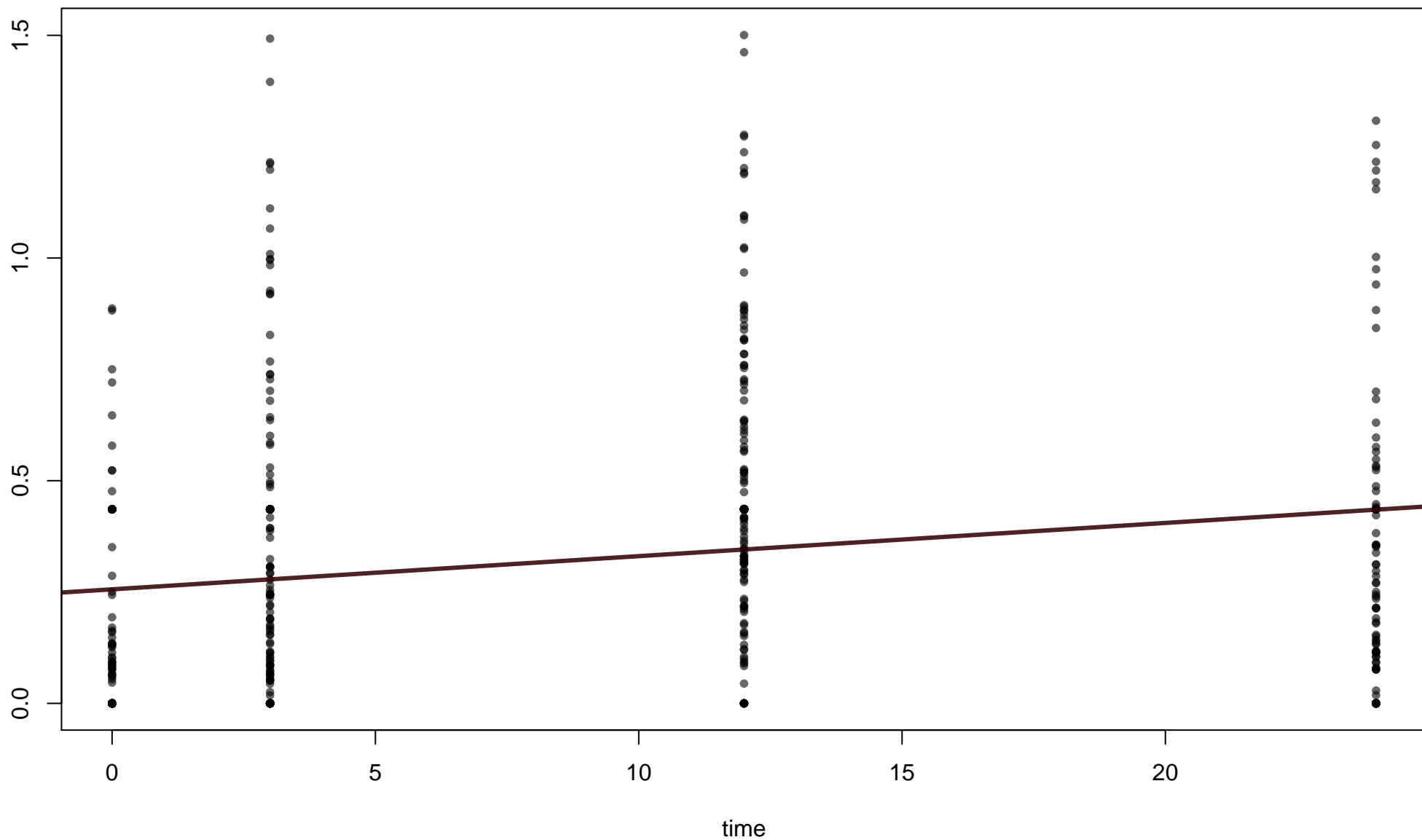


treptococcus|s\_\_Streptococcus\_salivariust\_\_Streptococcus\_salivarius\_unclassified



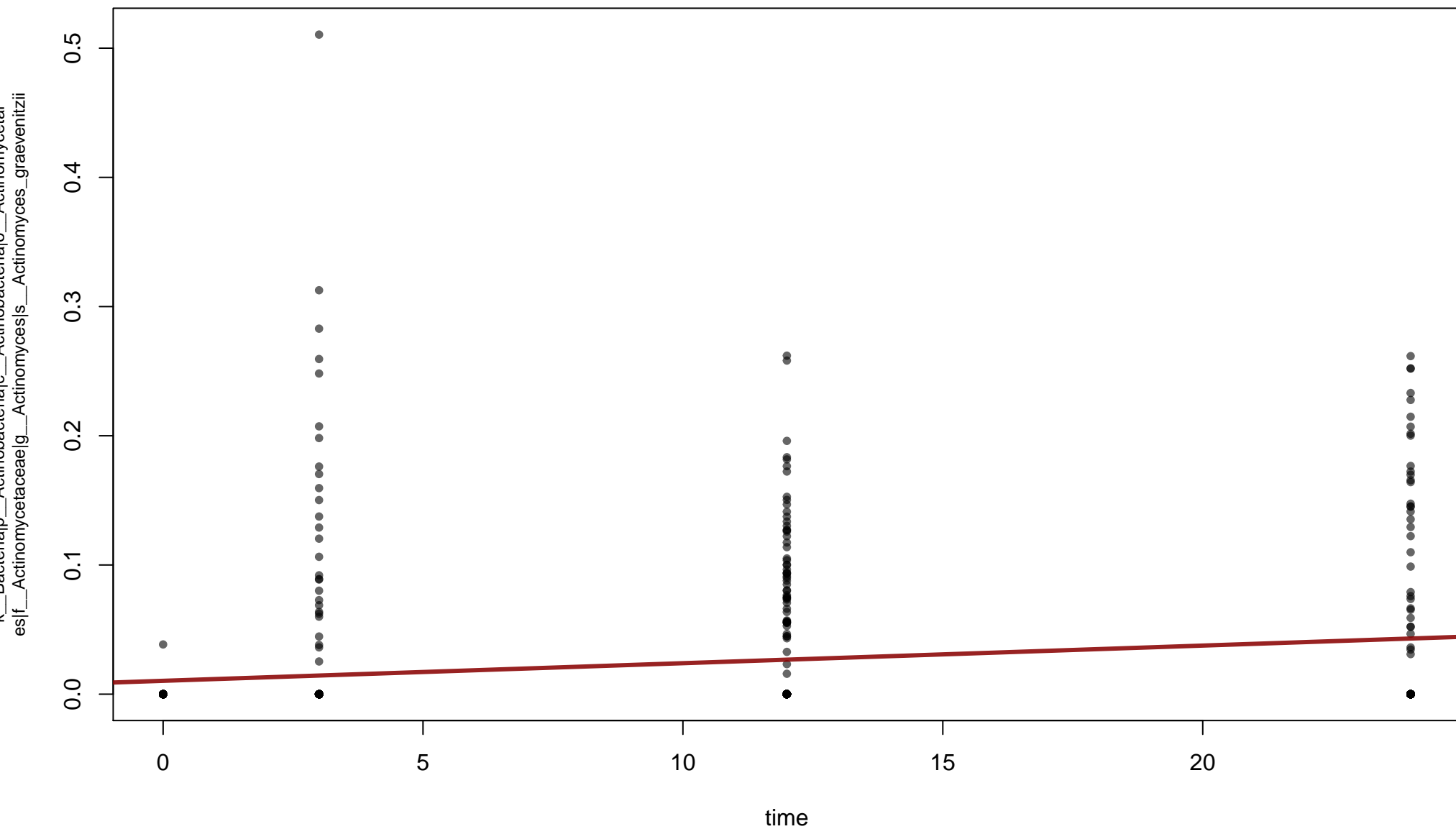
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Negativicutes|o\_\_Selenomonadales|f\_\_Veillonellaceae

time (0.00741 sd 0.00136, p=7.28e-08, q=9.61e-07)

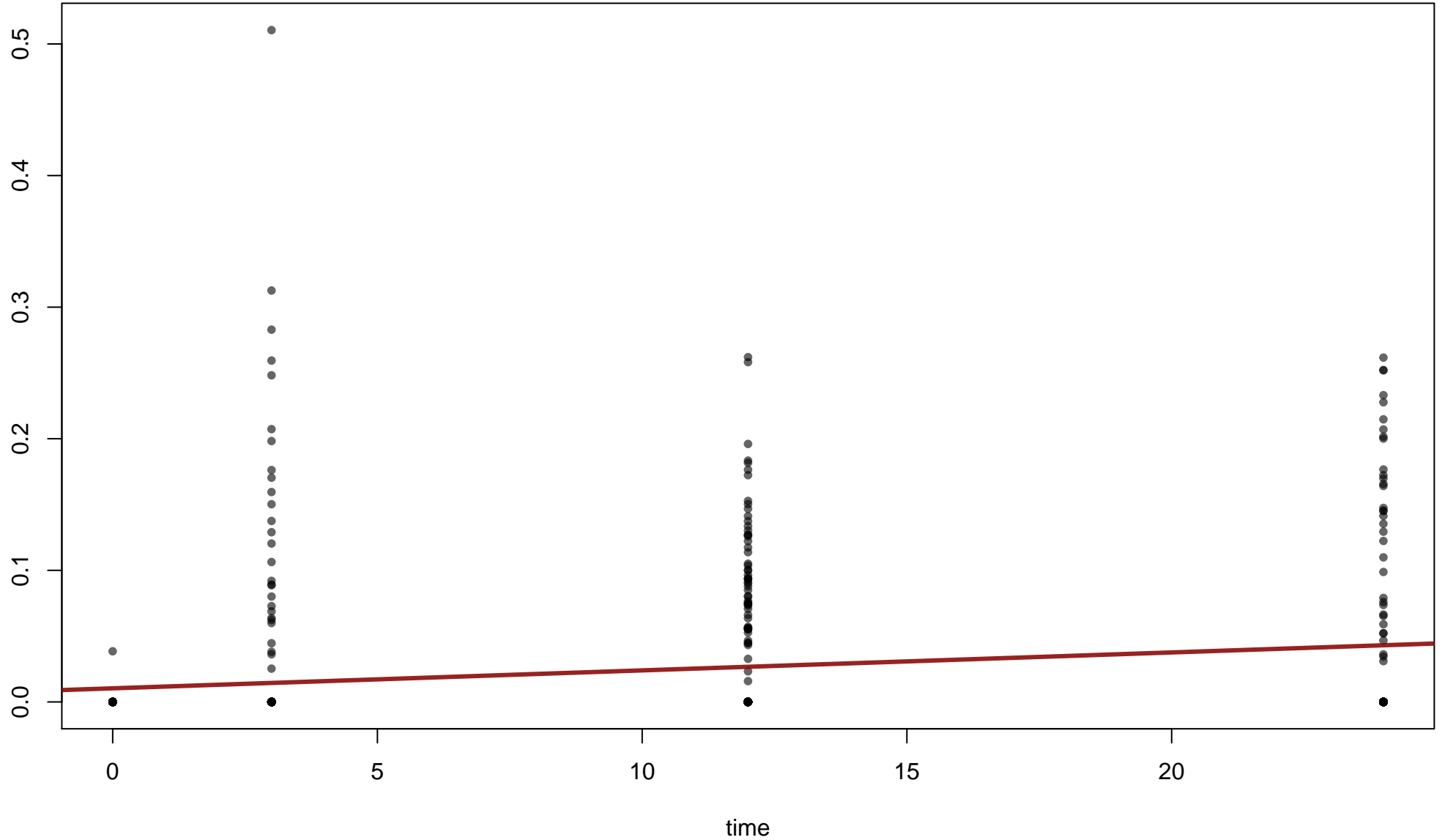




time (0.00137 sd 0.000252, p=8.05e-08, q=1.05e-06)

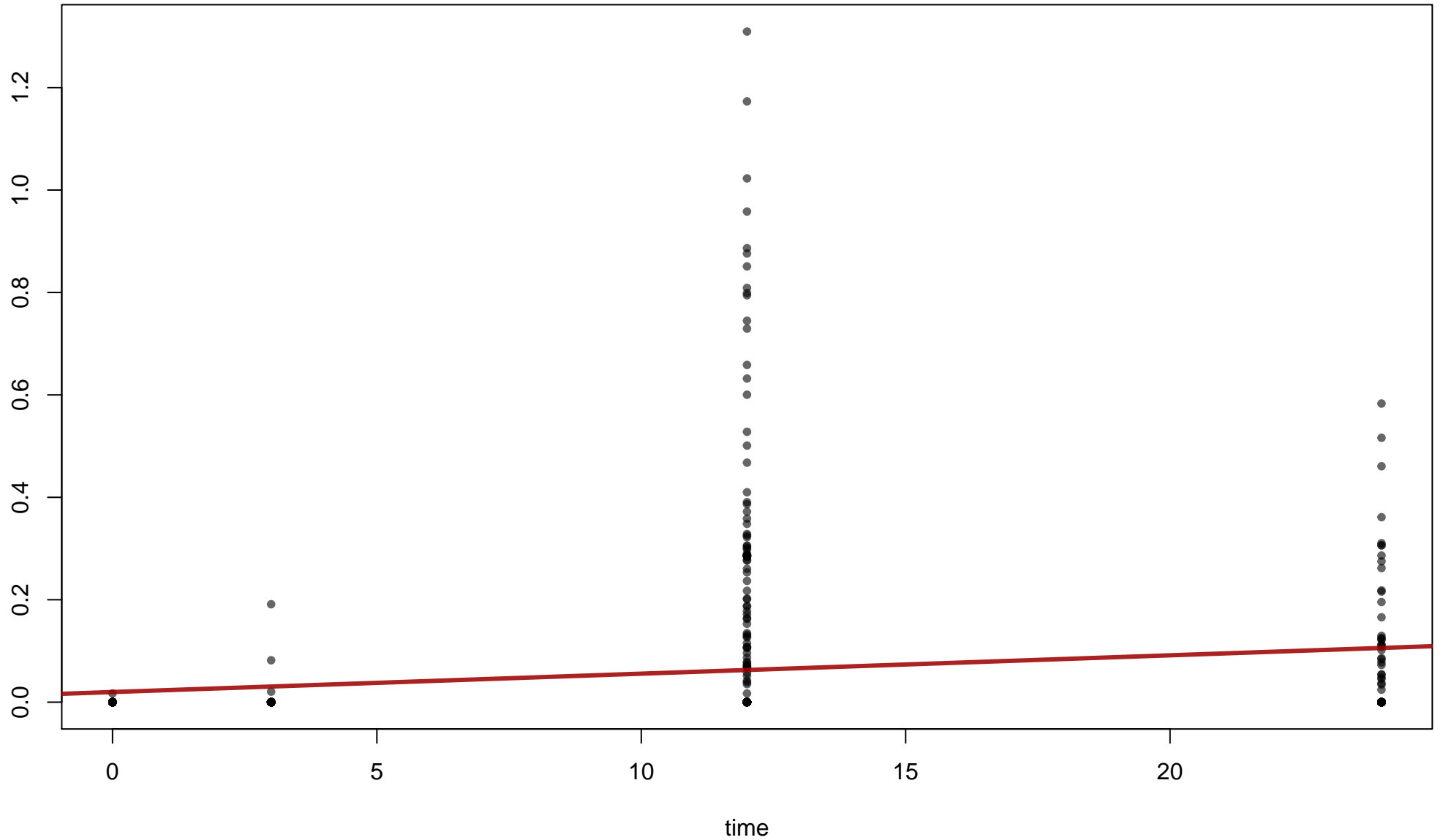


elg\_Actinomycetes|s\_Actinomycetes\_graevenitziit\_Actinomycetes\_graevenitzi|\_unclassified

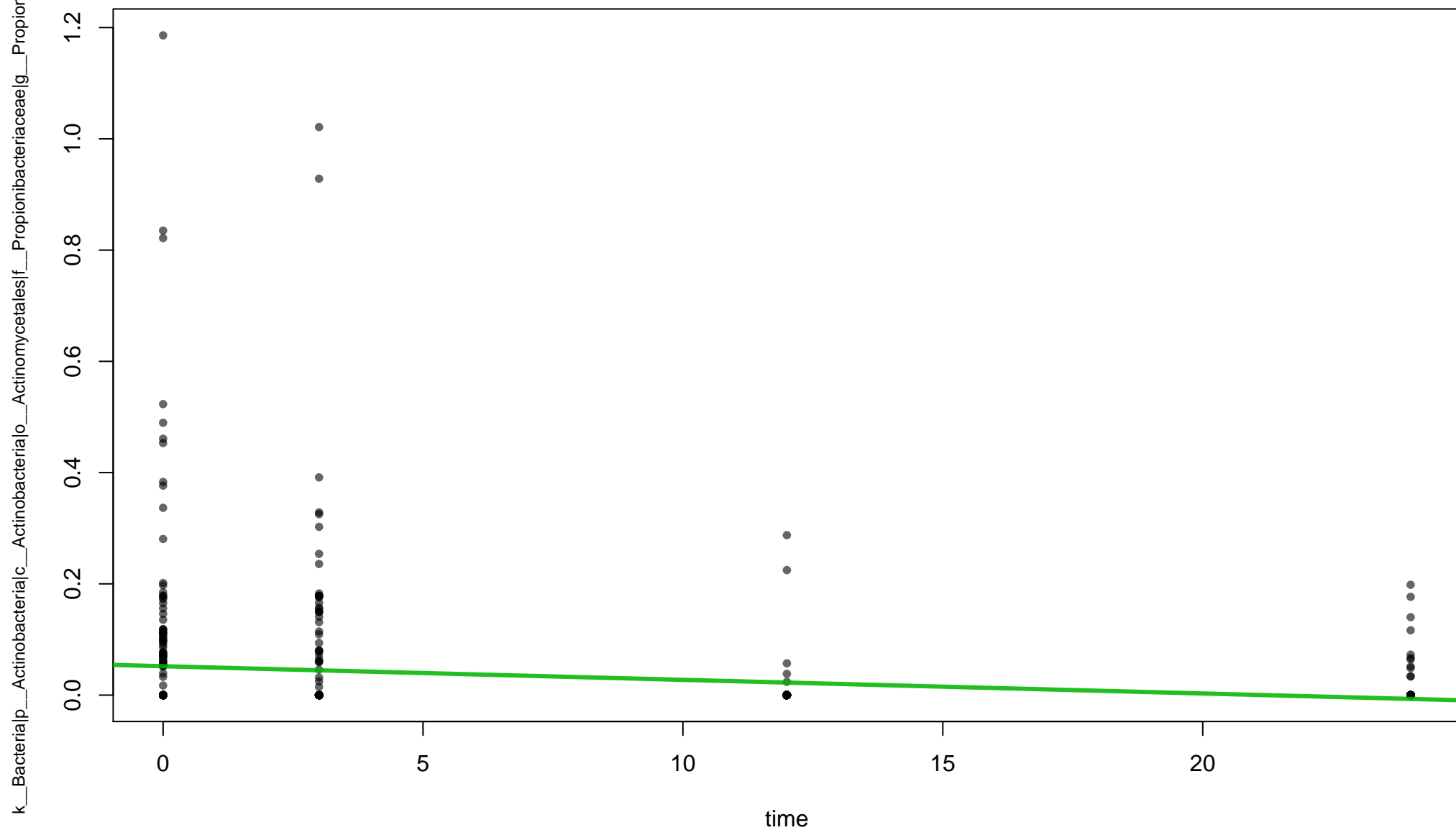




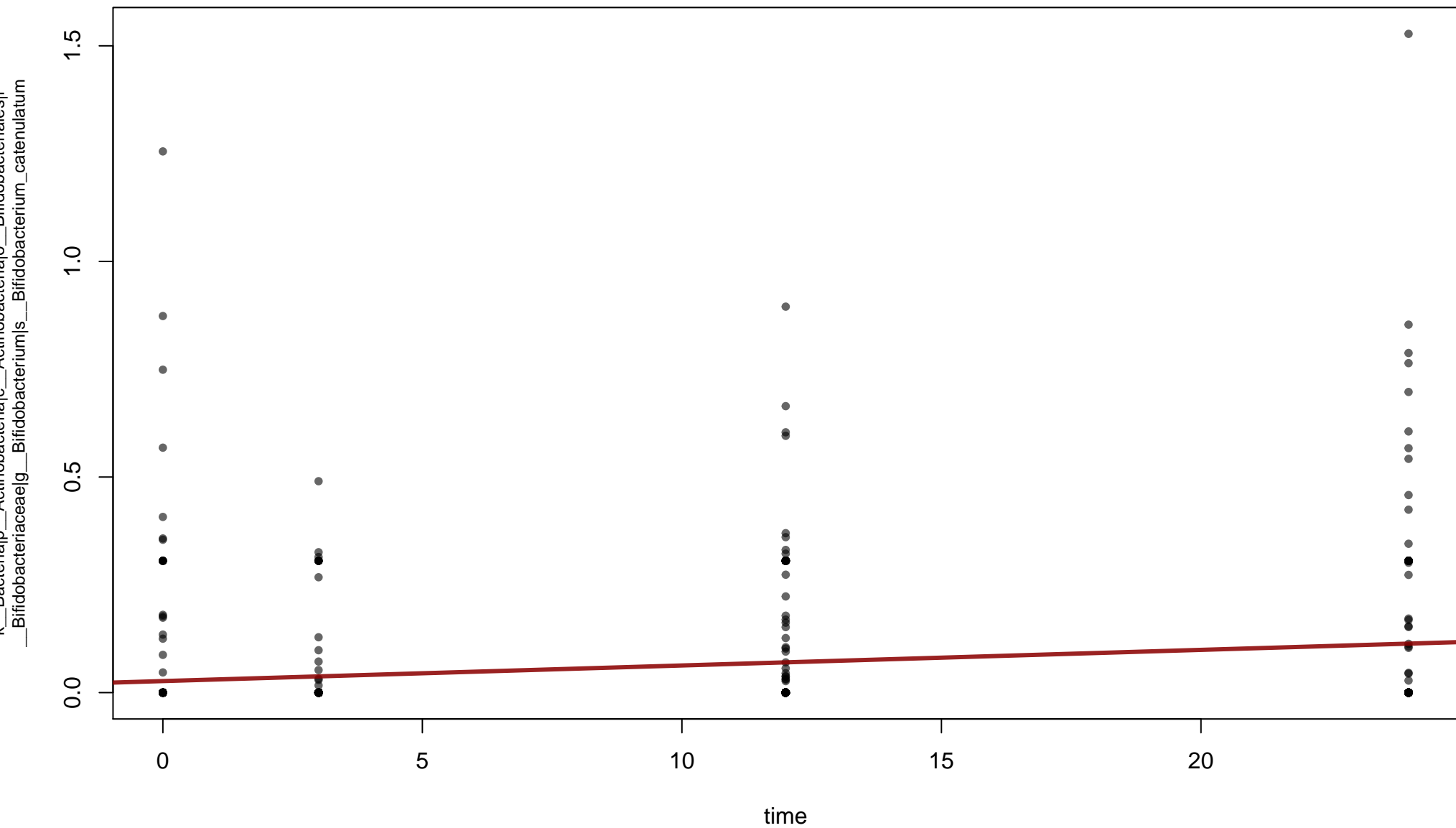
\_\_Bacterial\_\_ \_\_Firmicutes\_\_ \_\_Clostridia\_\_ \_\_Clostridiales\_\_ \_\_Lachnospiraceae\_\_ \_\_Anaerostipes\_\_ \_\_Anaerostipes\_caccae\_\_ \_\_GCF\_000154305



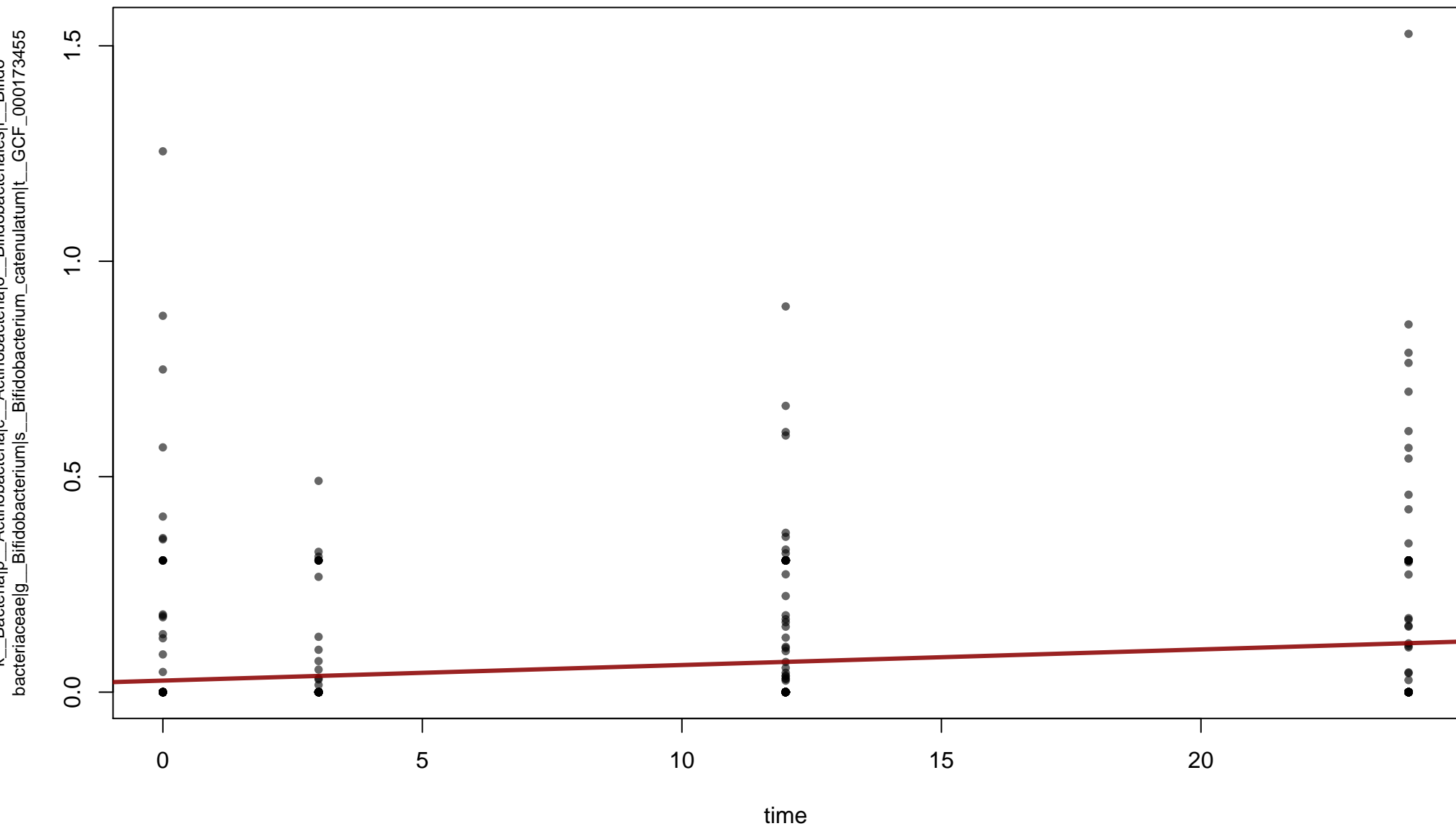
time ( $-0.00246$  sd  $0.000475$ ,  $p=3.09e-07$ ,  $q=4e-06$ )



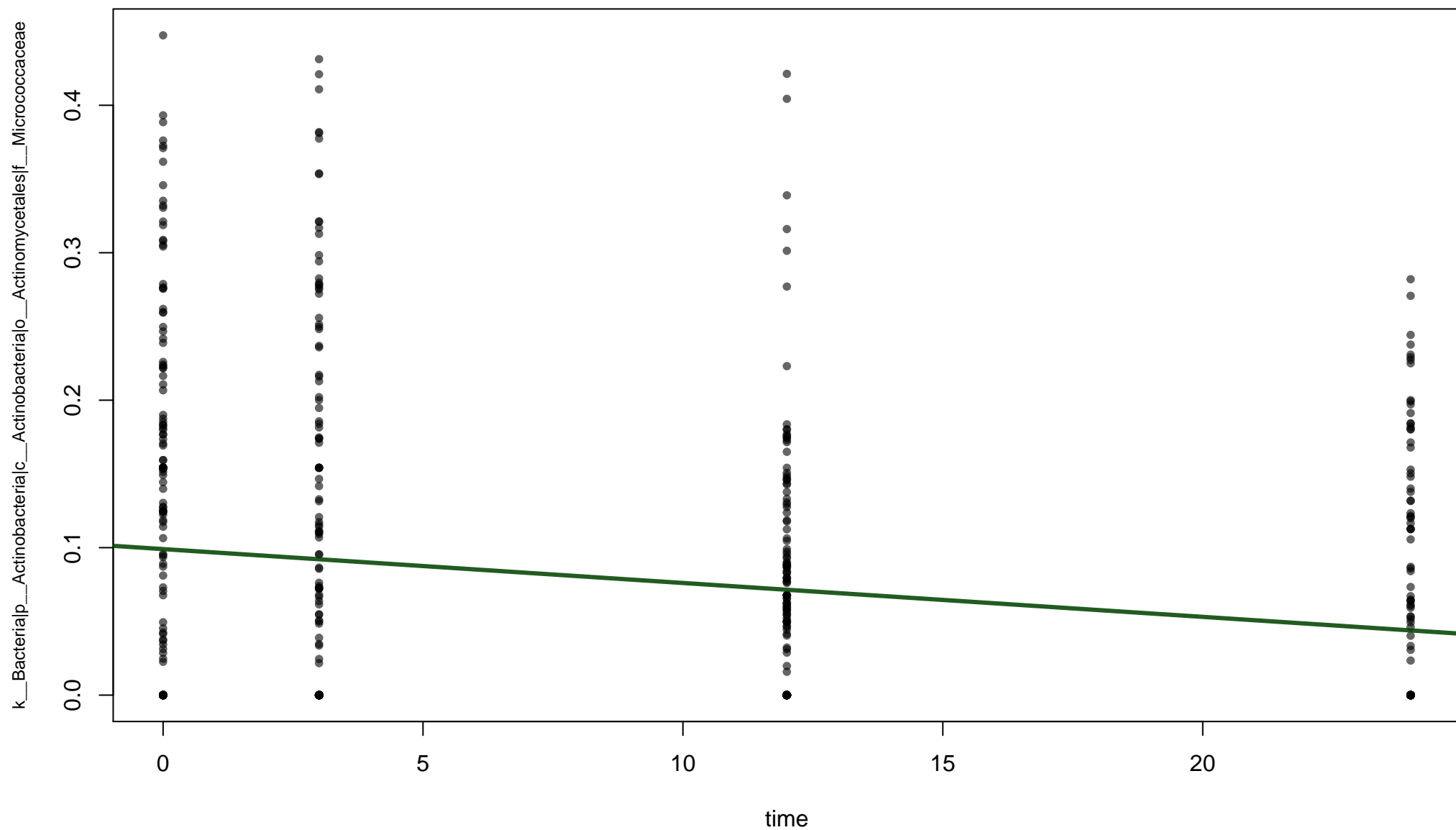
time (0.00361 sd 0.000701, p=3.43e-07, q=4.4e-06)



time (0.00361 sd 0.000701, p=3.43e-07, q=4.4e-06)

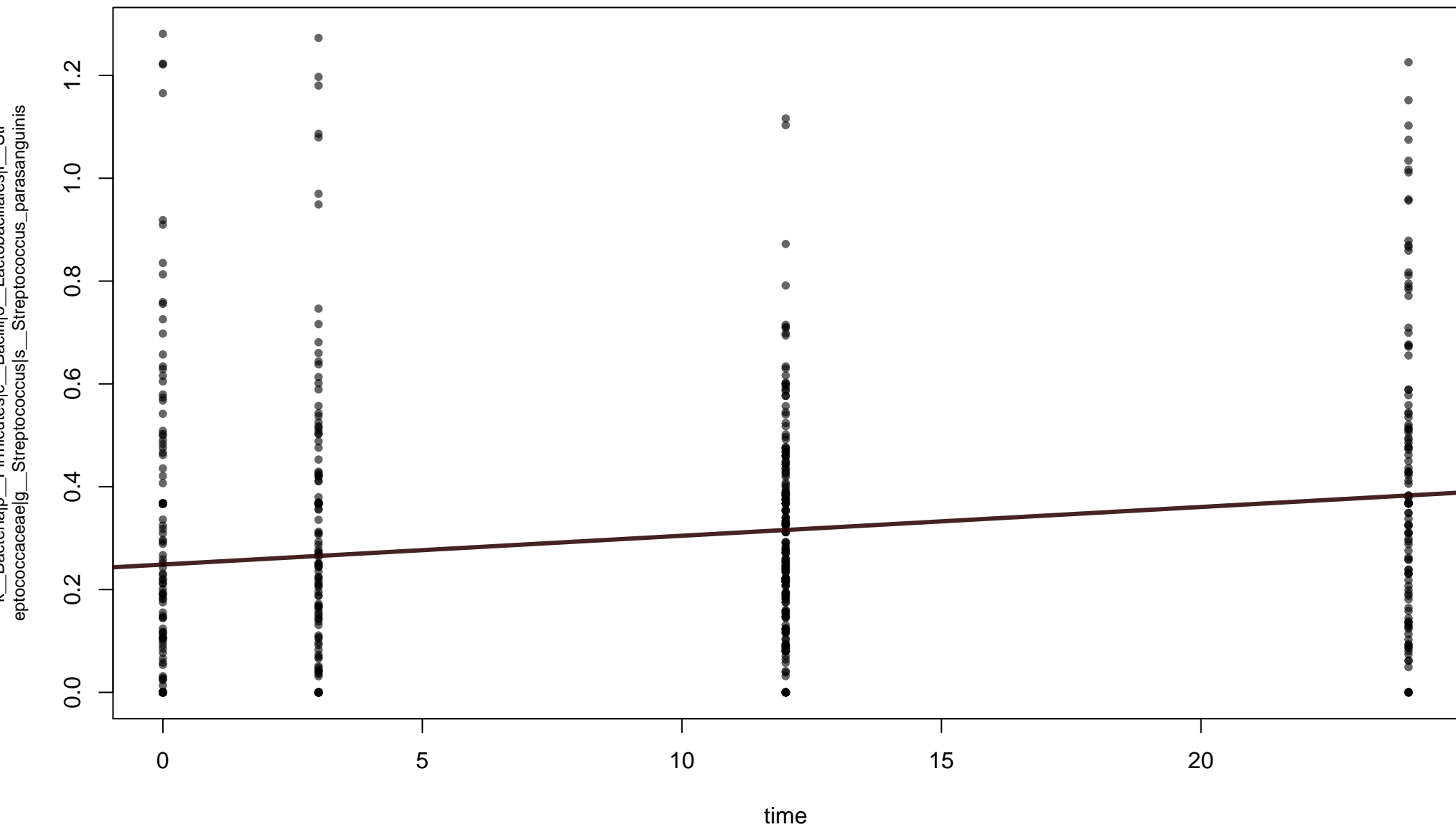


time ( $-0.00229$  sd  $0.000458$ ,  $p=7.9e-07$ ,  $q=1.01e-05$ )

