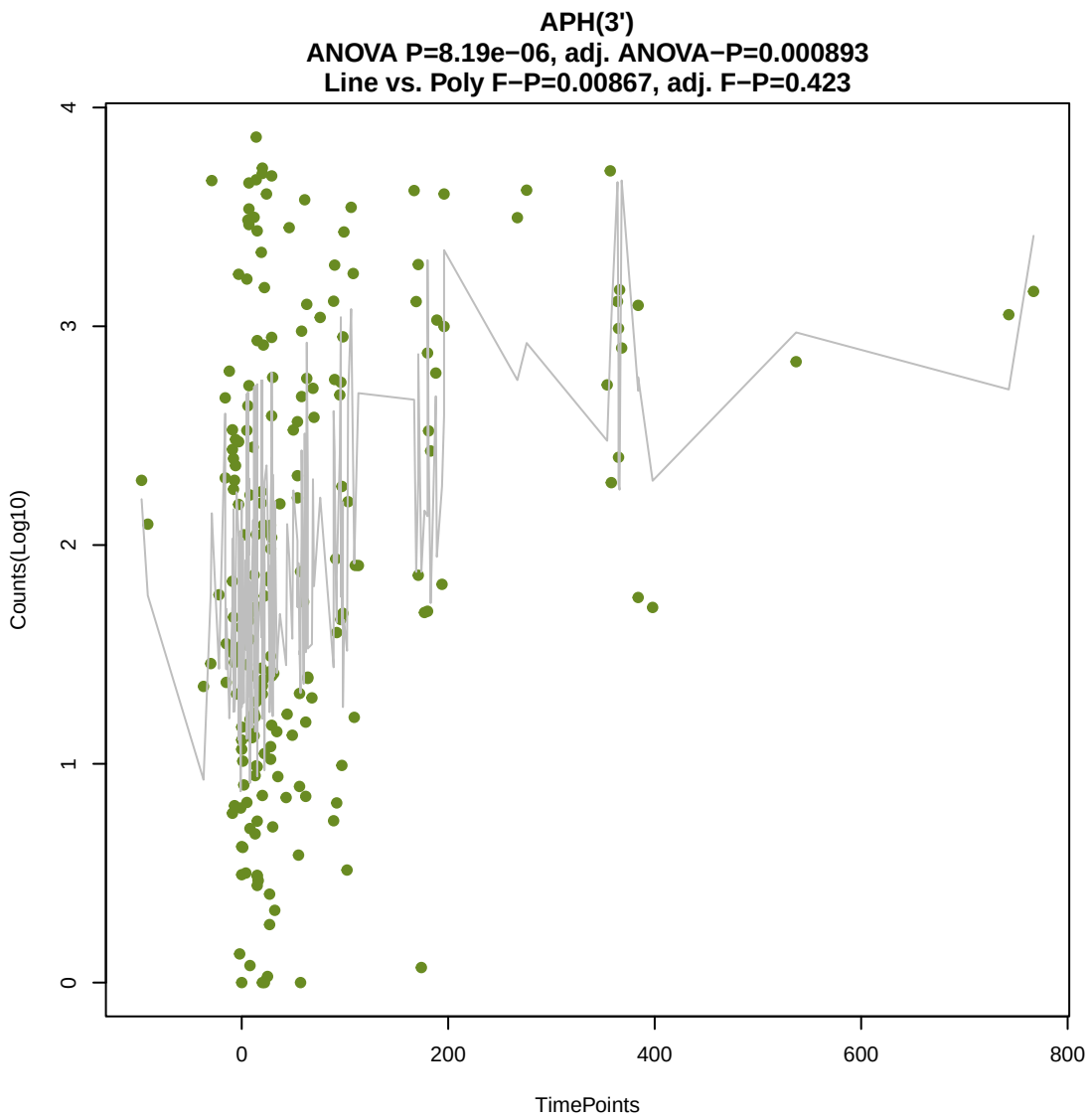
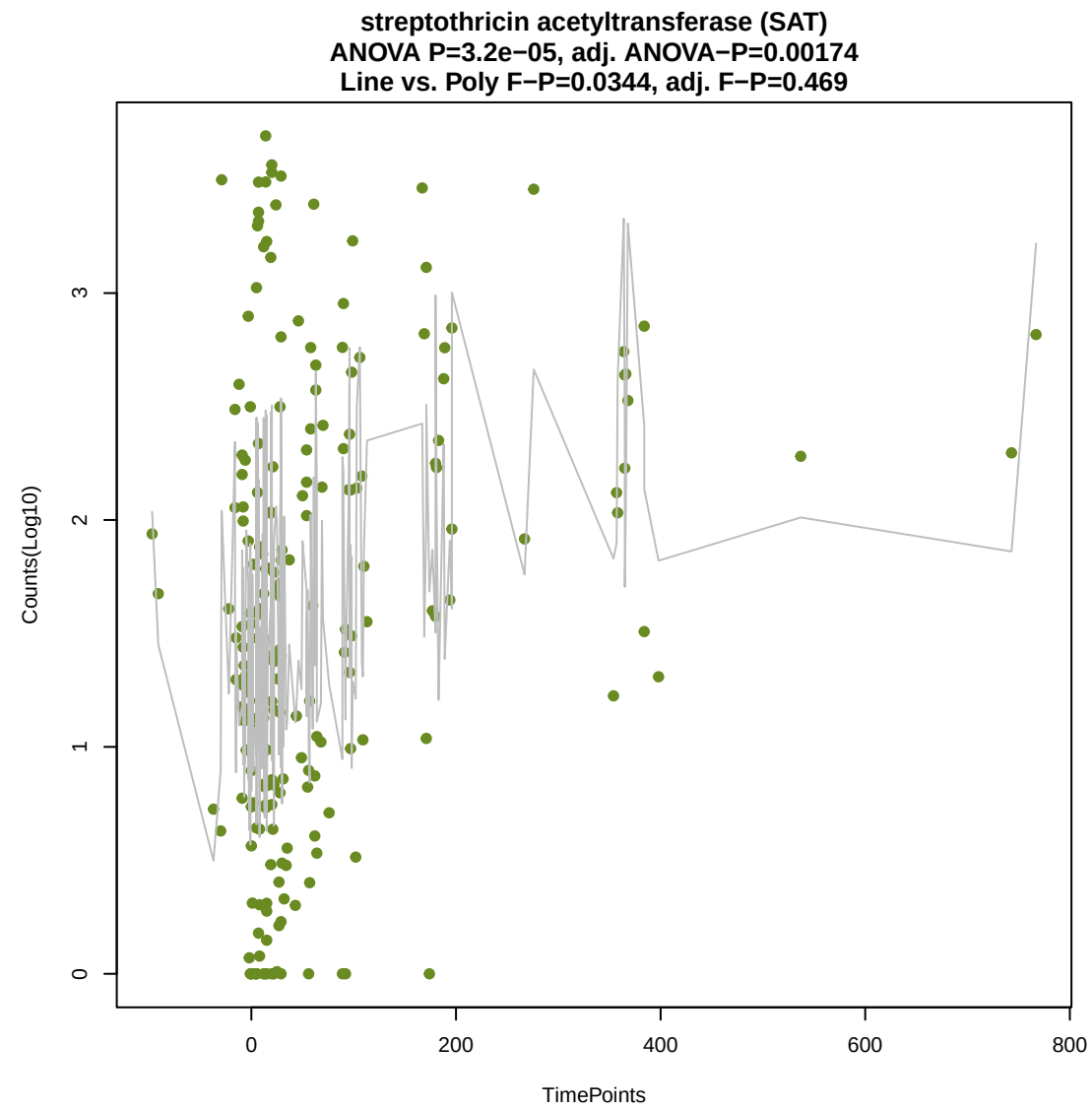
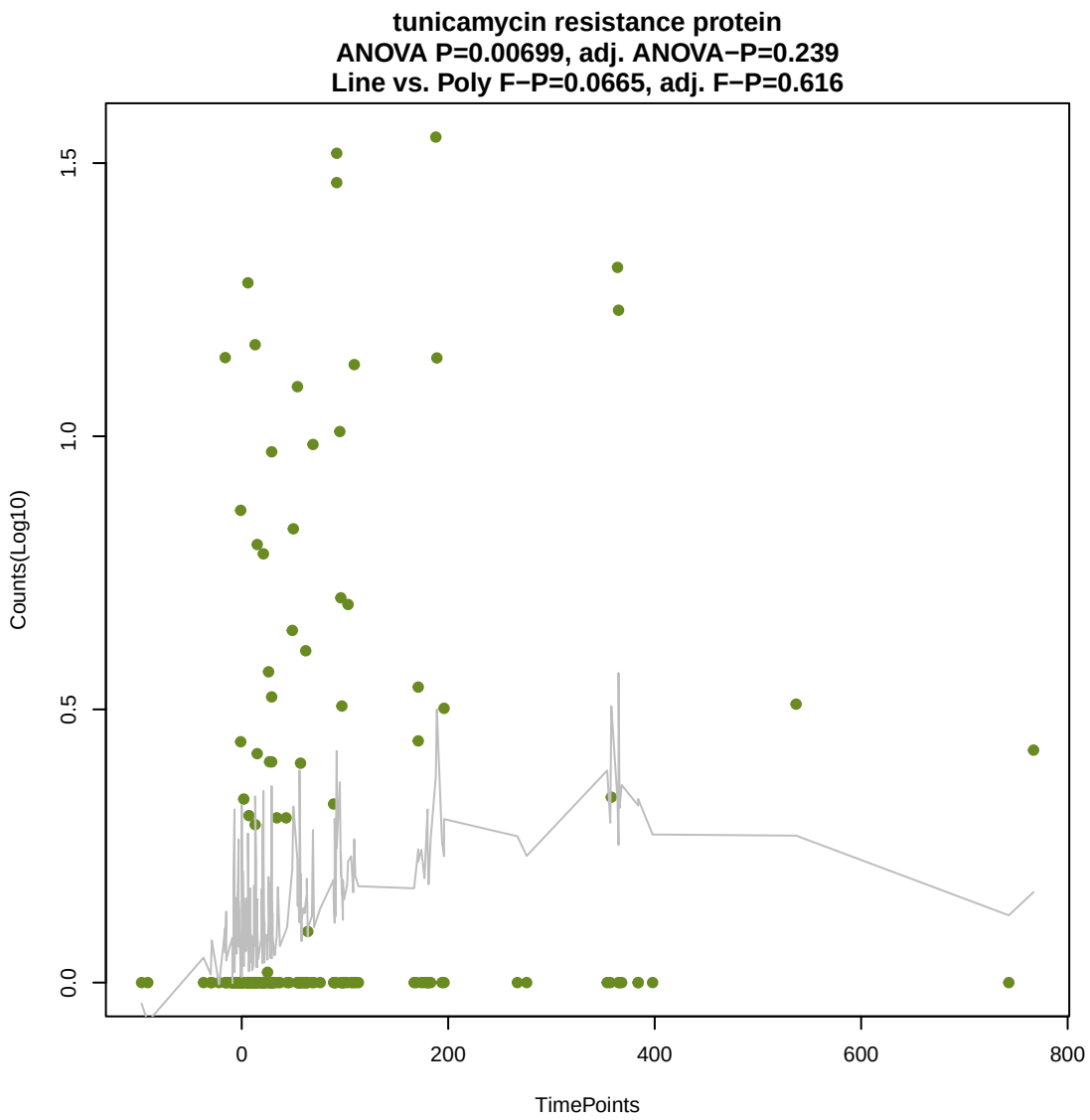
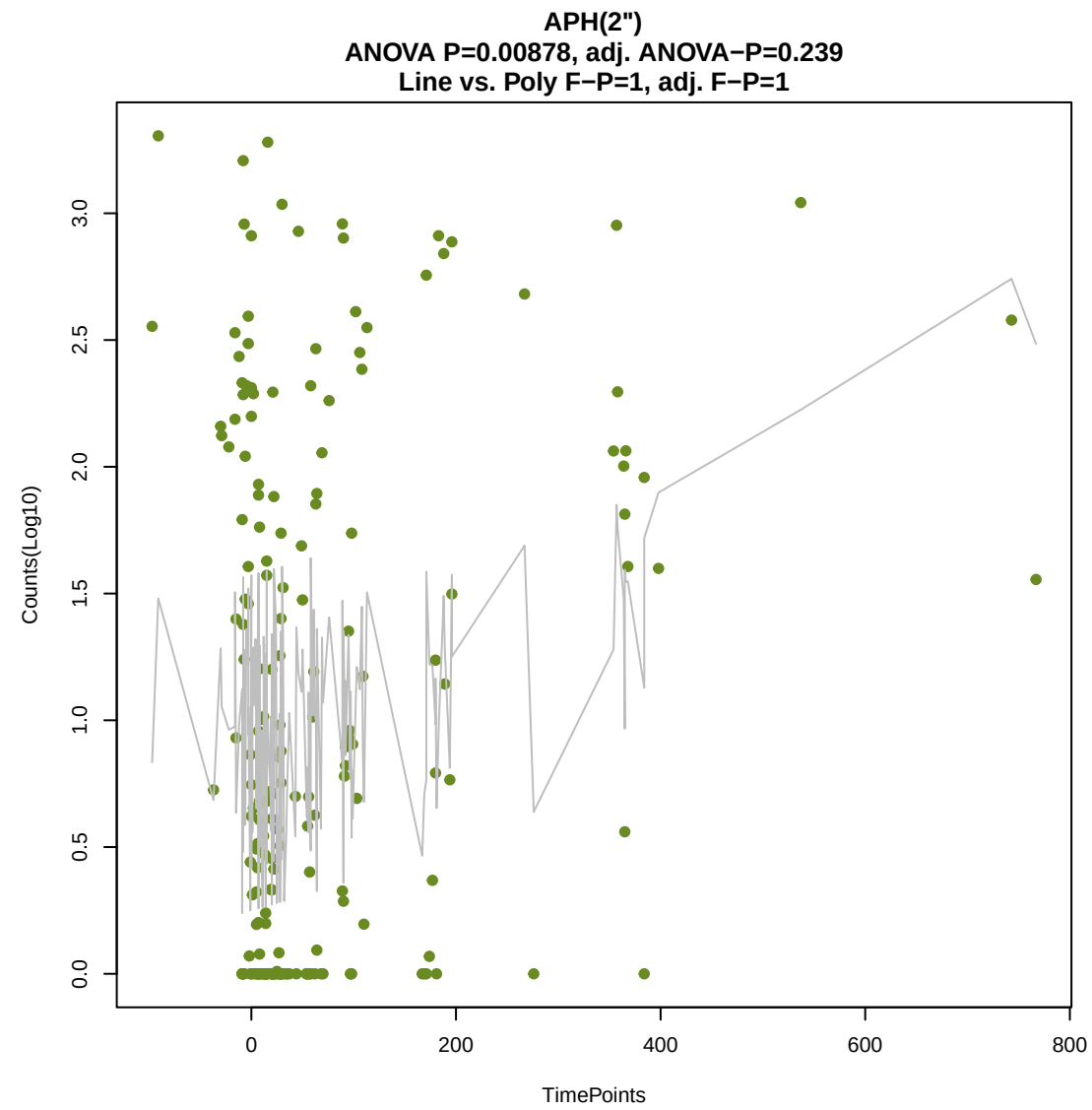
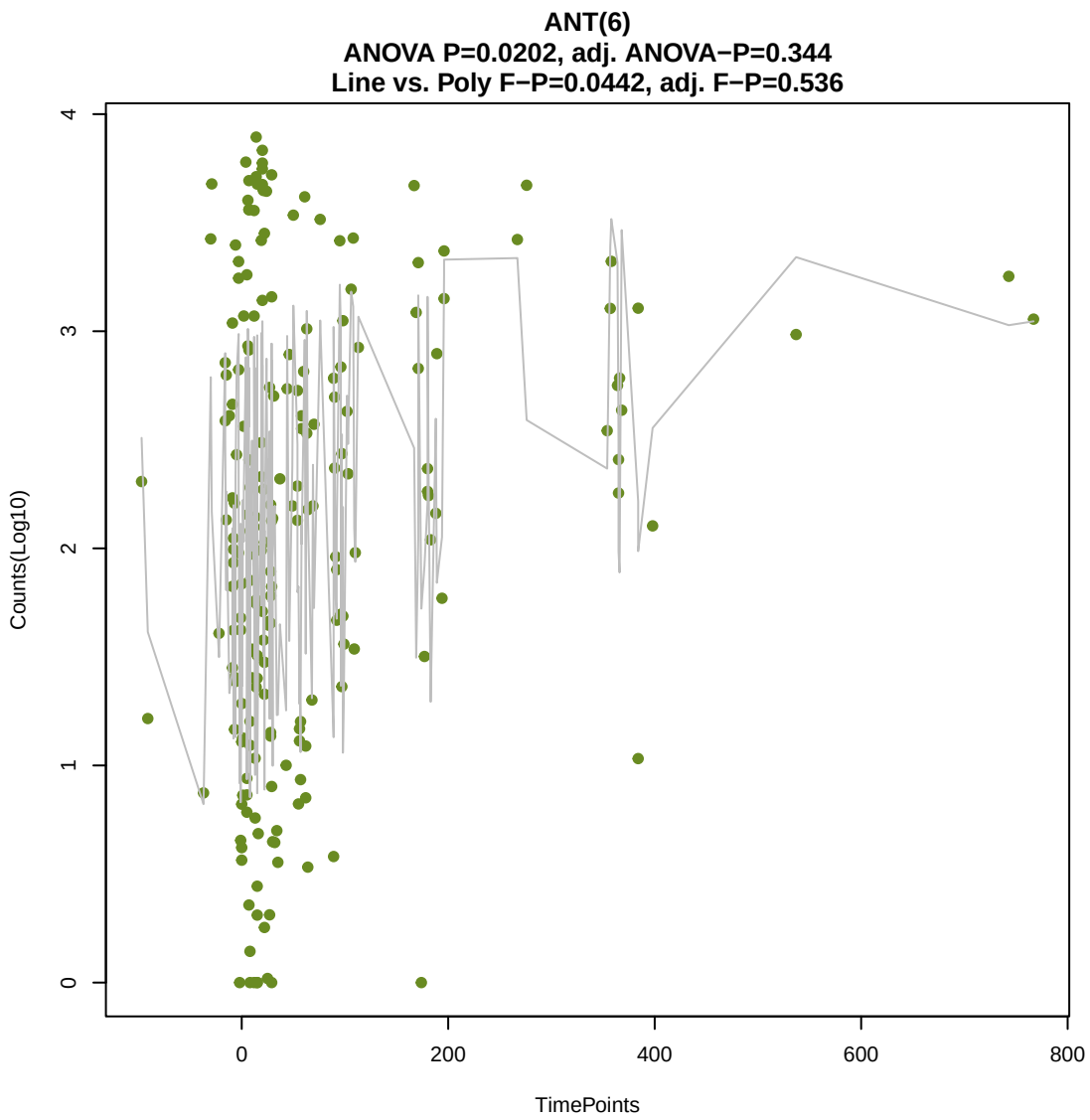
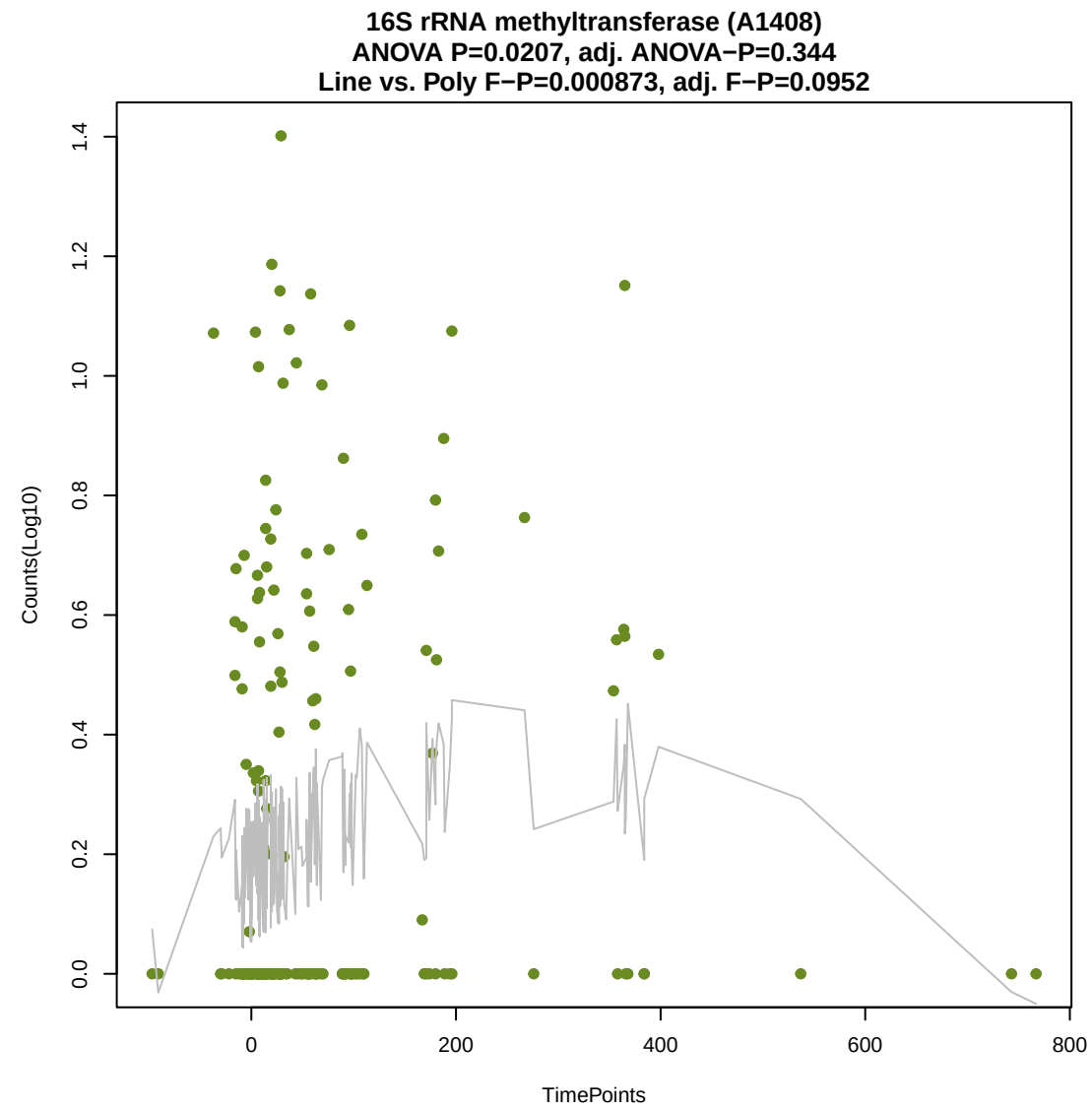