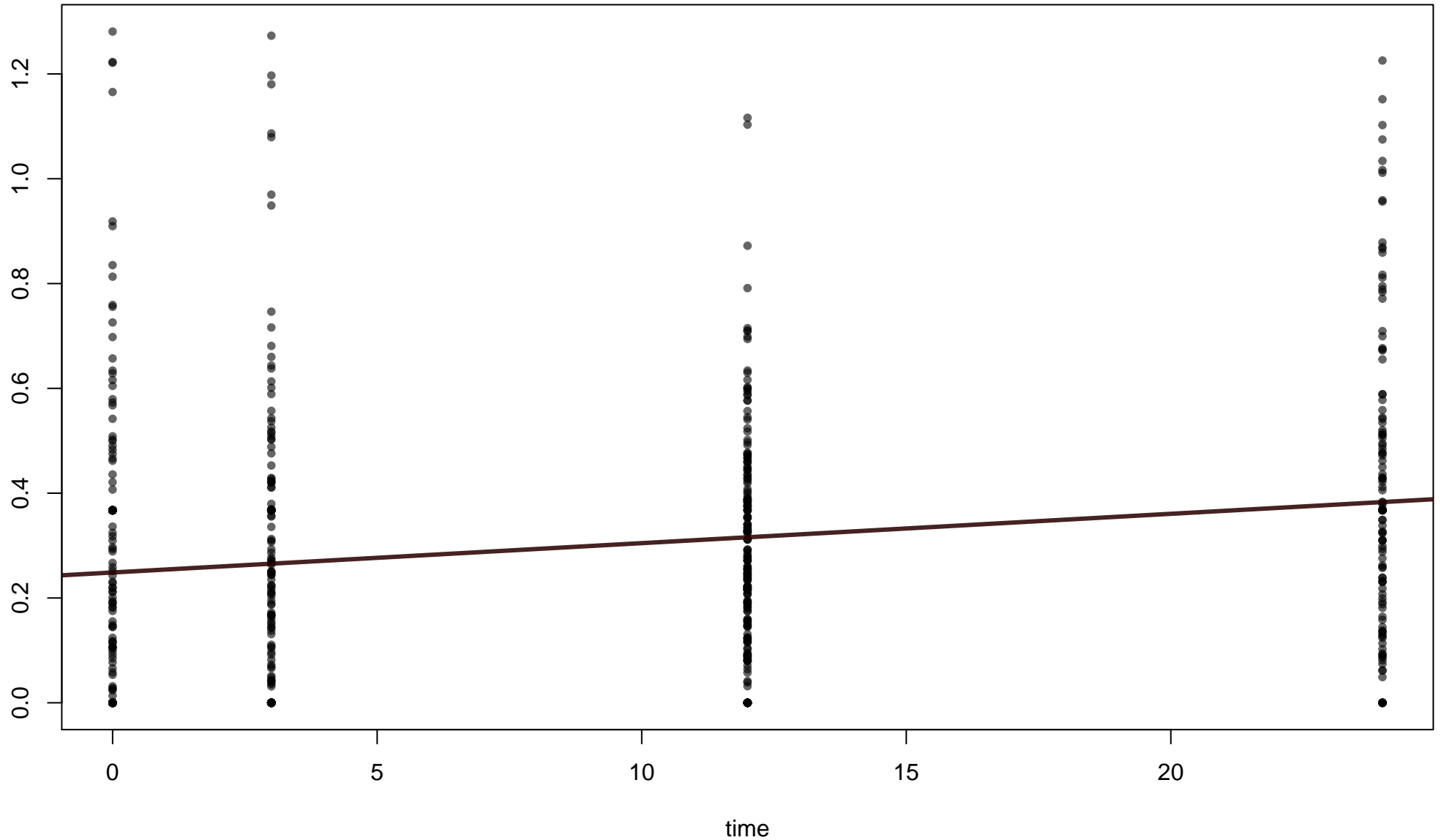




time (0.00567 sd 0.00116, p=1.41e-06, q=1.78e-05)

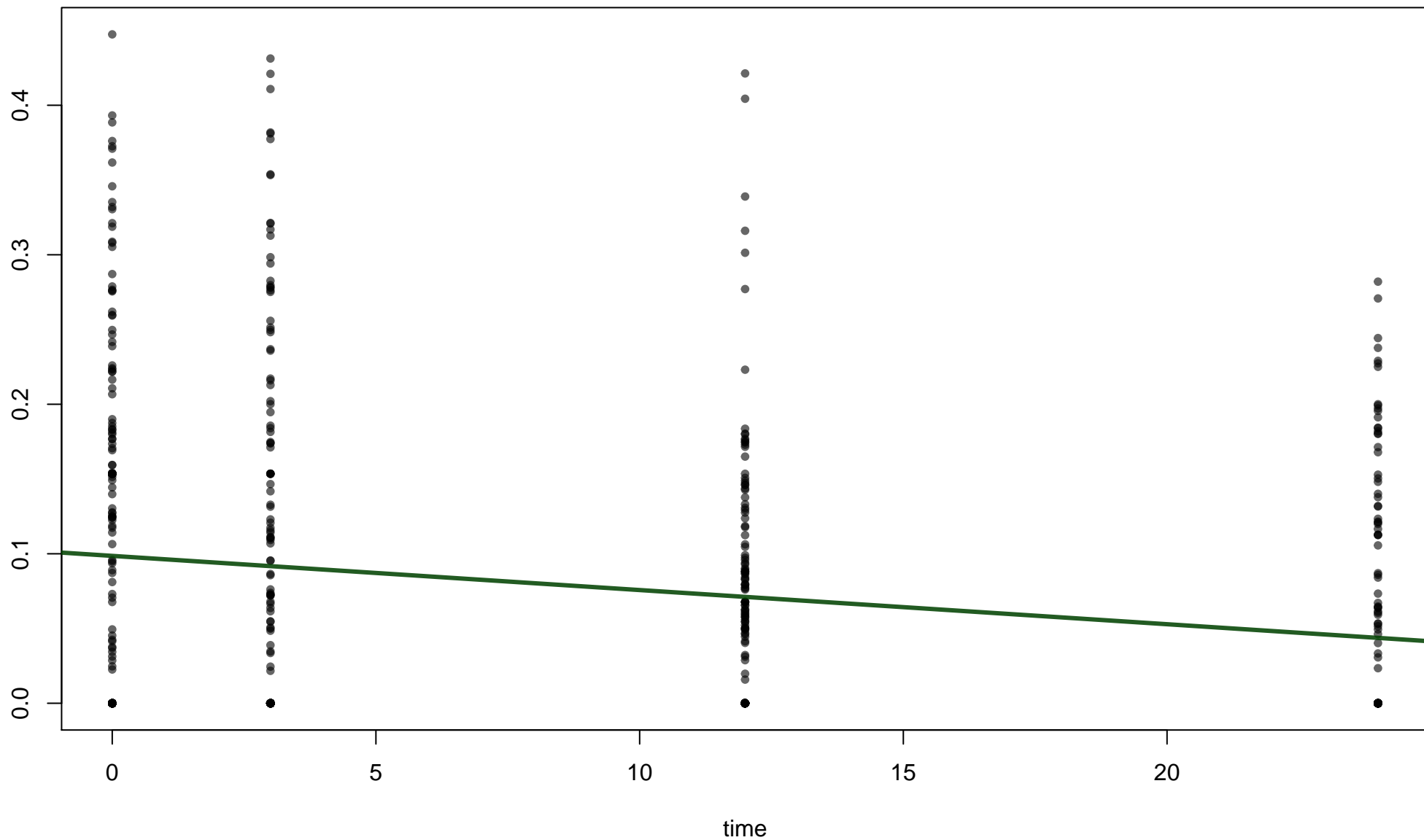


to coccus|s\_\_Streptococcus parasanguis|t\_\_Streptococcus parasanguis\_unclassified

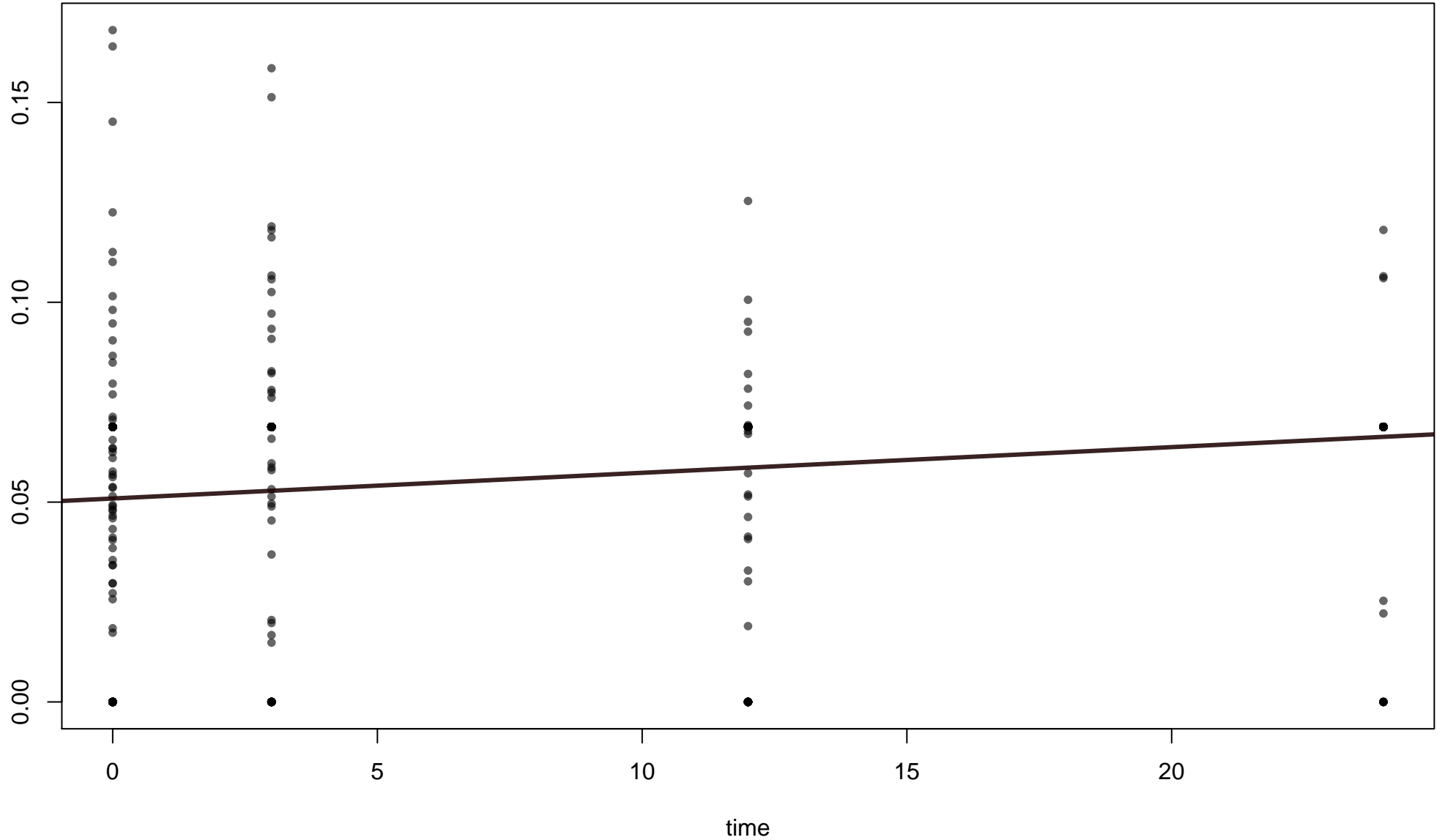


time ( $-0.00221$  sd  $0.000455$ ,  $p=1.52e-06$ ,  $q=1.91e-05$ )

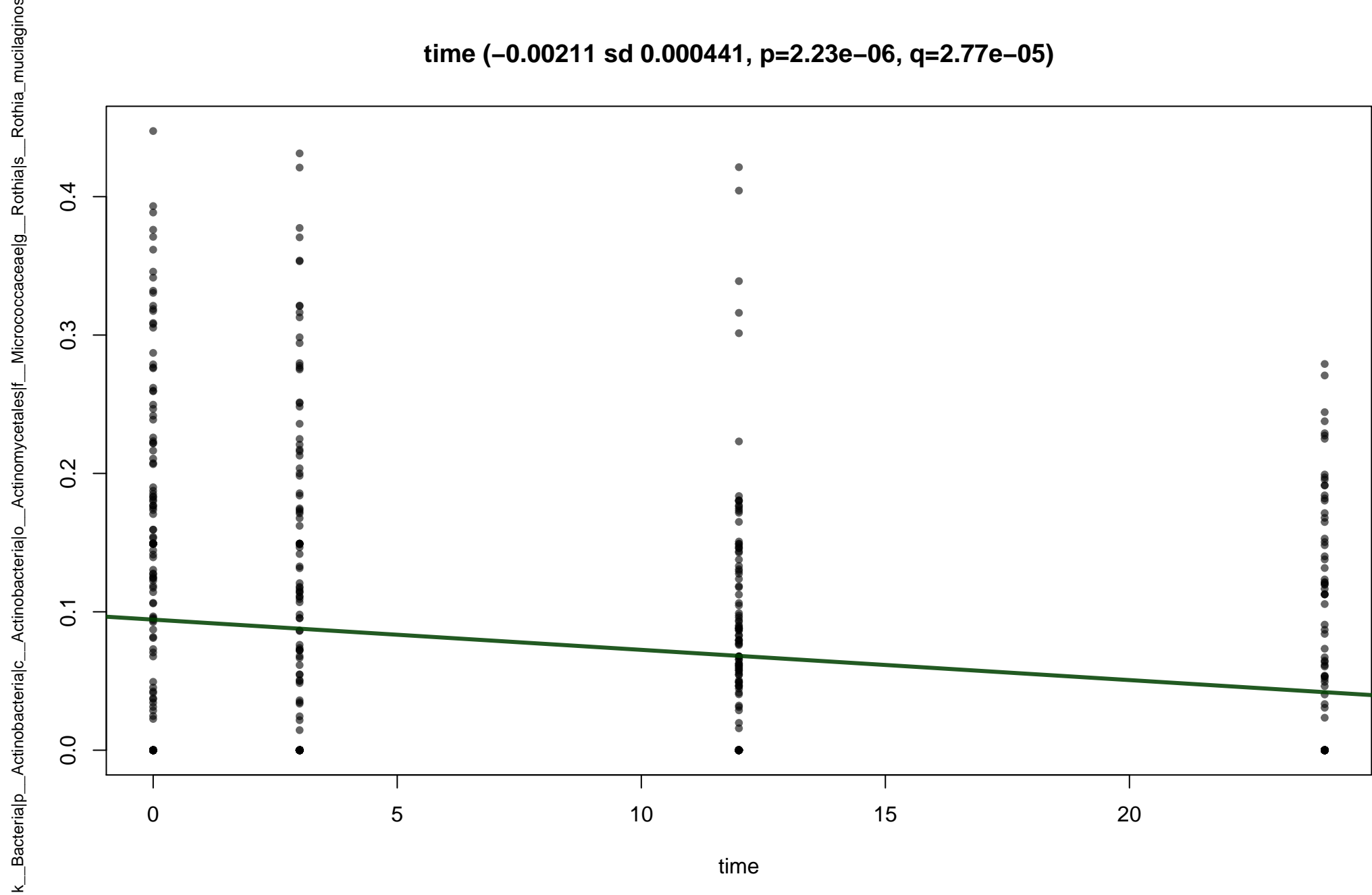
k\_\_Bacteria|p\_\_Actinobacteria|c\_\_Actinobacteria|o\_\_Actinomycetales|f\_\_Micrococcales|g\_\_Rothia



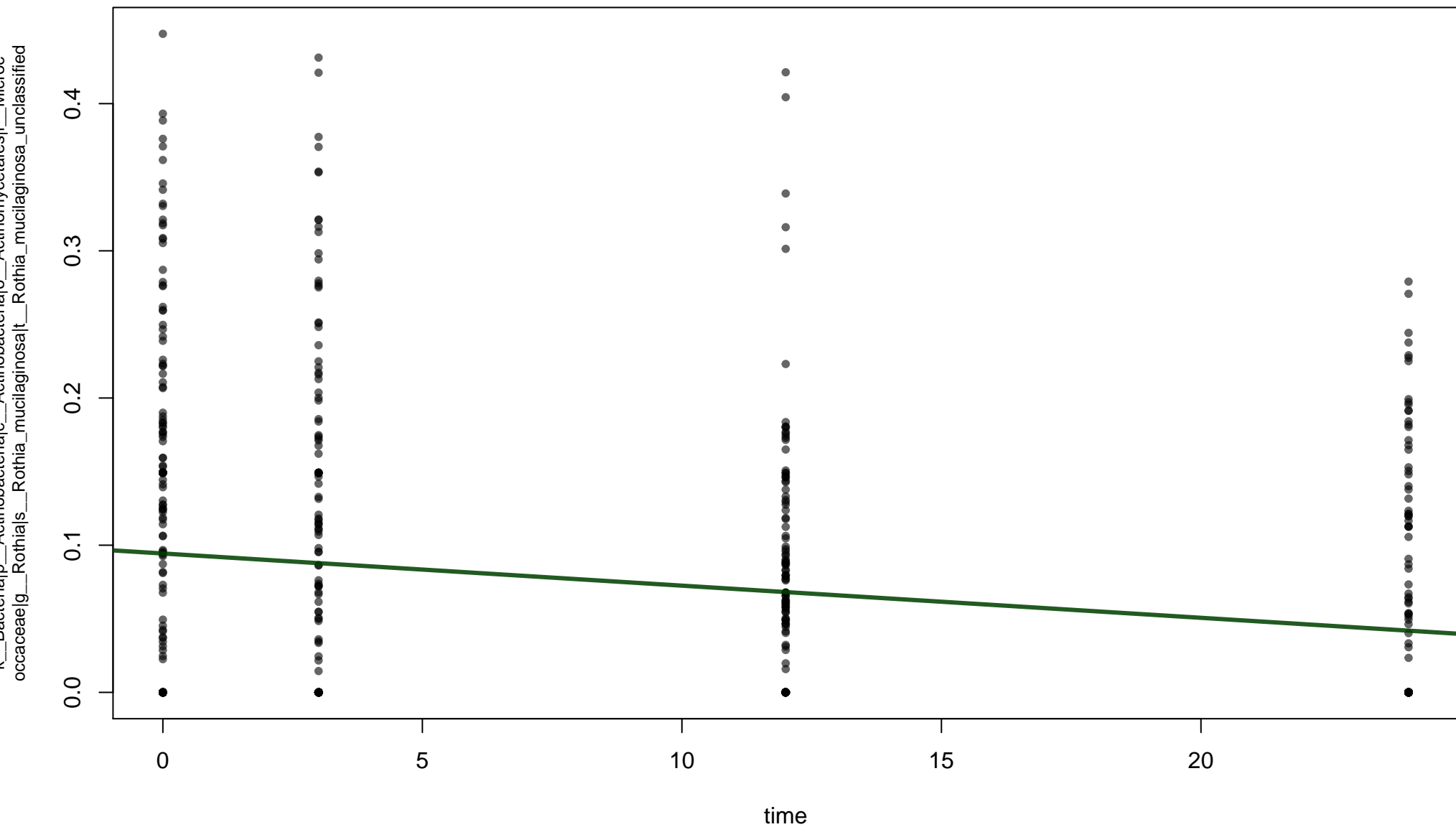
case|g\_Bifidobacterium|s\_Bifidobacterium\_longum|t\_Bifidobacterium\_longum\_unclassified



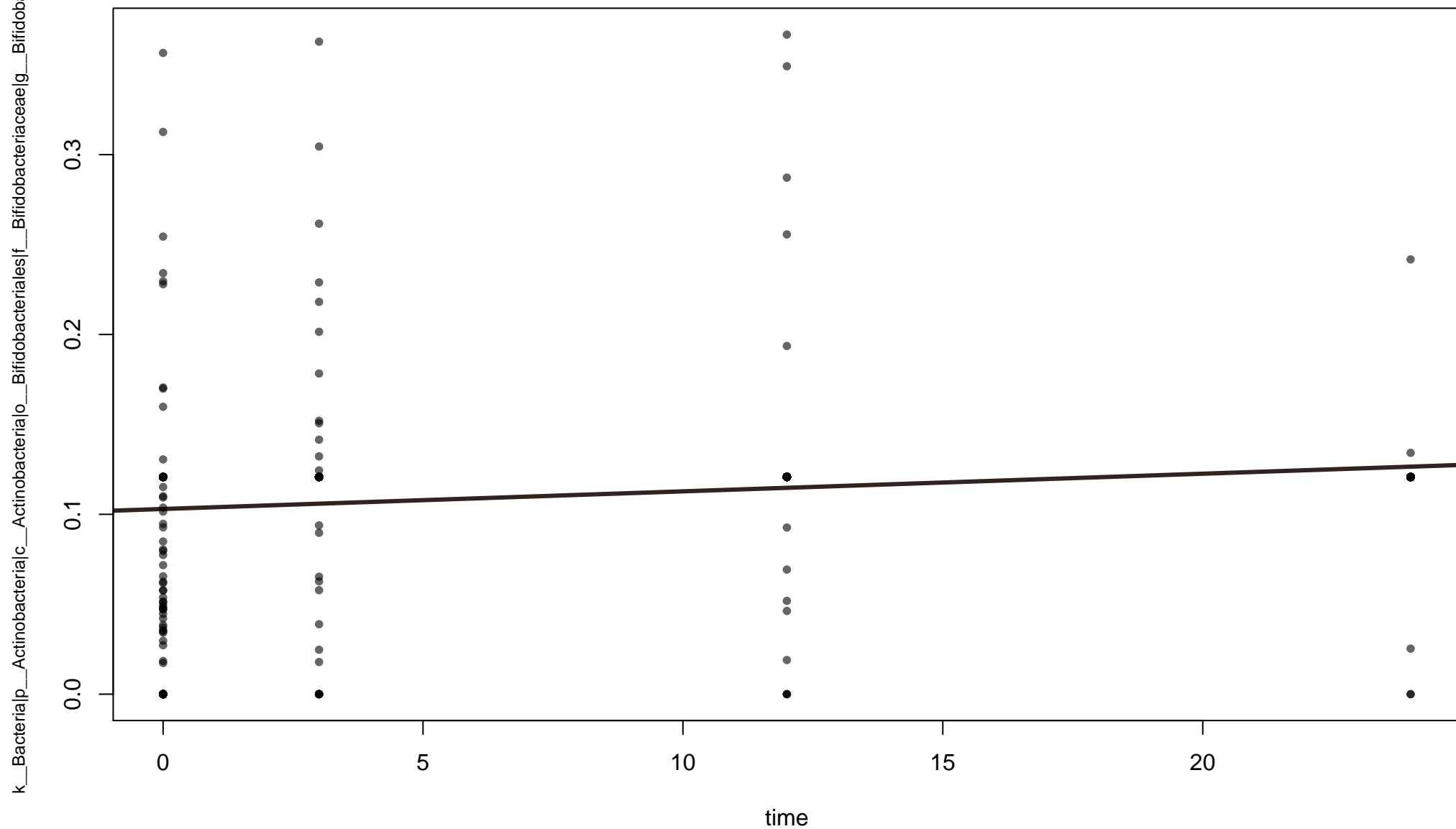
time ( $-0.00211$  sd  $0.000441$ ,  $p=2.23e-06$ ,  $q=2.77e-05$ )



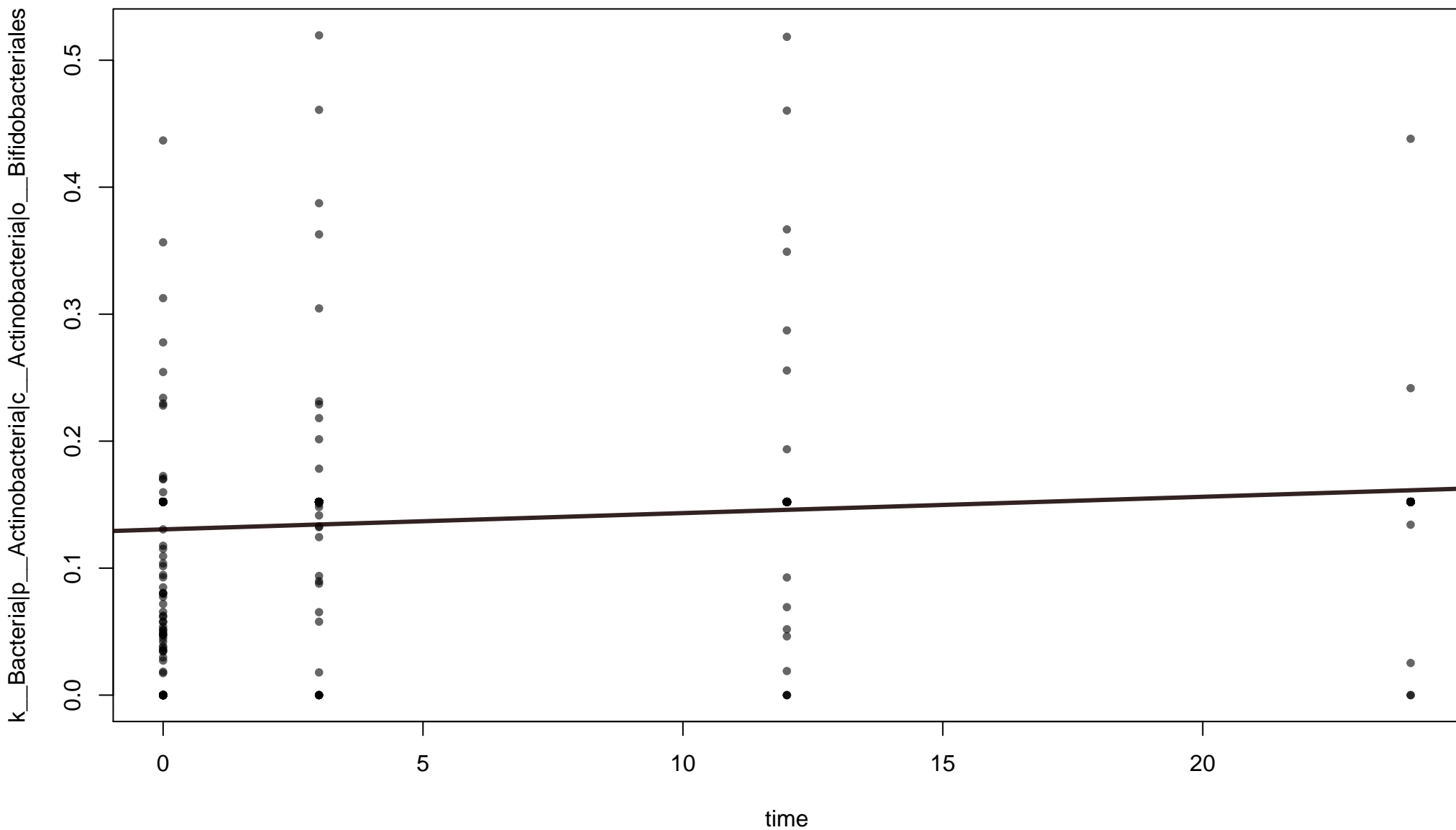
time (-0.00211 sd 0.000441, p=2.23e-06, q=2.77e-05)



time (0.000977 sd 0.000205, p=2.34e-06, q=2.9e-05)

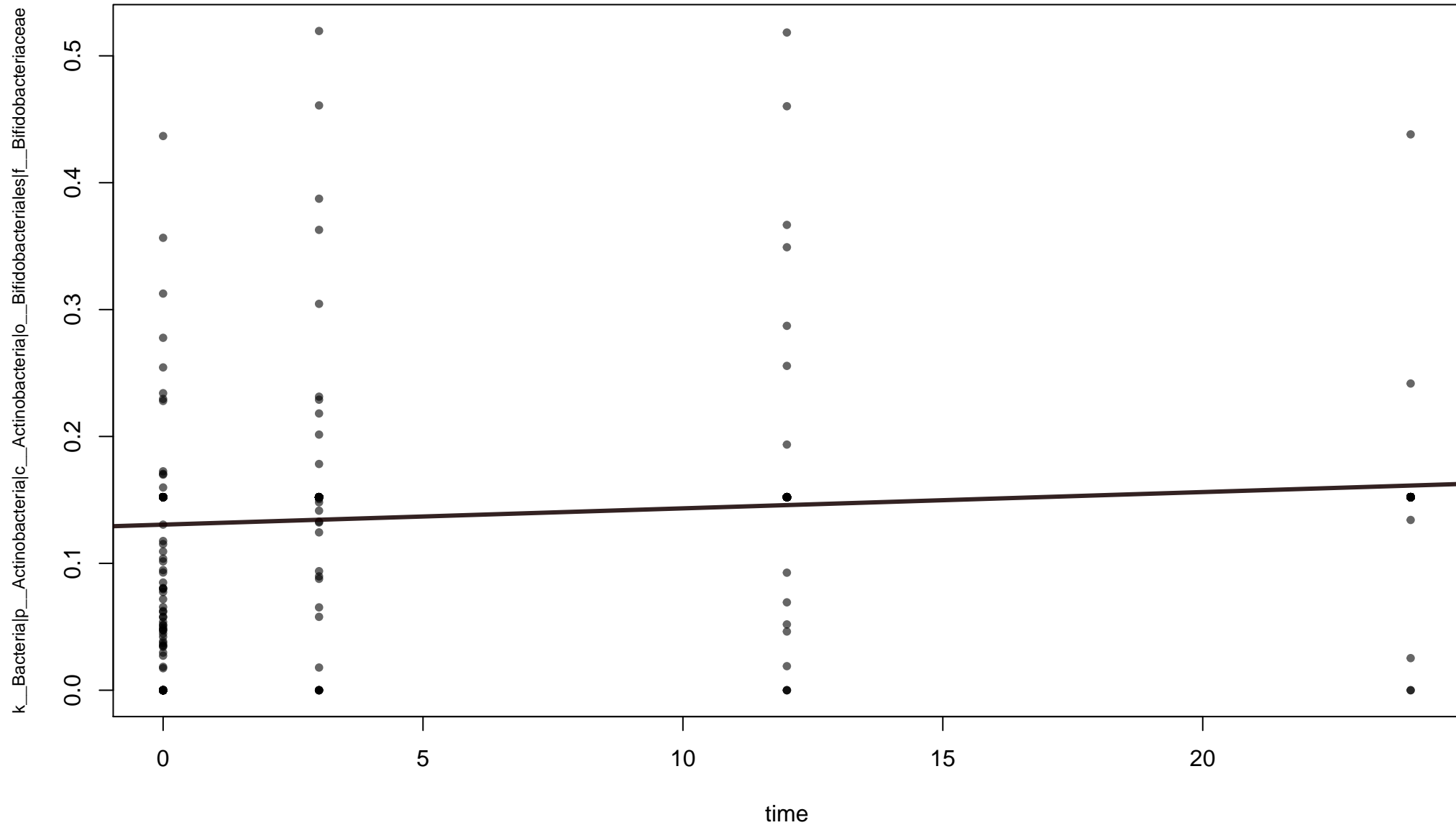


time (0.00128 sd 0.000271, p=3.02e-06, q=3.72e-05)

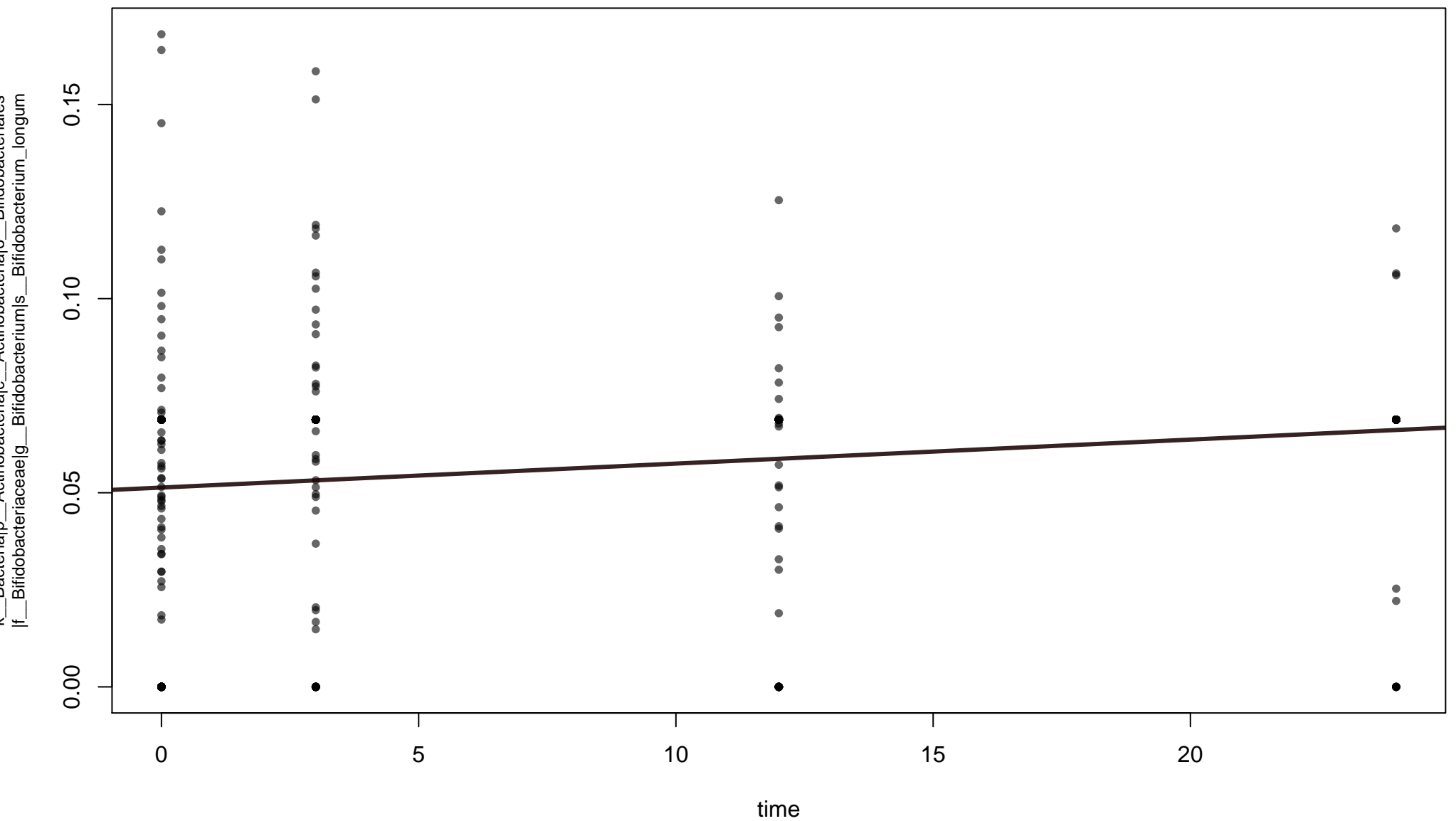




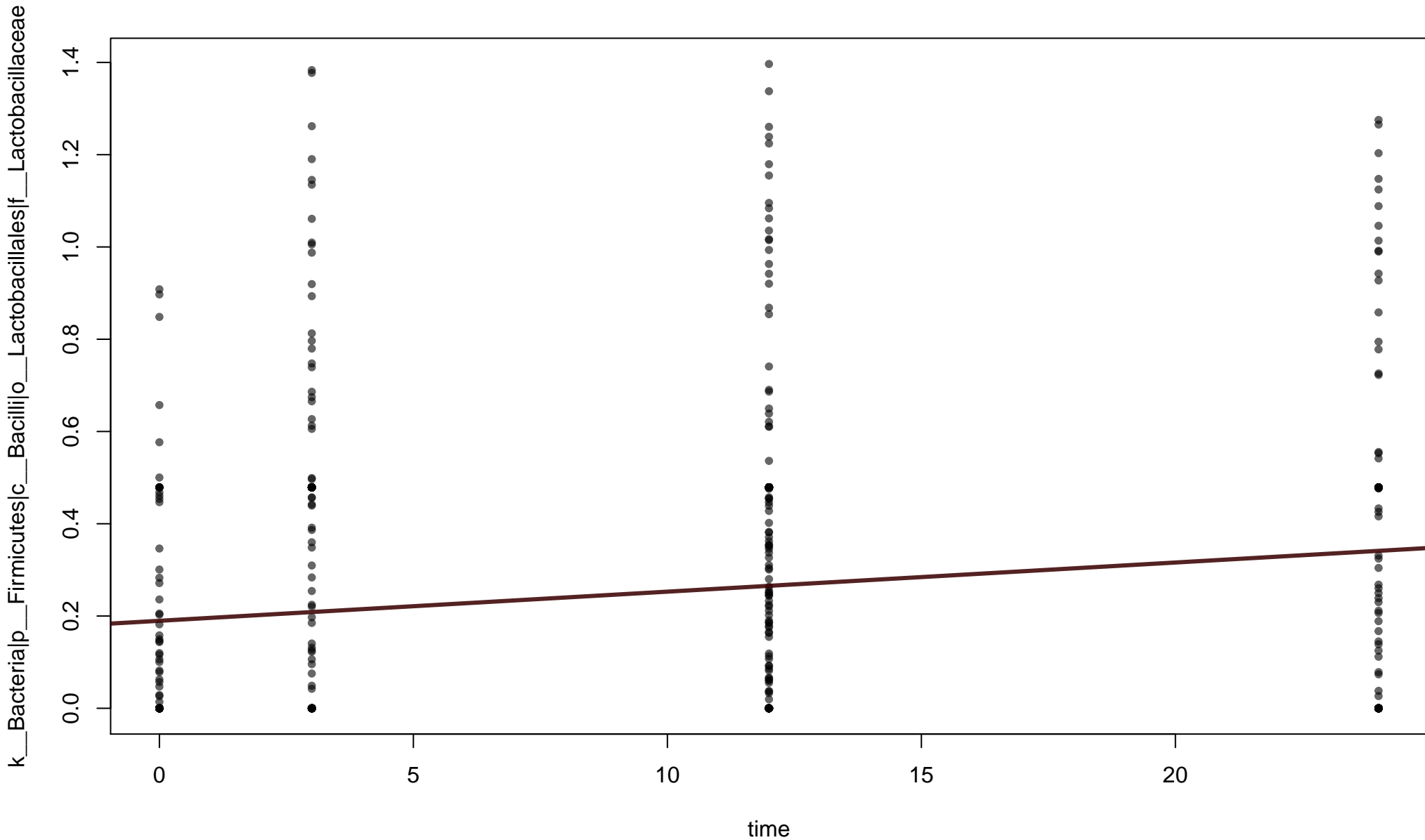
time (0.00128 sd 0.000271, p=3.02e-06, q=3.72e-05)



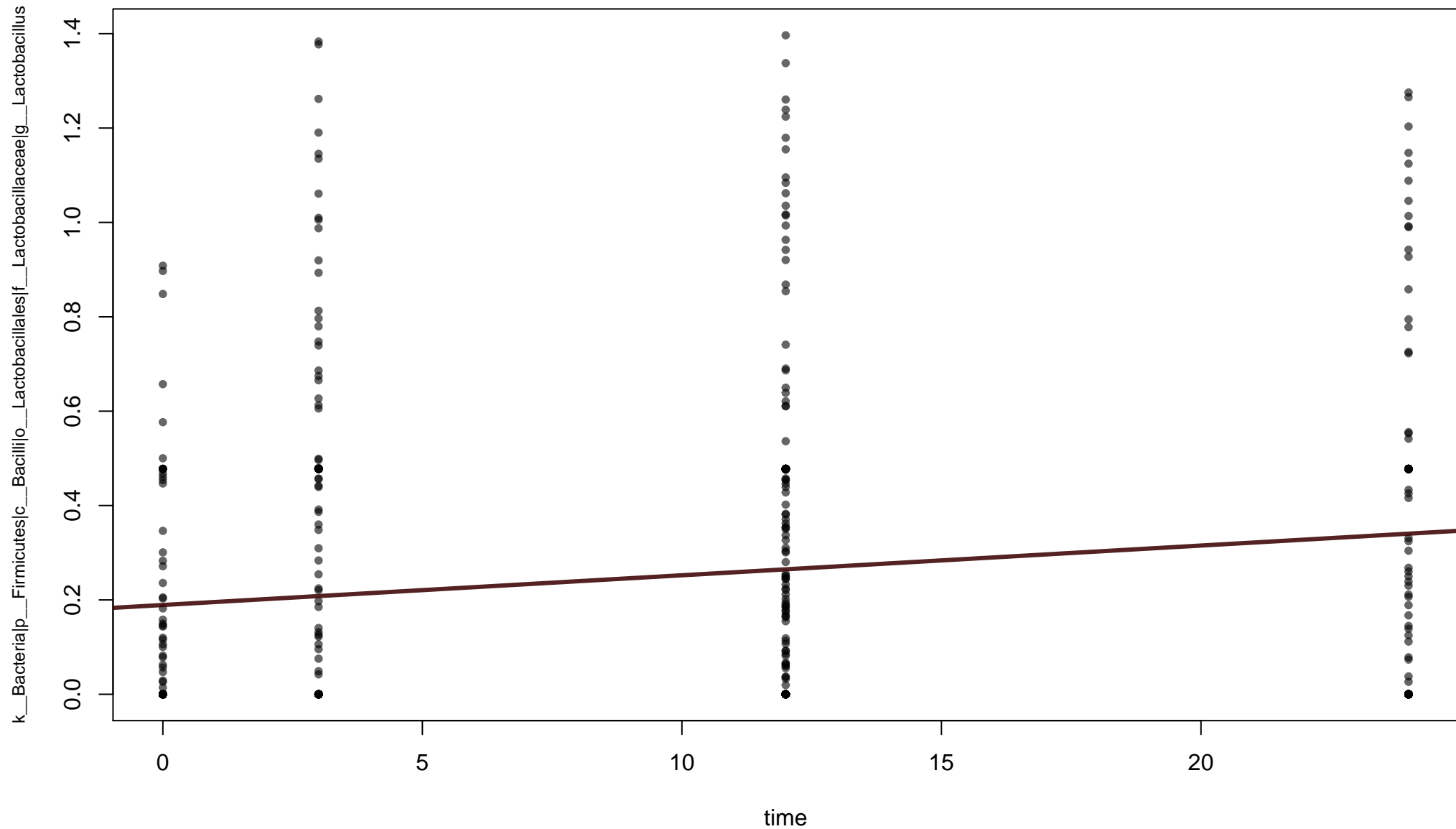
time (0.000618 sd 0.000132, p=3.44e-06, q=4.22e-05)



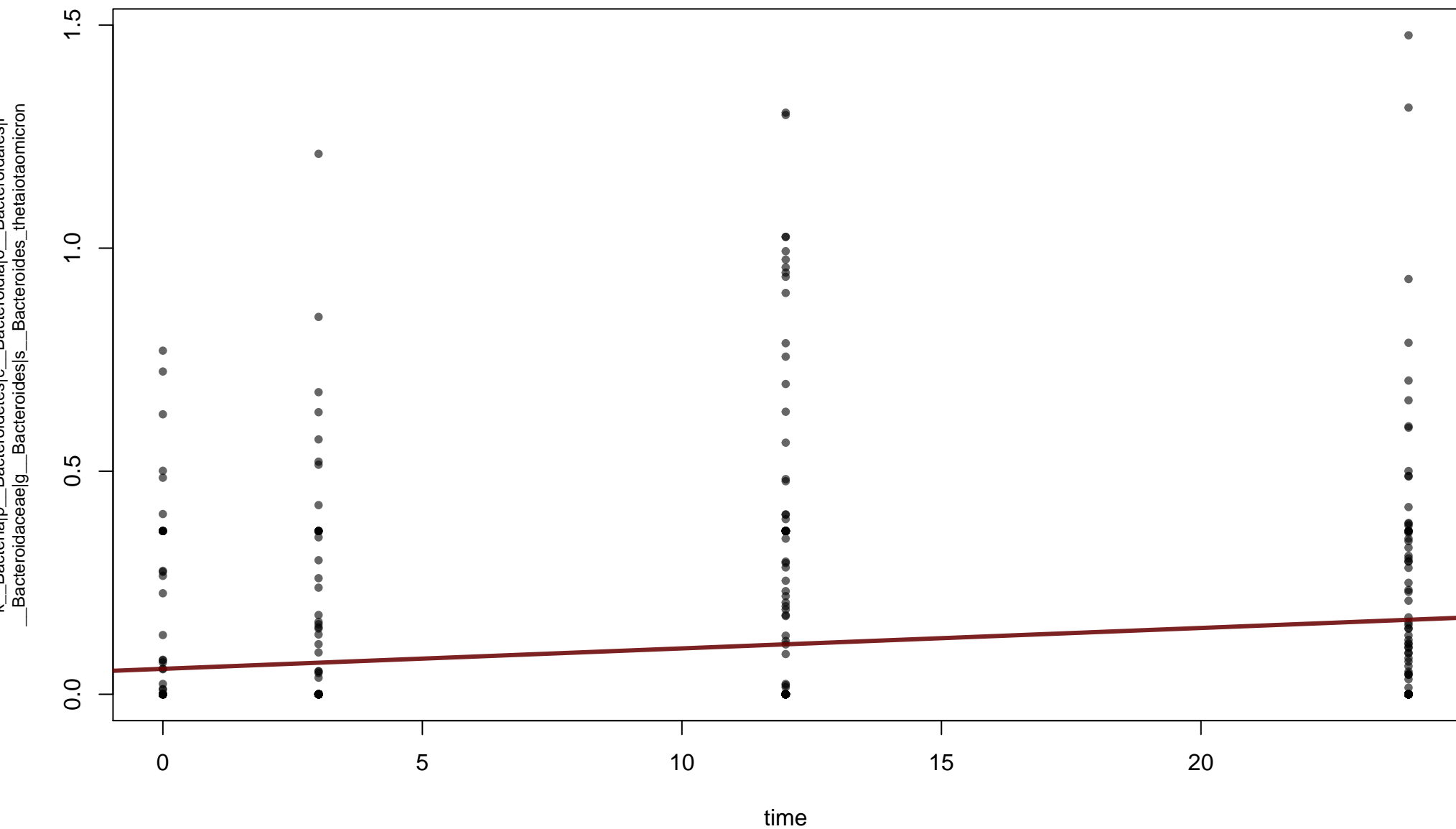
time (0.00623 sd 0.00133, p=3.58e-06, q=4.38e-05)



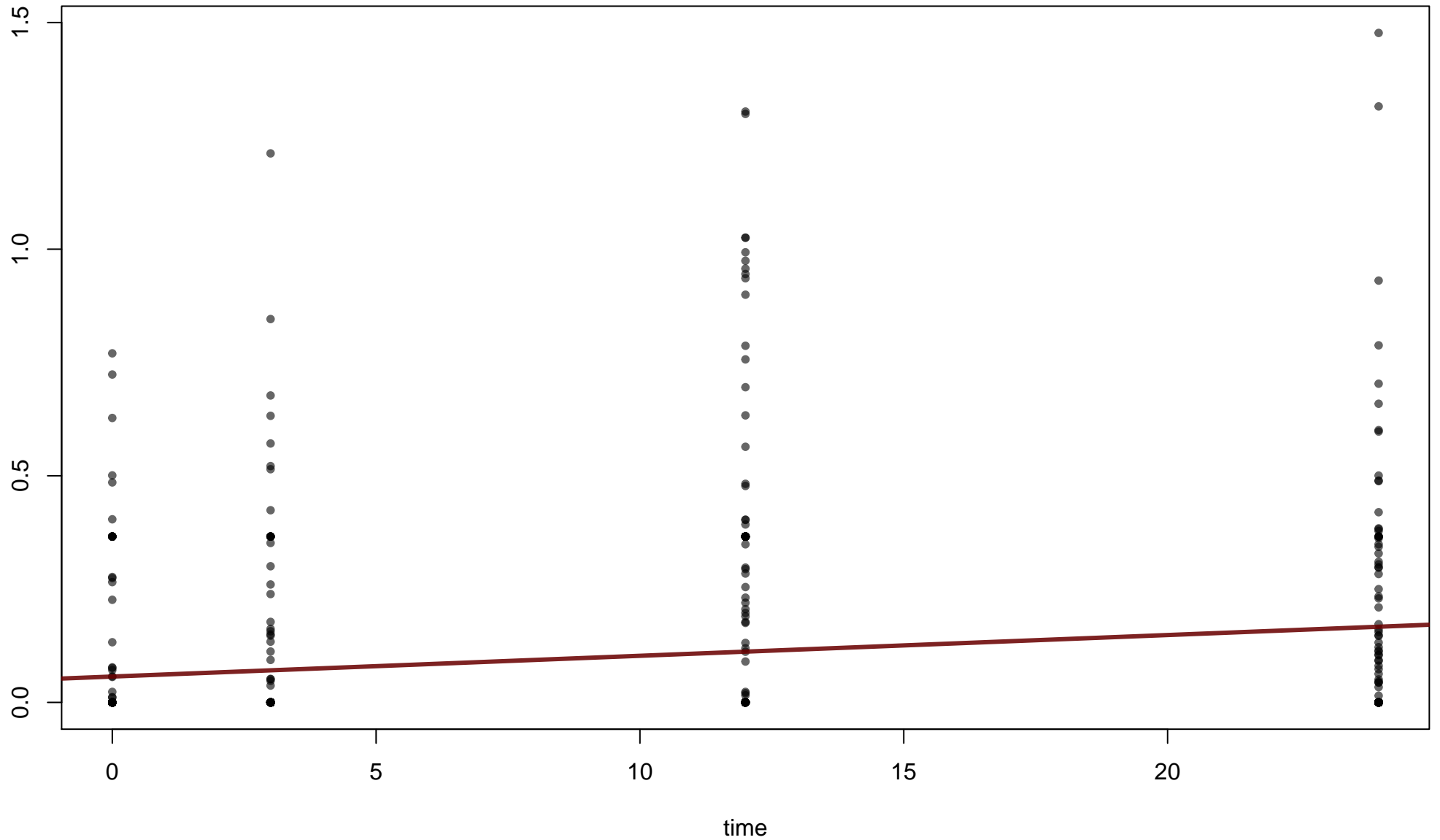
time (0.00621 sd 0.00133, p=3.77e-06, q=4.59e-05)



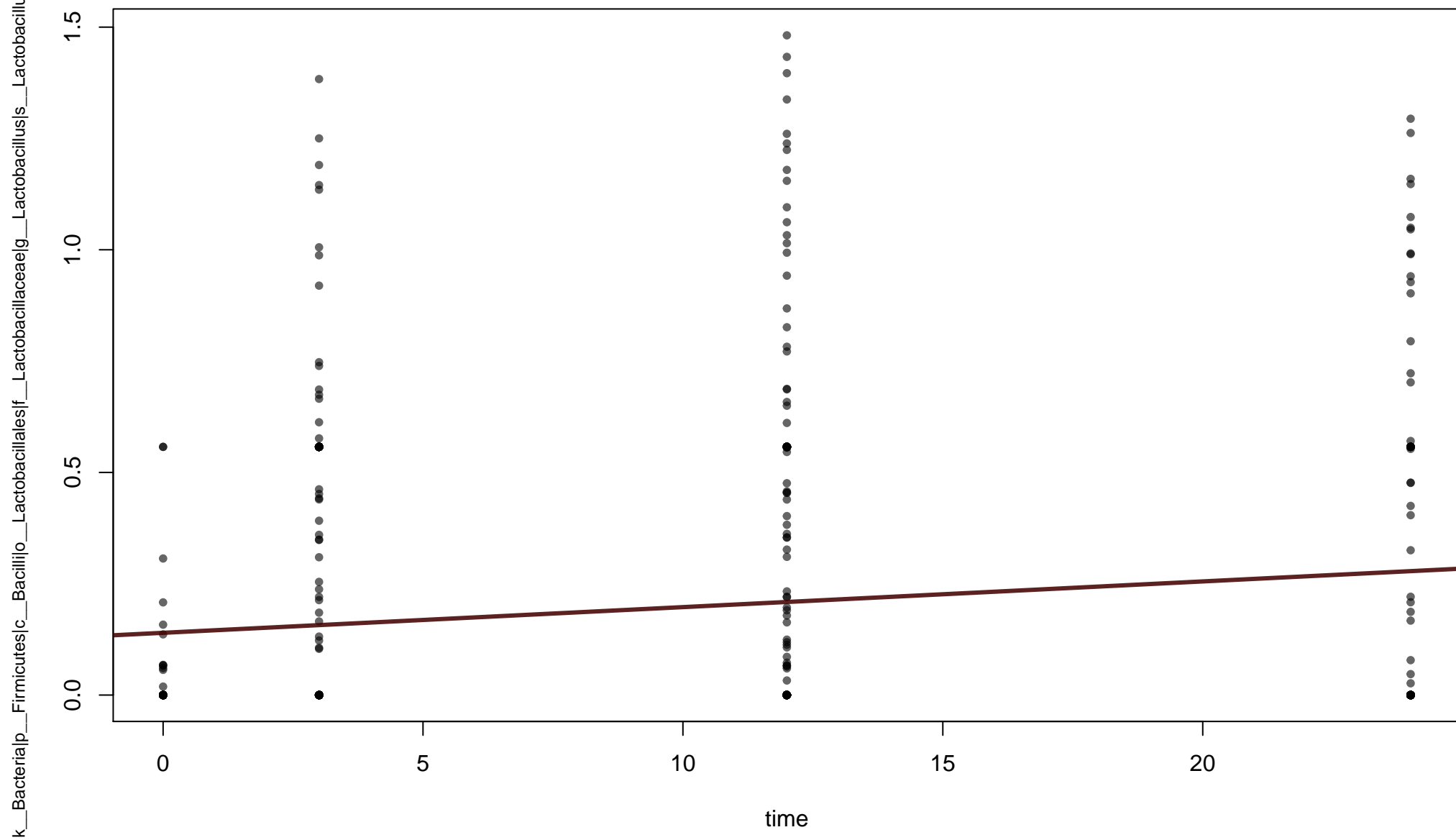
time (0.00445 sd 0.000968, p=5.14e-06, q=6.21e-05)



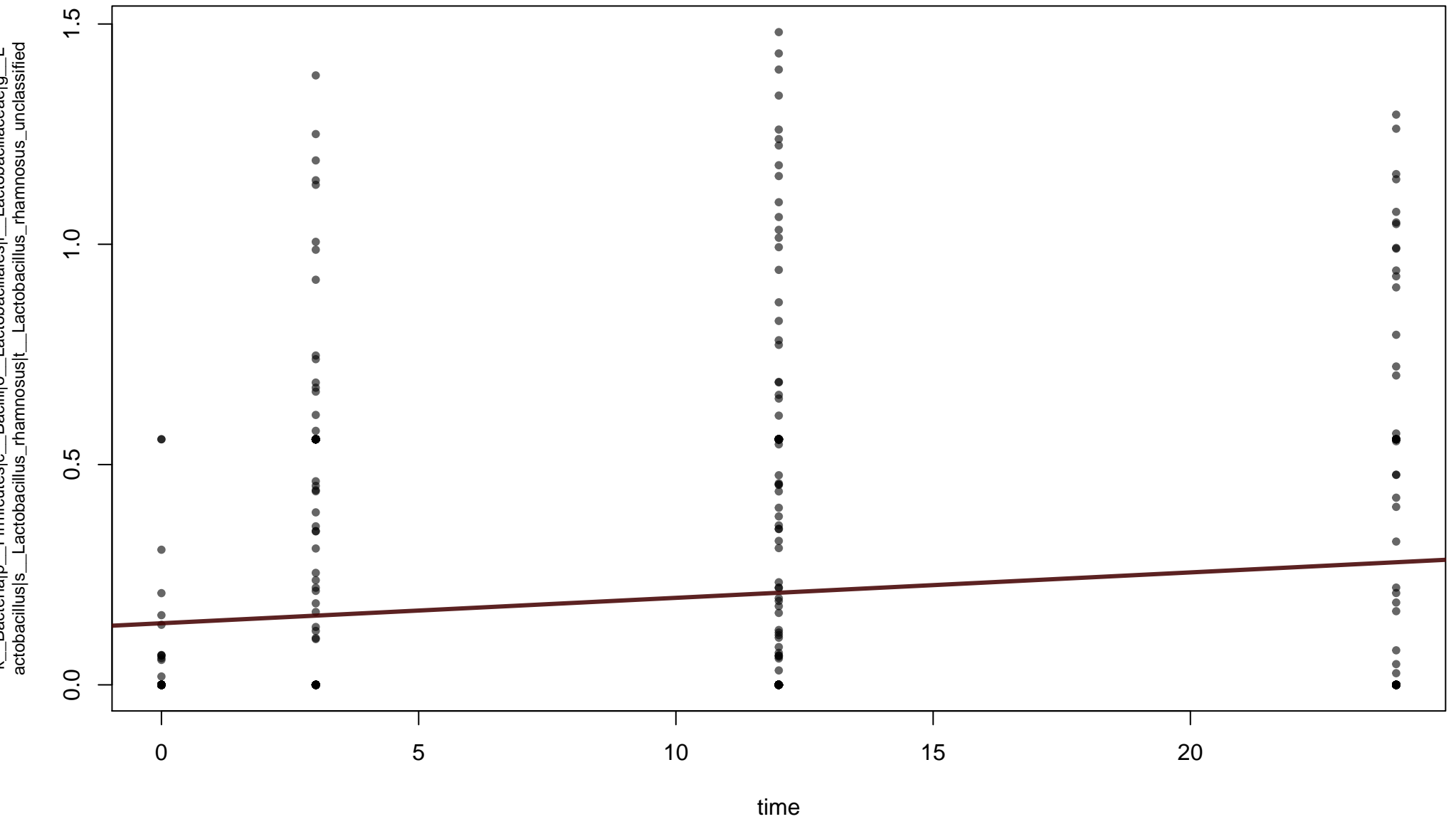
teroides|\_Bacteroides\_thetaiotaomicron|\_Bacteroides\_thetaiotaomicron\_unclassified



time (0.00562 sd 0.00124, p=6.56e-06, q=7.83e-05)

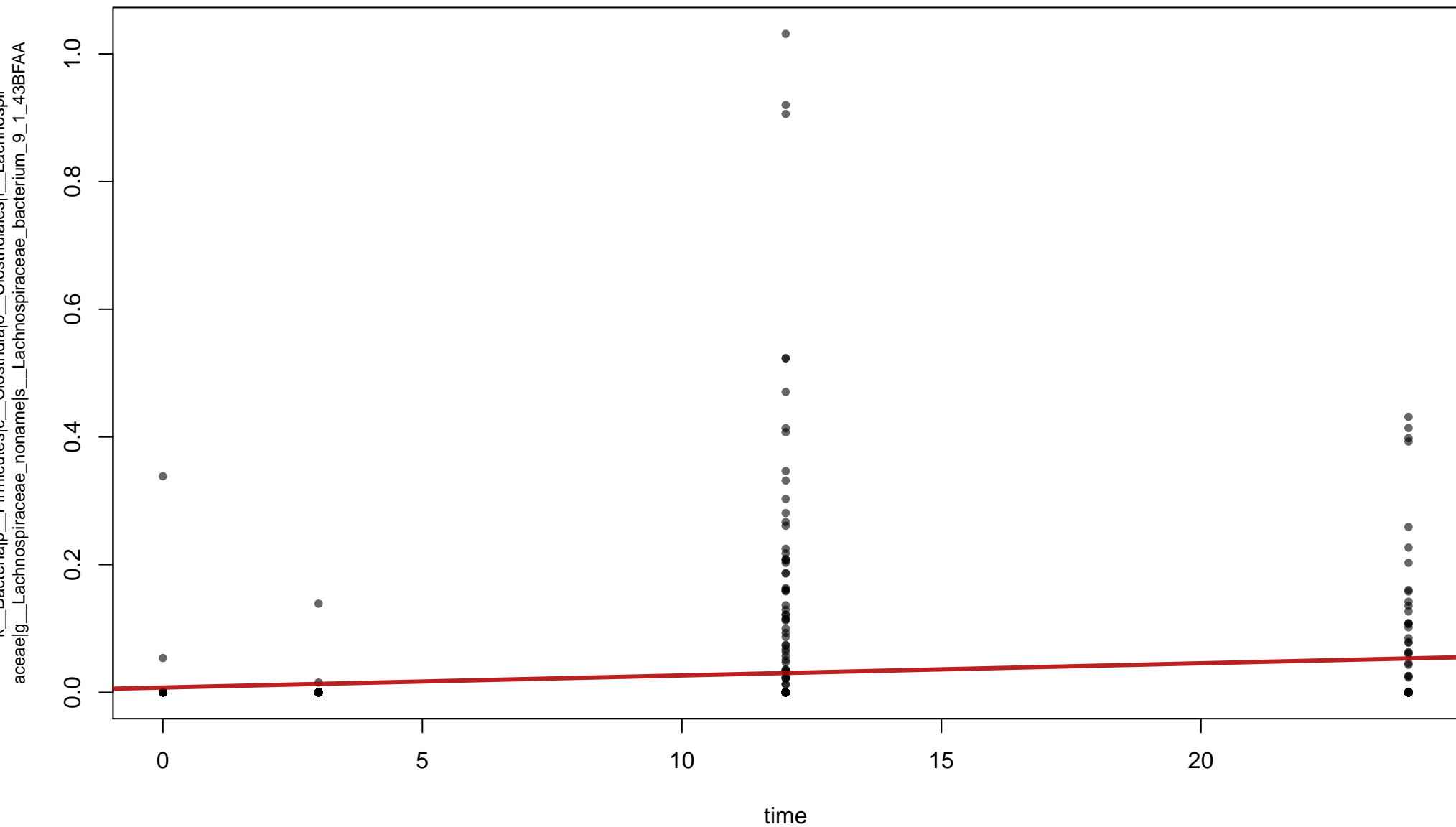


**time (0.00562 sd 0.00124, p=6.56e-06, q=7.83e-05)**

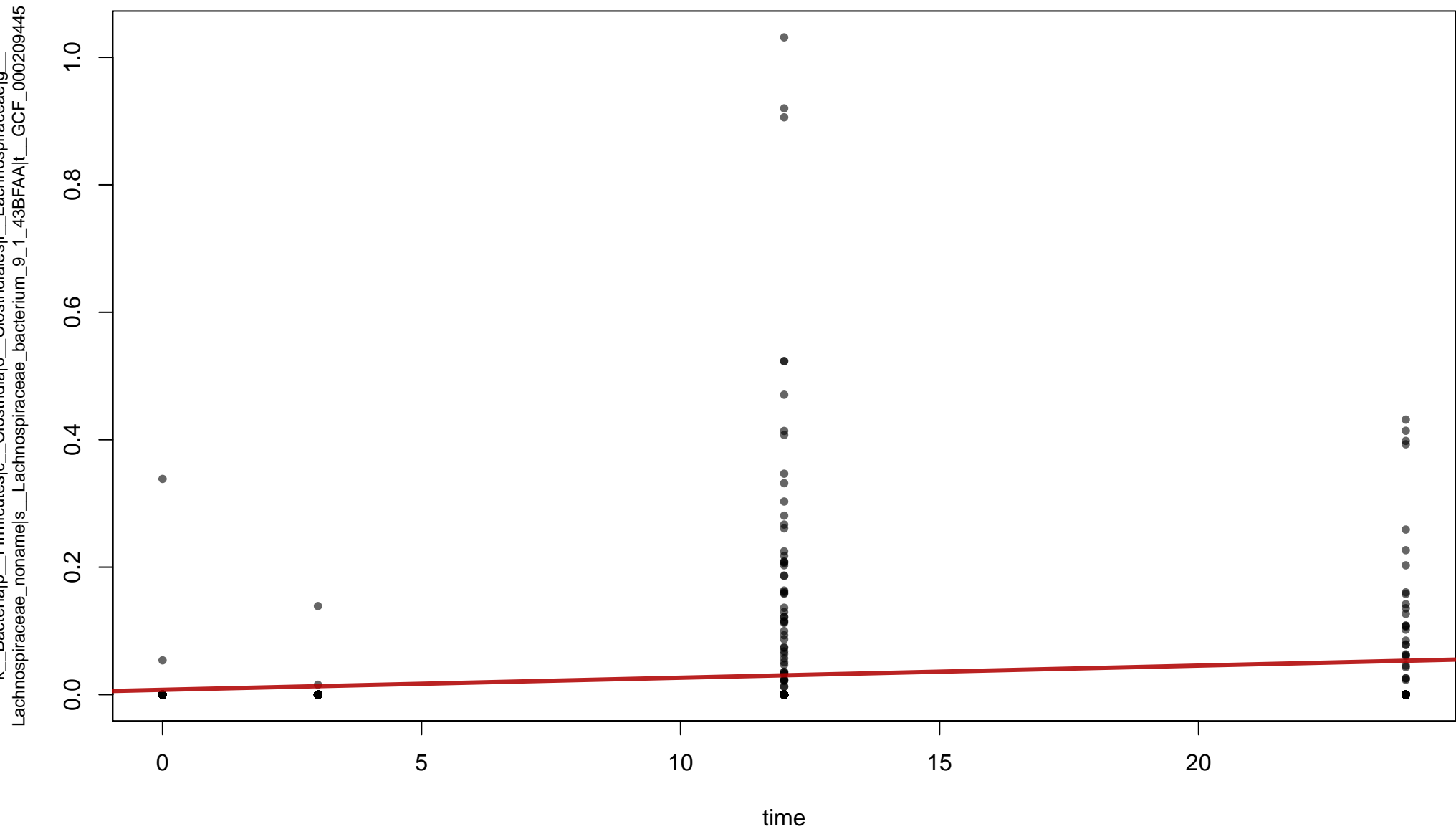




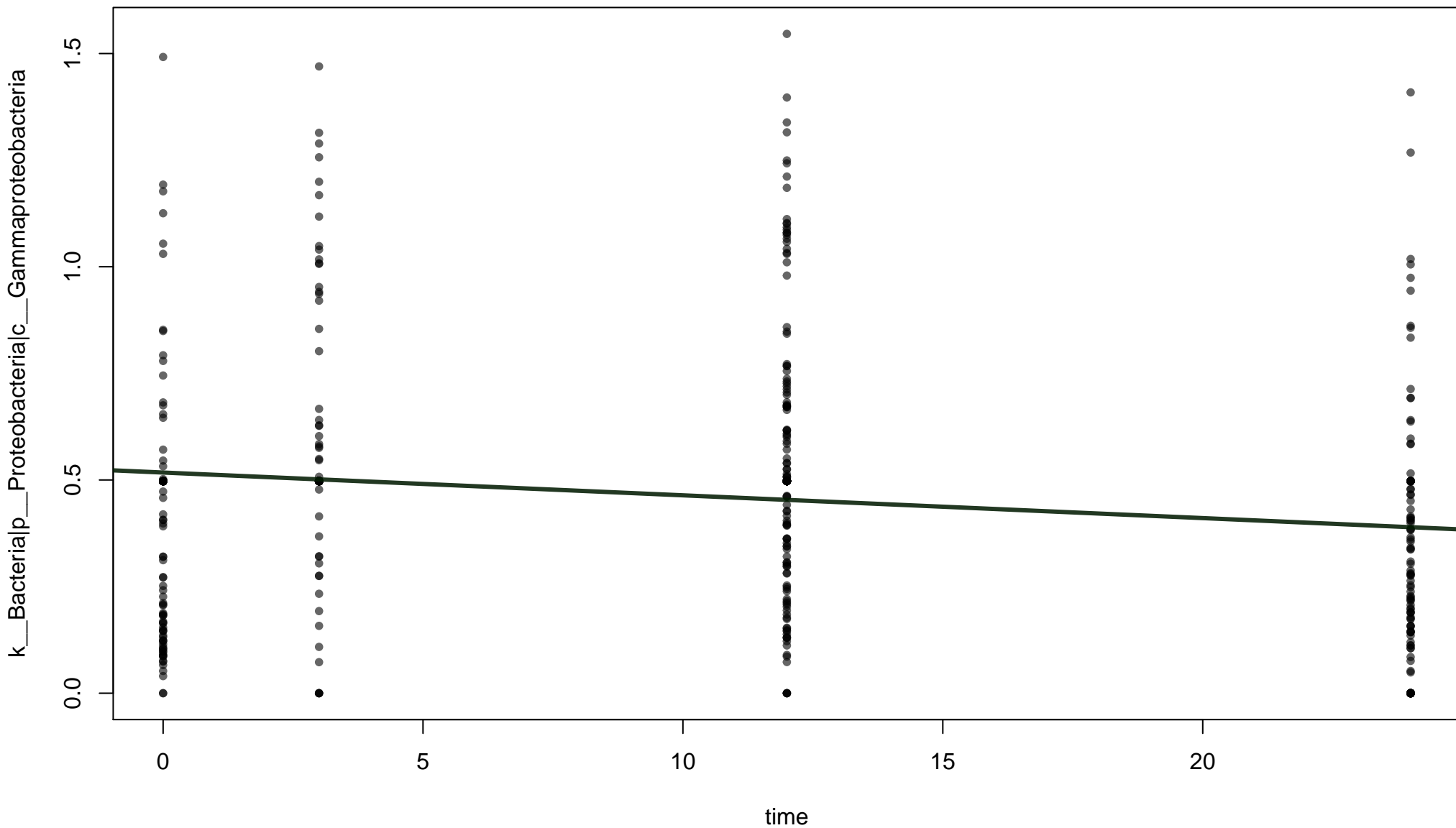
time (0.0019 sd 0.000422, p=7.85e-06, q=9.27e-05)



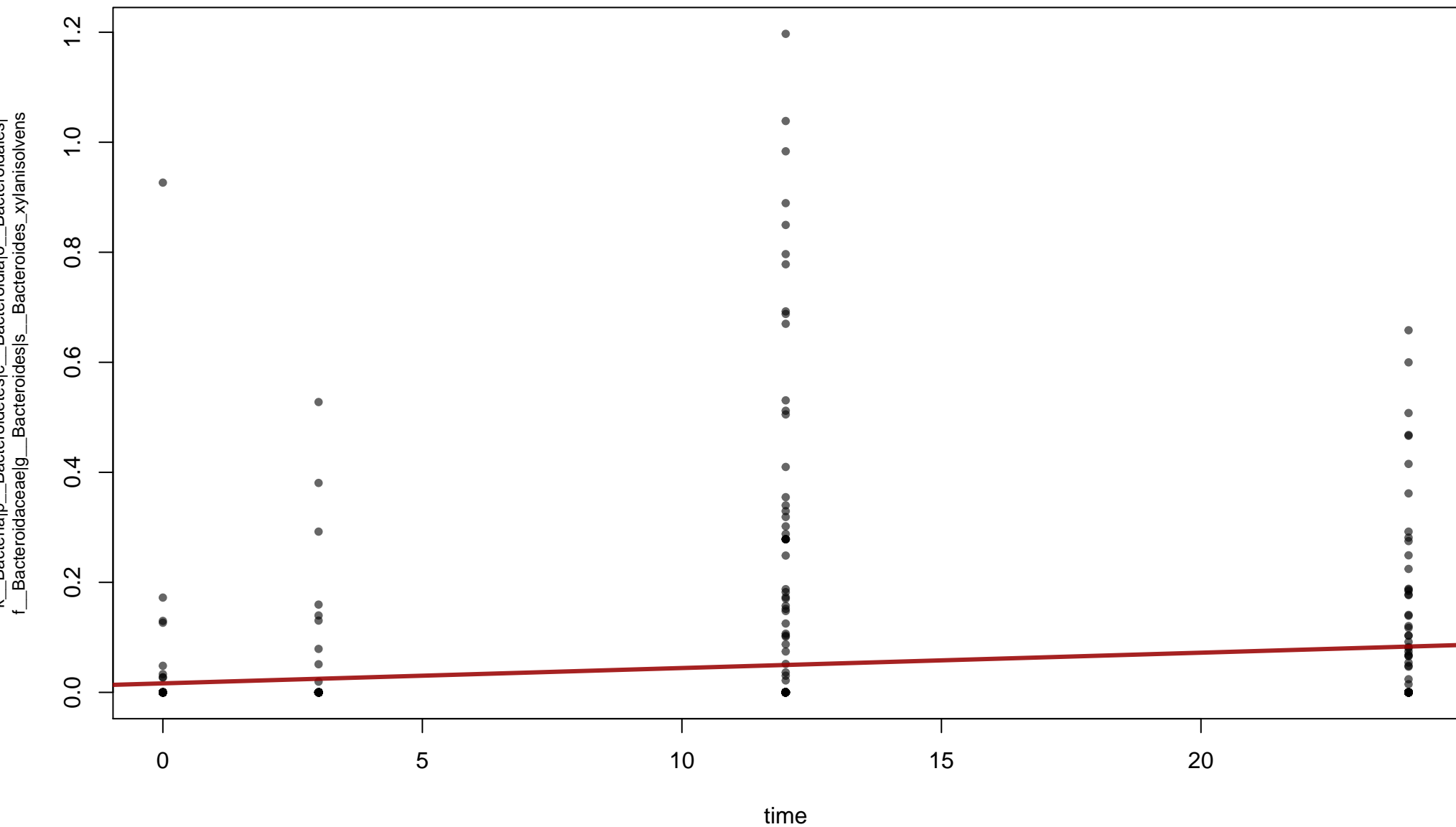
time (0.0019 sd 0.000422, p=7.85e-06, q=9.27e-05)