APH(3')
ANOVA P=8.19e−06, adj. ANOVA−P=0.000893
Line vs. Poly F−P=0.00867, adj. F−P=0.423
Counts(Log10)
TimePoints

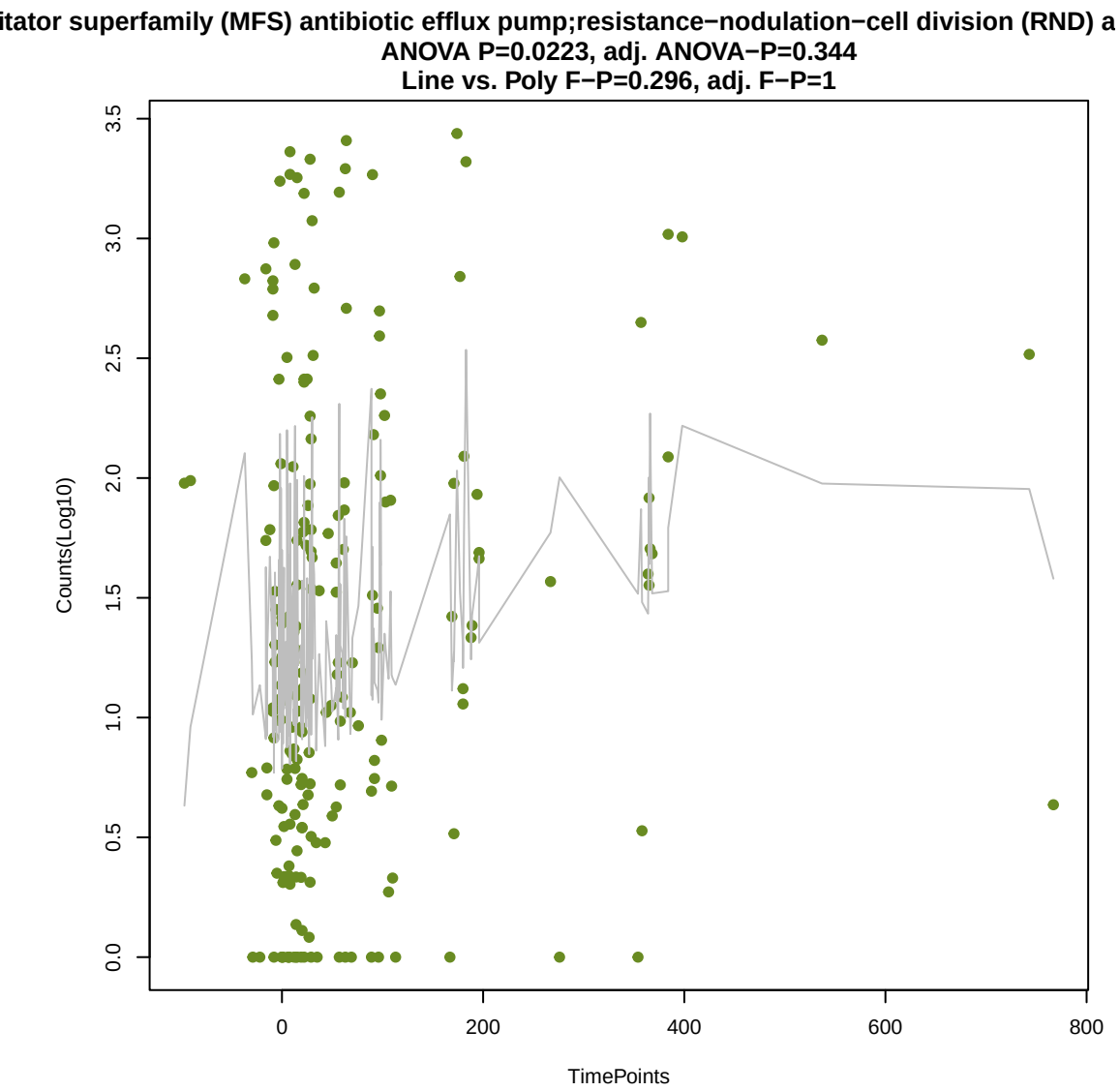

streptothricin acetyltransferase (SAT)
ANOVA P=3.2e−05, adj. ANOVA−P=0.00174
Line vs. Poly F−P=0.0344, adj. F−P=0.469
Counts(Log10)
TimePoints

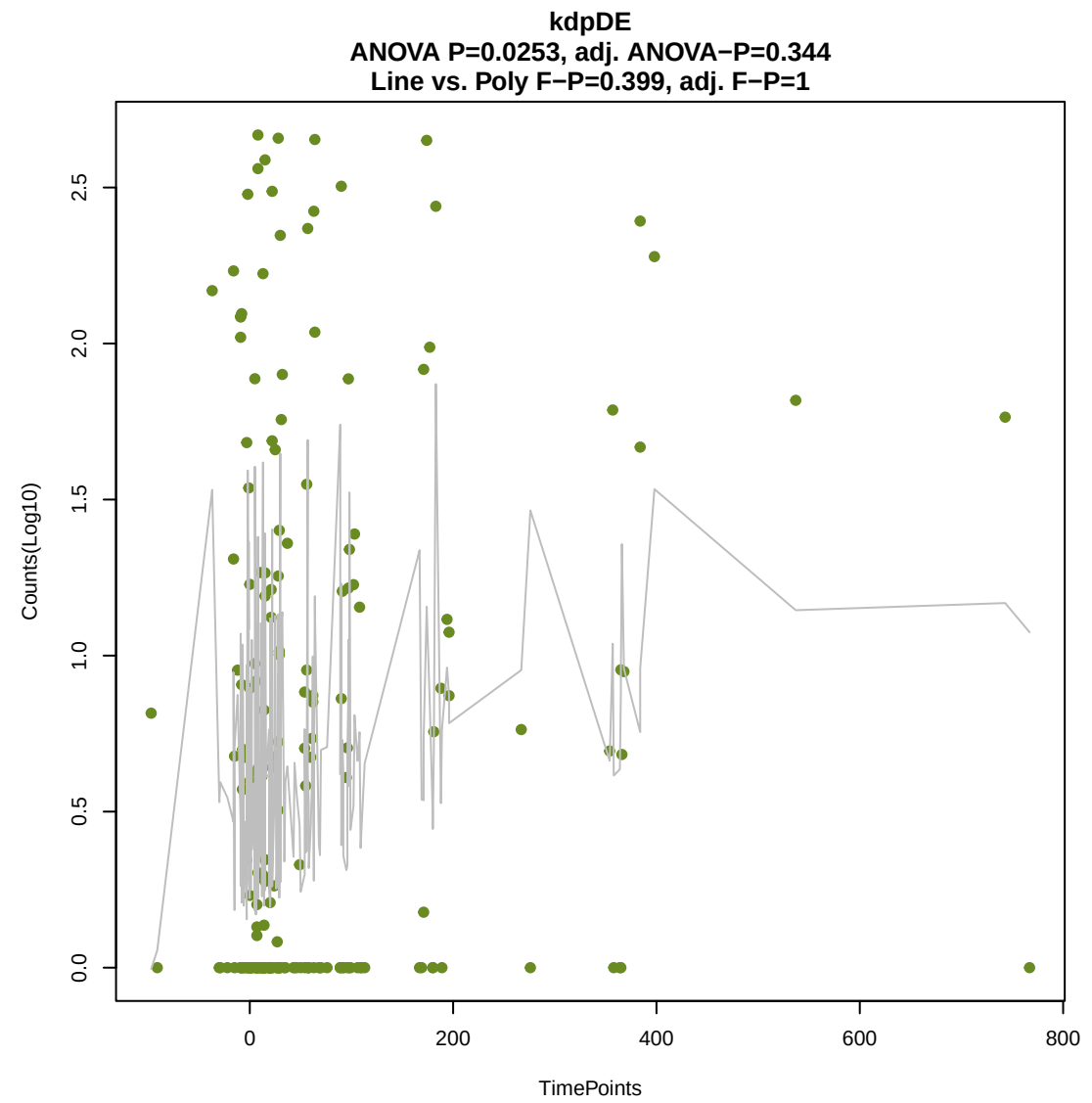

tunicamycin resistance protein
ANOVA P=0.00699, adj. ANOVA−P=0.239
Line vs. Poly F−P=0.0665, adj. F−P=0.616
Counts(Log10)
TimePoints

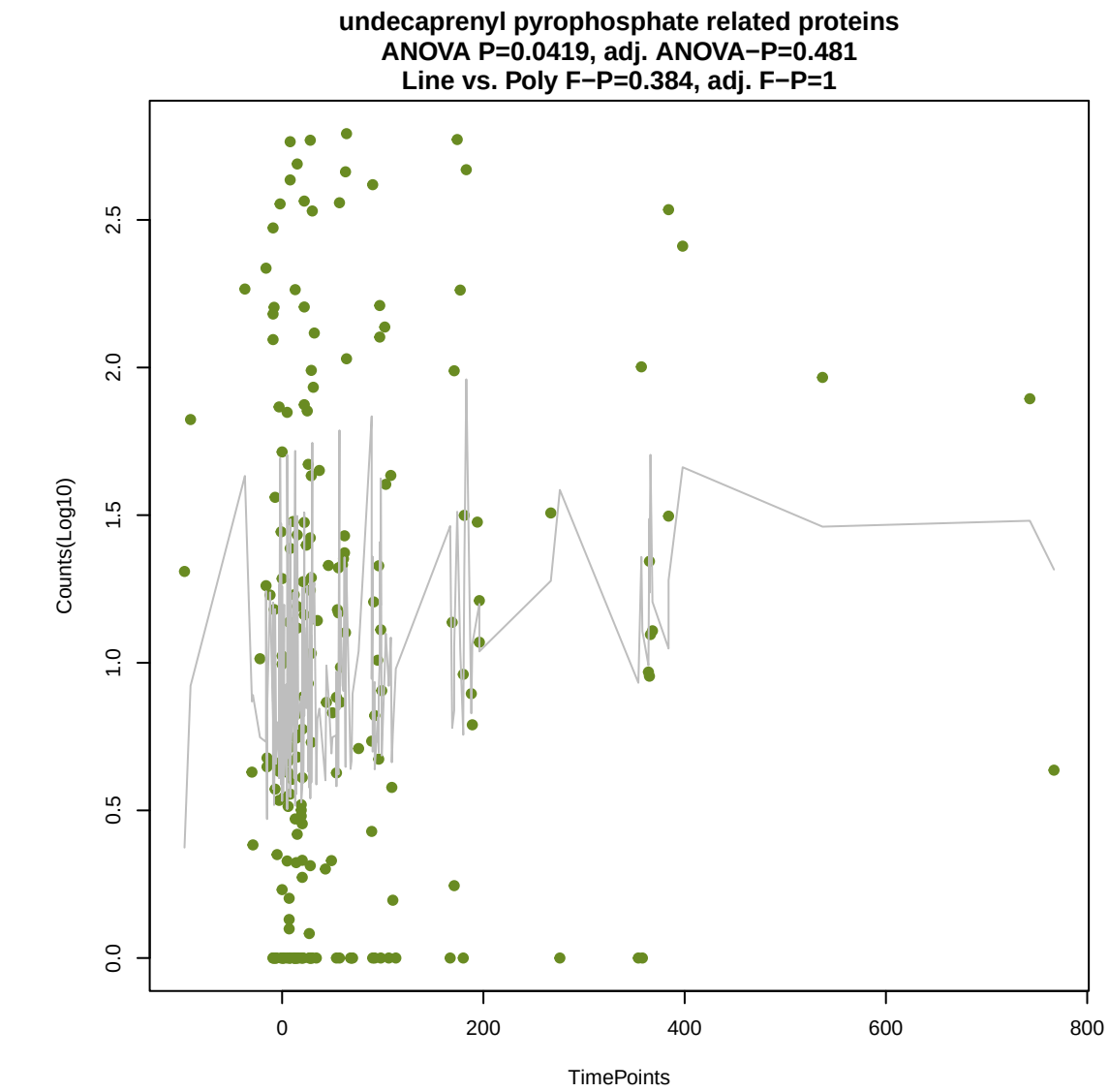

APH(2")
ANOVA P=0.00878, adj. ANOVA−P=0.239
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

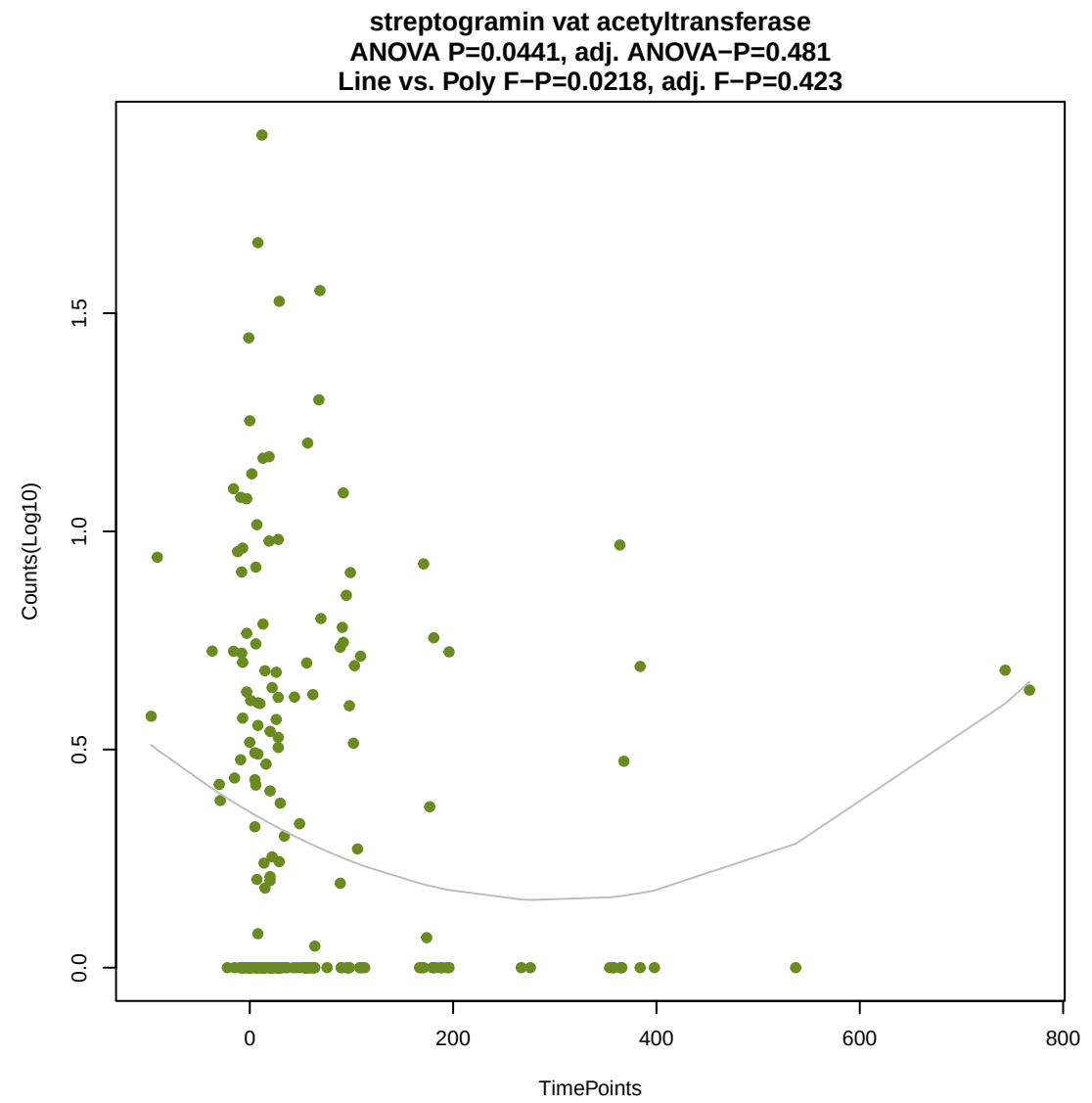

ANT(6)
ANOVA P=0.0202, adj. ANOVA−P=0.344
Line vs. Poly F−P=0.0442, adj. F−P=0.536
Counts(Log10)
TimePoints

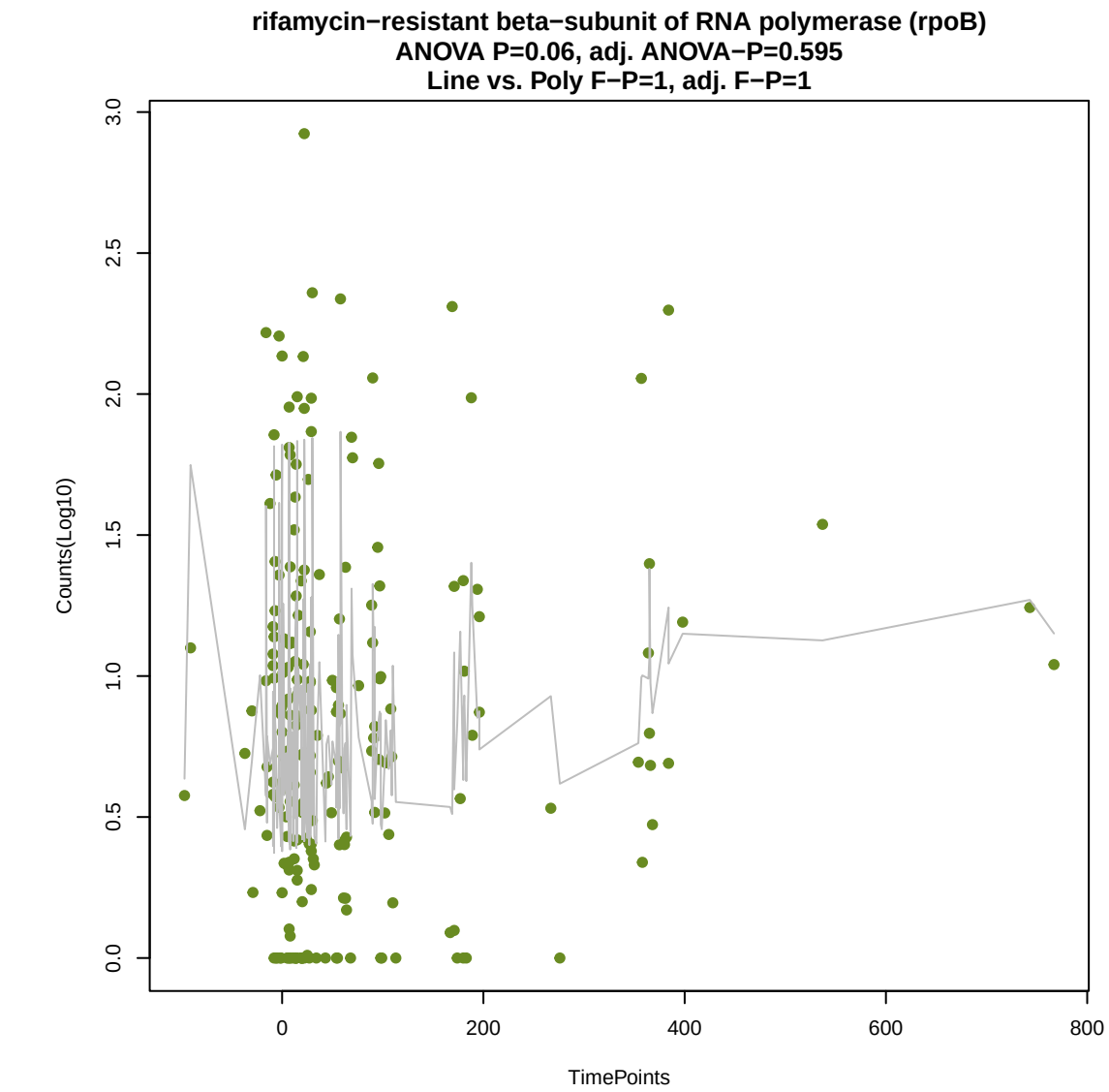

16S rRNA methyltransferase (A1408)
ANOVA P=0.0207, adj. ANOVA−P=0.344
Line vs. Poly F−P=0.000873, adj. F−P=0.0952
Counts(Log10)
TimePoints

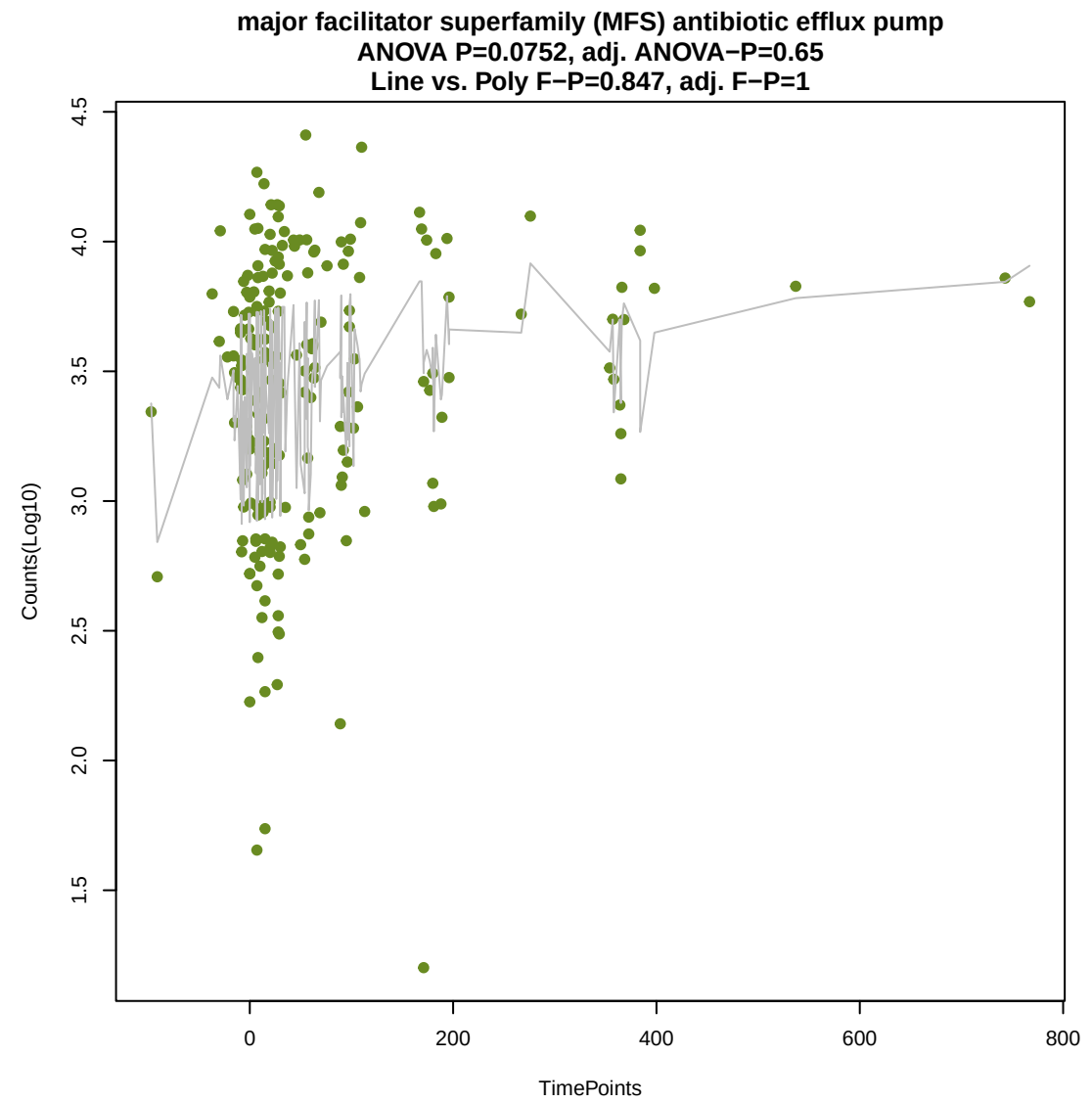

itator superfamily (MFS) antibiotic efflux pump;resistance−nodulation−cell division (RND) a
ANOVA P=0.0223, adj. ANOVA−P=0.344
Line vs. Poly F−P=0.296, adj. F−P=1
Counts(Log10)
TimePoints


kdpDE
ANOVA P=0.0253, adj. ANOVA−P=0.344
Line vs. Poly F−P=0.399, adj. F−P=1
Counts(Log10)
TimePoints

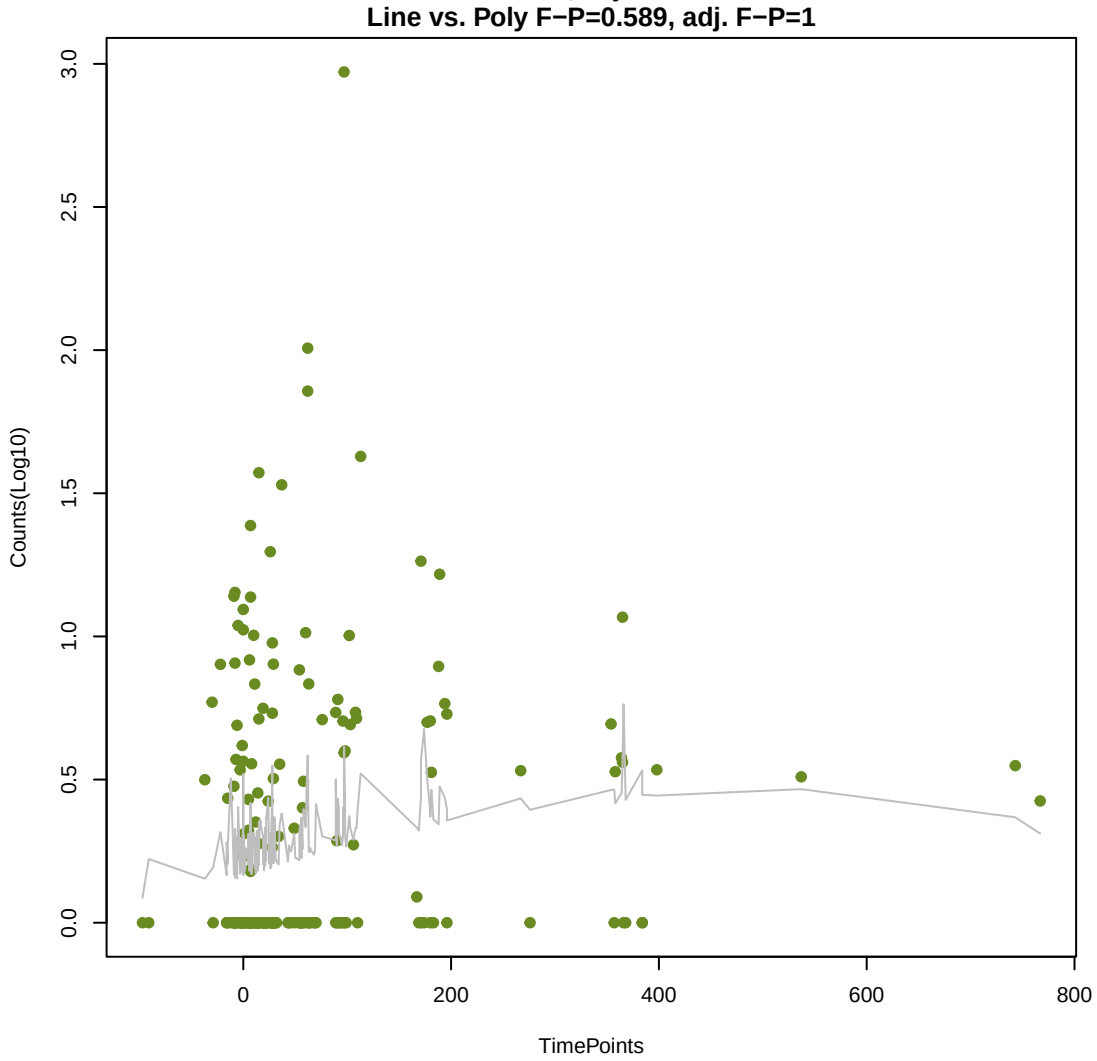

undecaprenyl pyrophosphate related proteins
ANOVA P=0.0419, adj. ANOVA−P=0.481
Line vs. Poly F−P=0.384, adj. F−P=1
Counts(Log10)
TimePoints


streptogramin vat acetyltransferase
ANOVA P=0.0441, adj. ANOVA−P=0.481
Line vs. Poly F−P=0.0218, adj. F−P=0.423
Counts(Log10)
TimePoints

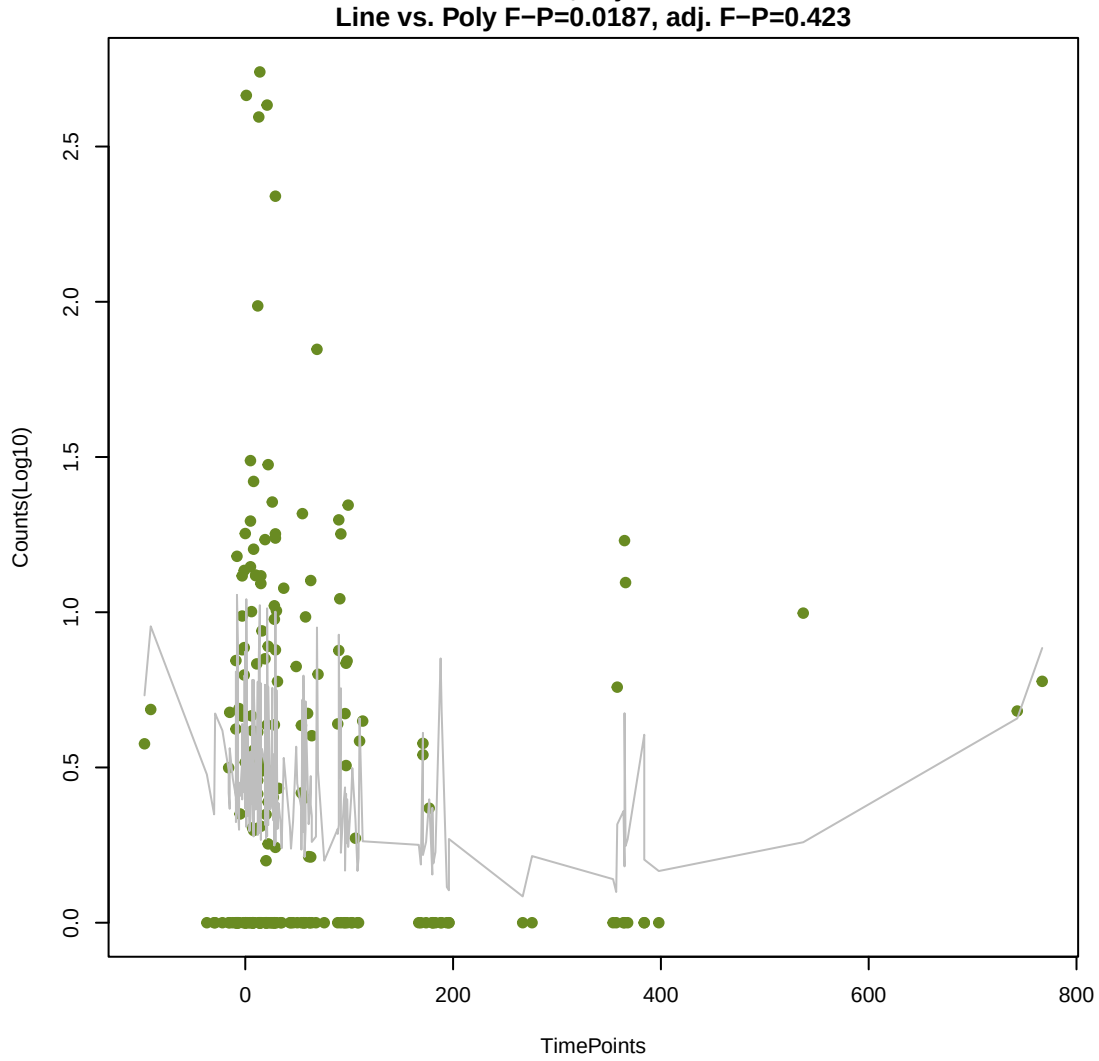

rifamycin−resistant beta−subunit of RNA polymerase (rpoB)
ANOVA P=0.06, adj. ANOVA−P=0.595
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints


major facilitator superfamily (MFS) antibiotic efflux pump
ANOVA P=0.0752, adj. ANOVA−P=0.65
Line vs. Poly F−P=0.847, adj. F−P=1
Counts(Log10)
TimePoints

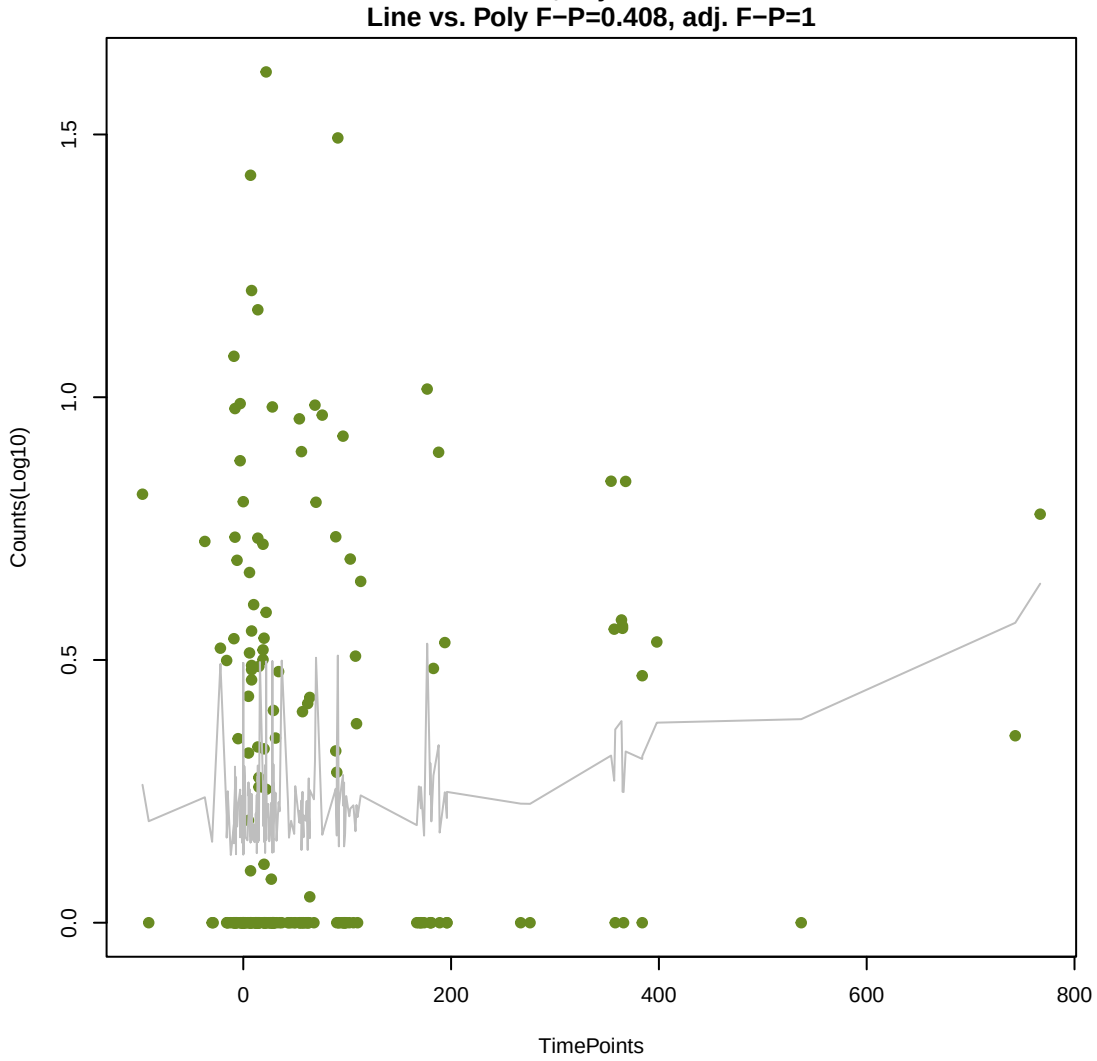
DHA beta−lactamase
ANOVA P=0.0806, adj. ANOVA−P=0.65
Line vs. Poly F−P=0.589, adj. F−P=1