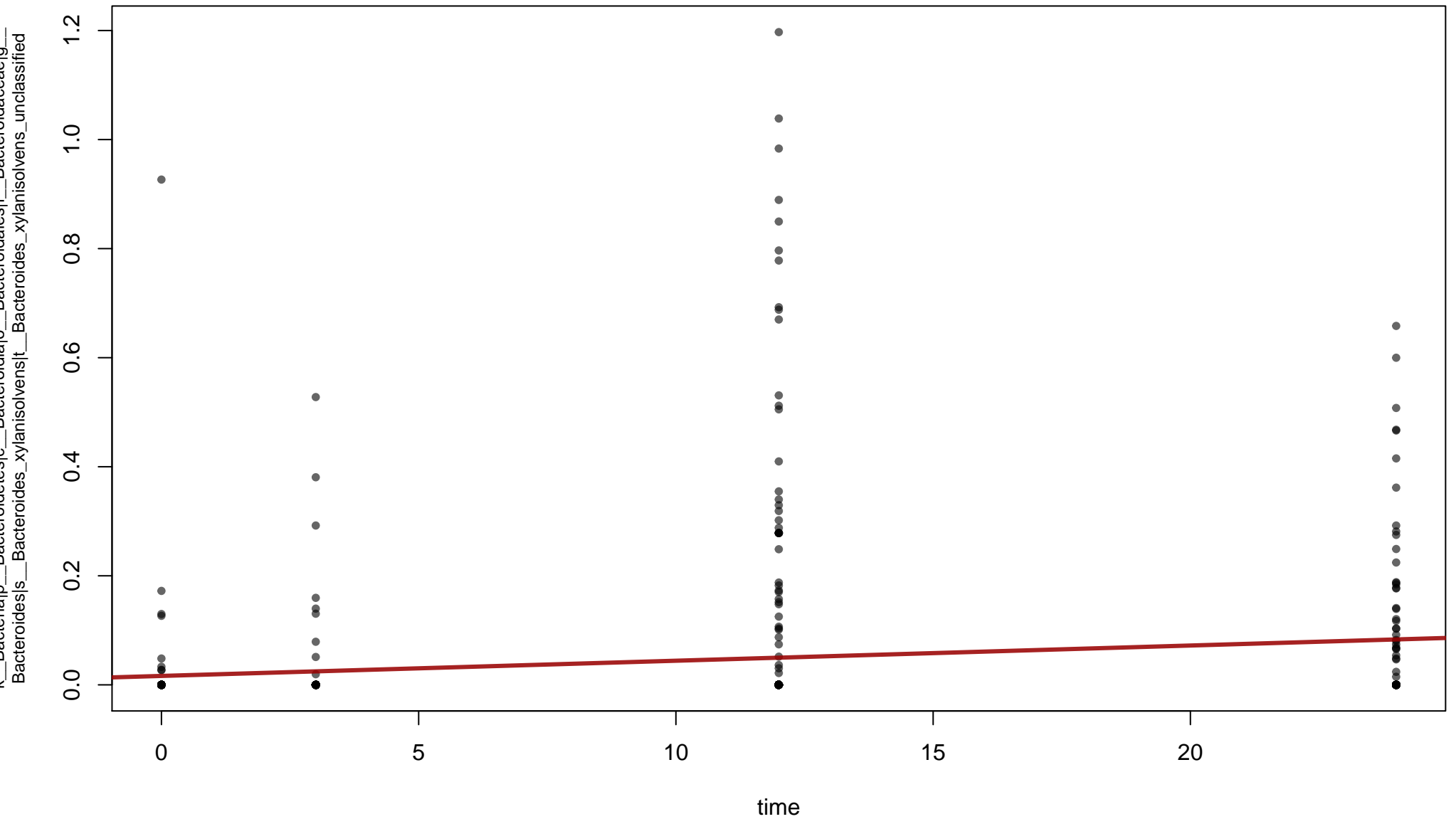
time ( $-0.00535$  sd  $0.0012$ ,  $p=9.89e-06$ ,  $q=0.000116$ )



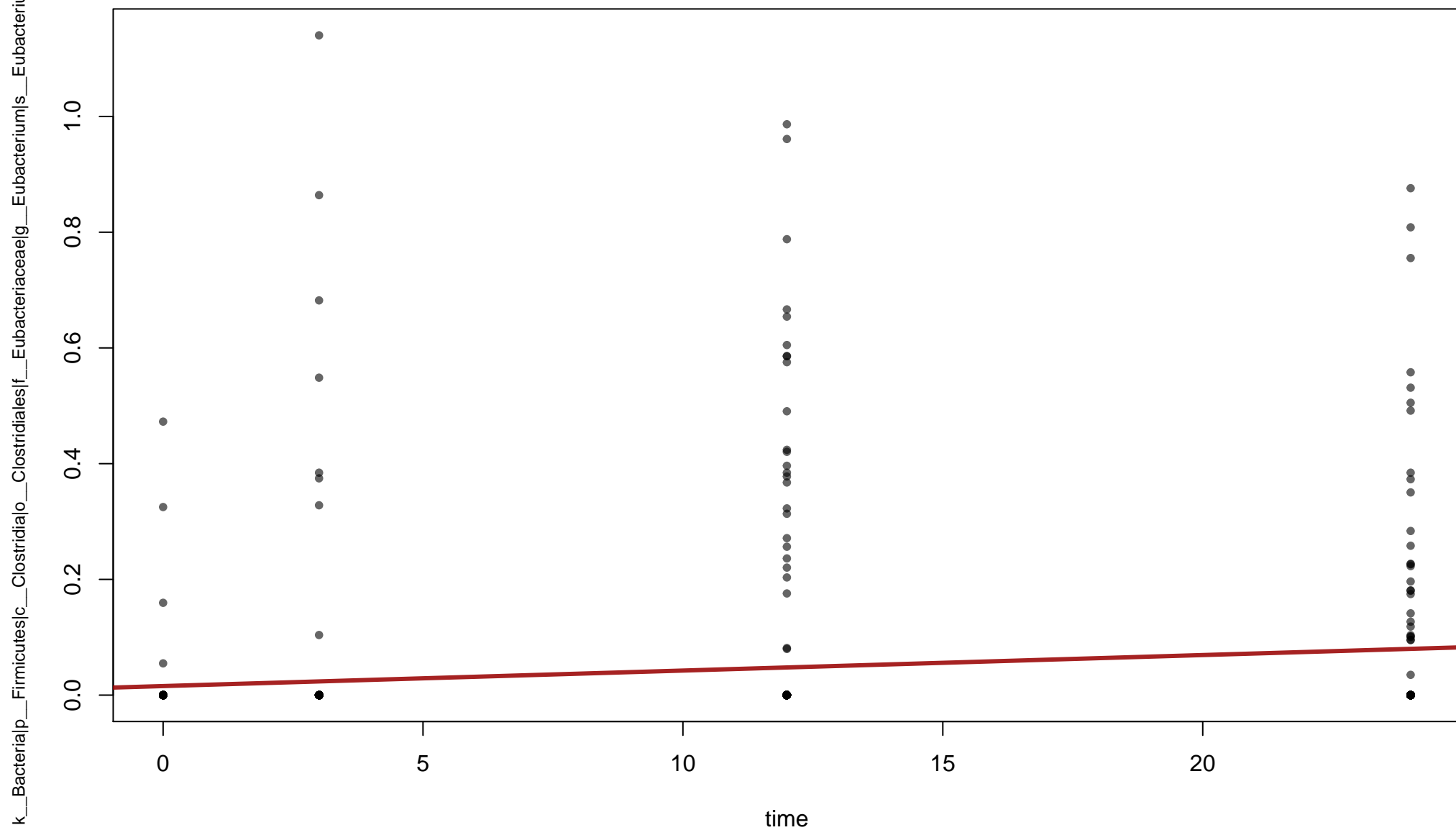
time (0.0028 sd 0.000629, p=1.01e-05, q=0.000118)



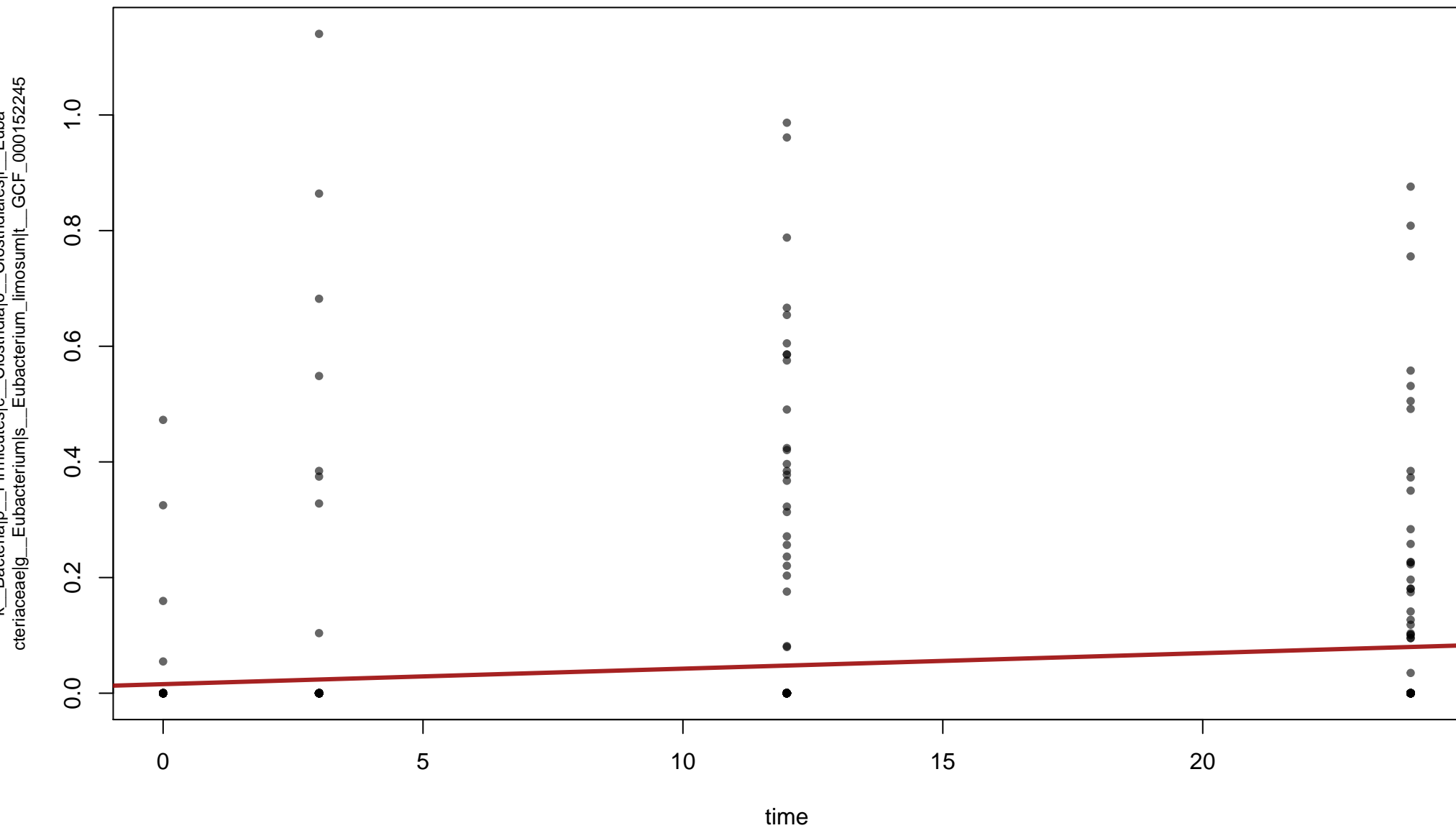
**time (0.0028 sd 0.000629, p=1.01e-05, q=0.000118)**



time (0.00268 sd 0.000637, p=2.99e-05, q=0.000345)

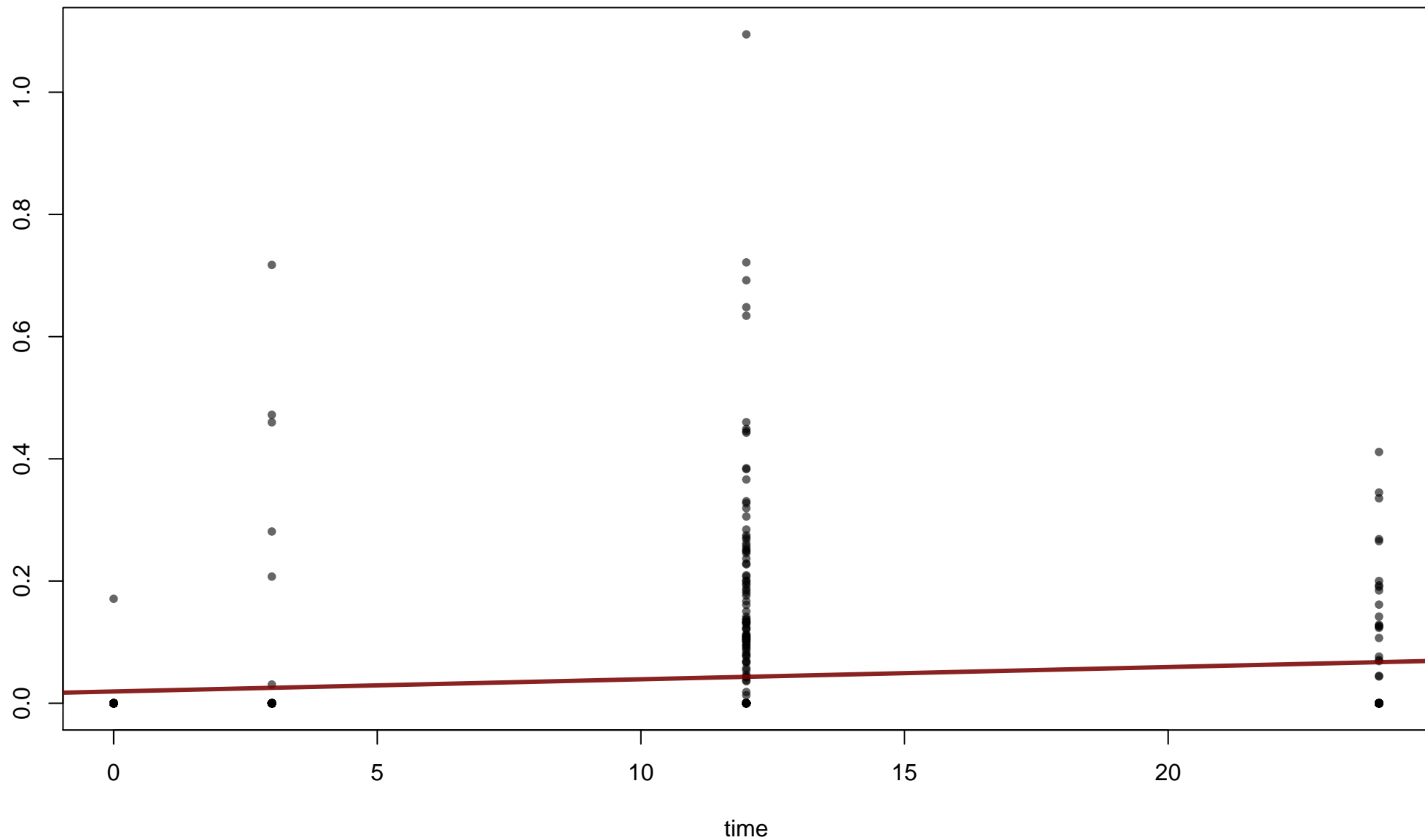


time (0.00268 sd 0.000637, p=2.99e-05, q=0.000345)



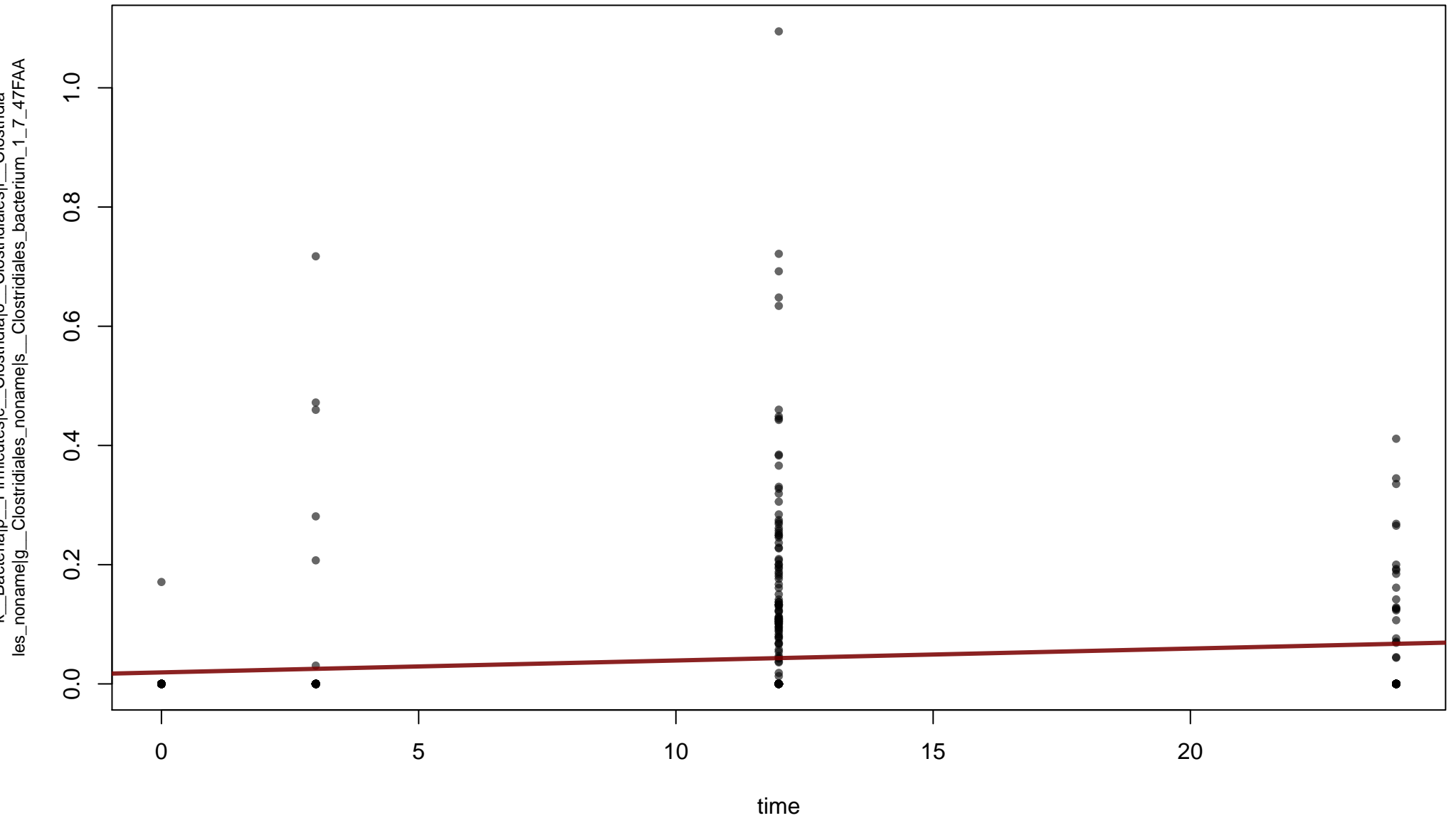
time (0.002 sd 0.00048, p=3.63e-05, q=0.000414)

k\_Bacteria|p\_Firmicutes|c\_Clostridia|o\_Clostridiales|f\_Clostridiales\_noname|g\_Clostridiales\_noname

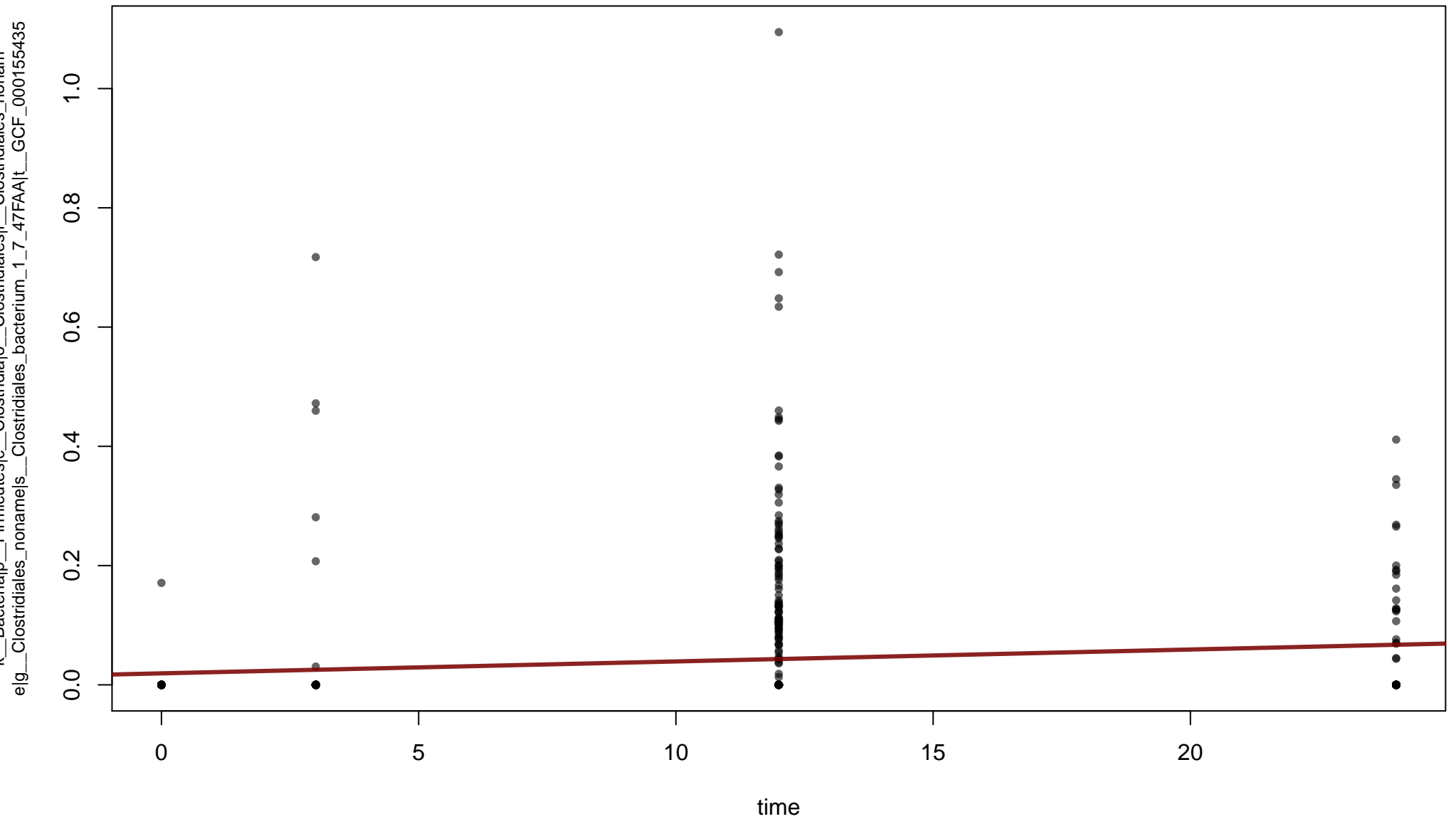




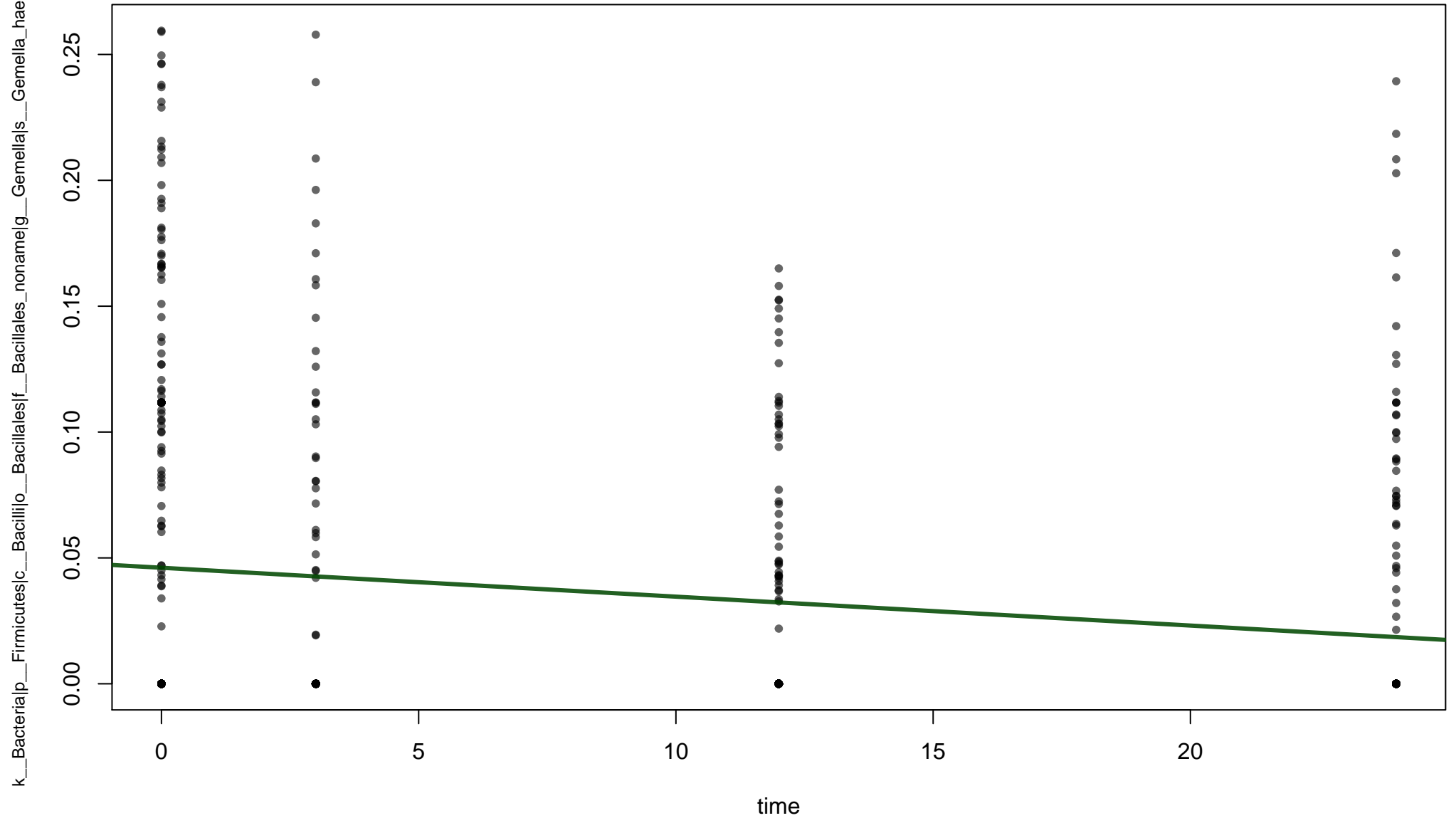
time (0.002 sd 0.00048, p=3.63e-05, q=0.000414)



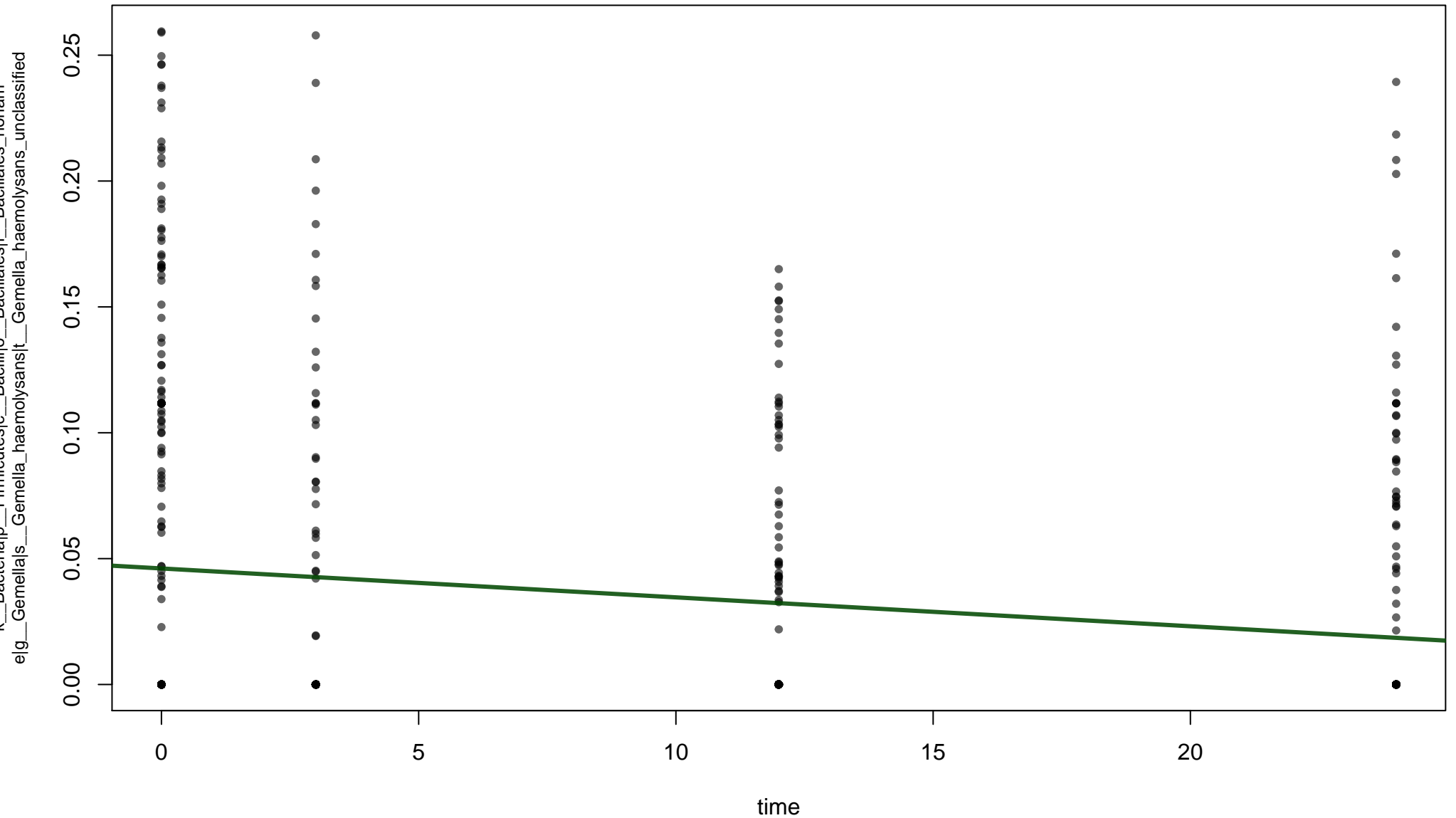
time (0.002 sd 0.00048, p=3.63e-05, q=0.000414)



**time (−0.00115 sd 0.000276, p=3.77e−05, q=0.000427)**

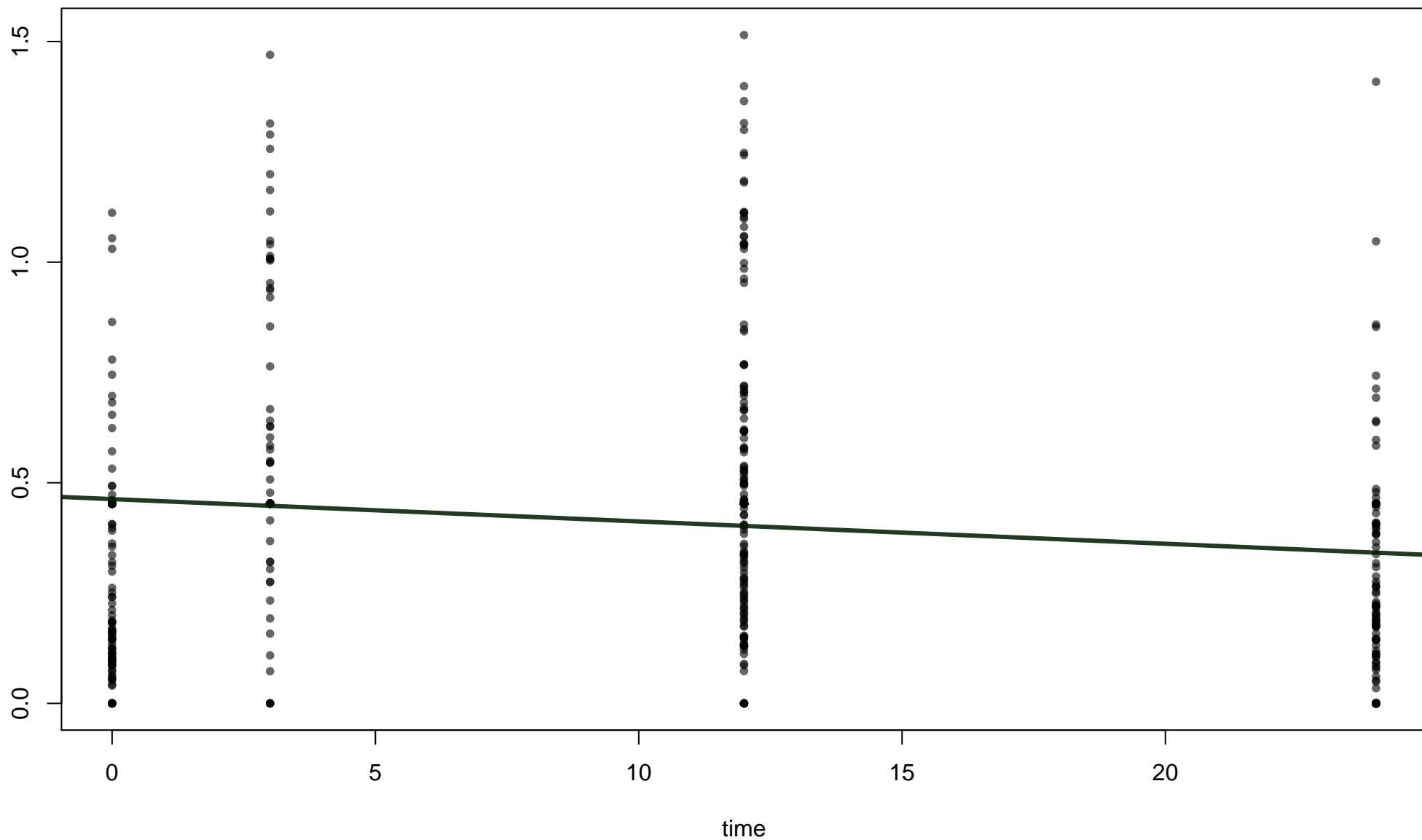


**time (−0.00115 sd 0.000276, p=3.77e−05, q=0.000427)**



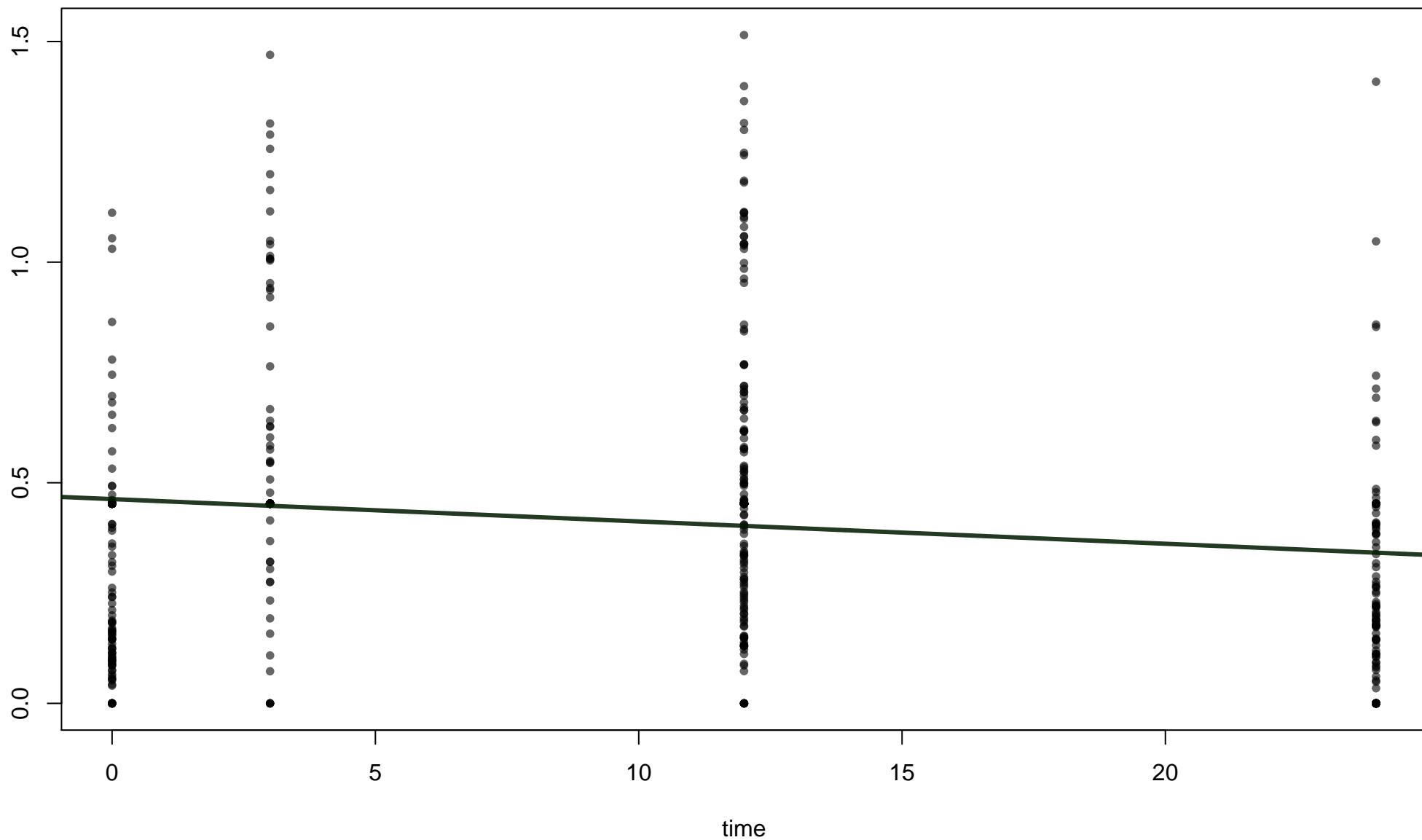
time ( $-0.00506$  sd  $0.00122$ ,  $p=3.9e-05$ ,  $q=0.000439$ )

k\_\_Bacteria|p\_\_Proteobacteria|c\_\_Gammaproteobacteria|o\_\_Enterobacteriales