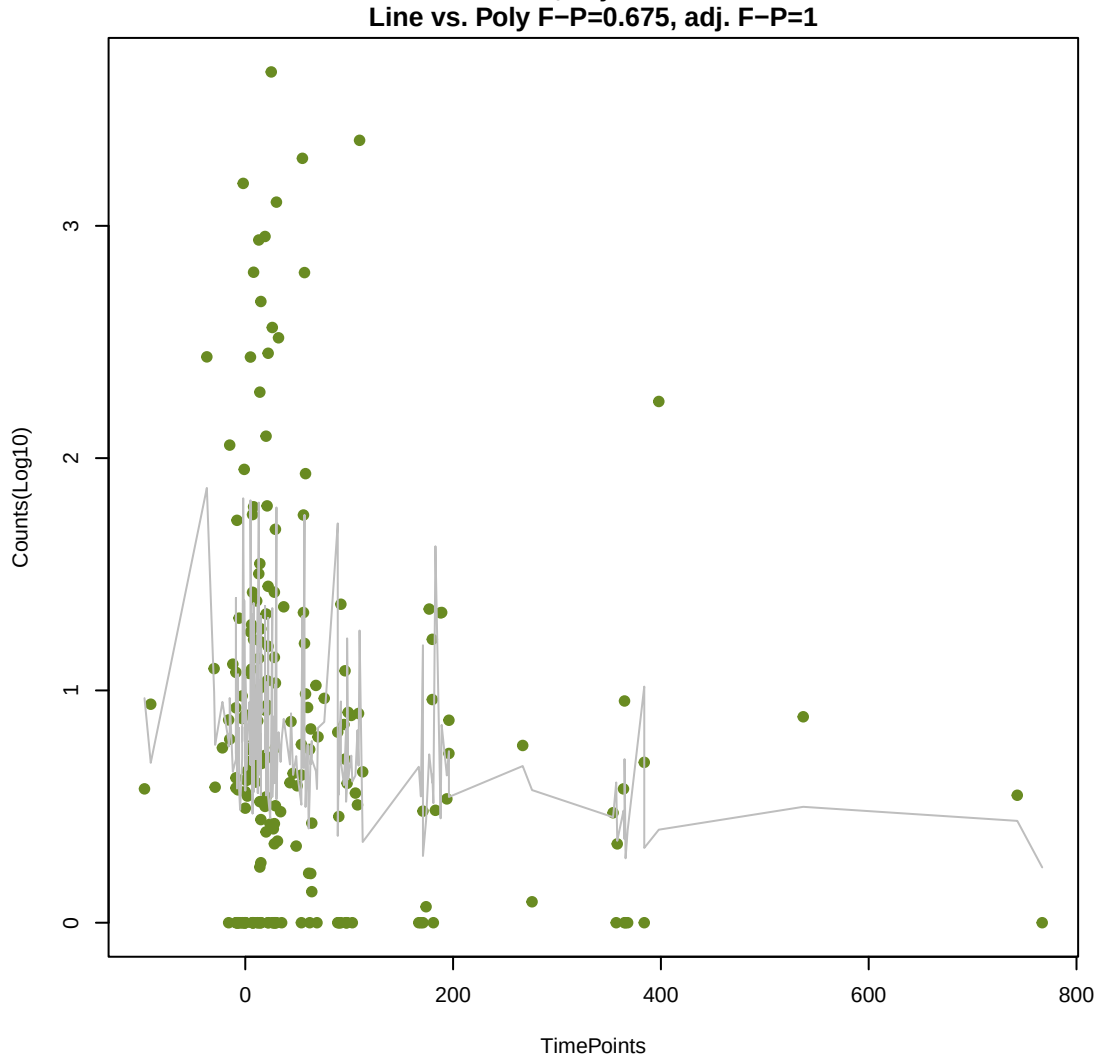
non−erm 23S ribosomal RNA methyltransferase (G748)
ANOVA P=0.0835, adj. ANOVA−P=0.65
Line vs. Poly F−P=0.0187, adj. F−P=0.423



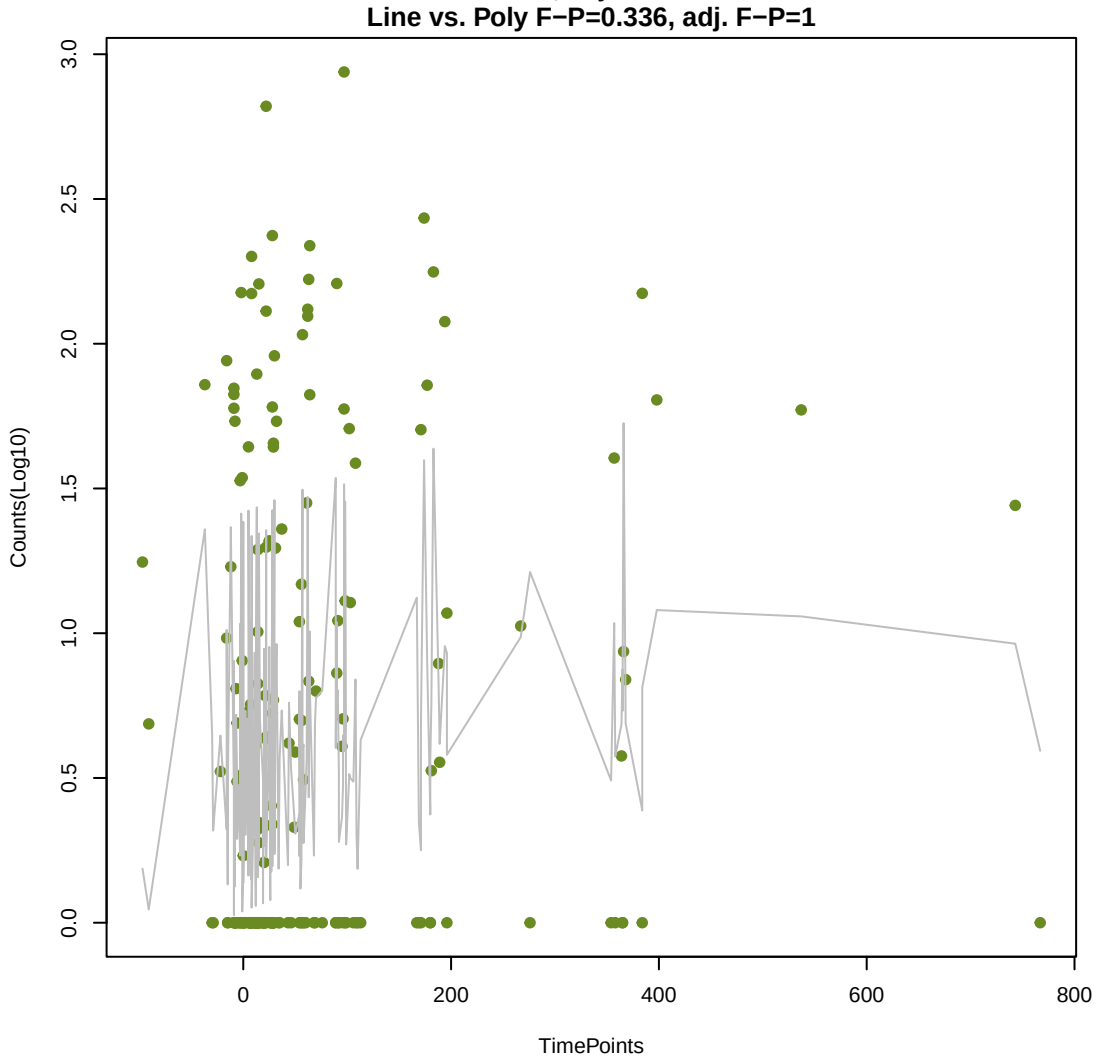
KPC beta−lactamase
ANOVA P=0.111, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.408, adj. F−P=1



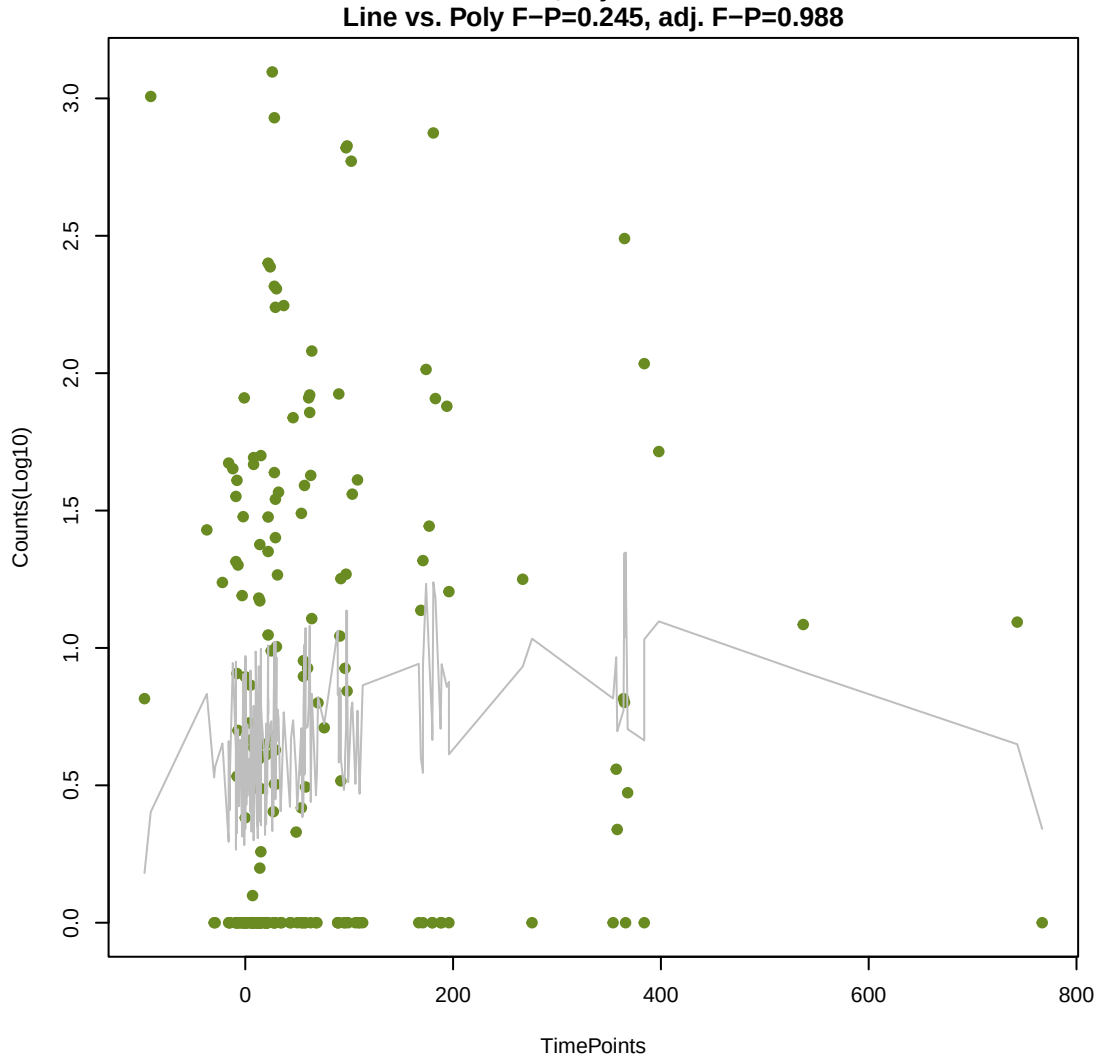
macrolide phosphotransferase (MPH)
ANOVA P=0.115, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.675, adj. F−P=1

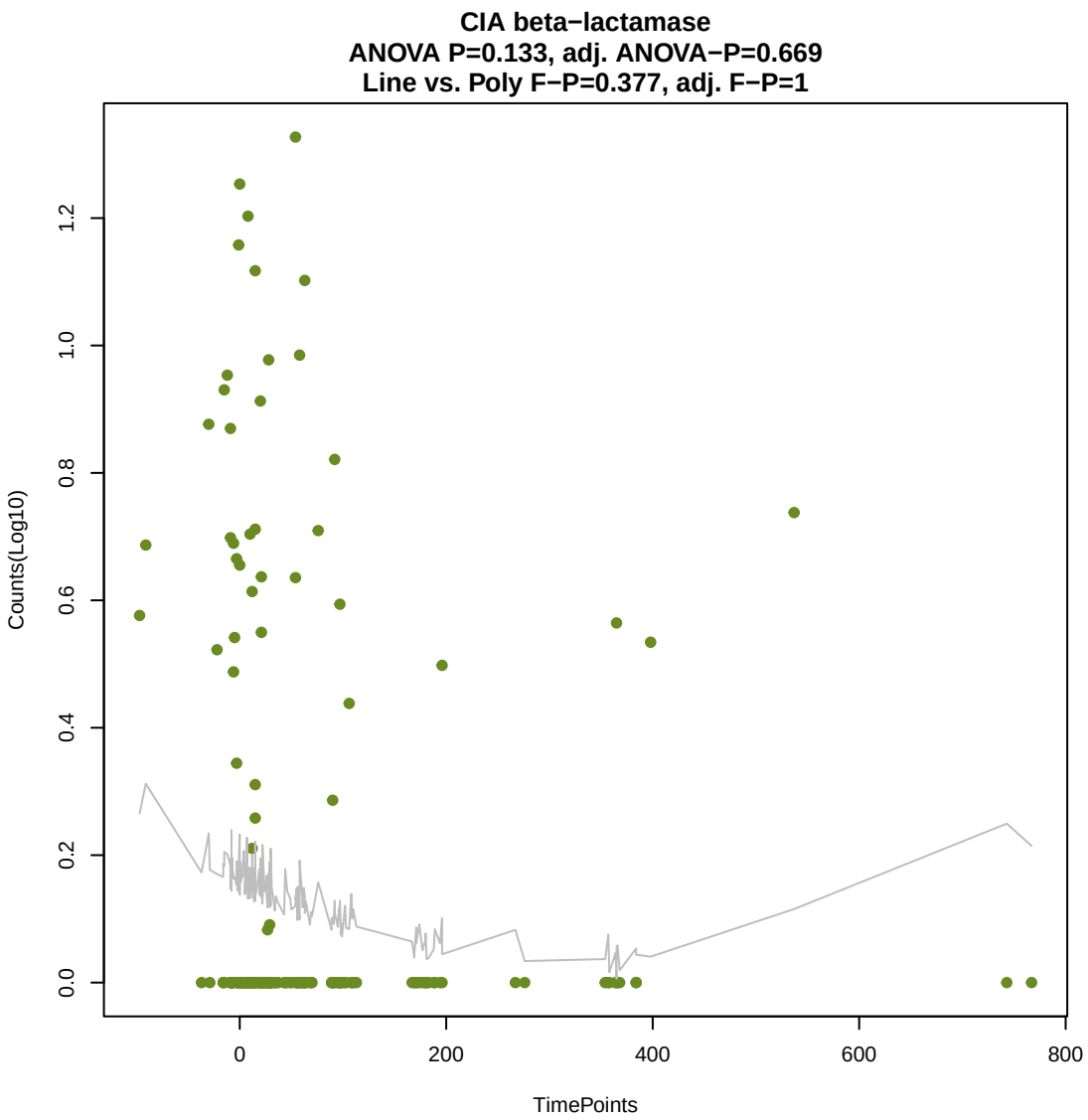


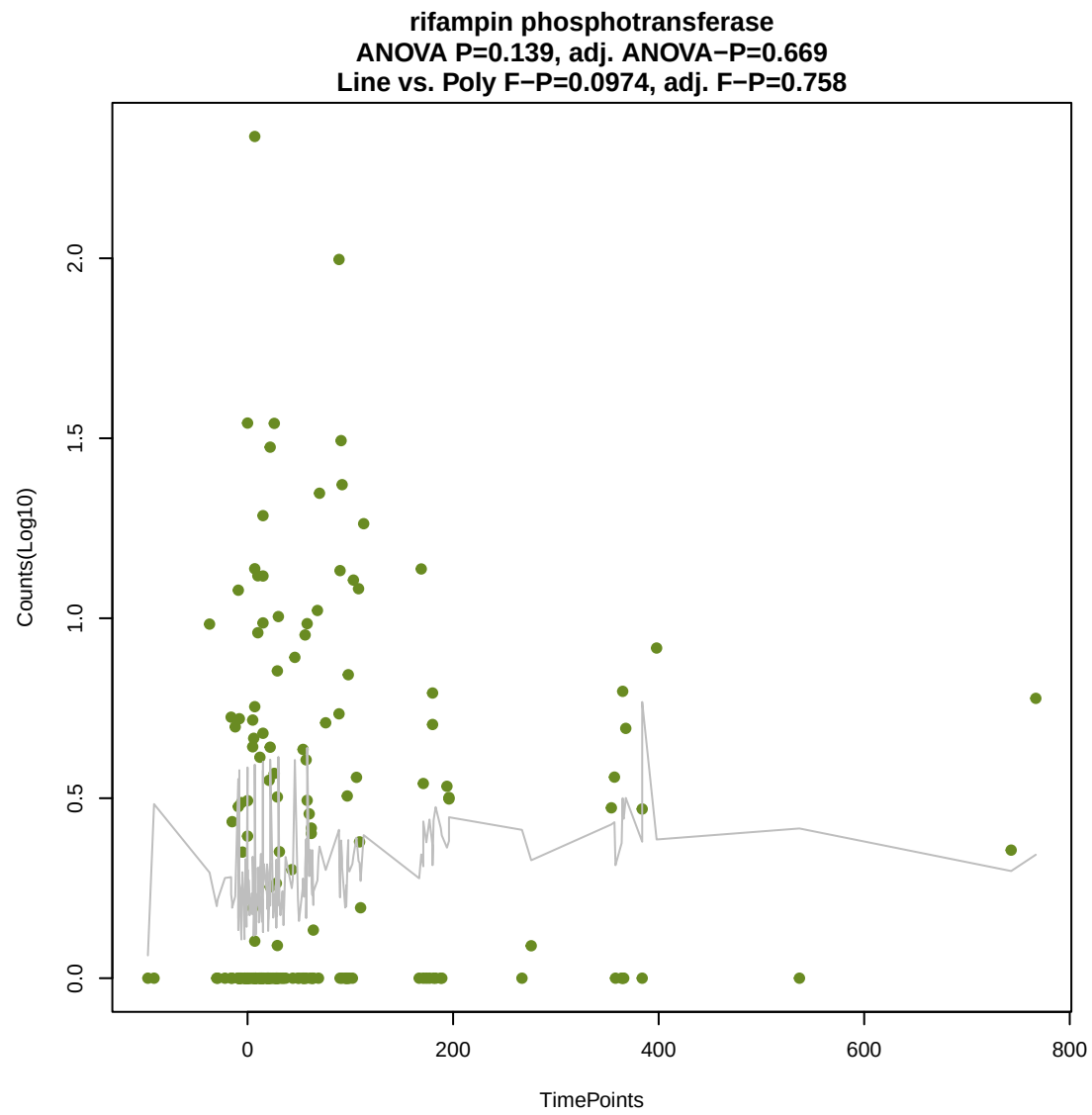
al Porin with reduced permeability to beta−lactams;resistance−nodulation−cell division (RN
ANOVA P=0.119, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.336, adj. F−P=1