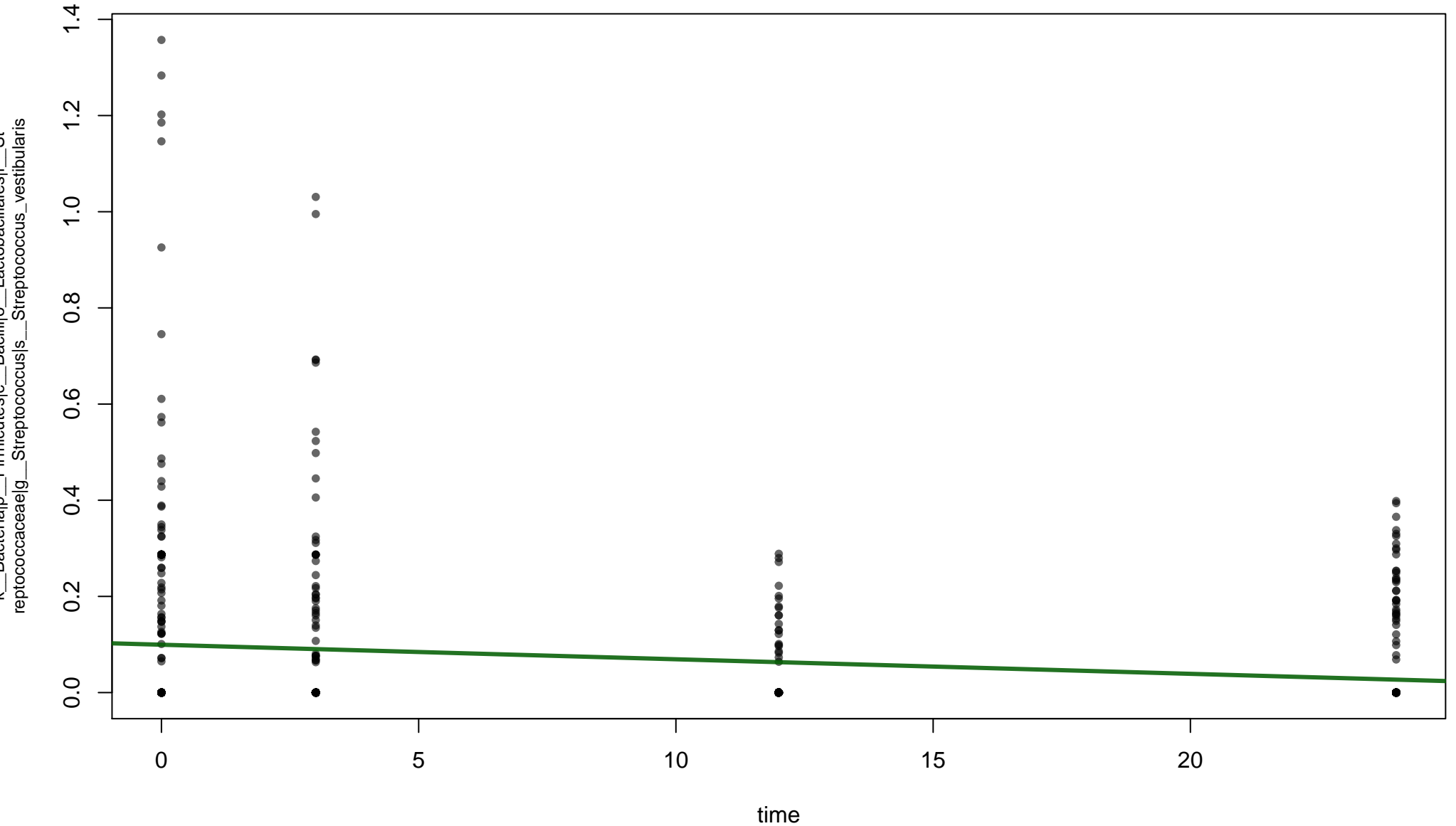


time ( $-0.00506$  sd  $0.00122$ ,  $p=3.9e-05$ ,  $q=0.000439$ )

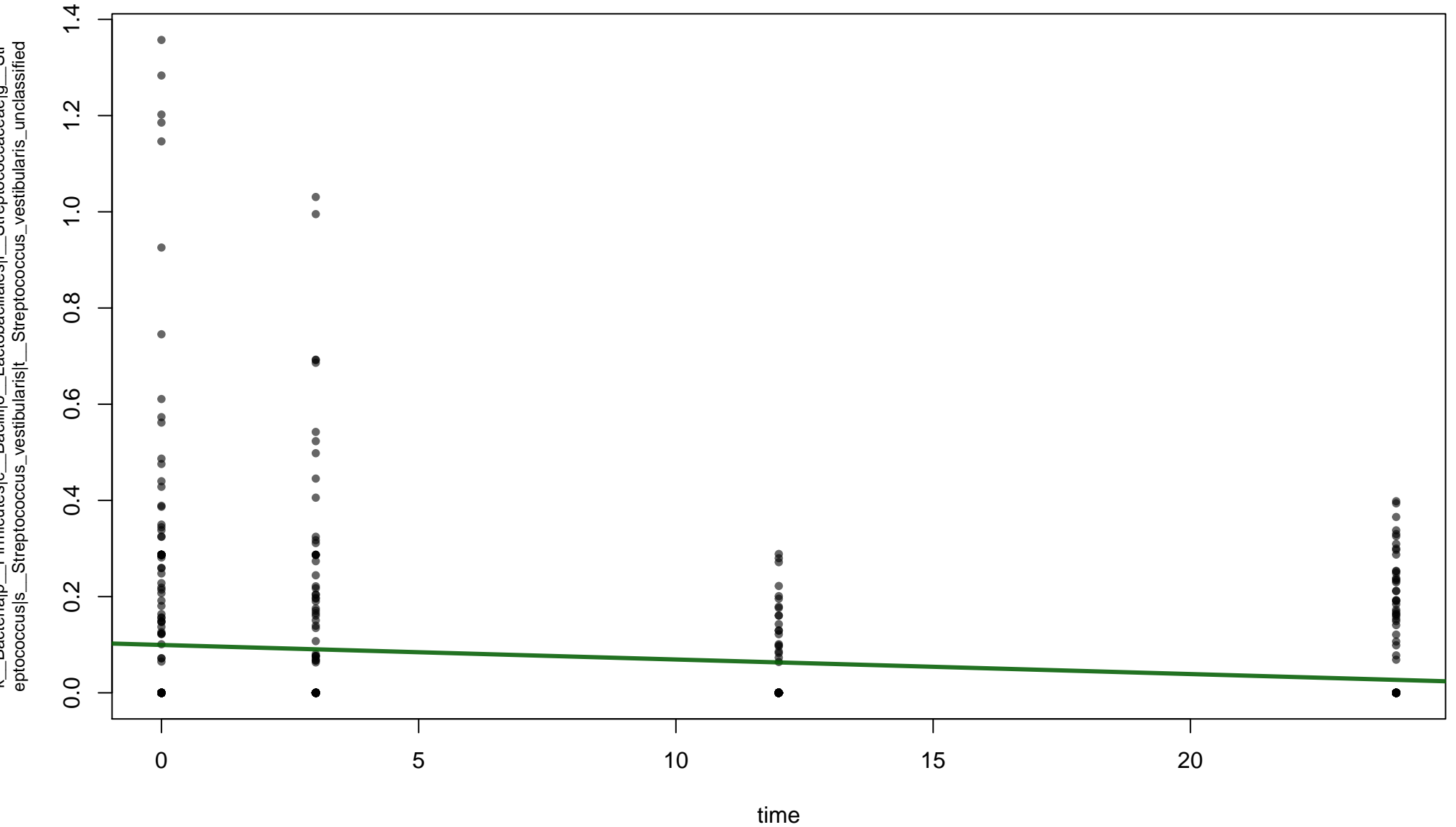
k\_Bacteria|p\_\_Proteobacteria|c\_\_Gammaproteobacteria|o\_\_Enterobacteriales|f\_\_Enterobacteriaceae



time ( $-0.00306$  sd  $0.000774$ ,  $p=8.29e-05$ ,  $q=0.000923$ )

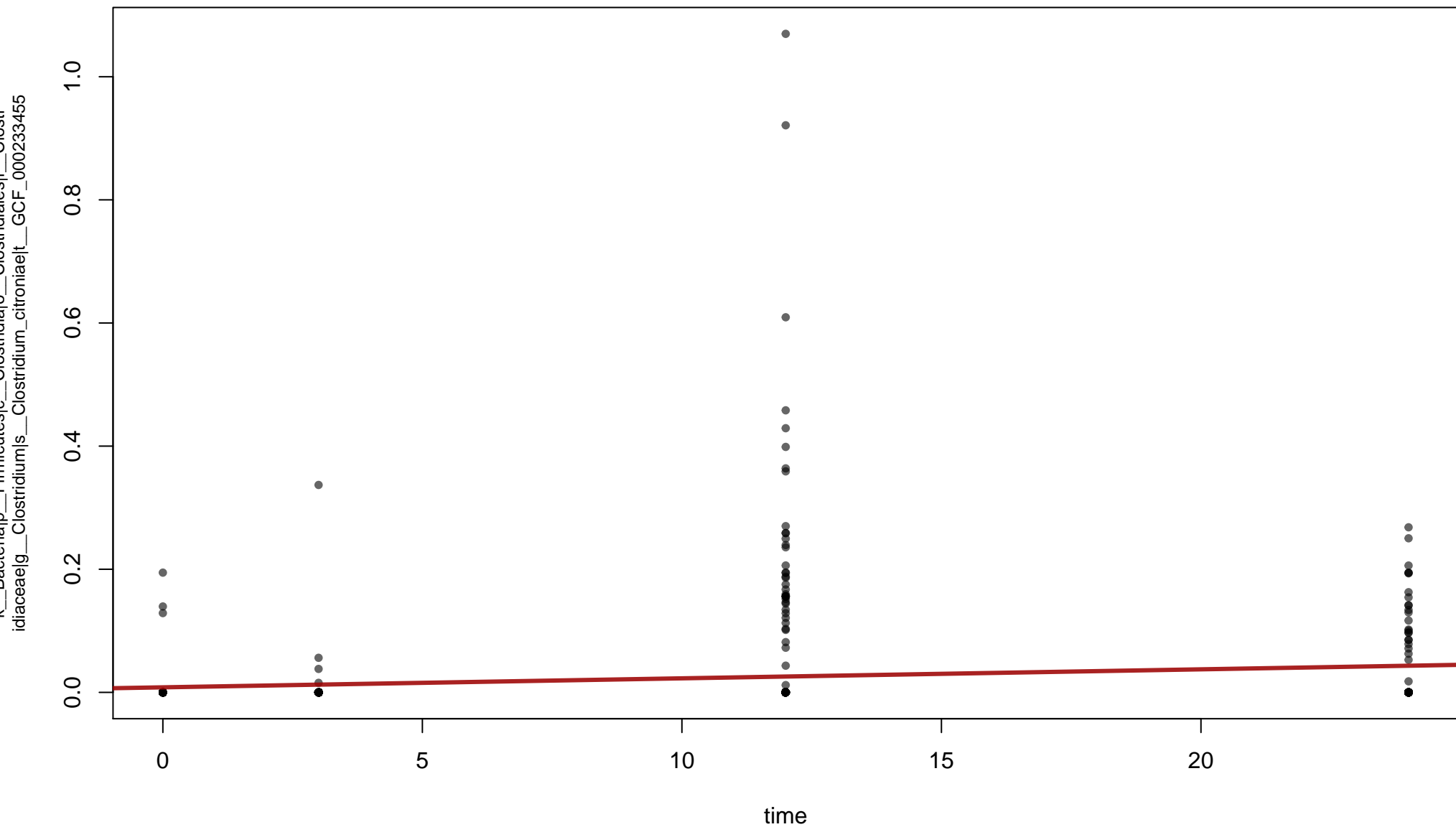


**time (−0.00304 sd 0.000774, p=9.52e−05, q=0.00106)**

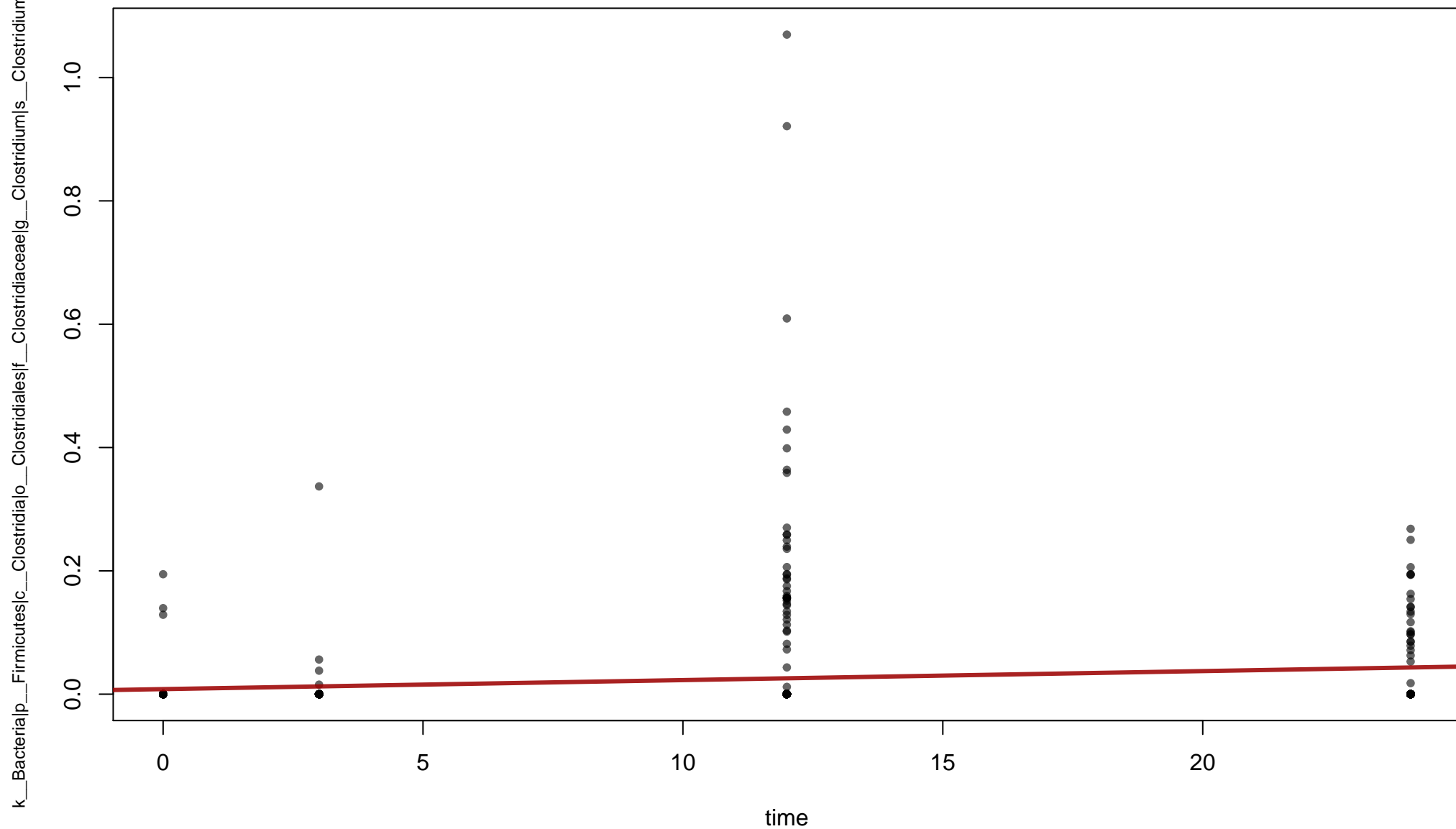




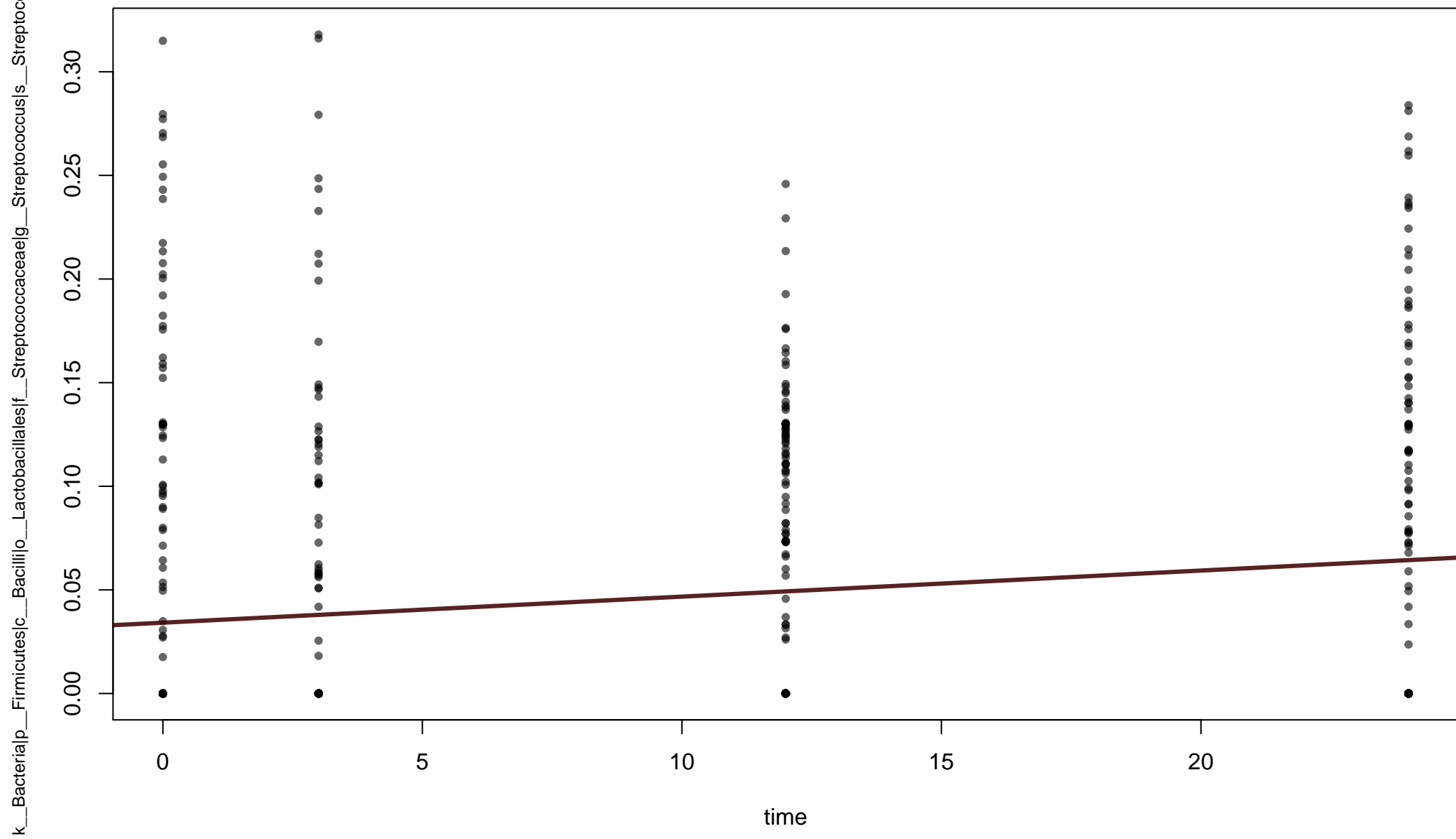
time (0.00147 sd 0.000375, p=9.84e-05, q=0.00109)



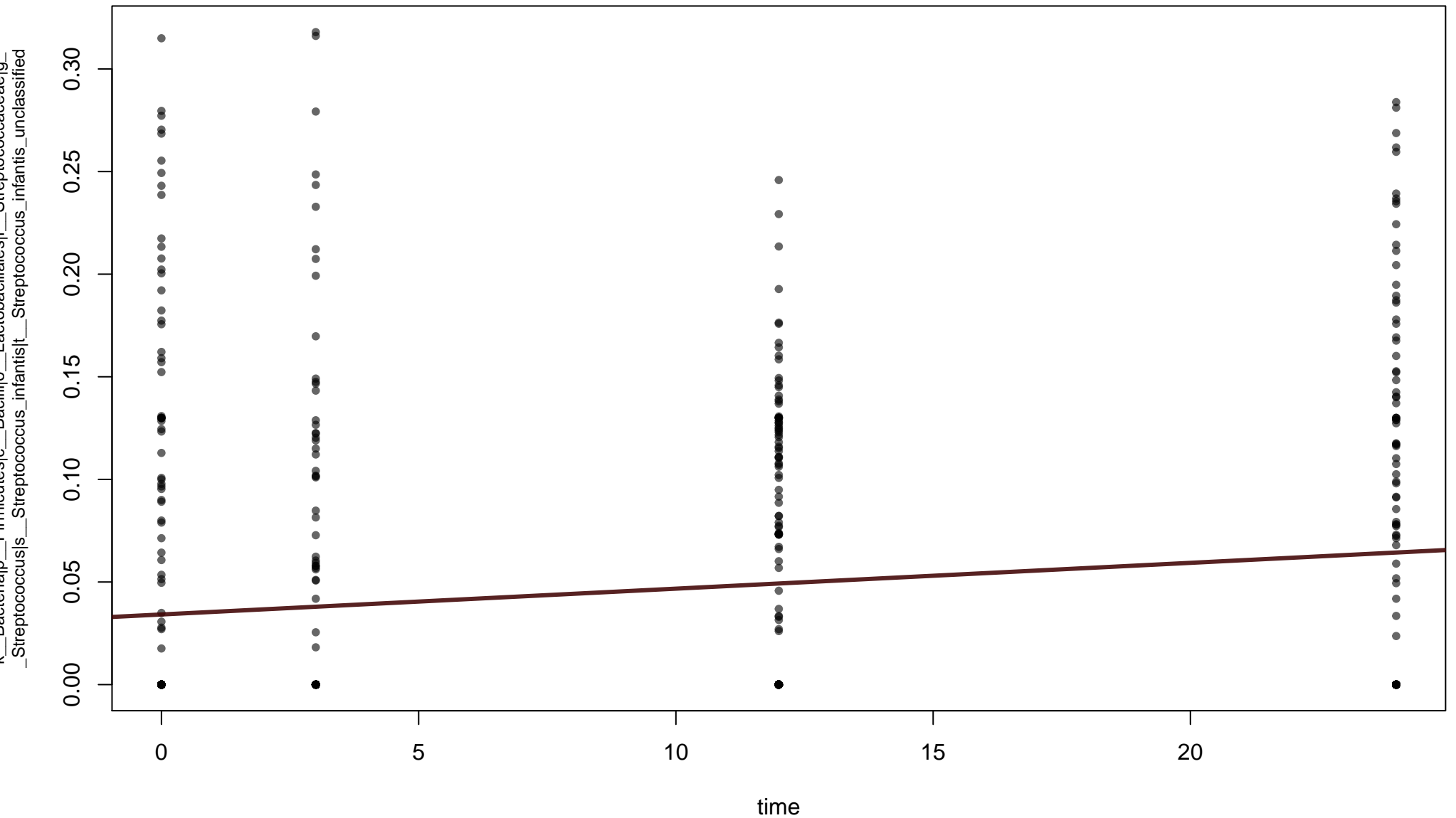
time (0.00146 sd 0.000374, p=0.000106, q=0.00116)



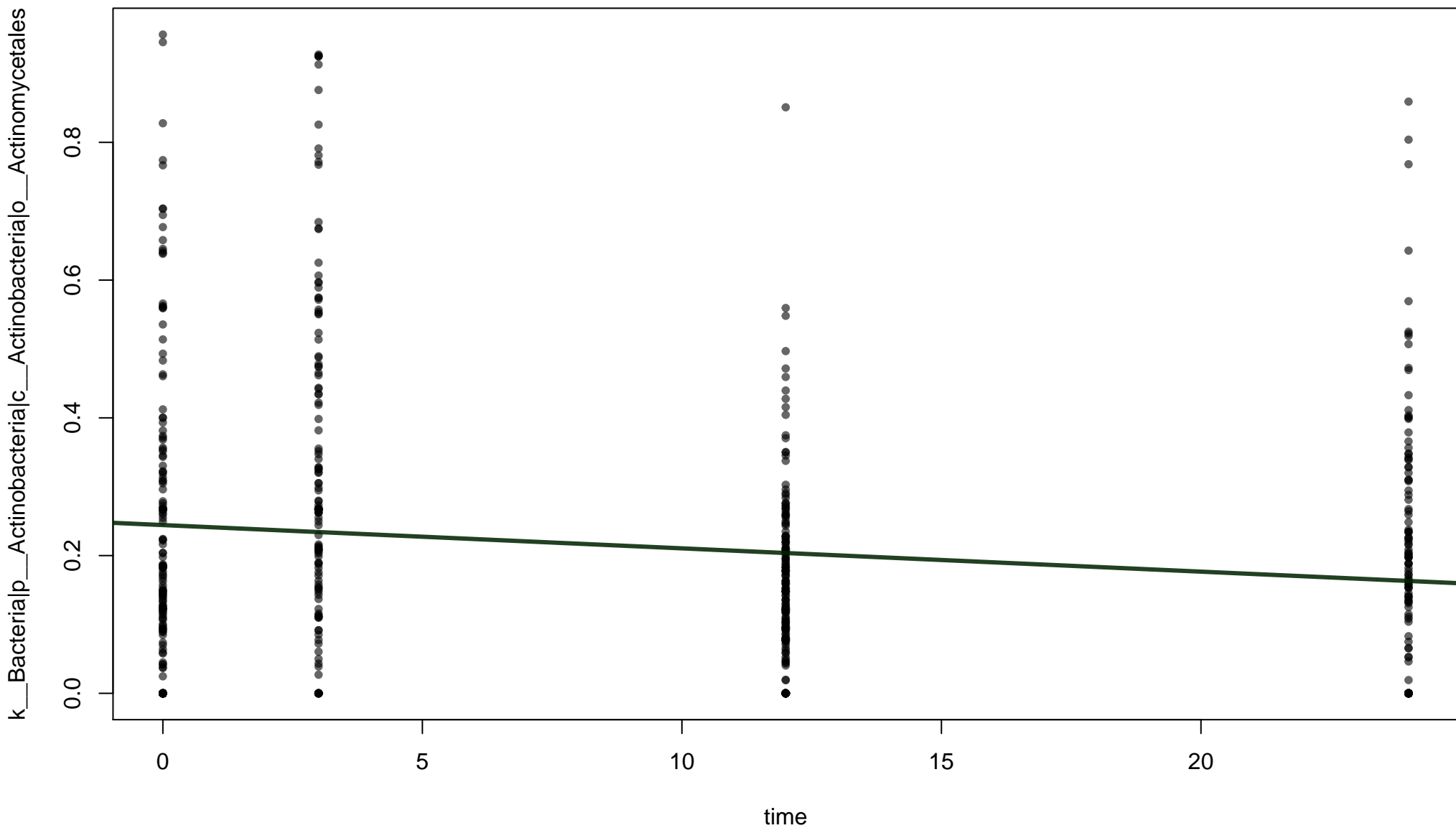
time (0.00126 sd 0.000329, p=0.000139, q=0.00153)



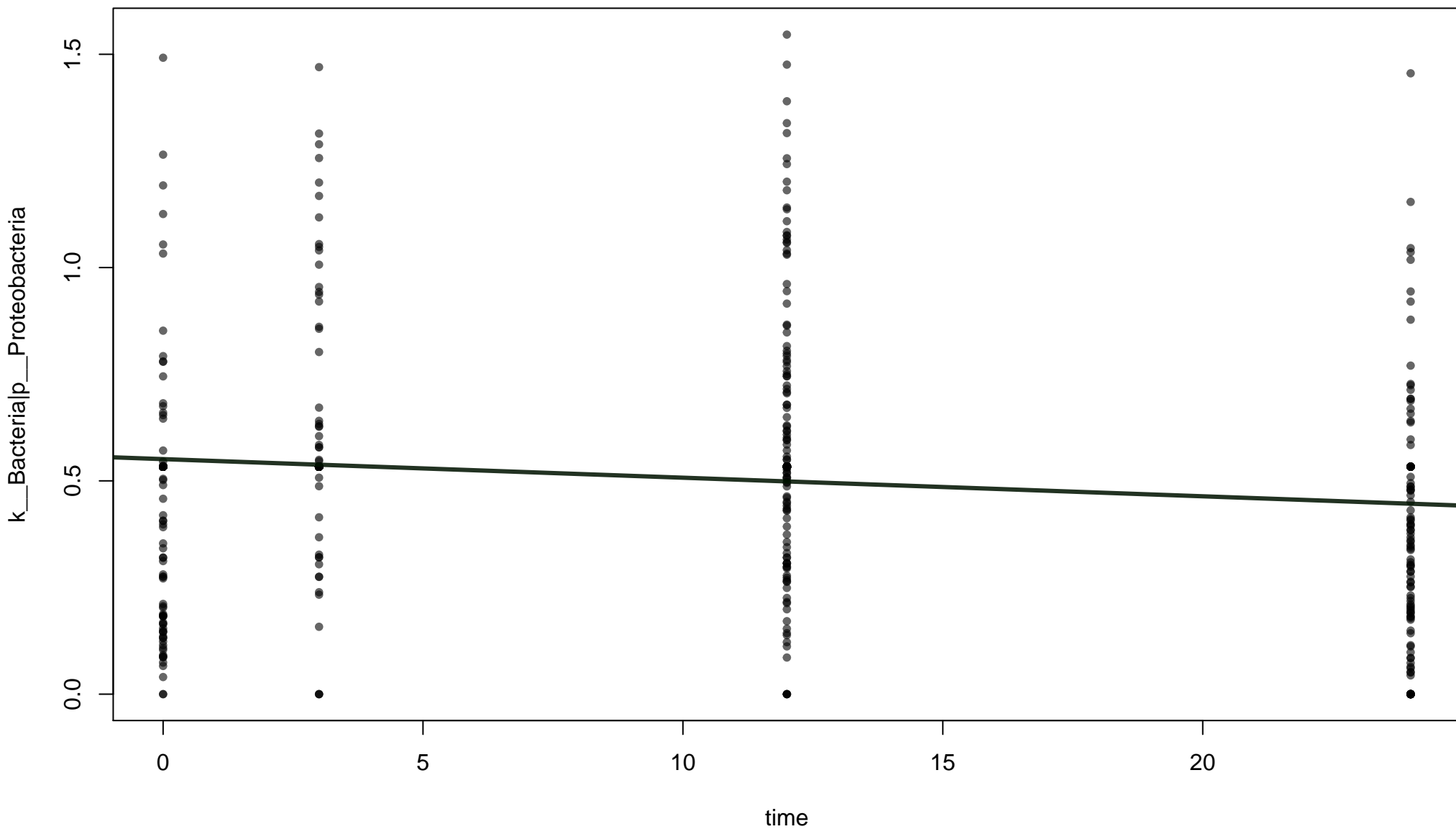
time (0.00126 sd 0.00033, p=0.00014, q=0.00153)



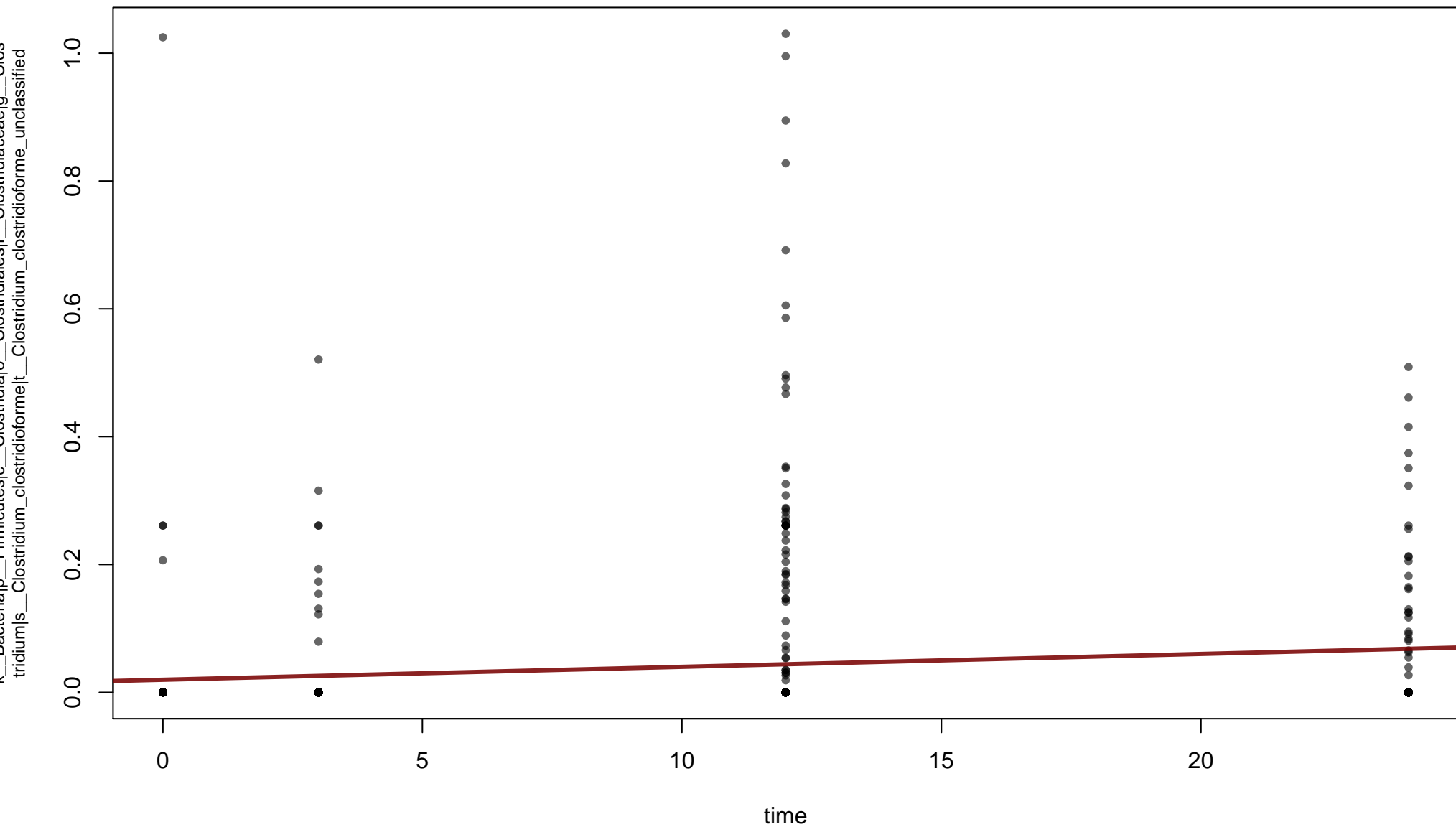
time ( $-0.00338$  sd  $0.000889$ ,  $p=0.000153$ ,  $q=0.00167$ )