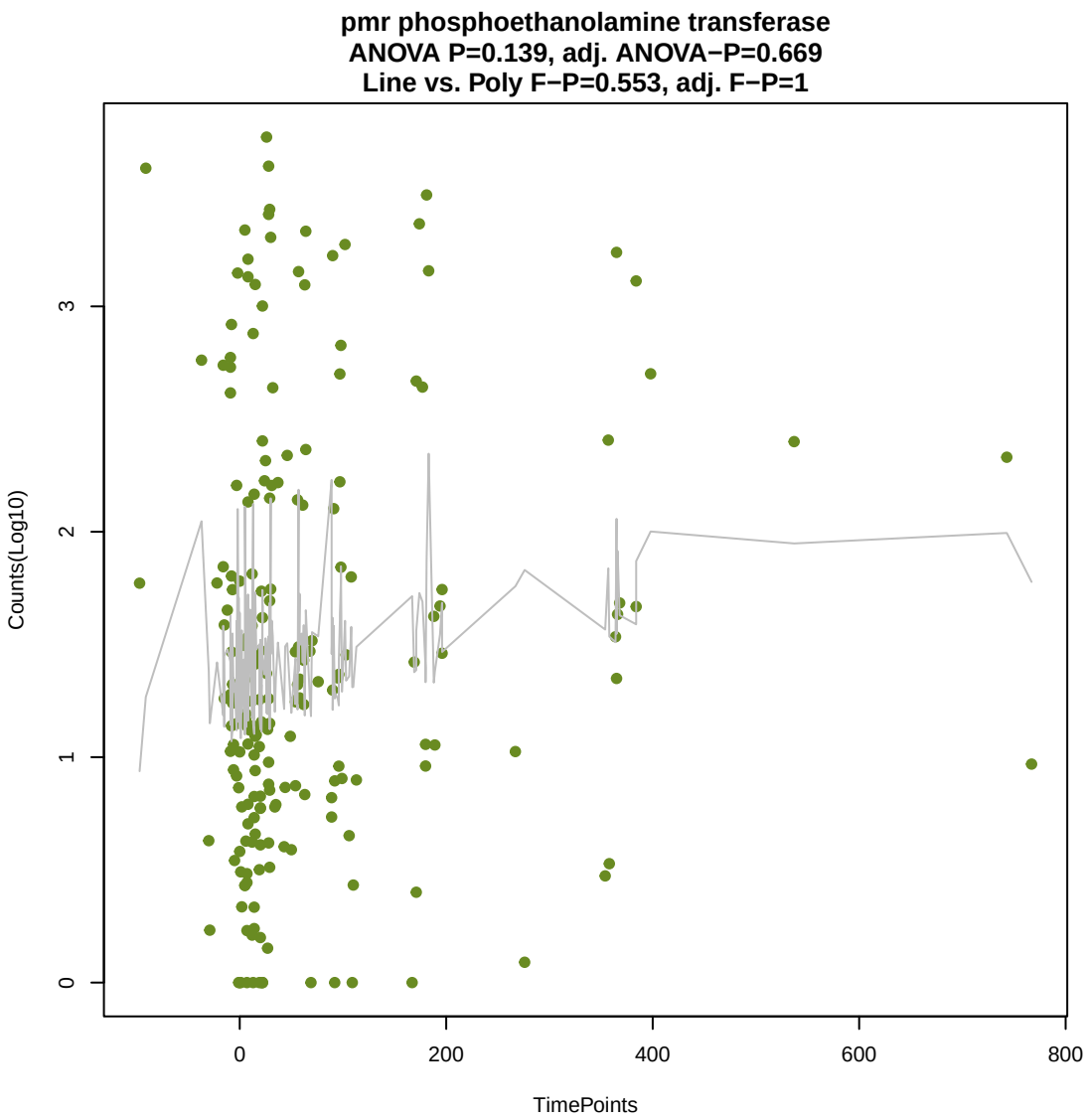


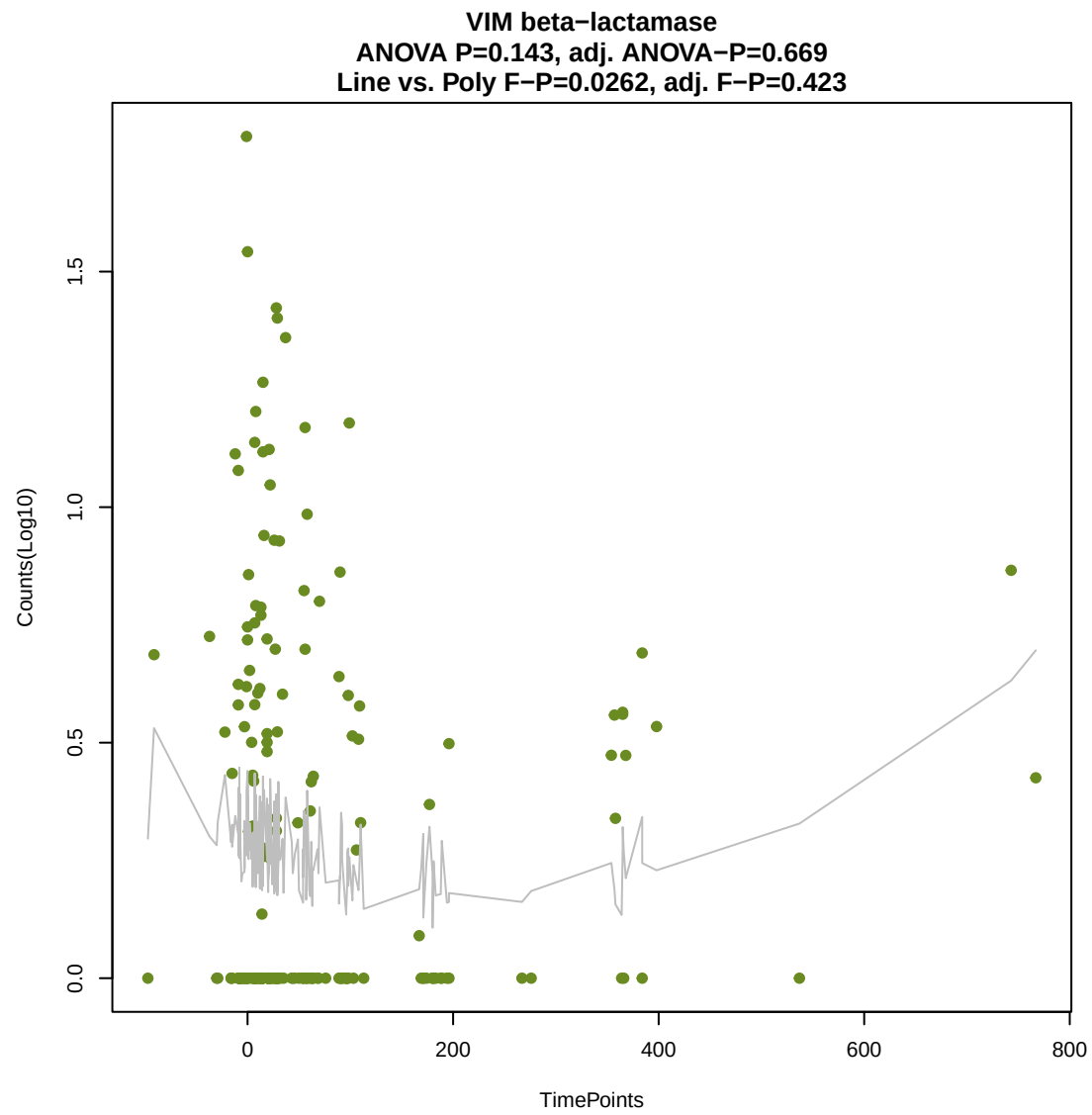
General Bacterial Porin with reduced permeability to beta−lactams
ANOVA P=0.122, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.245, adj. F−P=0.988




CIA beta−lactamase
ANOVA P=0.133, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.377, adj. F−P=1
Counts(Log10)
TimePoints

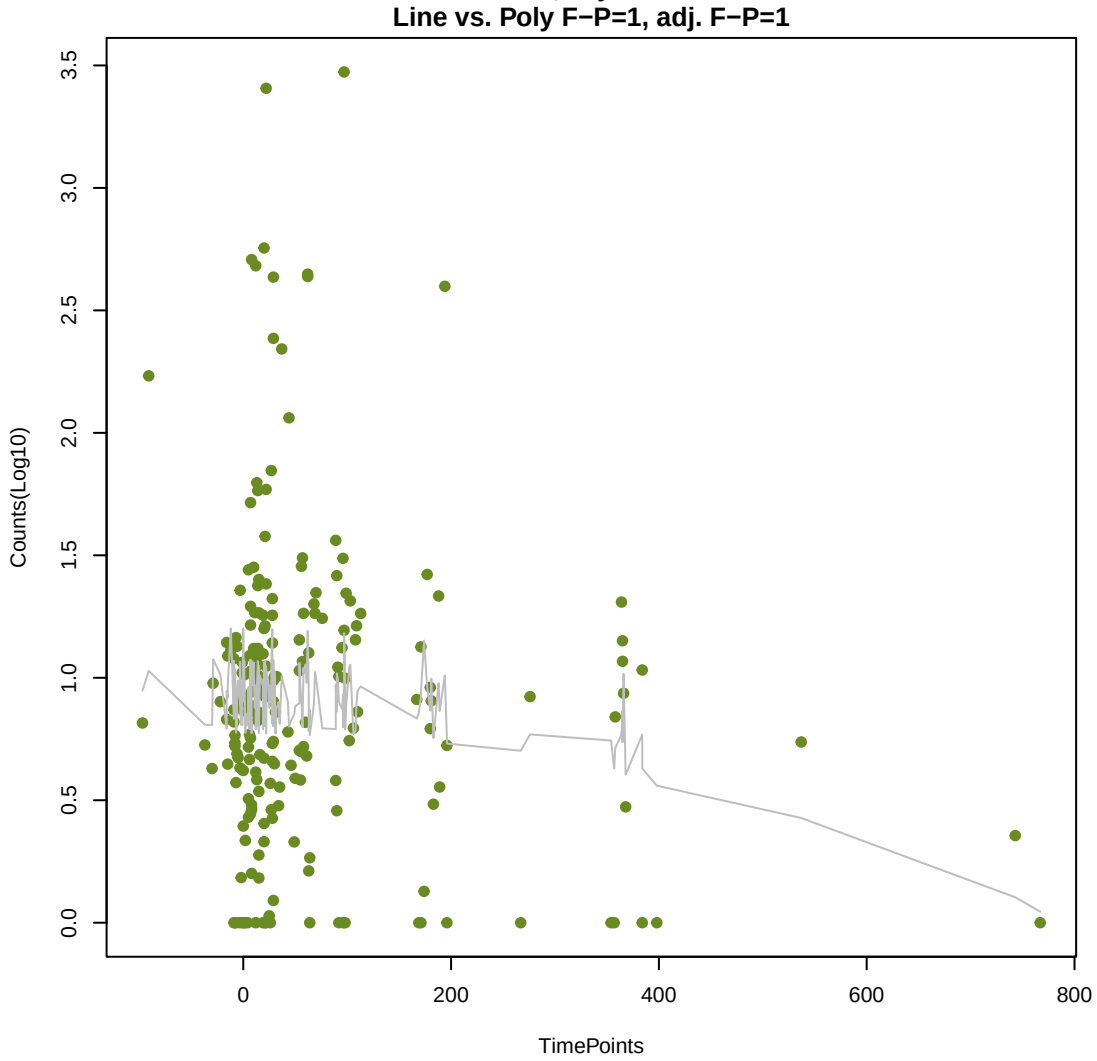

rifampin phosphotransferase
ANOVA P=0.139, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.0974, adj. F−P=0.758
Counts(Log10)
TimePoints

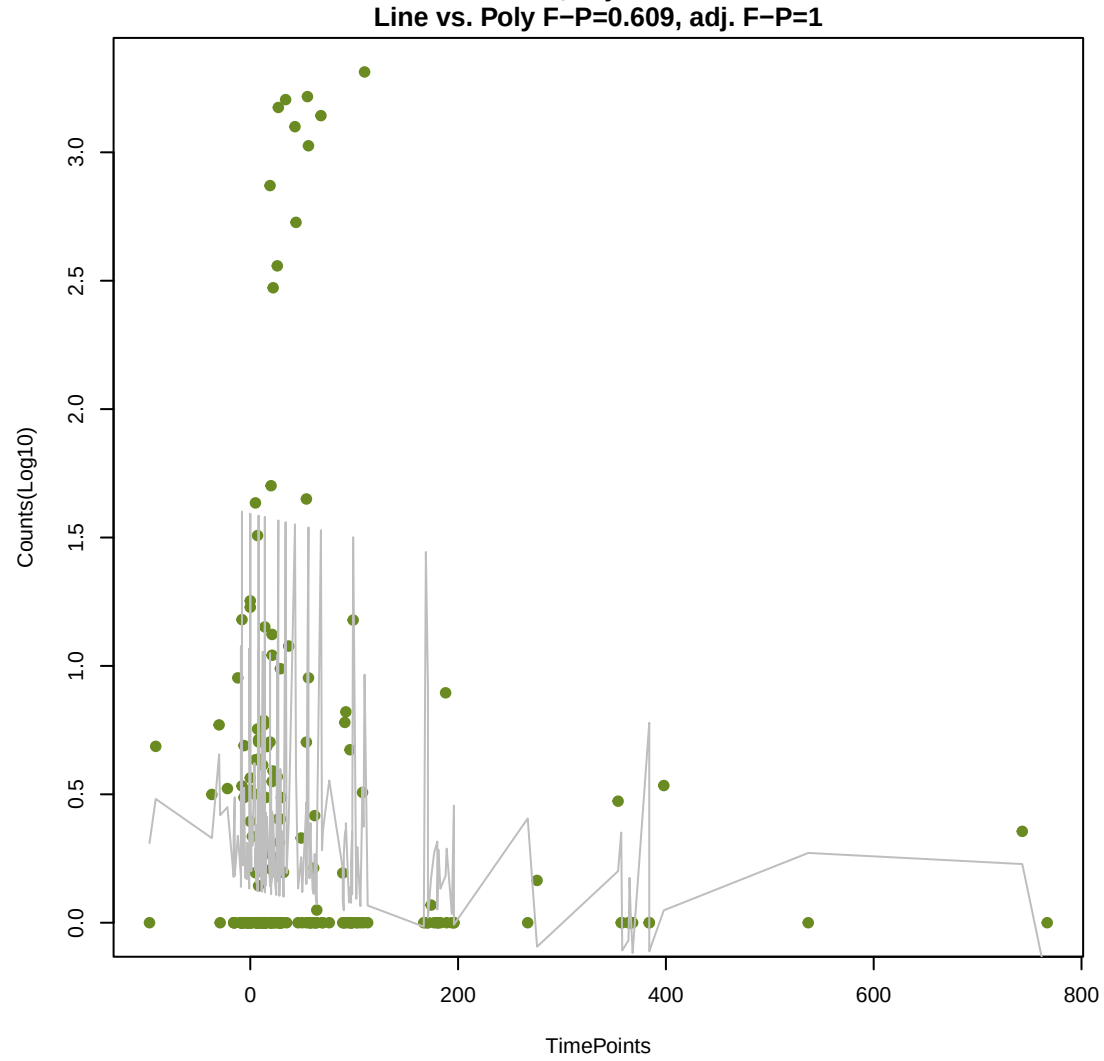

pmr phosphoethanolamine transferase
ANOVA P=0.139, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.553, adj. F−P=1
Counts(Log10)
TimePoints

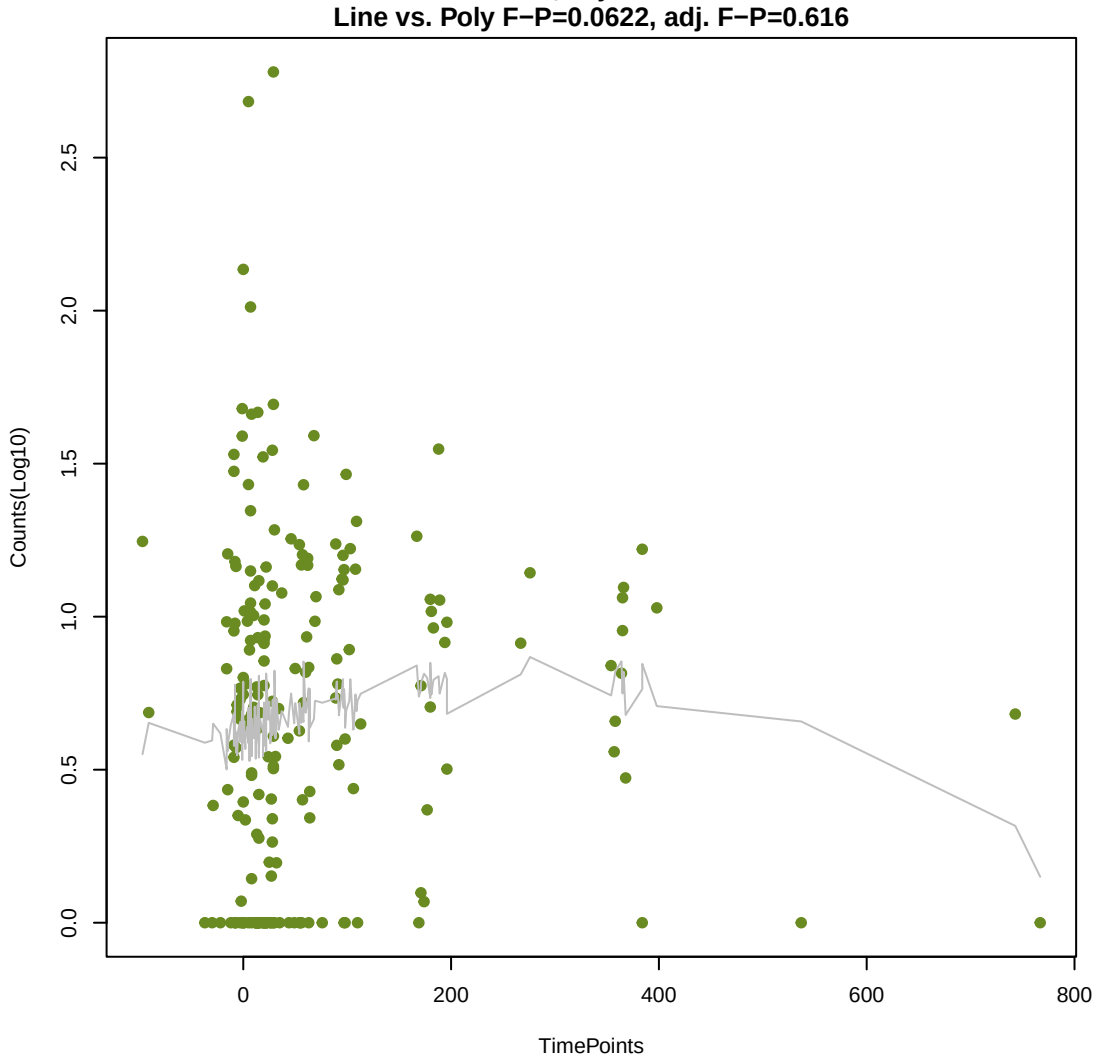

VIM beta−lactamase
ANOVA P=0.143, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.0262, adj. F−P=0.423
Counts(Log10)
TimePoints

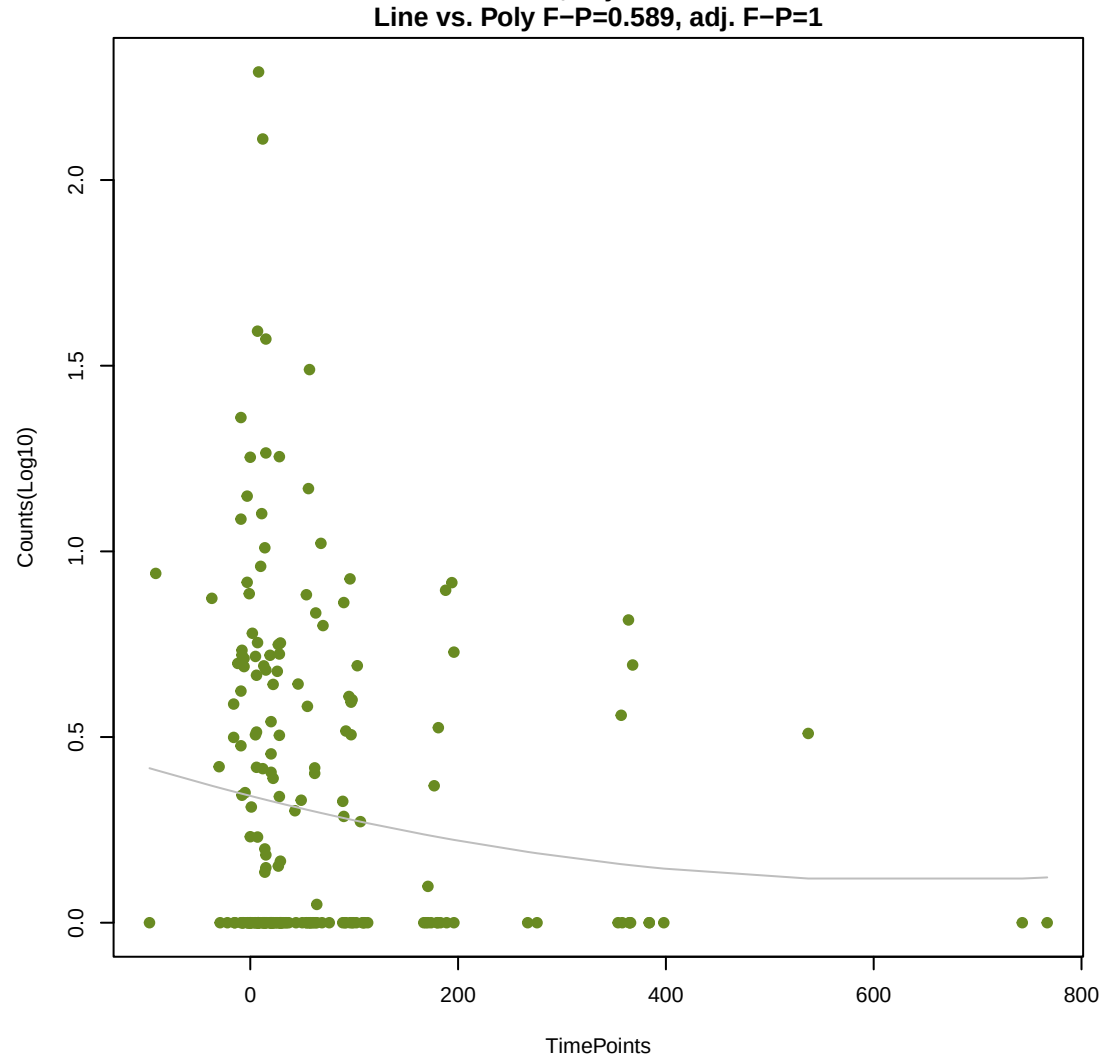
ic efflux pump;major facilitator superfamily (MFS) antibiotic efflux pump;resistance−nodula
ANOVA P=0.149, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.219, adj. F−P=0.988
Counts(Log10)
TimePoints

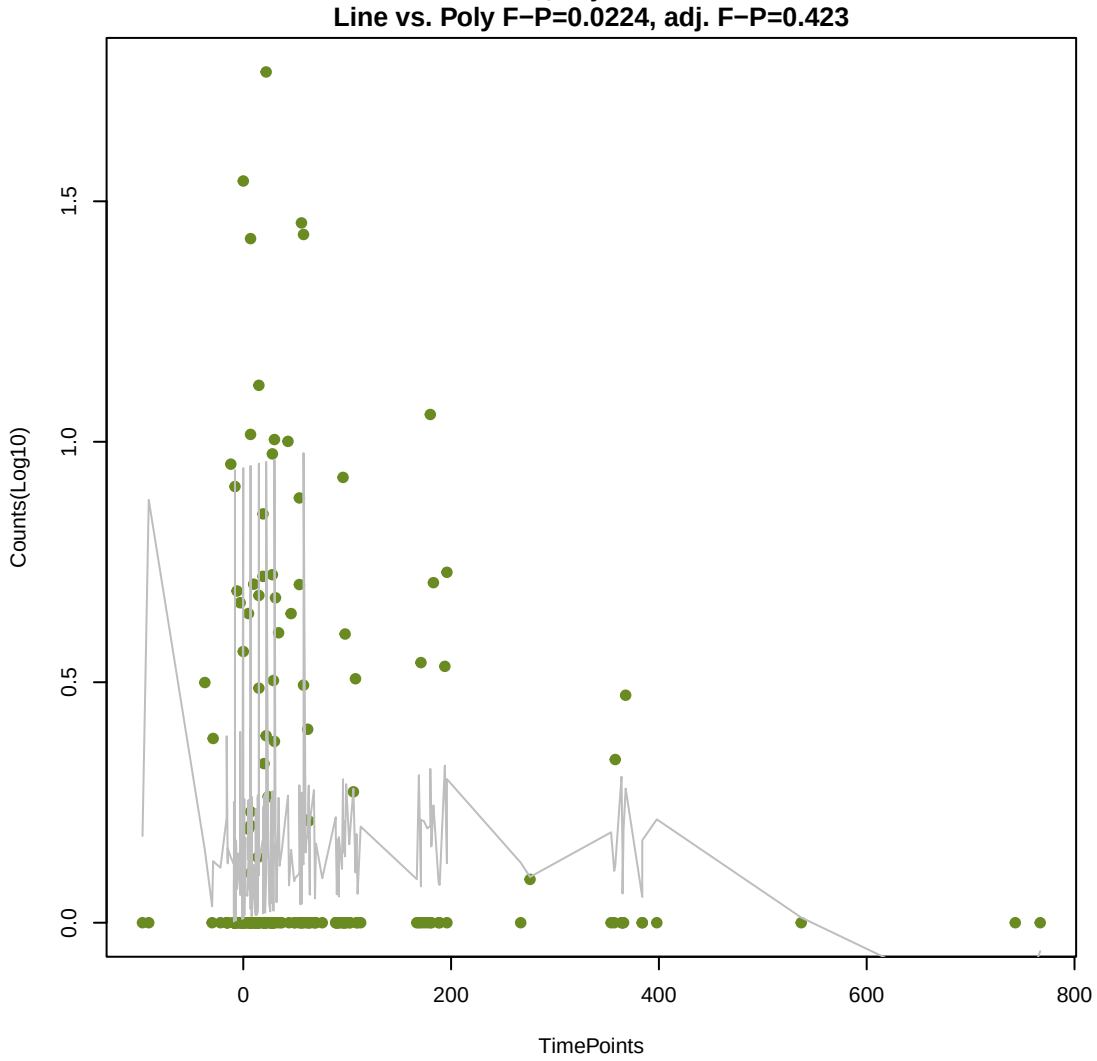
APH(6)
ANOVA P=0.152, adj. ANOVA−P=0.669
Line vs. Poly F−P=0.739, adj. F−P=1
Counts(Log10)
TimePoints

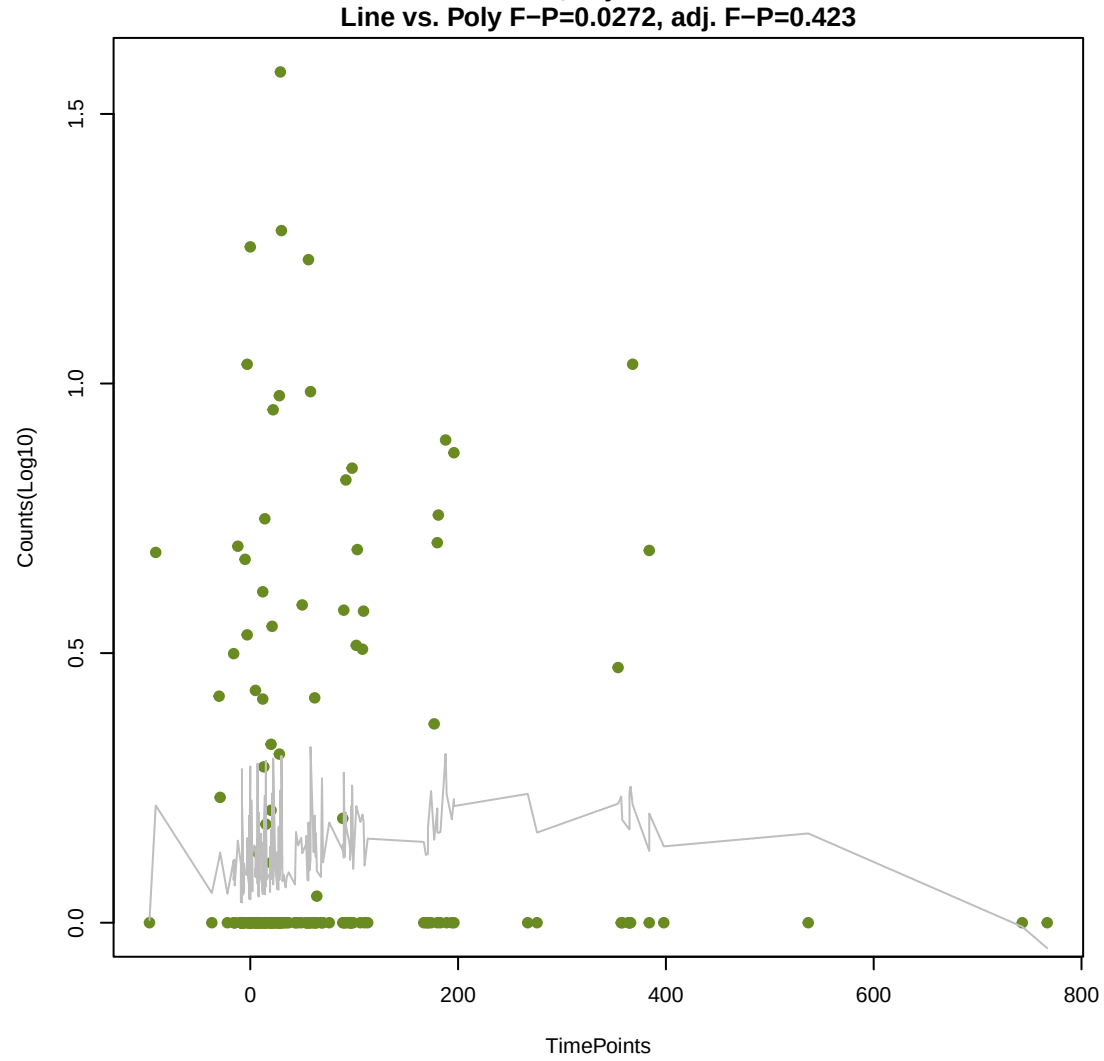

ACT beta−lactamase
ANOVA P=0.154, adj. ANOVA−P=0.669
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints


ANT(4')
ANOVA P=0.163, adj. ANOVA−P=0.685
Line vs. Poly F−P=0.609, adj. F−P=1
Counts(Log10)
TimePoints

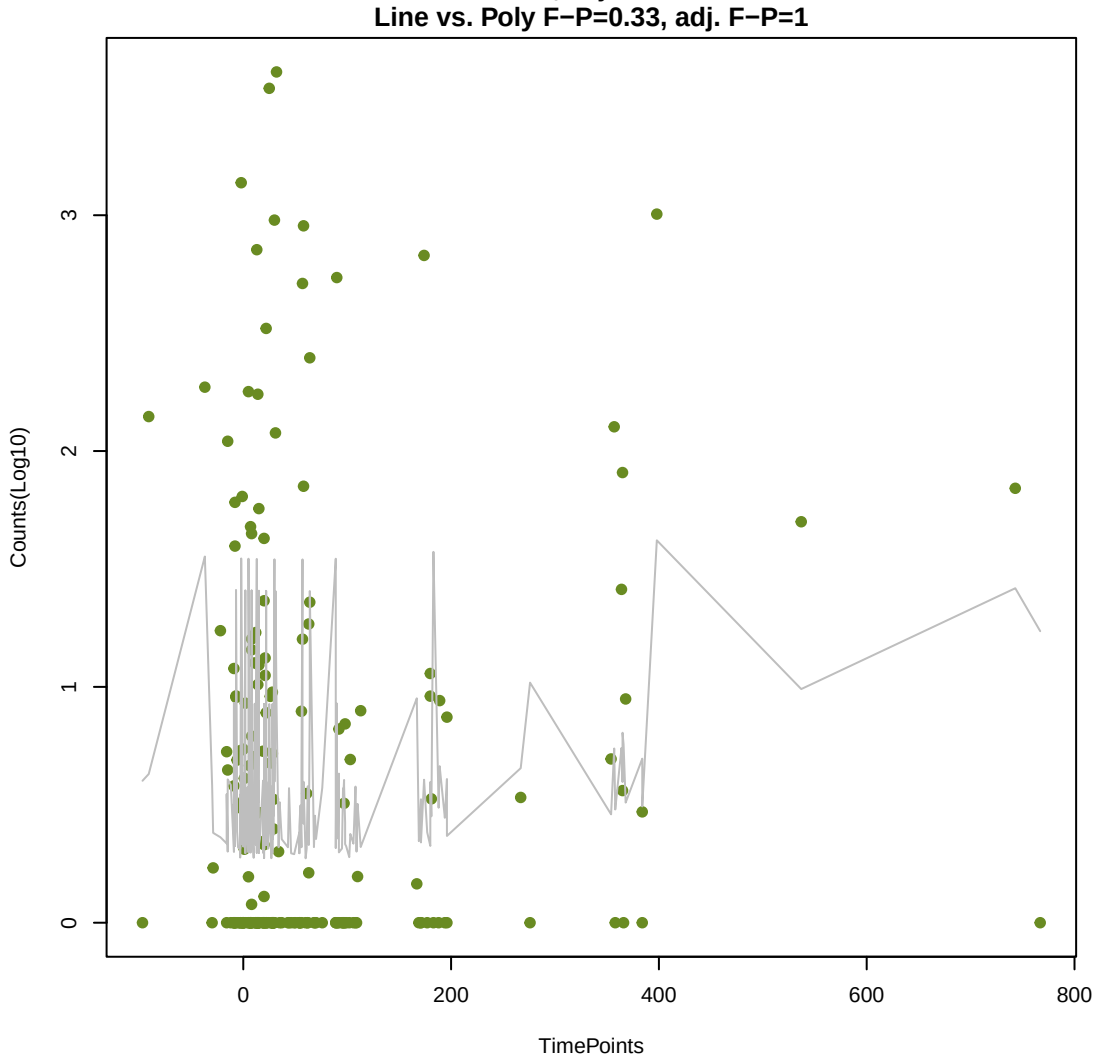

PDC beta−lactamase
ANOVA P=0.182, adj. ANOVA−P=0.706
Line vs. Poly F−P=0.0622, adj. F−P=0.616
Counts(Log10)
TimePoints


sal−type ABC−F protein
ANOVA P=0.184, adj. ANOVA−P=0.706
Line vs. Poly F−P=0.589, adj. F−P=1
Counts(Log10)
TimePoints

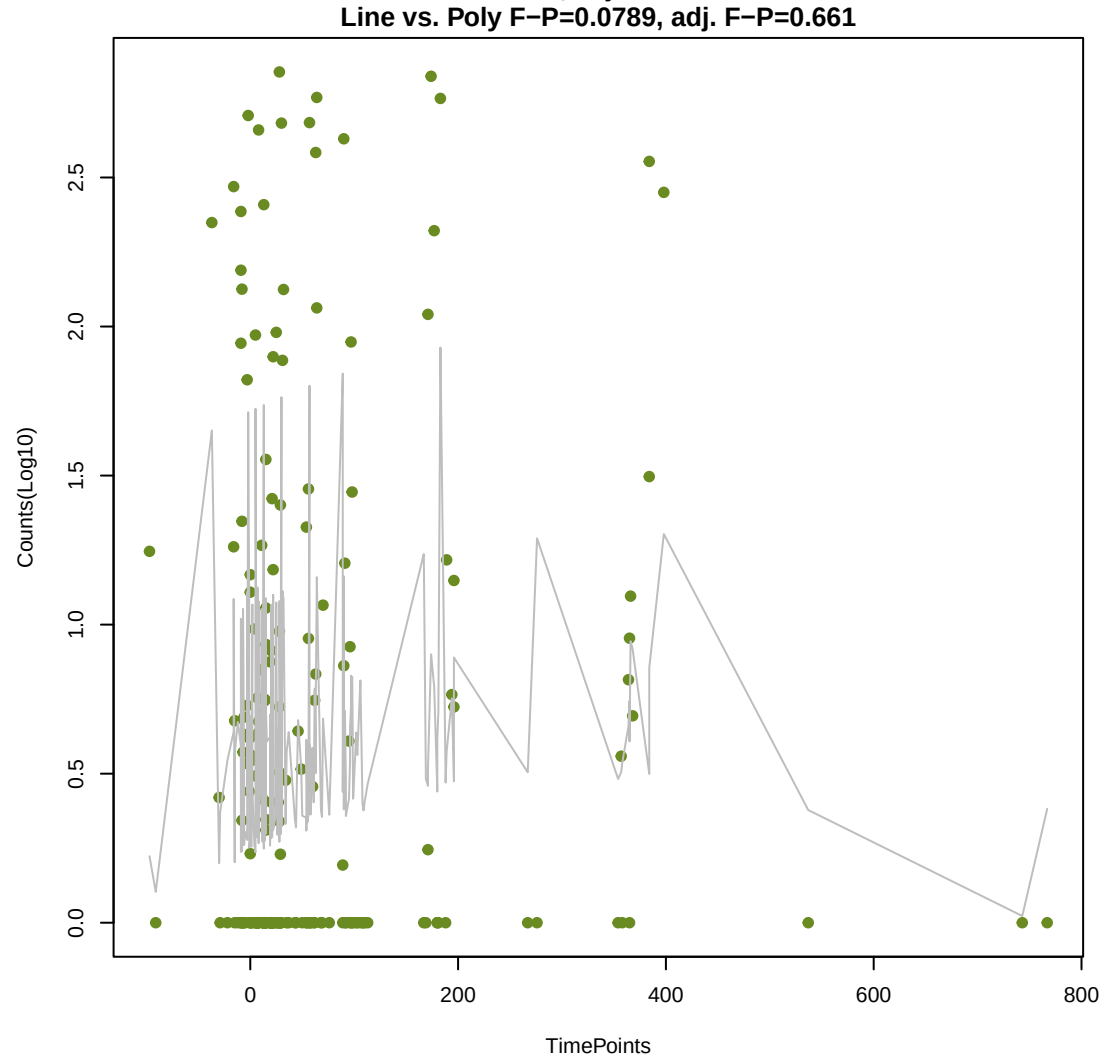

Bah amidohydrolase
ANOVA P=0.19, adj. ANOVA−P=0.706
Line vs. Poly F−P=0.0224, adj. F−P=0.423
Counts(Log10)
TimePoints


class C LRA beta−lactamase
ANOVA P=0.195, adj. ANOVA−P=0.706
Line vs. Poly F−P=0.0272, adj. F−P=0.423
Counts(Log10)
TimePoints