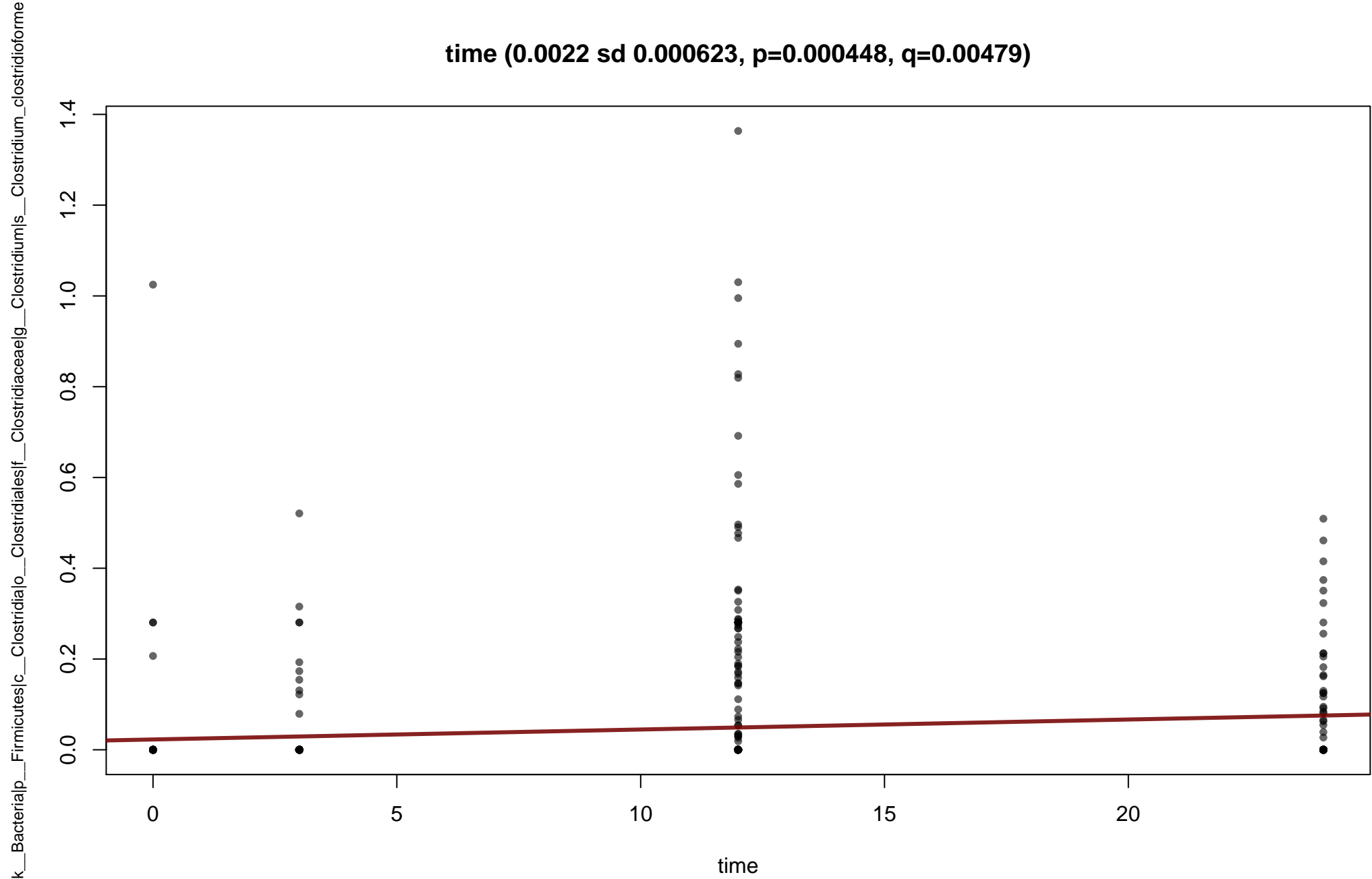
time ( $-0.00436$  sd  $0.00116$ ,  $p=0.000194$ ,  $q=0.00211$ )



time (0.00202 sd 0.000555, p=0.000299, q=0.00323)

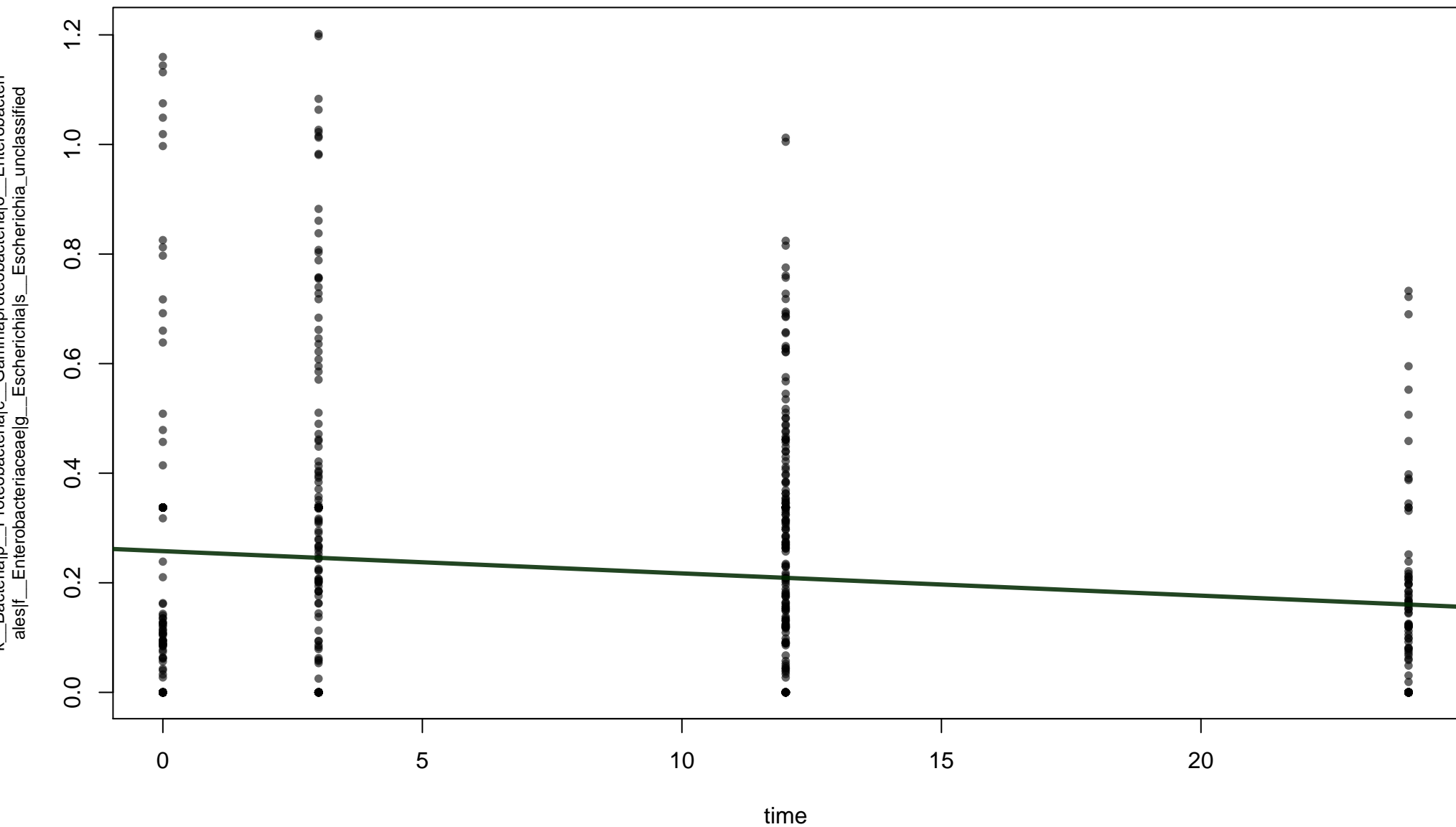


time (0.0022 sd 0.000623, p=0.000448, q=0.00479)

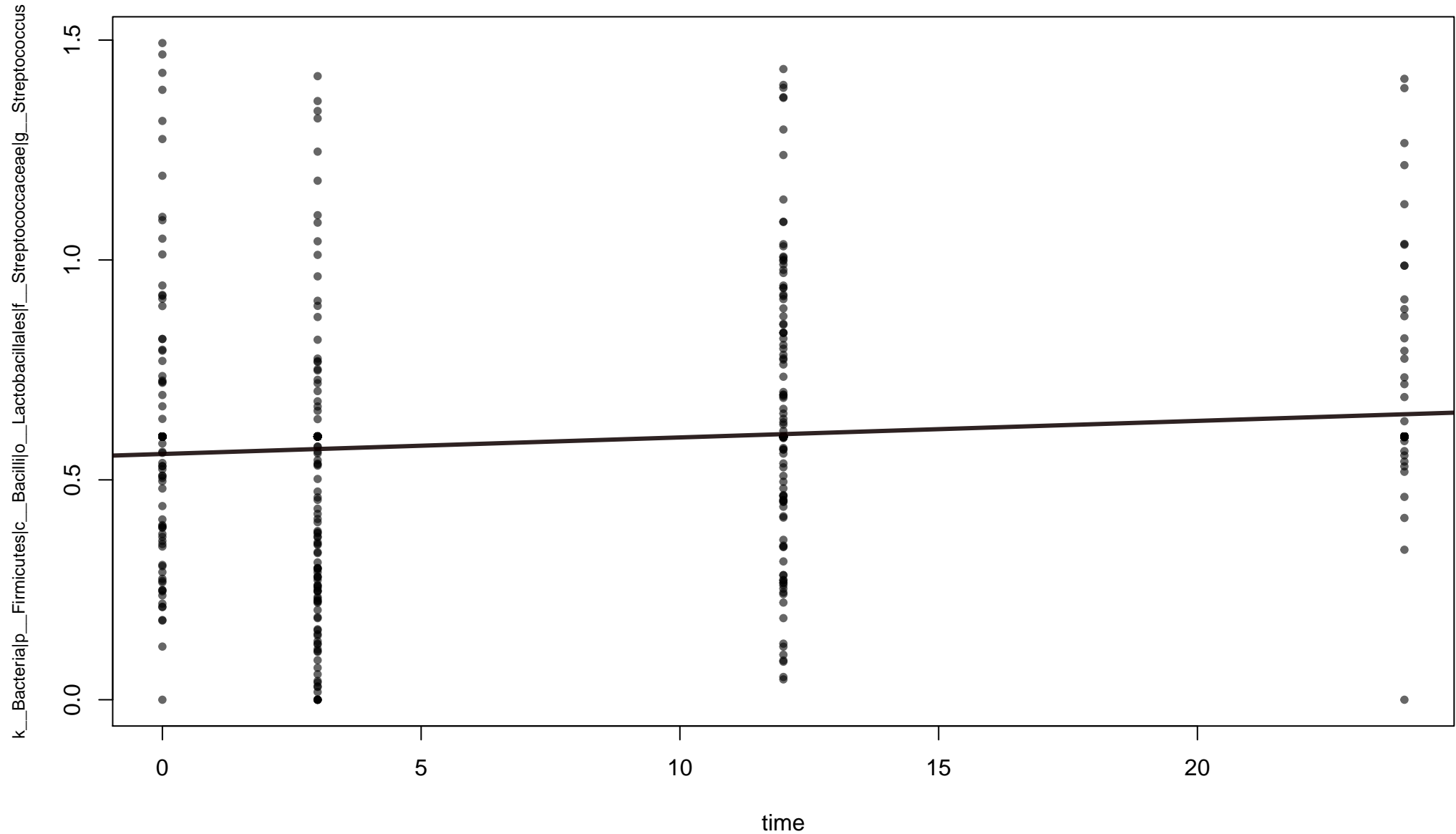




time (-0.00407 sd 0.00116, p=0.000479, q=0.00507)

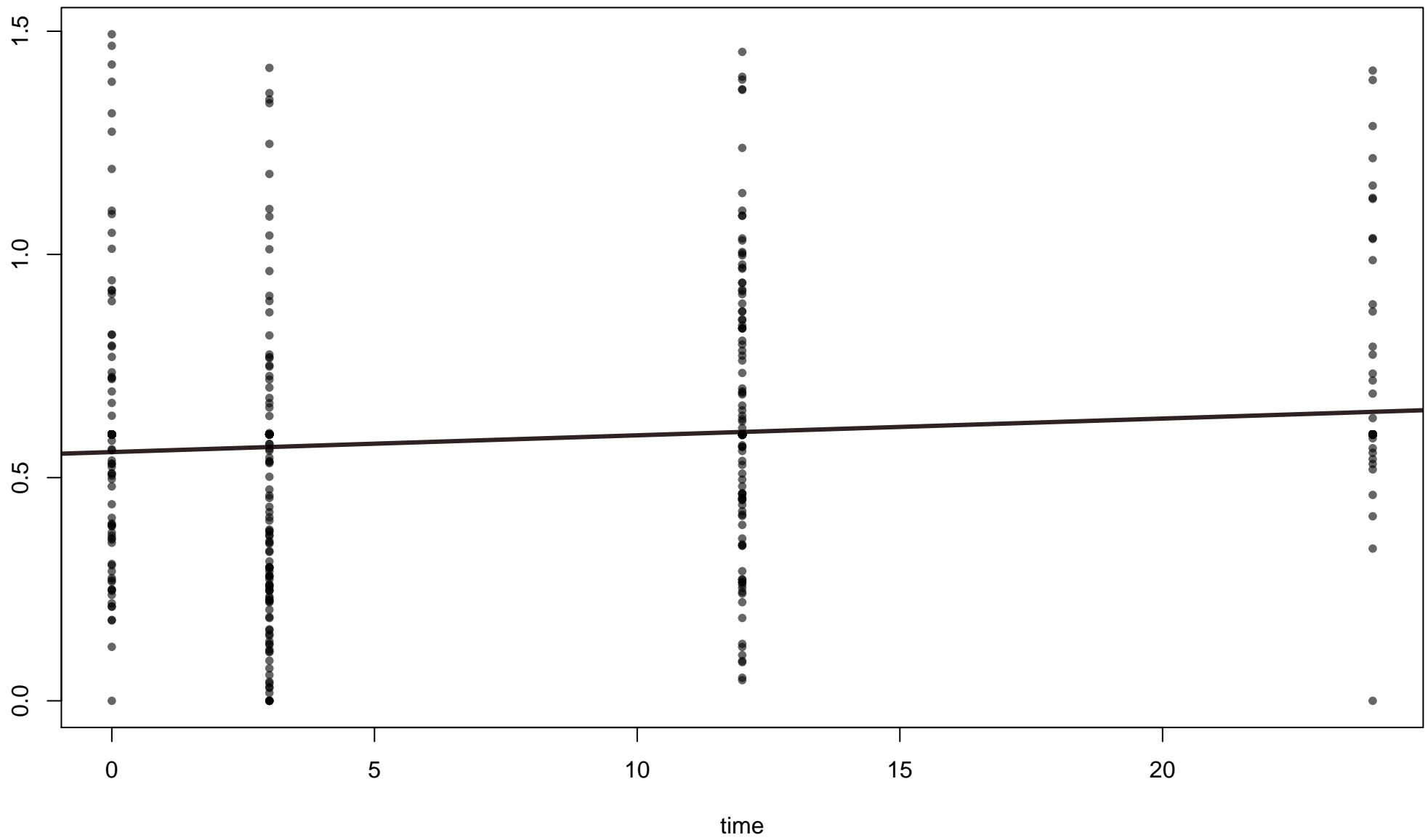


time (0.00375 sd 0.00111, p=0.000778, q=0.00814)

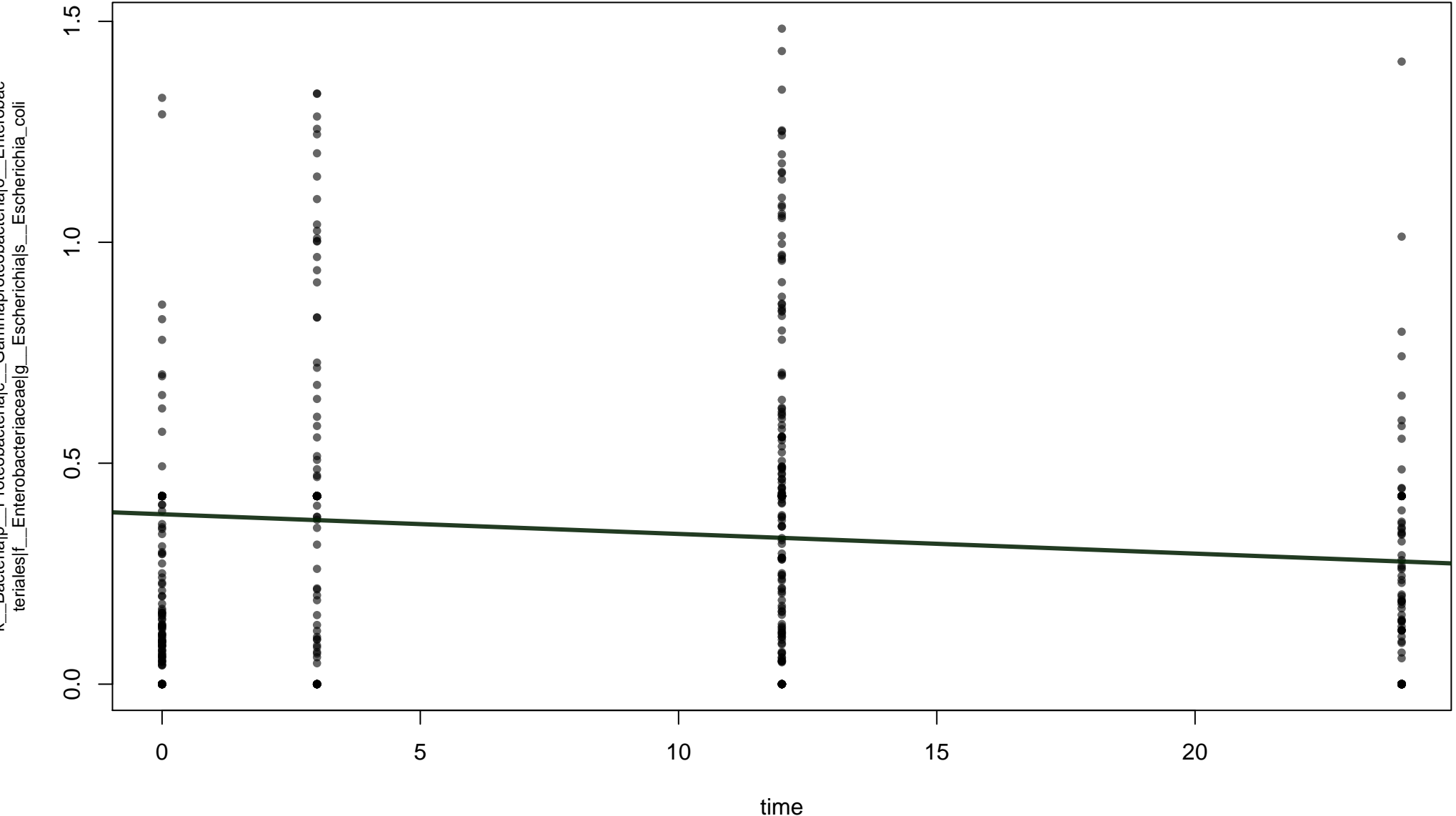


time (0.00372 sd 0.00111, p=0.000822, q=0.00858)

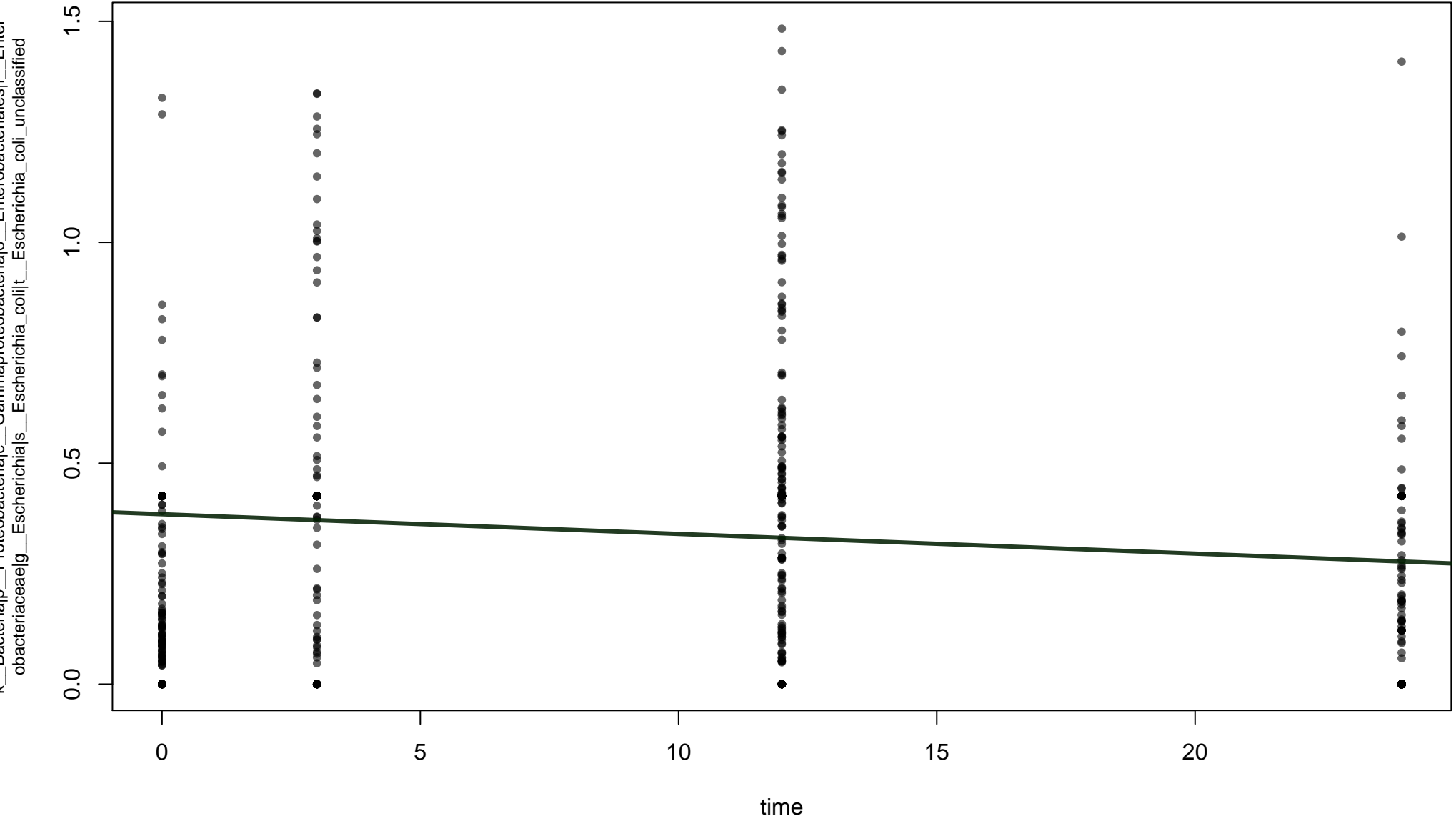
k\_\_Bacteria|p\_\_Firmicutes|c\_\_Bacilli|o\_\_Lactobacillales|f\_\_Streptococcaceae



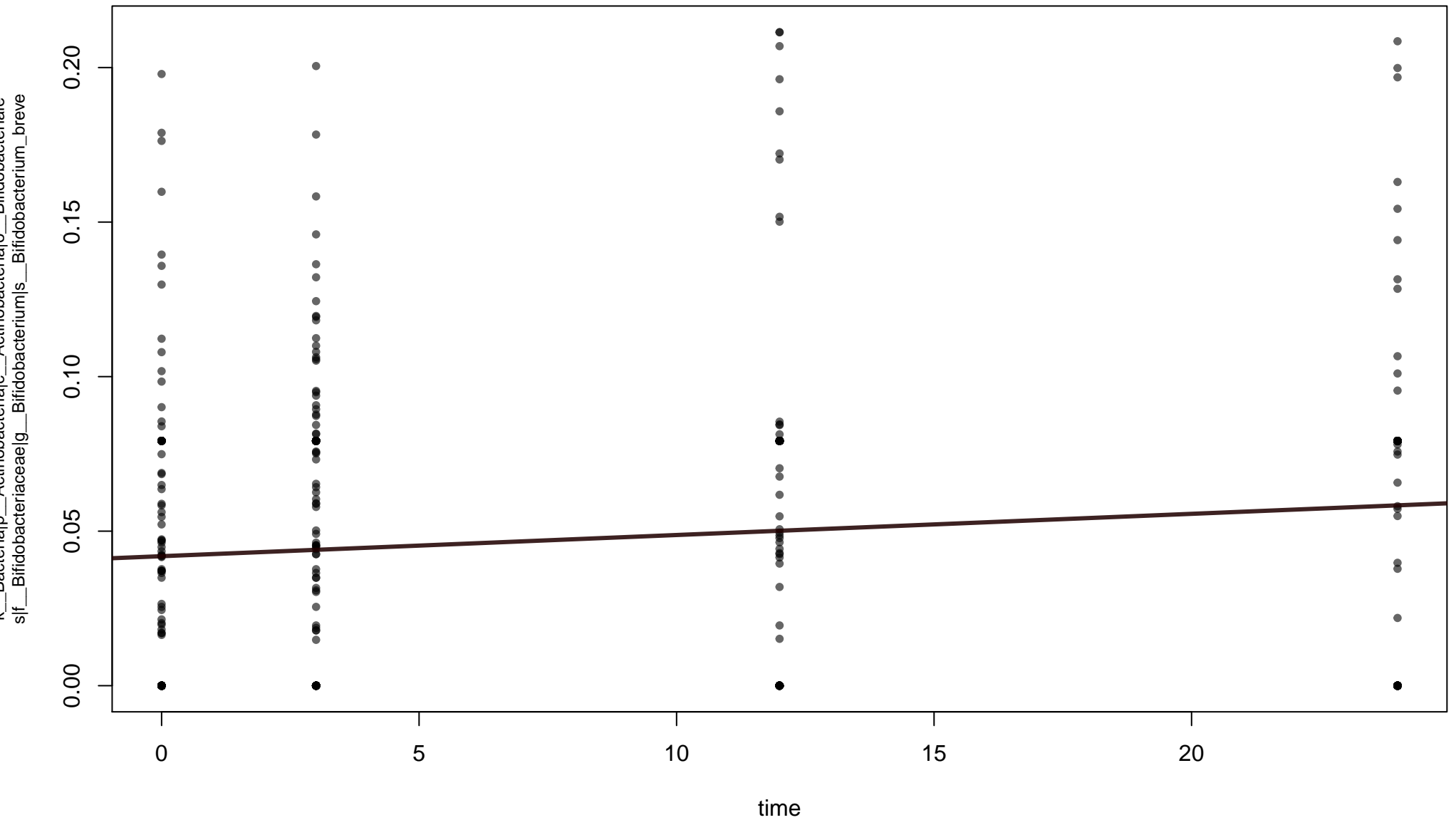
time (-0.00442 sd 0.00134, p=0.00106, q=0.011)



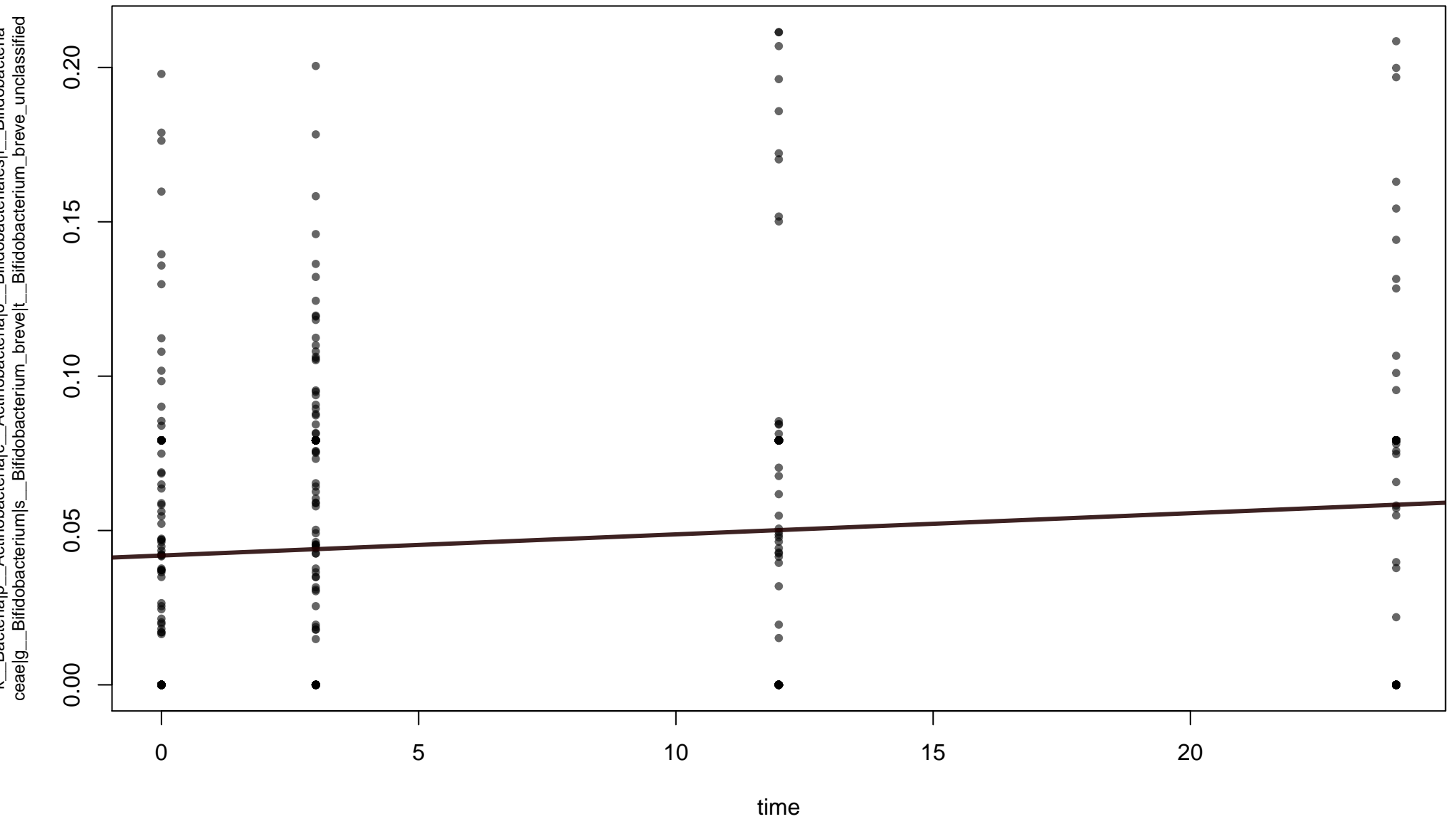
time (-0.00442 sd 0.00134, p=0.00106, q=0.011)



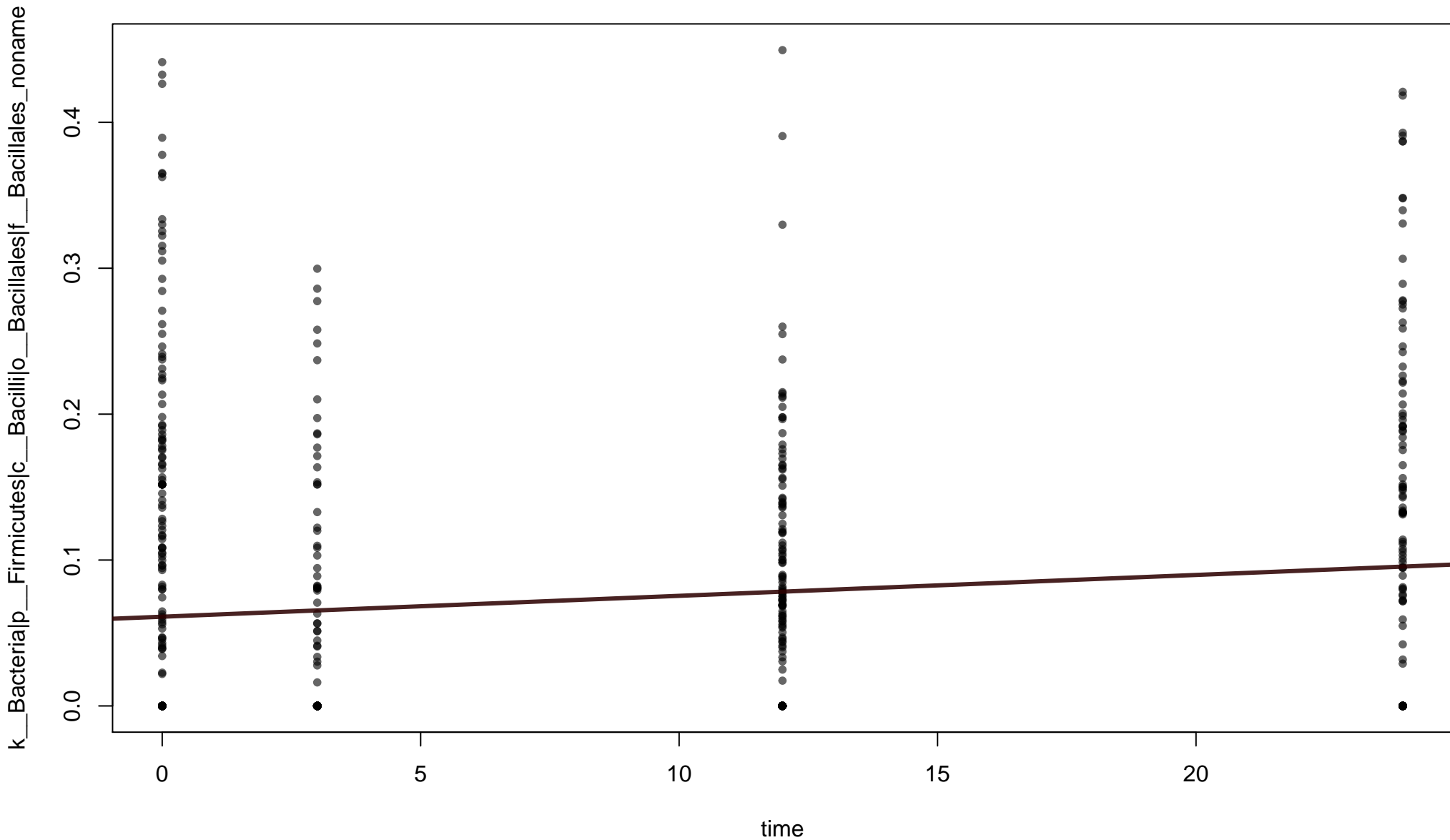
time (0.000679 sd 0.000209, p=0.0012, q=0.0124)



**time (0.000679 sd 0.000209, p=0.0012, q=0.0124)**

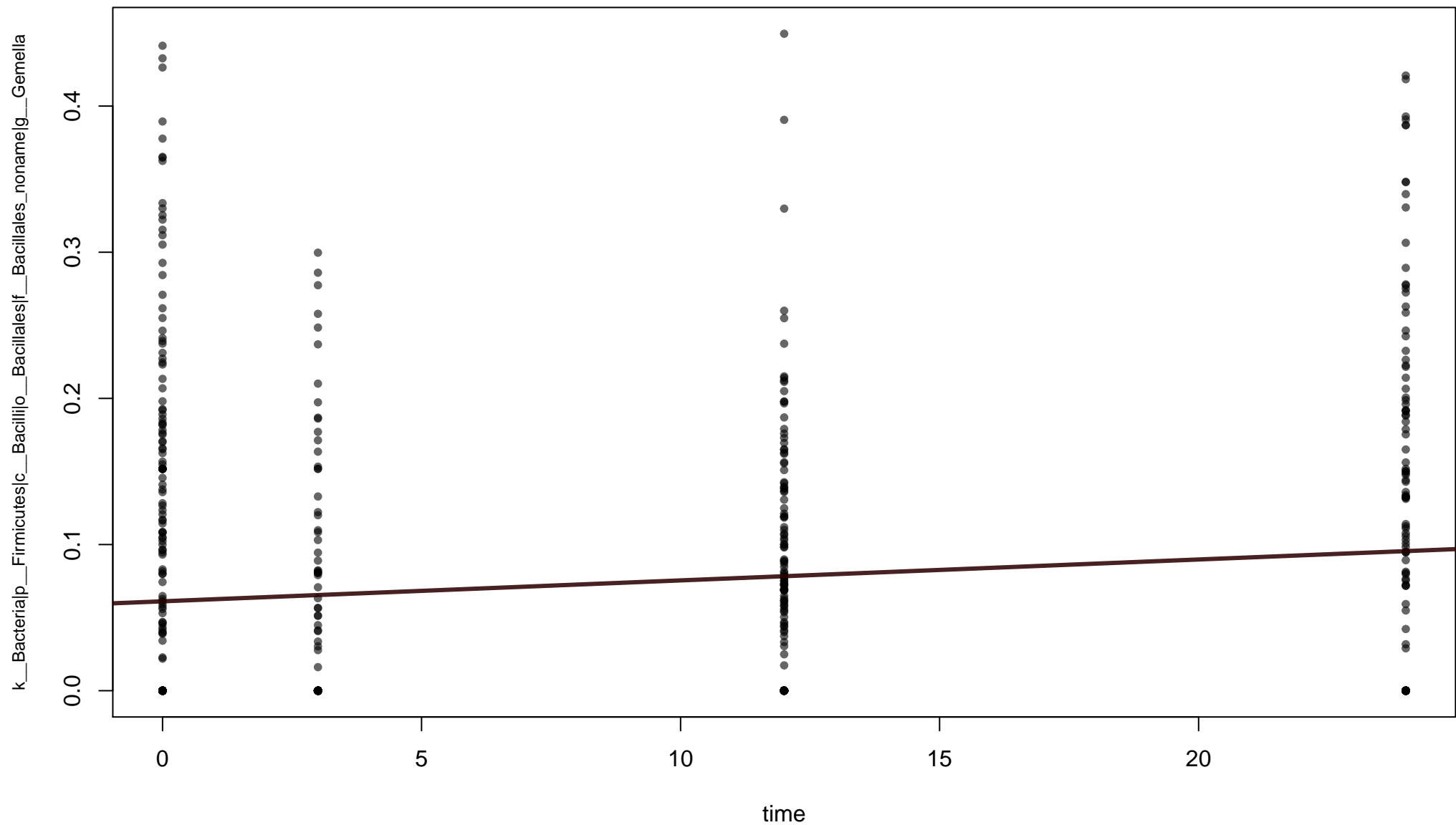


time (0.00145 sd 0.000454, p=0.00145, q=0.0147)