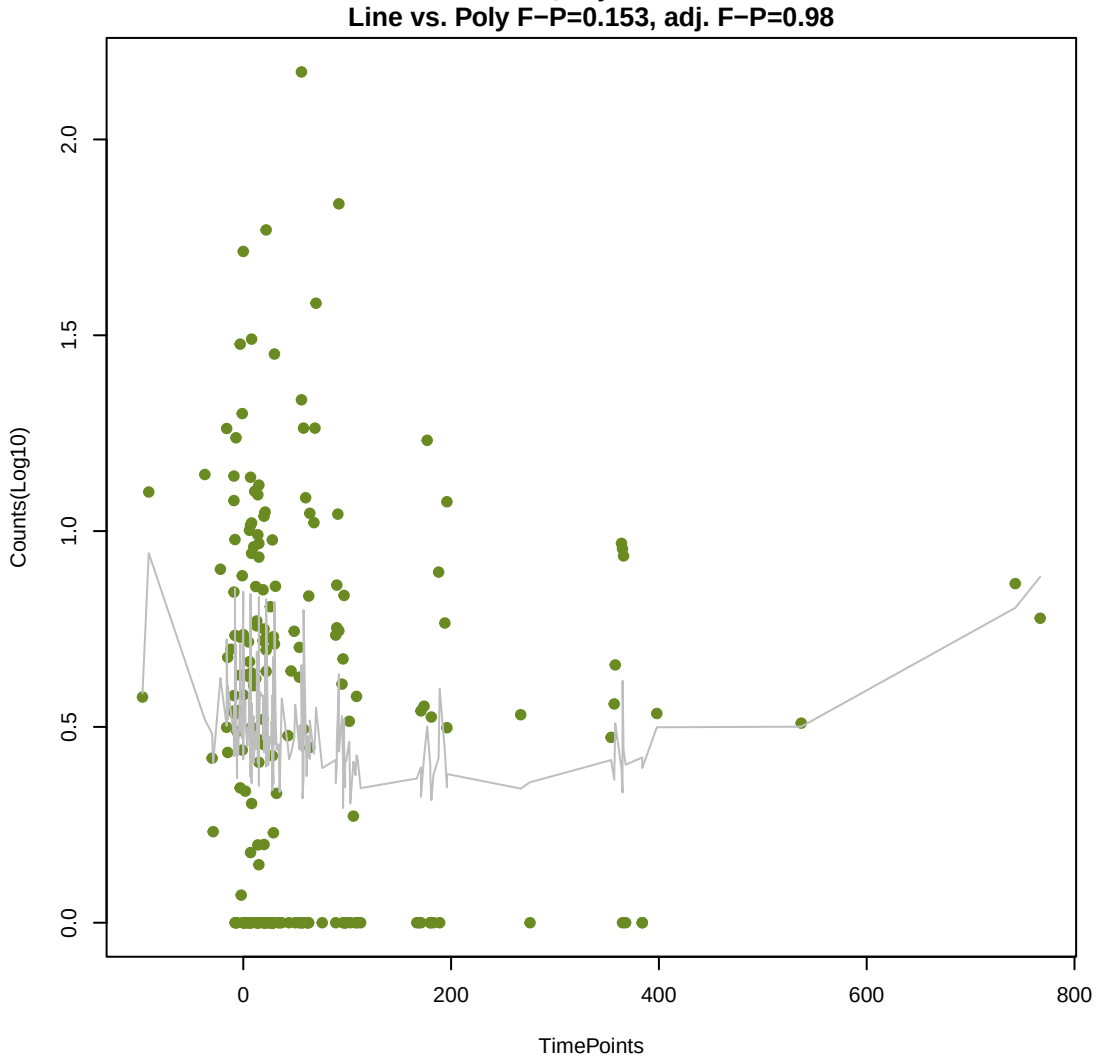
APH(3")
ANOVA P=0.201, adj. ANOVA−P=0.706
Line vs. Poly F−P=0.33, adj. F−P=1



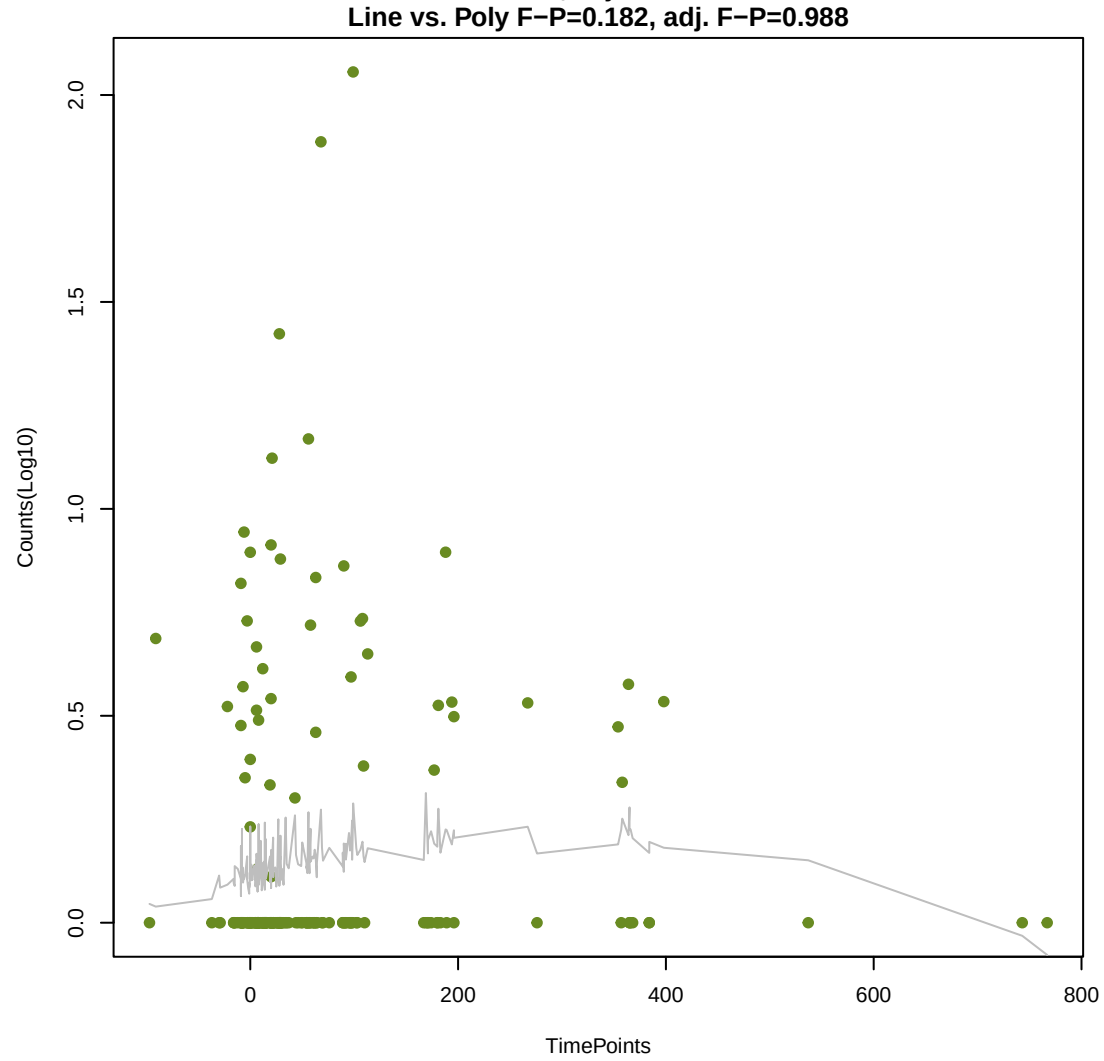
EC beta−lactamase
ANOVA P=0.223, adj. ANOVA−P=0.755
Line vs. Poly F−P=0.0789, adj. F−P=0.661



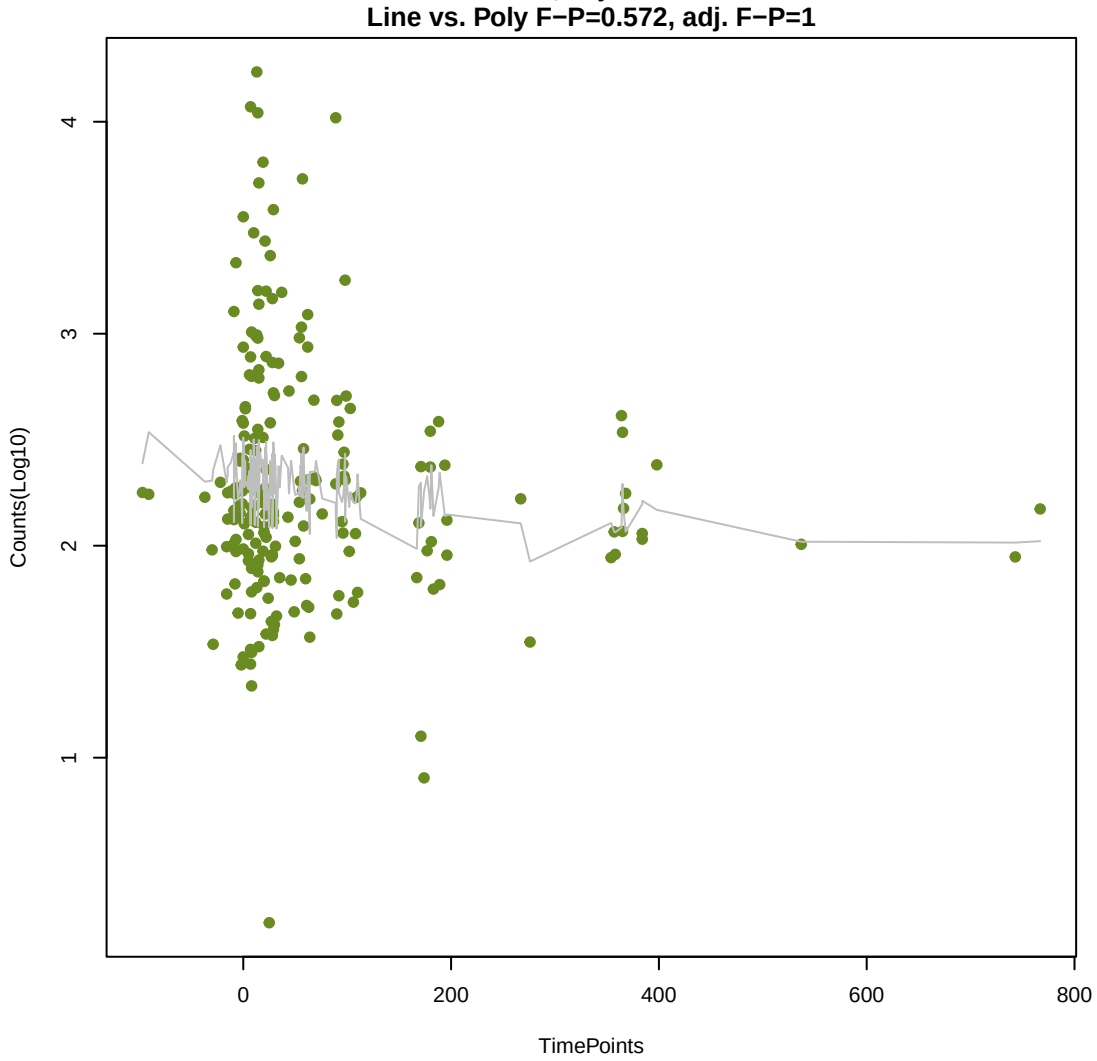
16S rRNA methyltransferase (G1405)
ANOVA P=0.228, adj. ANOVA−P=0.755
Line vs. Poly F−P=0.153, adj. F−P=0.98



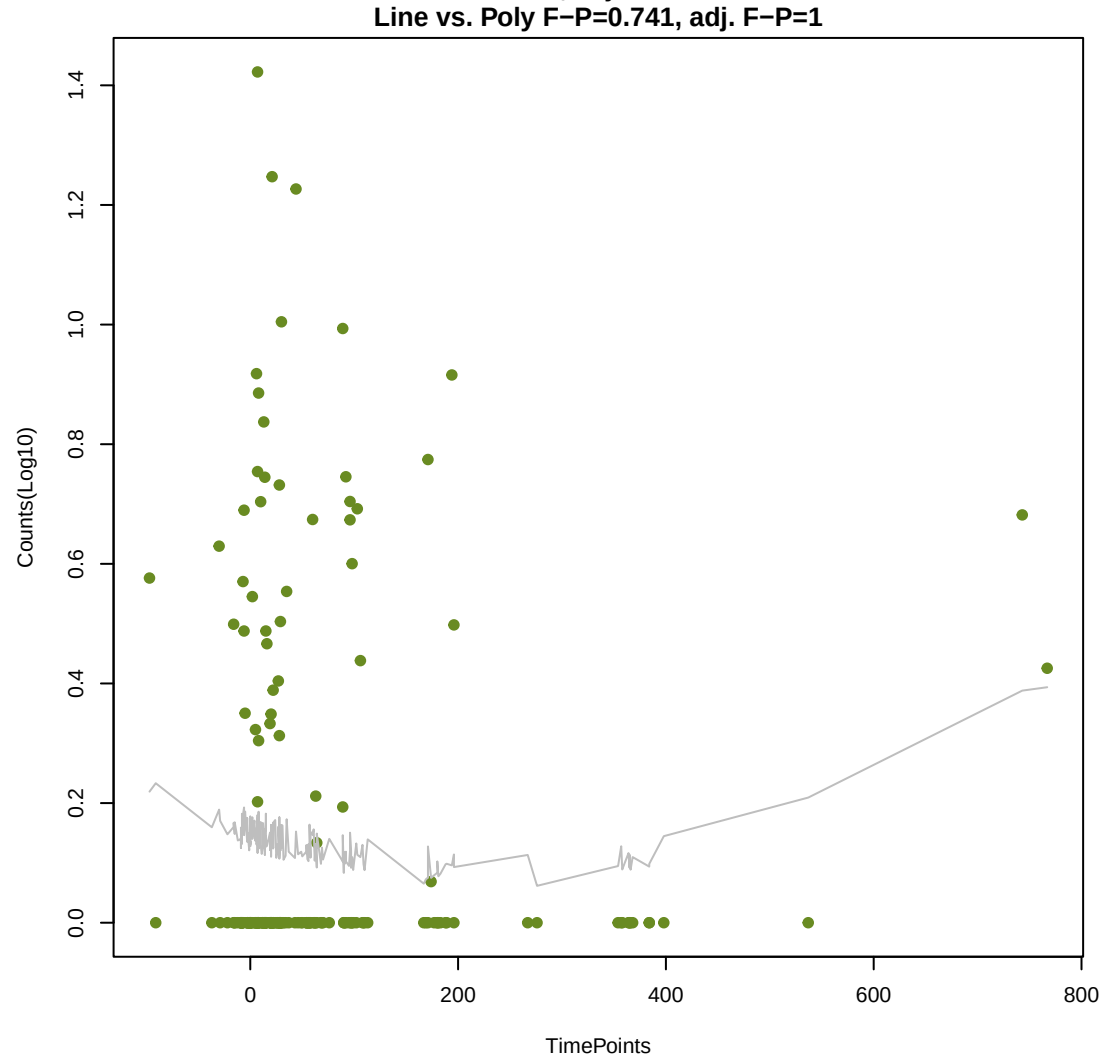
PME beta−lactamase
ANOVA P=0.252, adj. ANOVA−P=0.806
Line vs. Poly F−P=0.182, adj. F−P=0.988