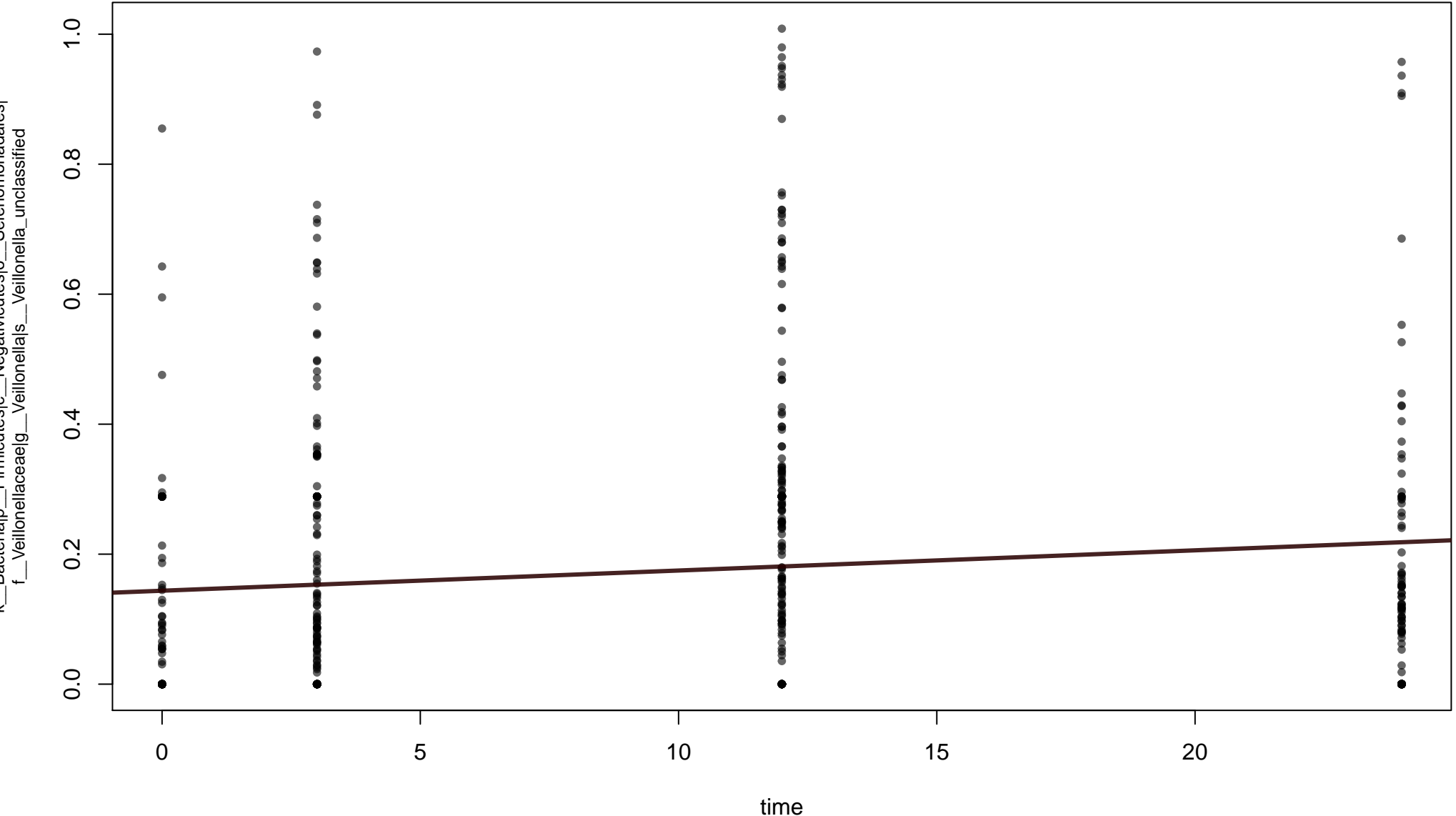




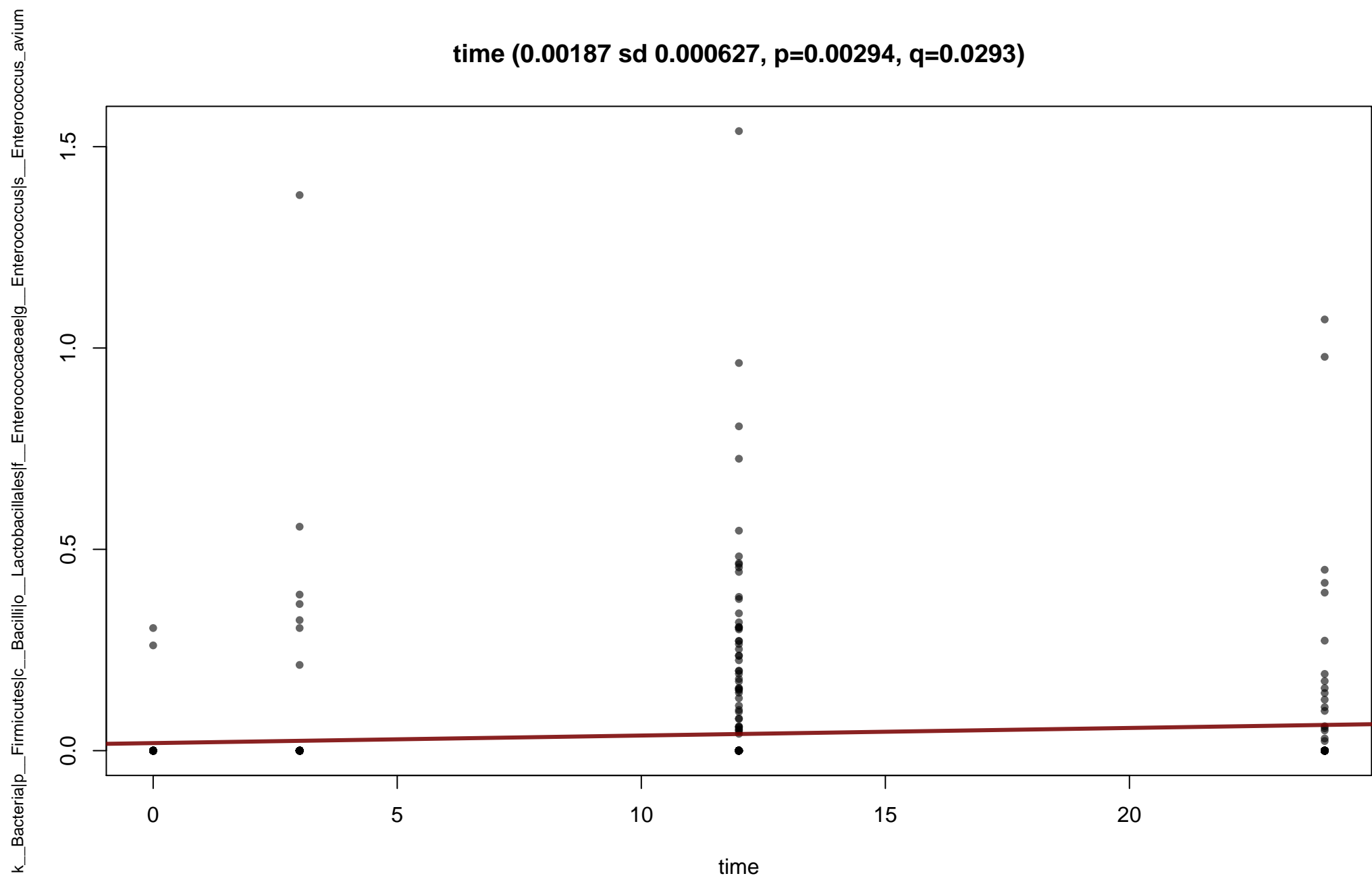
time (0.00145 sd 0.000454, p=0.00145, q=0.0147)



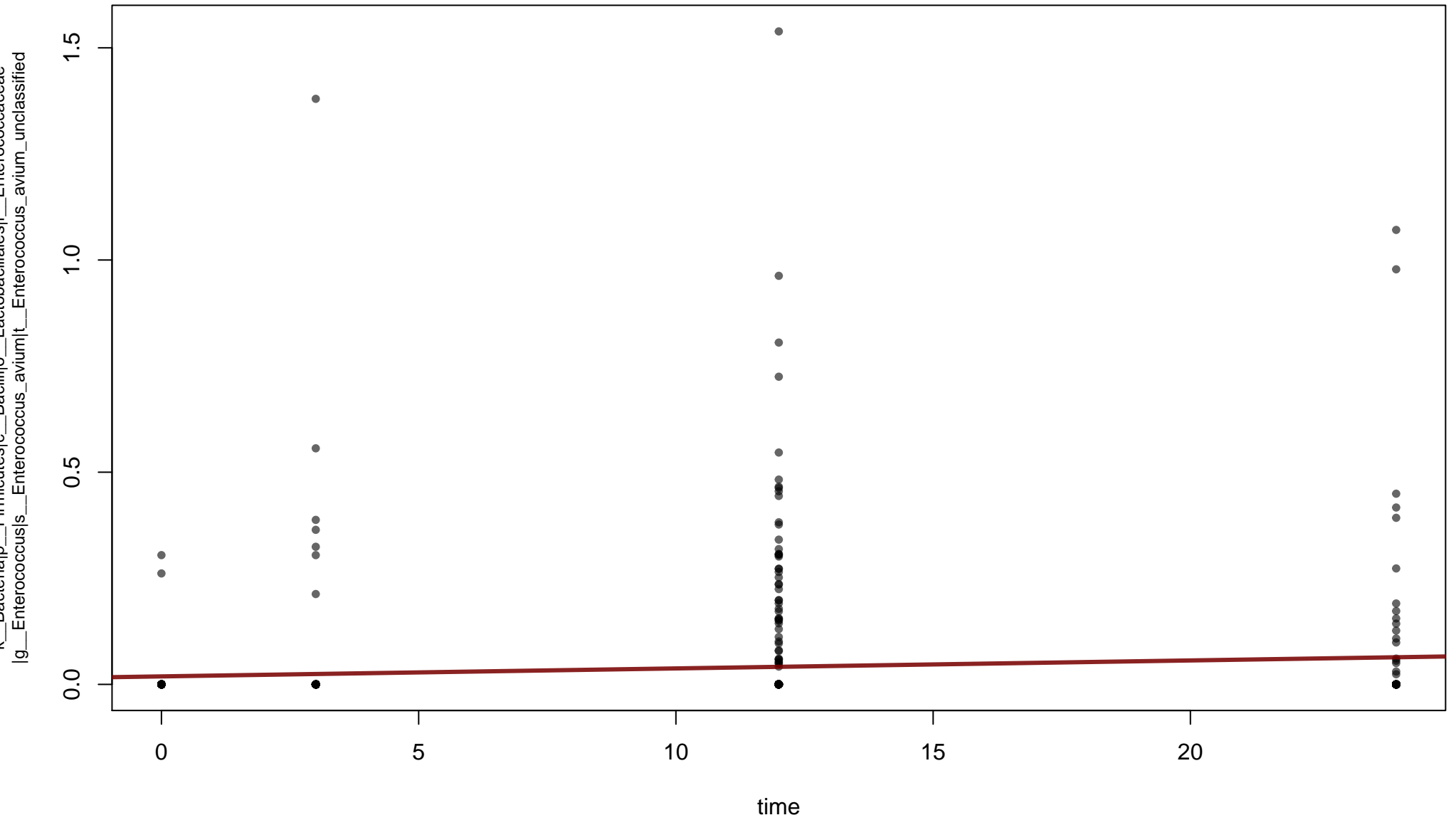
time (0.00308 sd 0.000988, p=0.0019, q=0.0192)



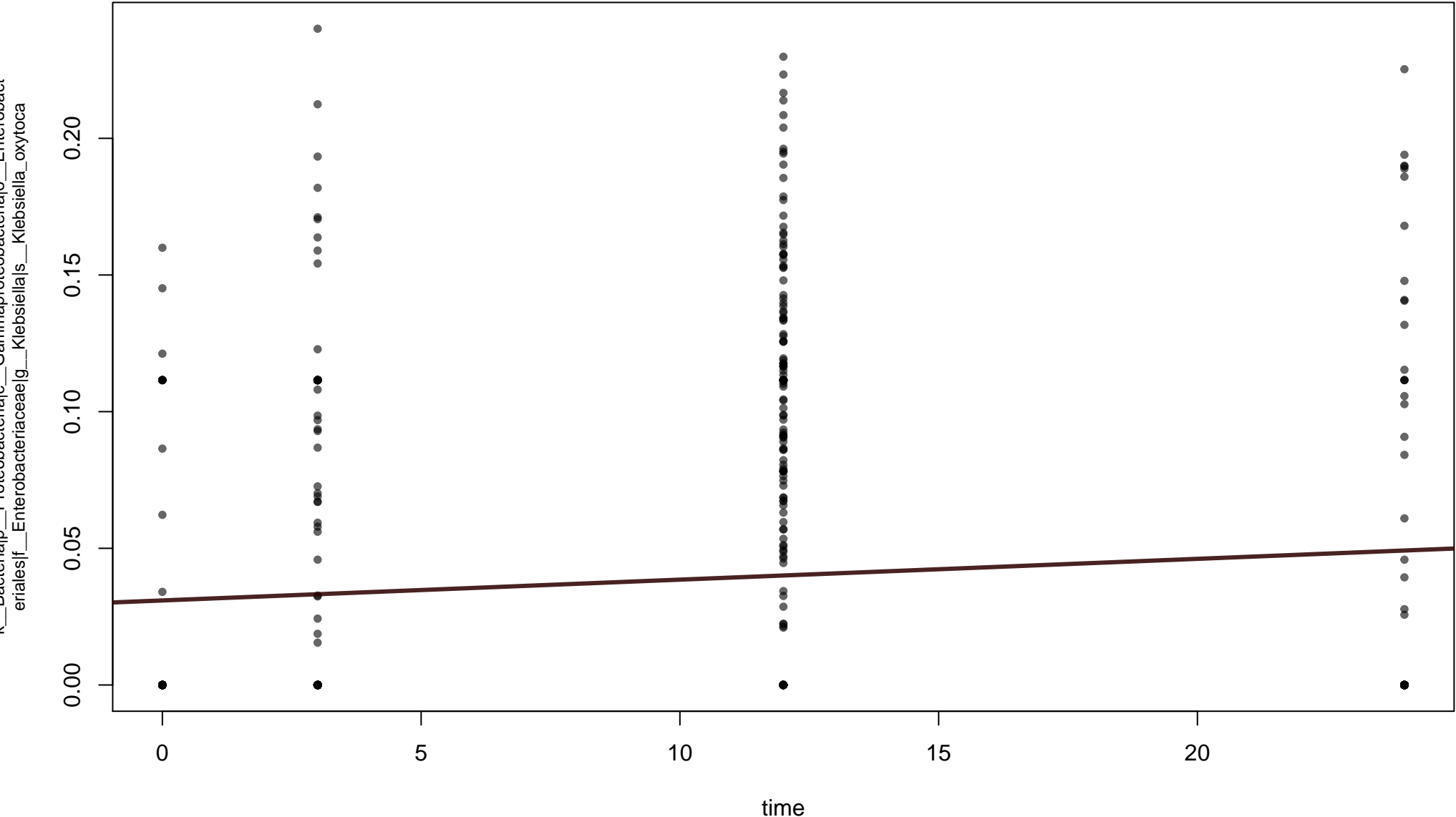
time (0.00187 sd 0.000627, p=0.00294, q=0.0293)



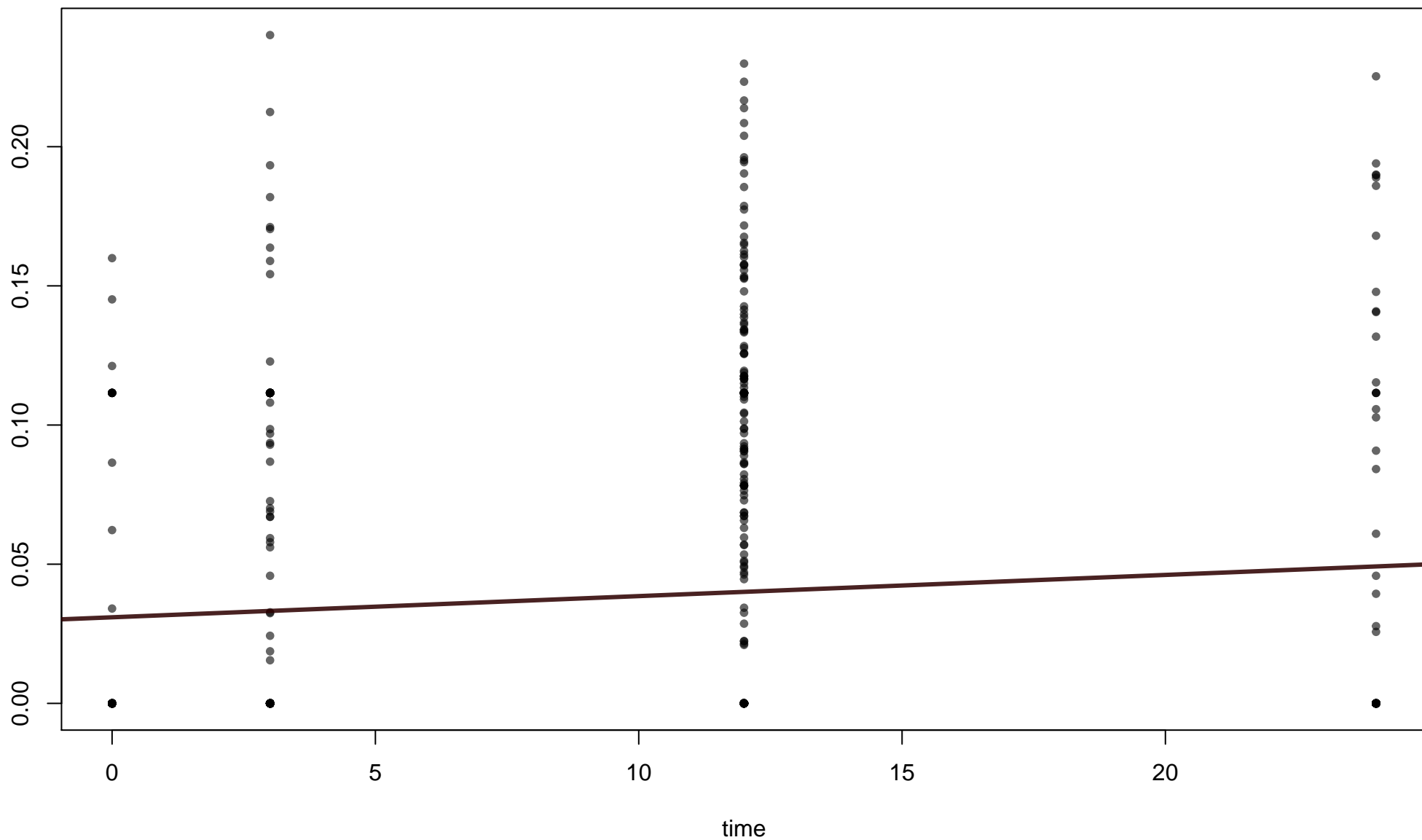
**time (0.00187 sd 0.000627, p=0.00294, q=0.0293)**



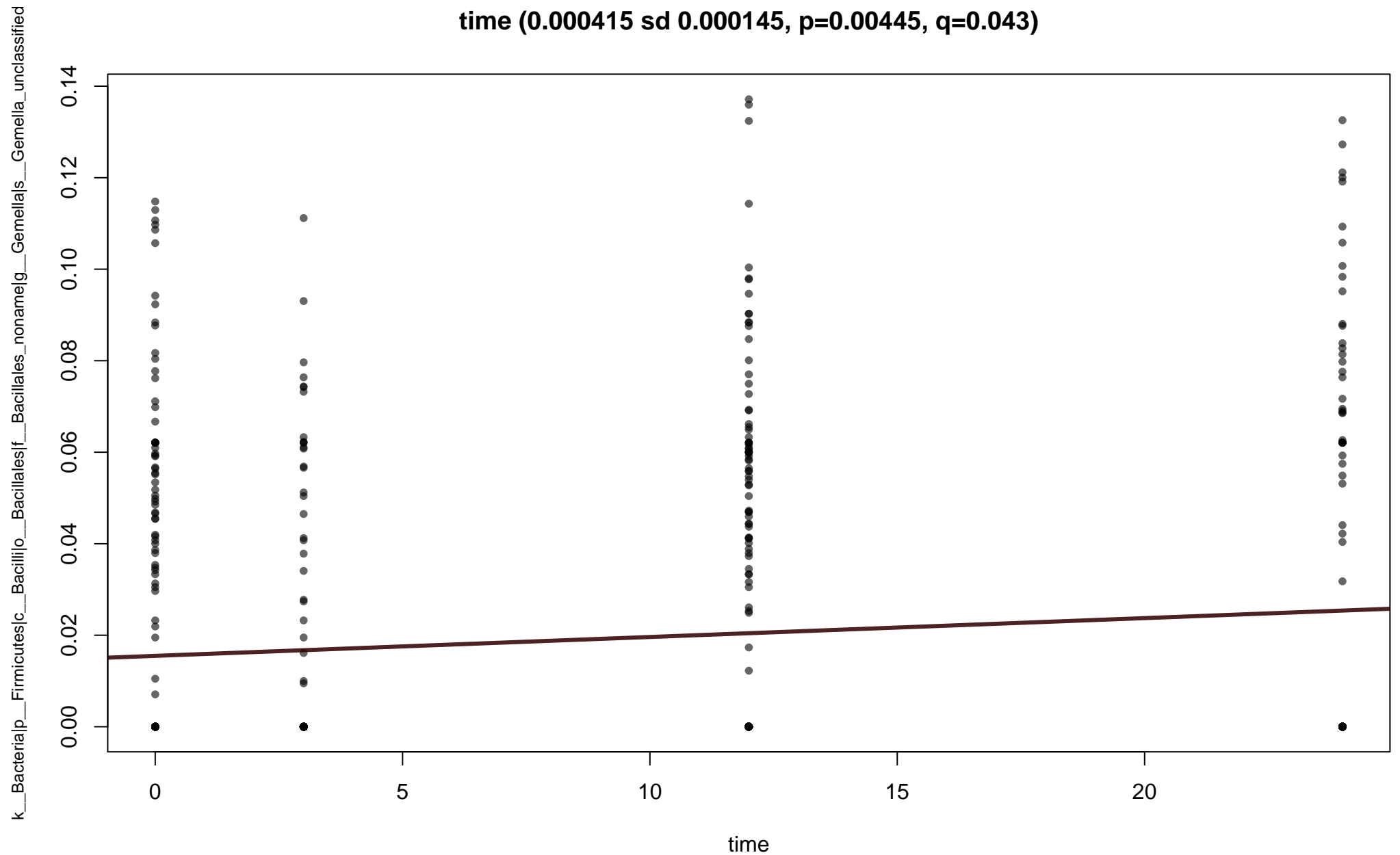
time (0.000774 sd 0.000264, p=0.00353, q=0.0344)



bacteriaceae|\_Klebsiella|\_Klebsiella\_oxytoca|\_Klebsiella\_oxytoca\_unclassified



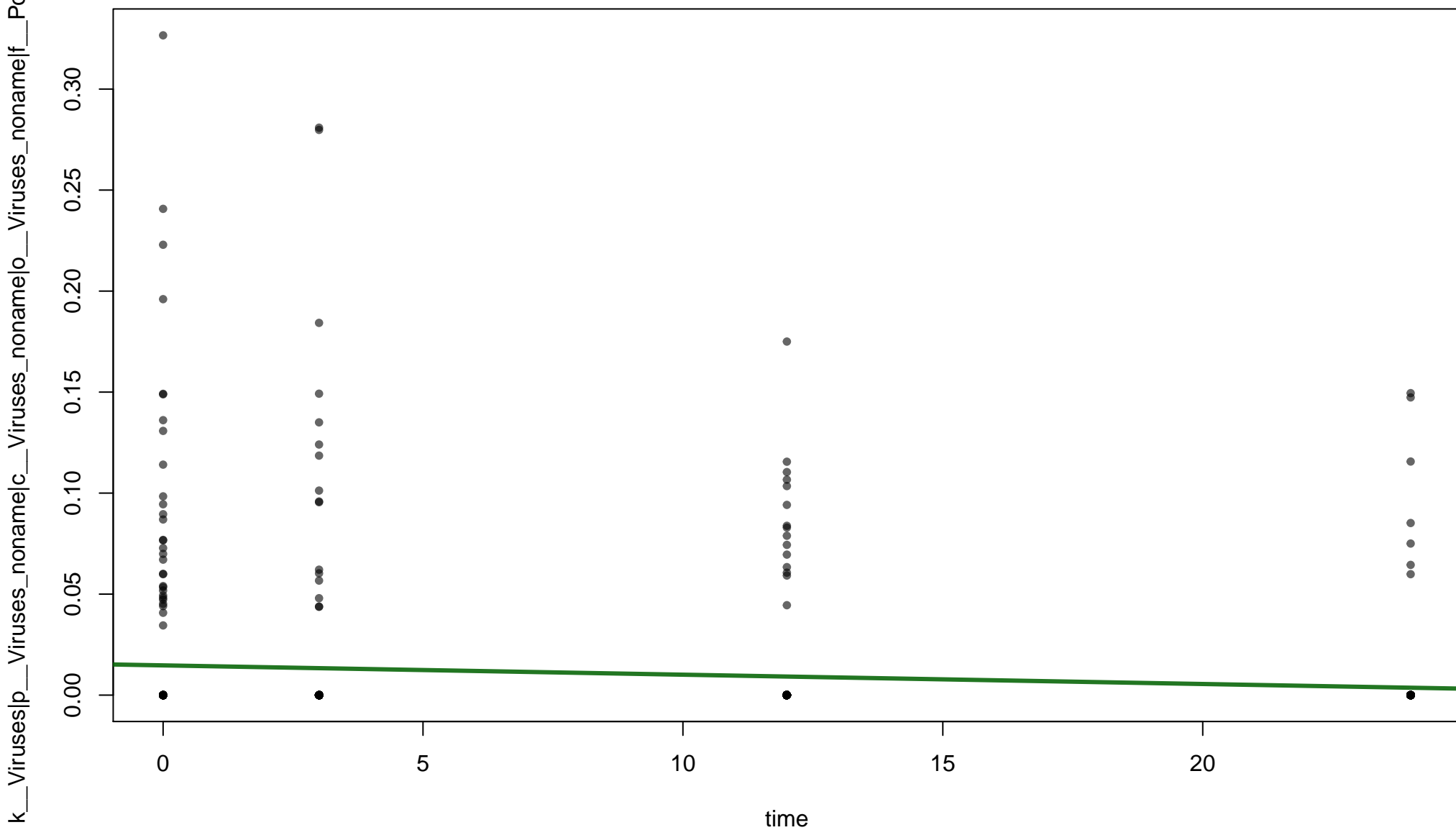
time (0.000415 sd 0.000145, p=0.00445, q=0.043)





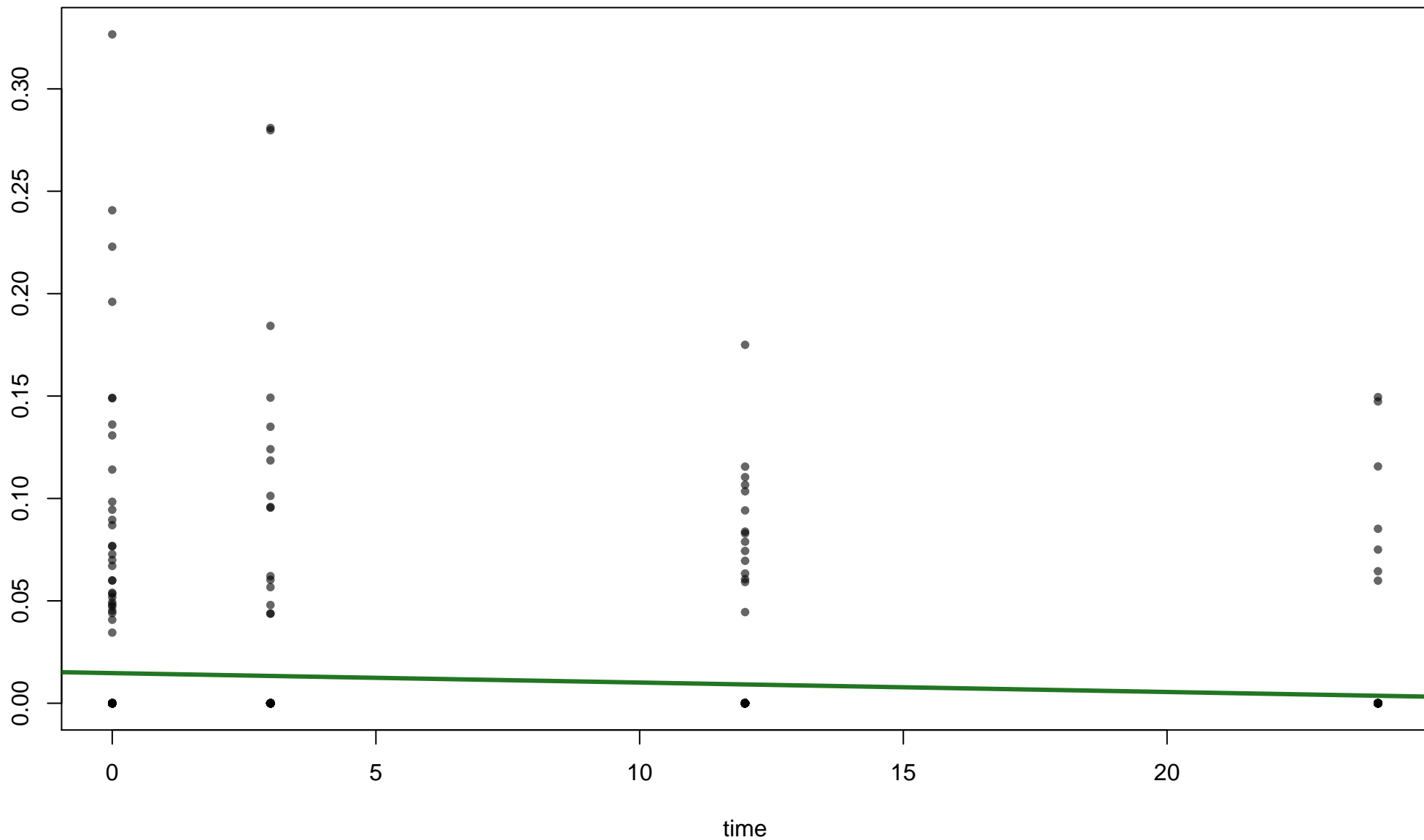


time ( $-0.000464$  sd  $0.000166$ ,  $p=0.00537$ ,  $q=0.0505$ )

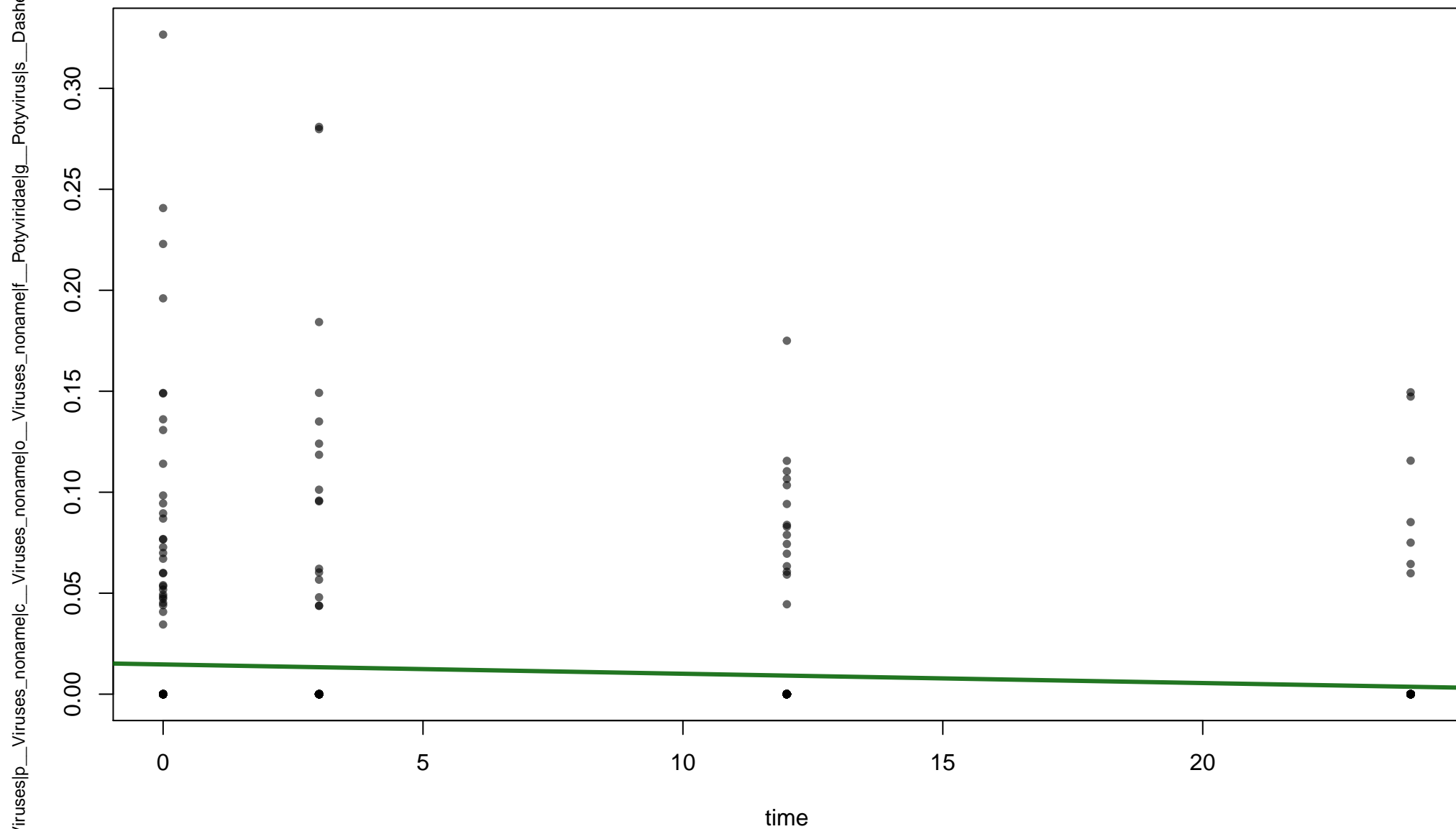


time ( $-0.000464$  sd  $0.000166$ ,  $p=0.00537$ ,  $q=0.0505$ )

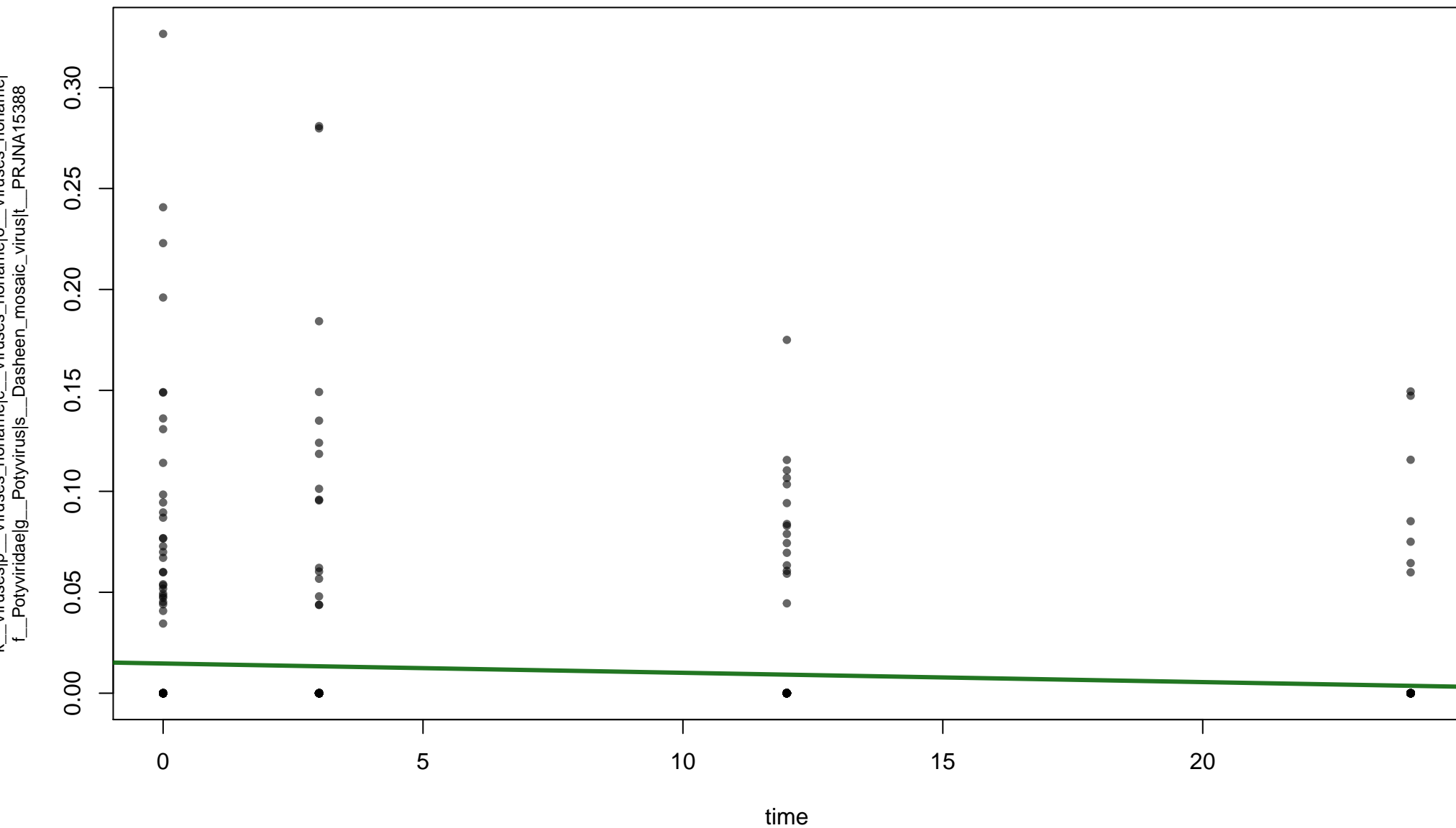
k\_\_Viruses|p\_\_Viruses\_noname|c\_\_Viruses\_noname|o\_\_Viruses\_noname|f\_\_Potyvirdae|g\_\_Potyvirus



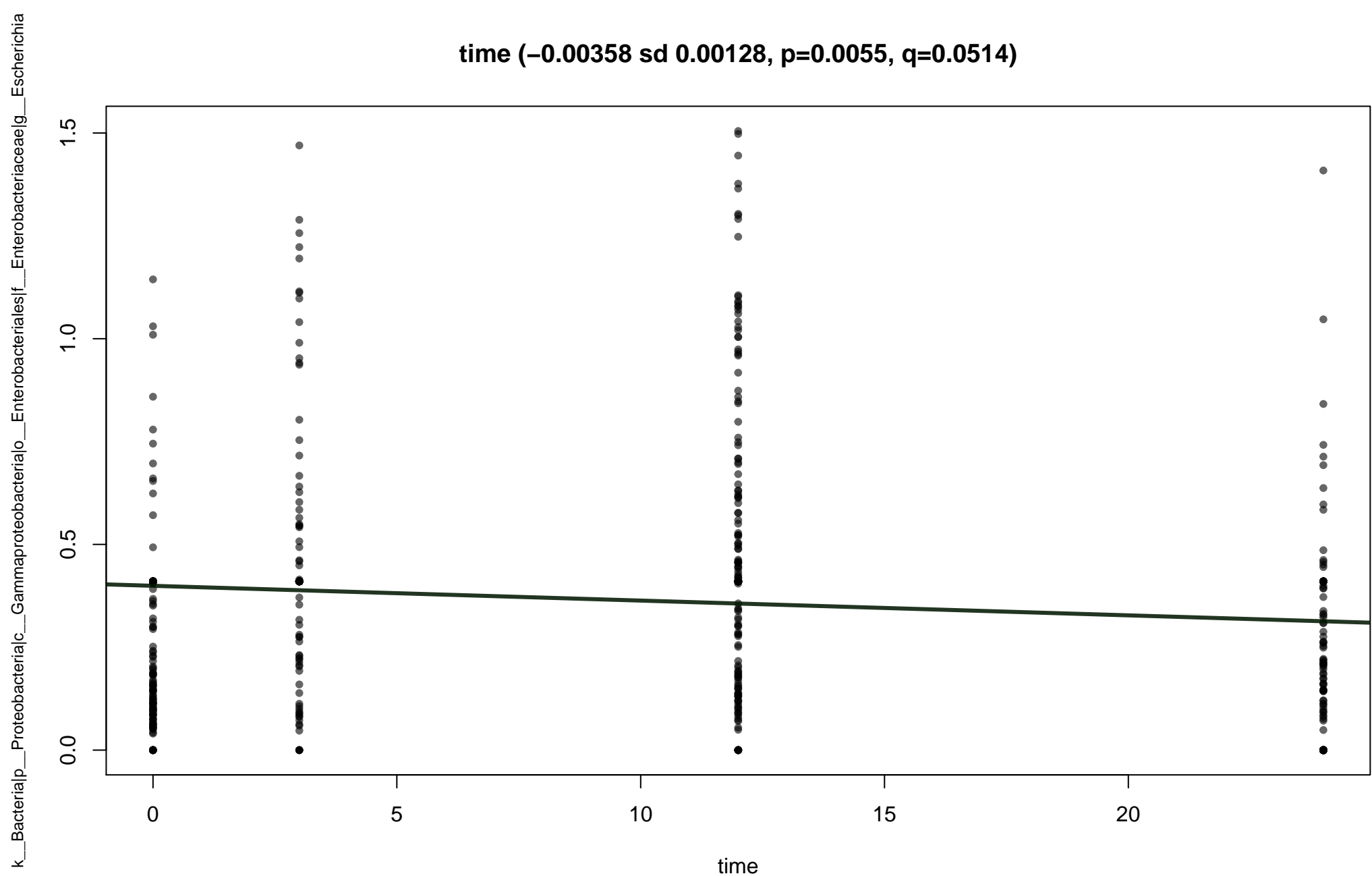
time ( $-0.000464$  sd  $0.000166$ ,  $p=0.00537$ ,  $q=0.0505$ )



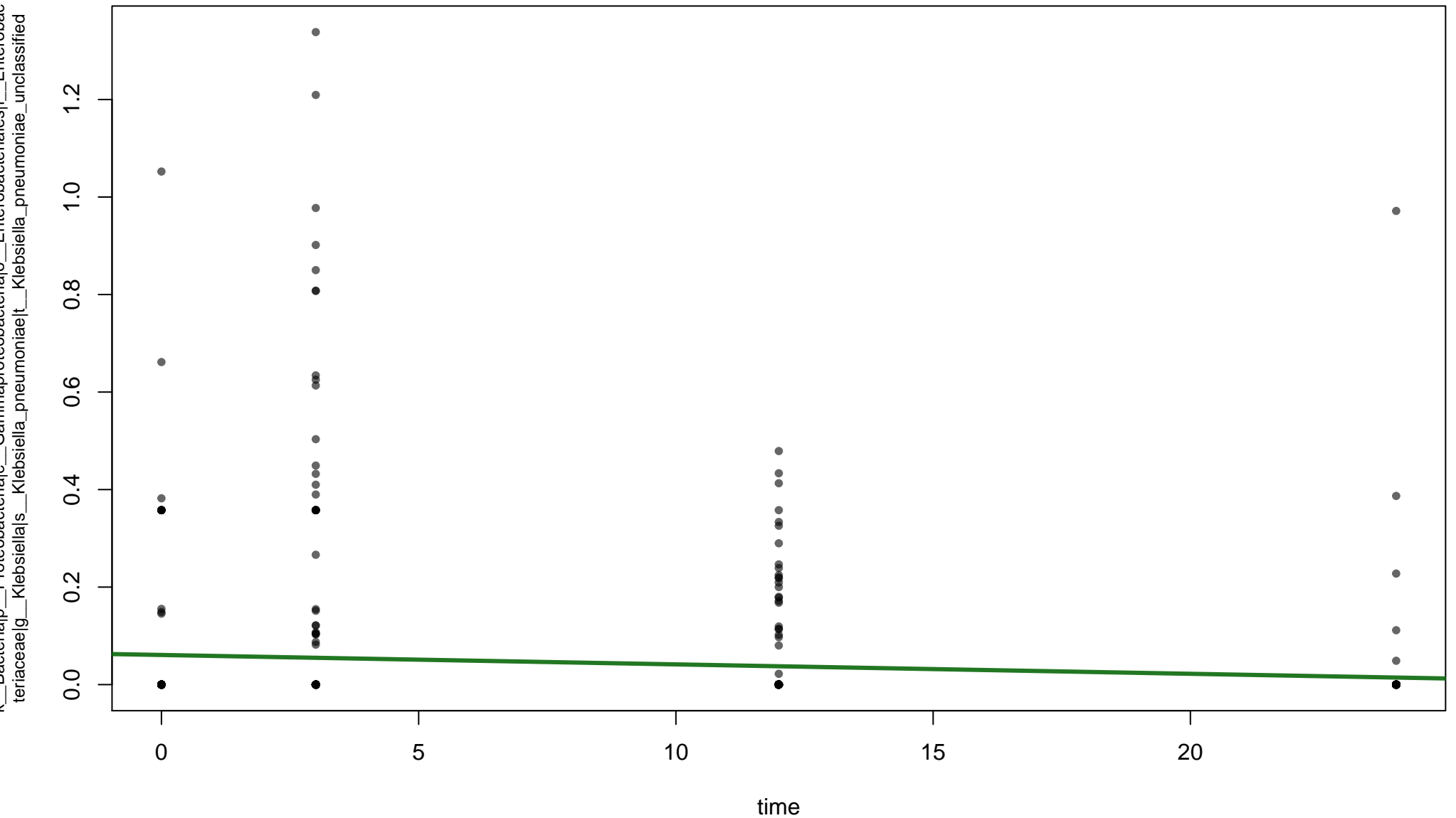
time (-0.000464 sd 0.000166, p=0.00537, q=0.0505)



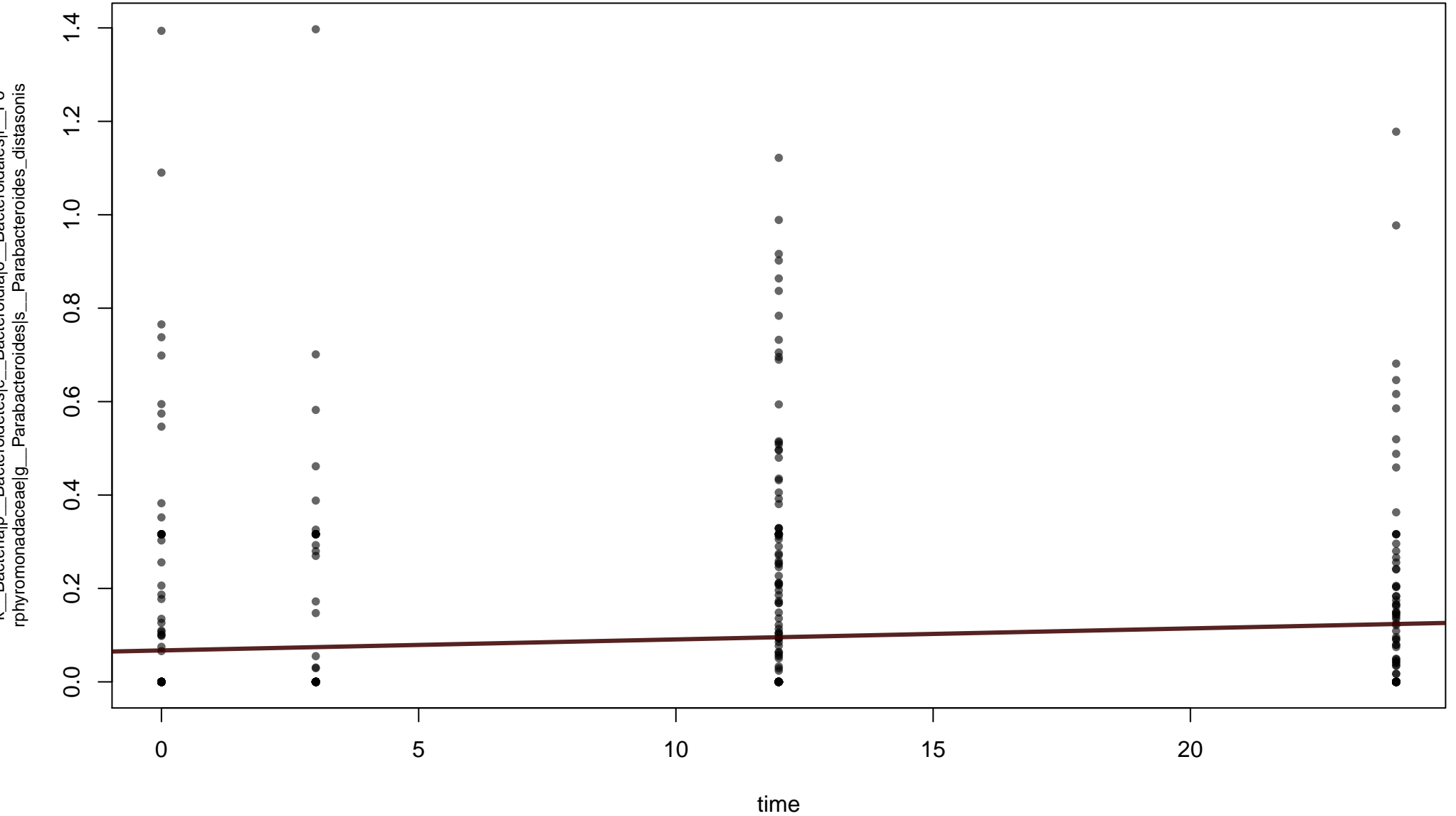
time (-0.00358 sd 0.00128, p=0.0055, q=0.0514)



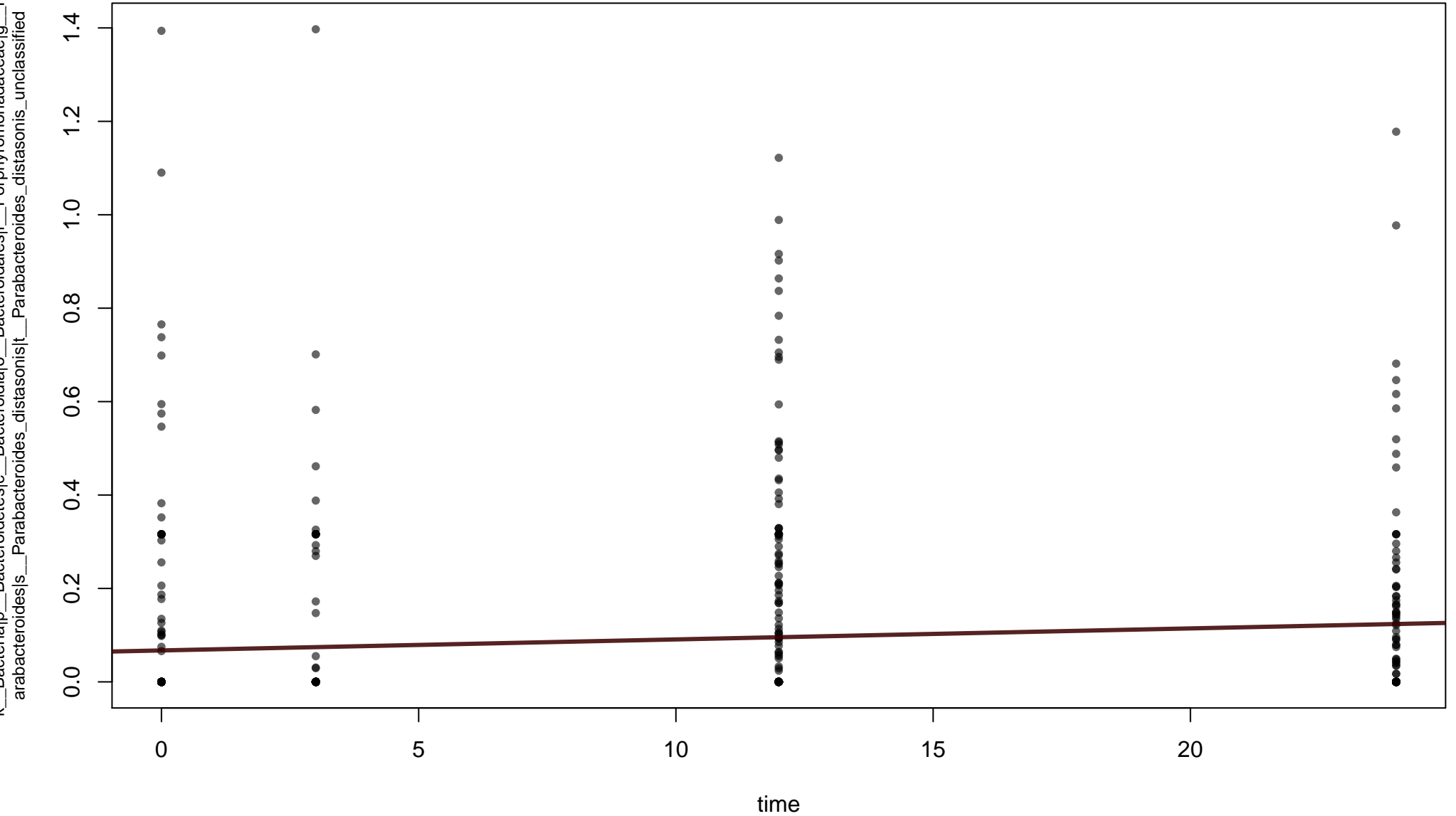
time ( $-0.00181$  sd  $0.00068$ ,  $p=0.008$ ,  $q=0.0737$ )



time (0.00236 sd 0.000899, p=0.00875, q=0.0801)

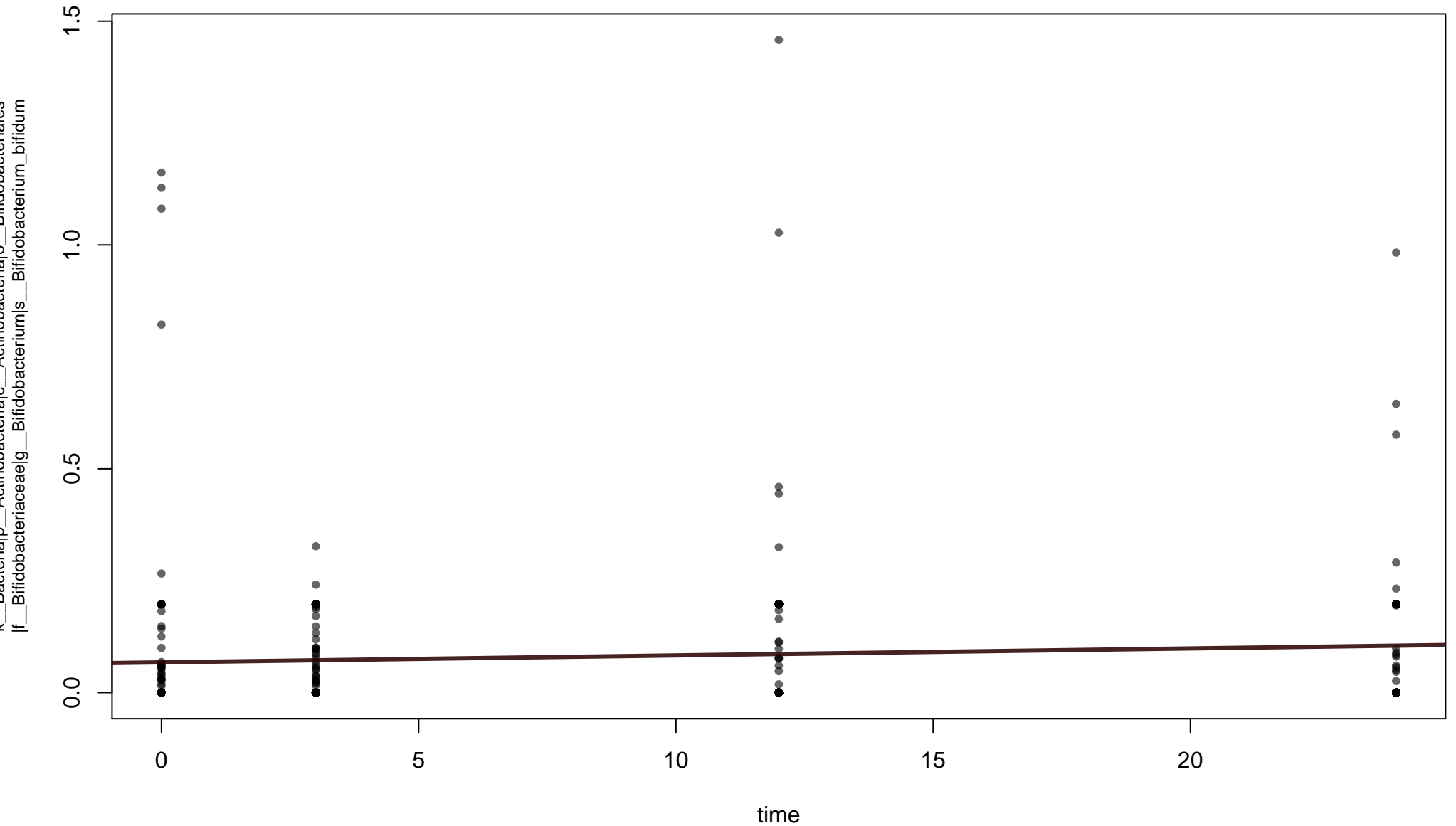


**time (0.00236 sd 0.000899, p=0.00875, q=0.0801)**

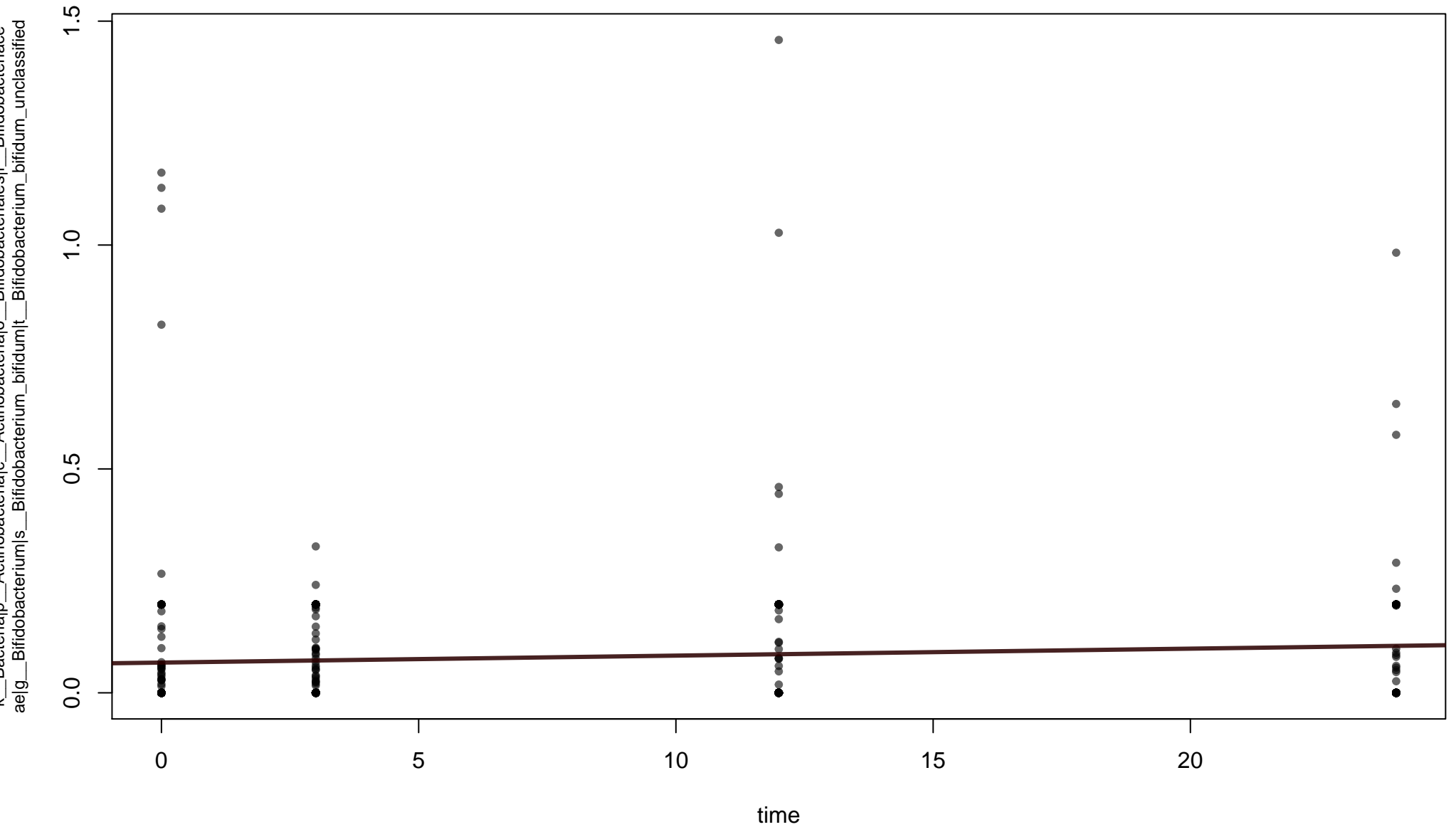




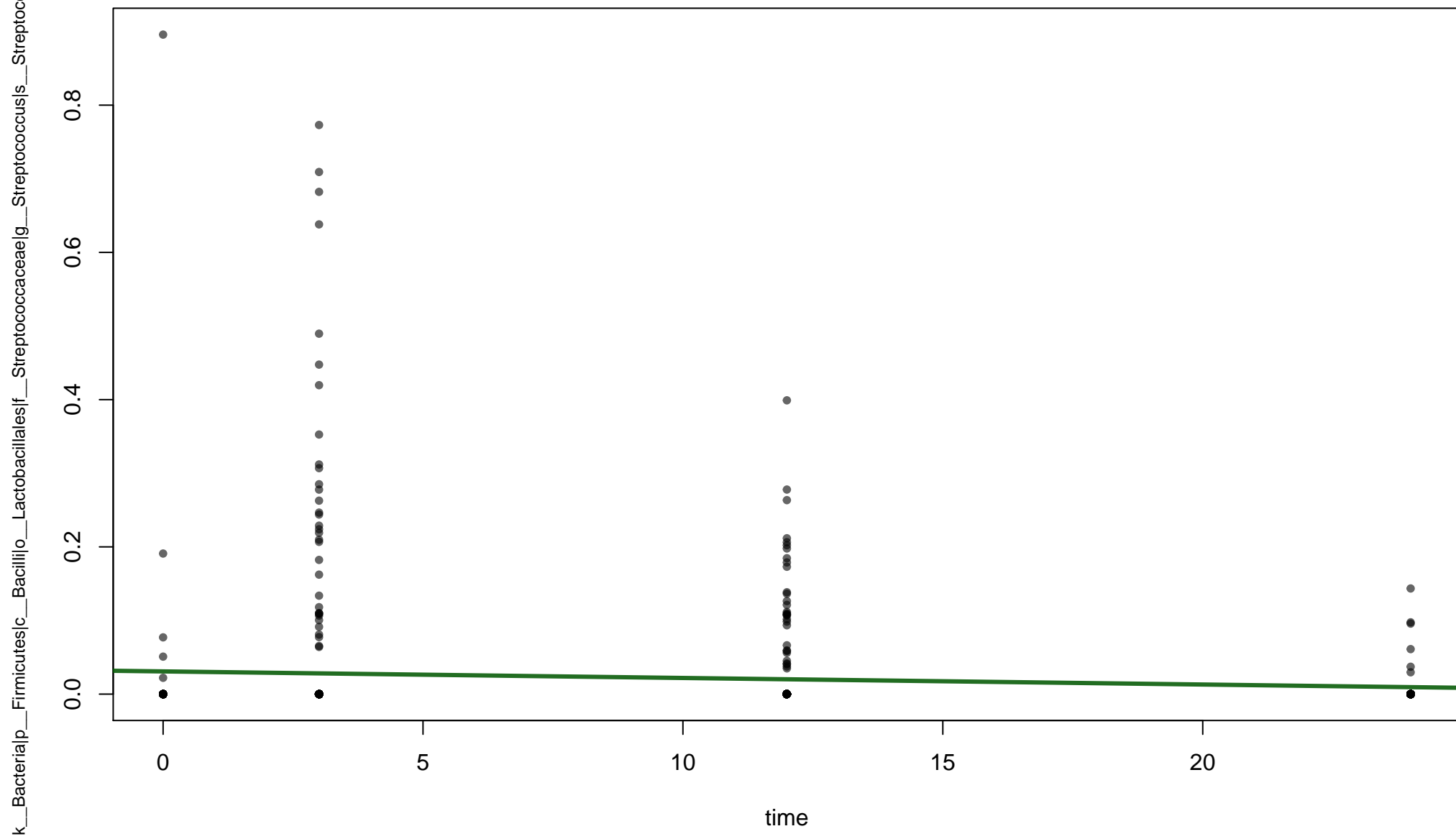
**time (0.00149 sd 0.000655, p=0.0233, q=0.191)**



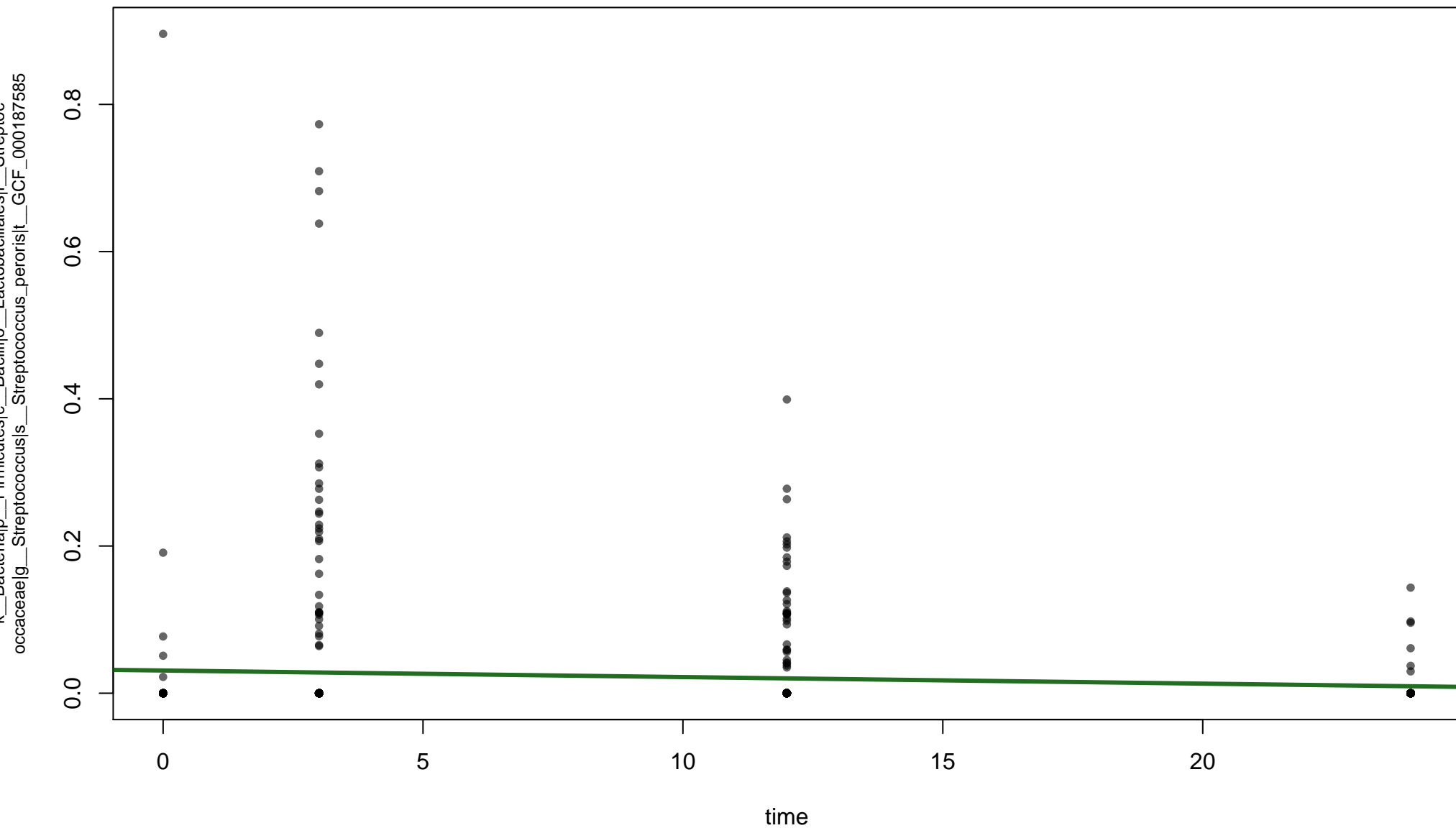
**time (0.00149 sd 0.000655, p=0.0233, q=0.191)**



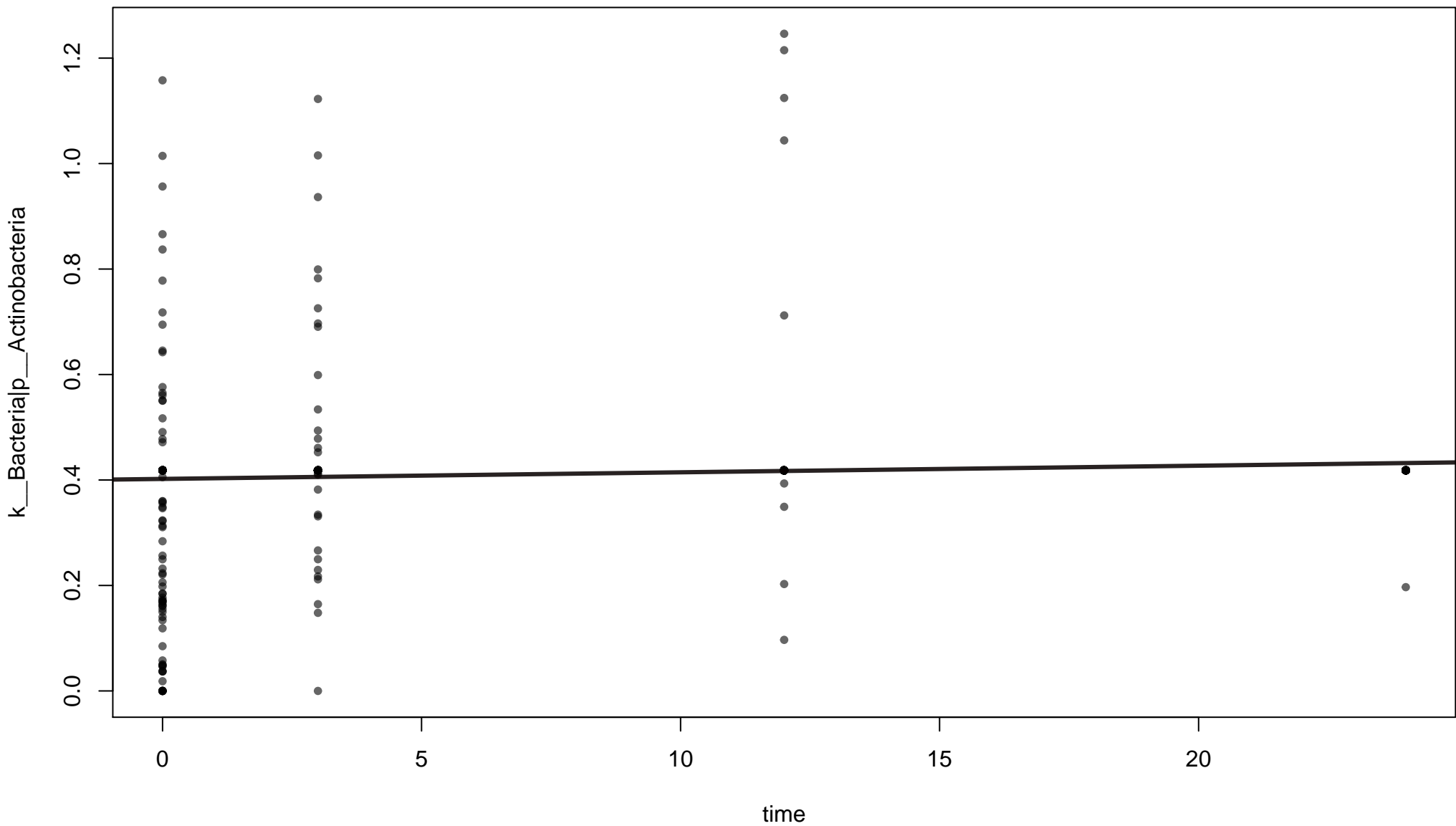
time ( $-0.000901$  sd  $0.000397$ ,  $p=0.0235$ ,  $q=0.191$ )



time ( $-0.000901$  sd  $0.000397$ ,  $p=0.0235$ ,  $q=0.191$ )



time (0.0013 sd 0.000582, p=0.0255, q=0.205)



time (0.0013 sd 0.000582, p=0.0255, q=0.205)