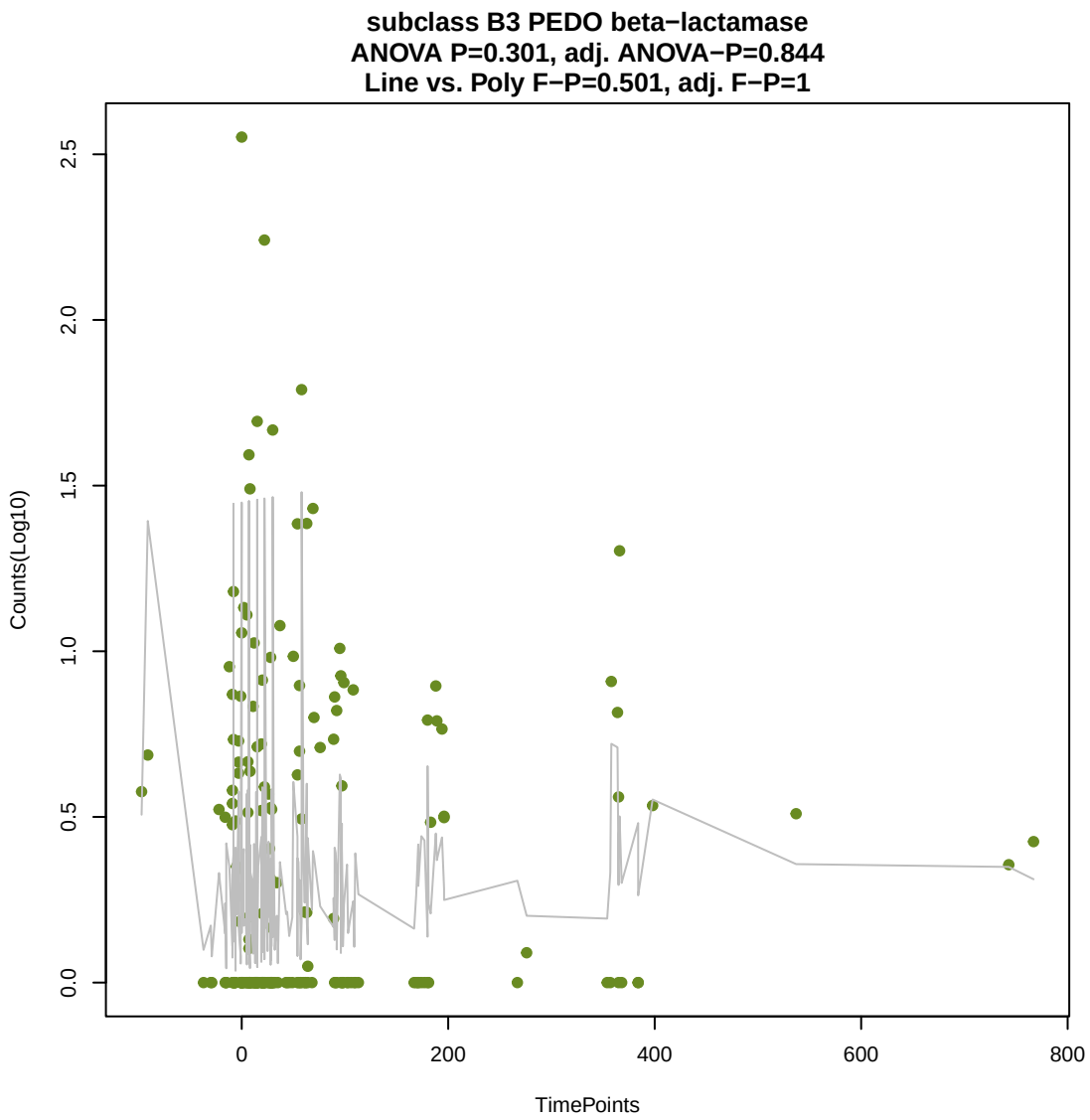


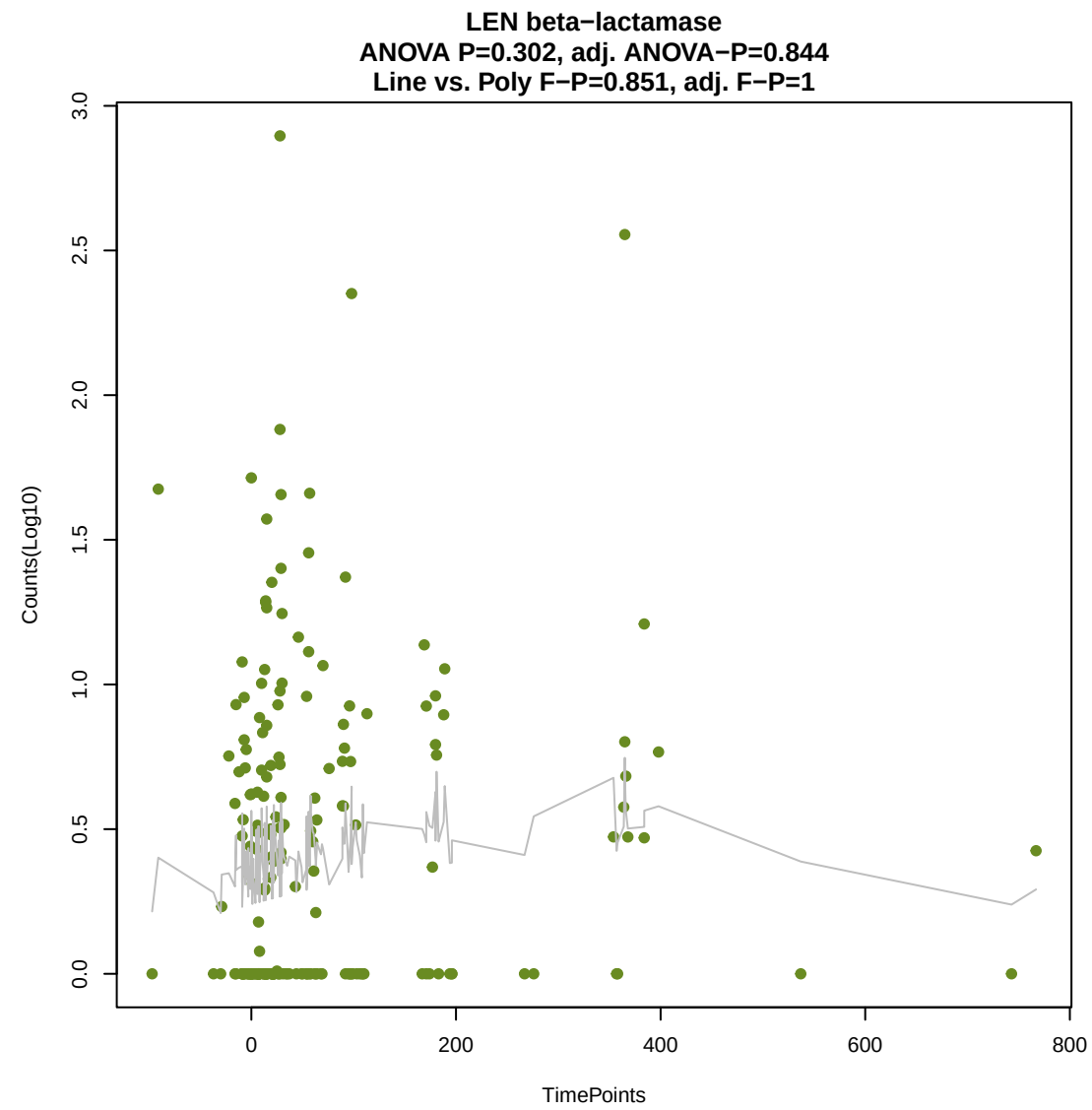
Bleomycin resistant protein
ANOVA P=0.259, adj. ANOVA−P=0.806
Line vs. Poly F−P=0.572, adj. F−P=1

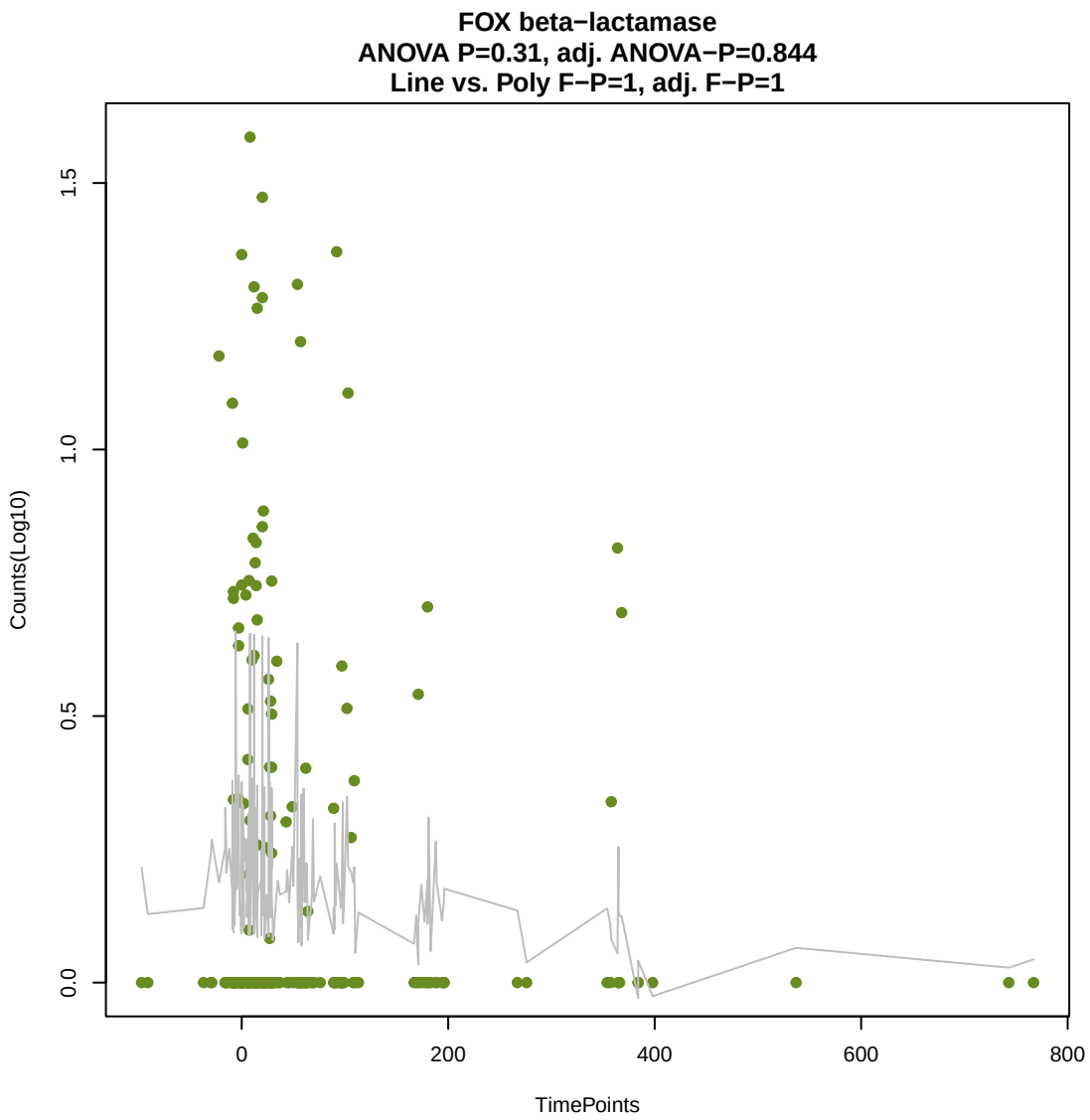


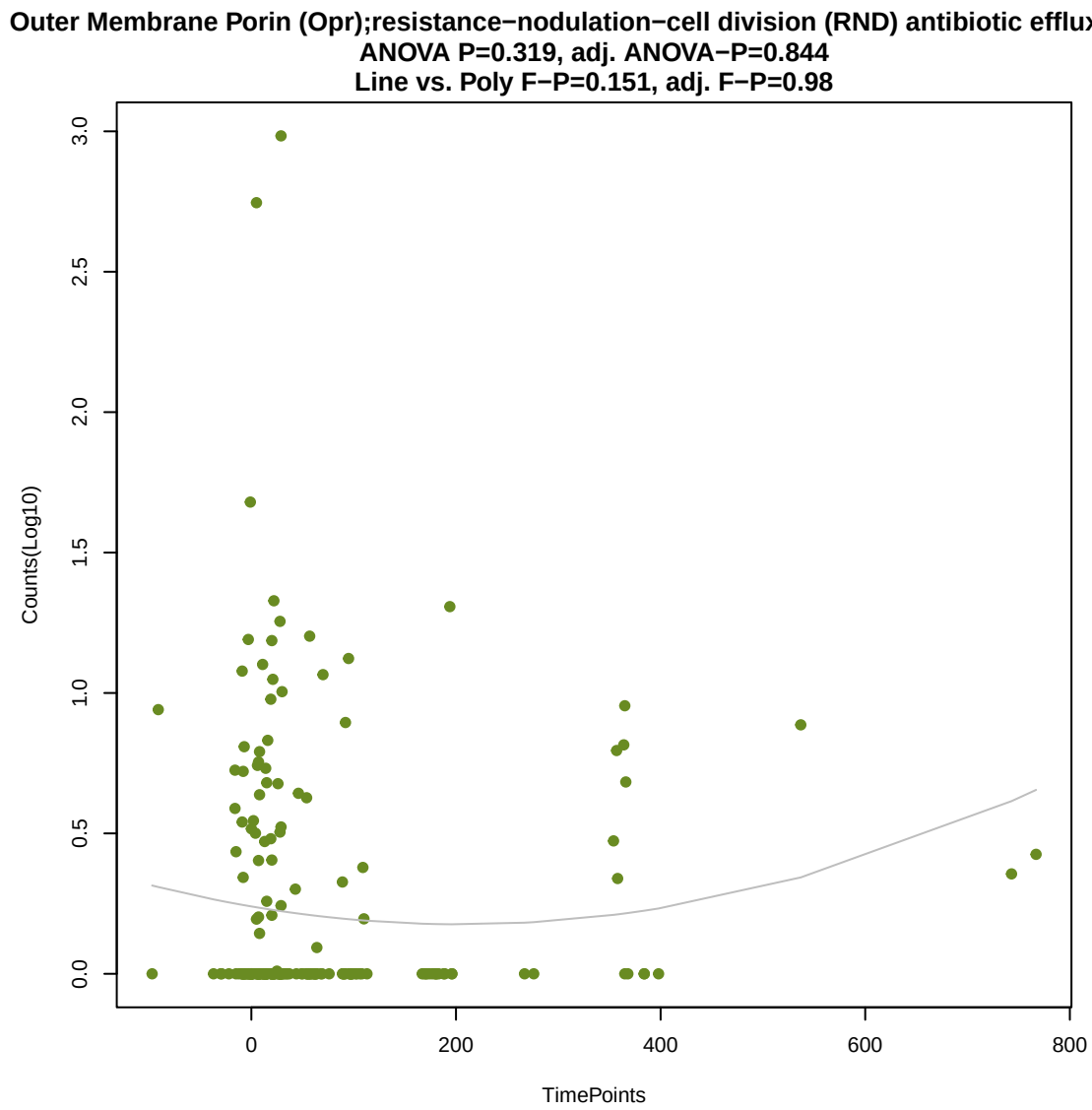
Target protecting FusB−type protein conferring resistance to Fusidic acid
ANOVA P=0.279, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.741, adj. F−P=1

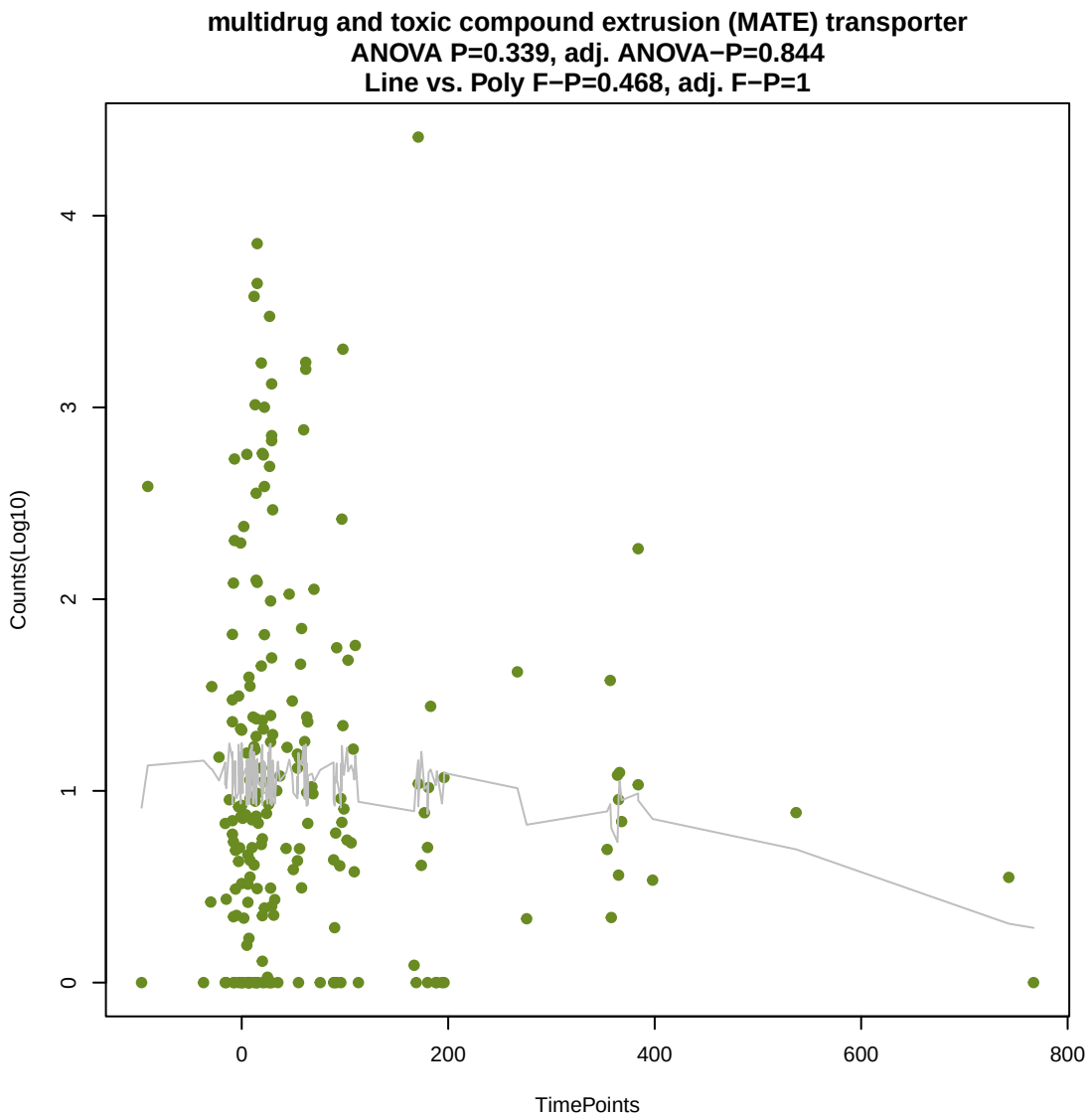


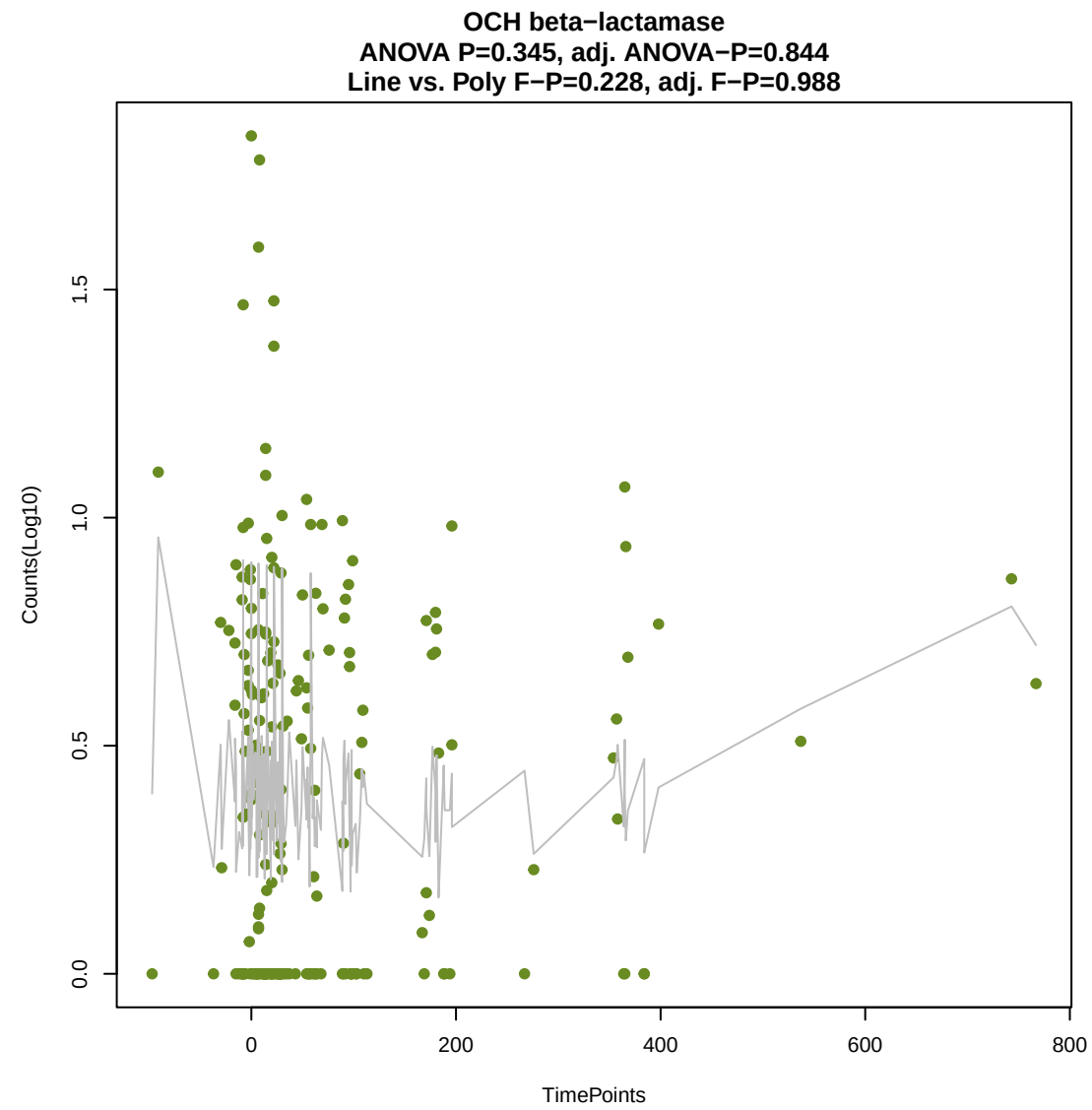

subclass B3 PEDO beta−lactamase
ANOVA P=0.301, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.501, adj. F−P=1
Counts(Log10)
TimePoints

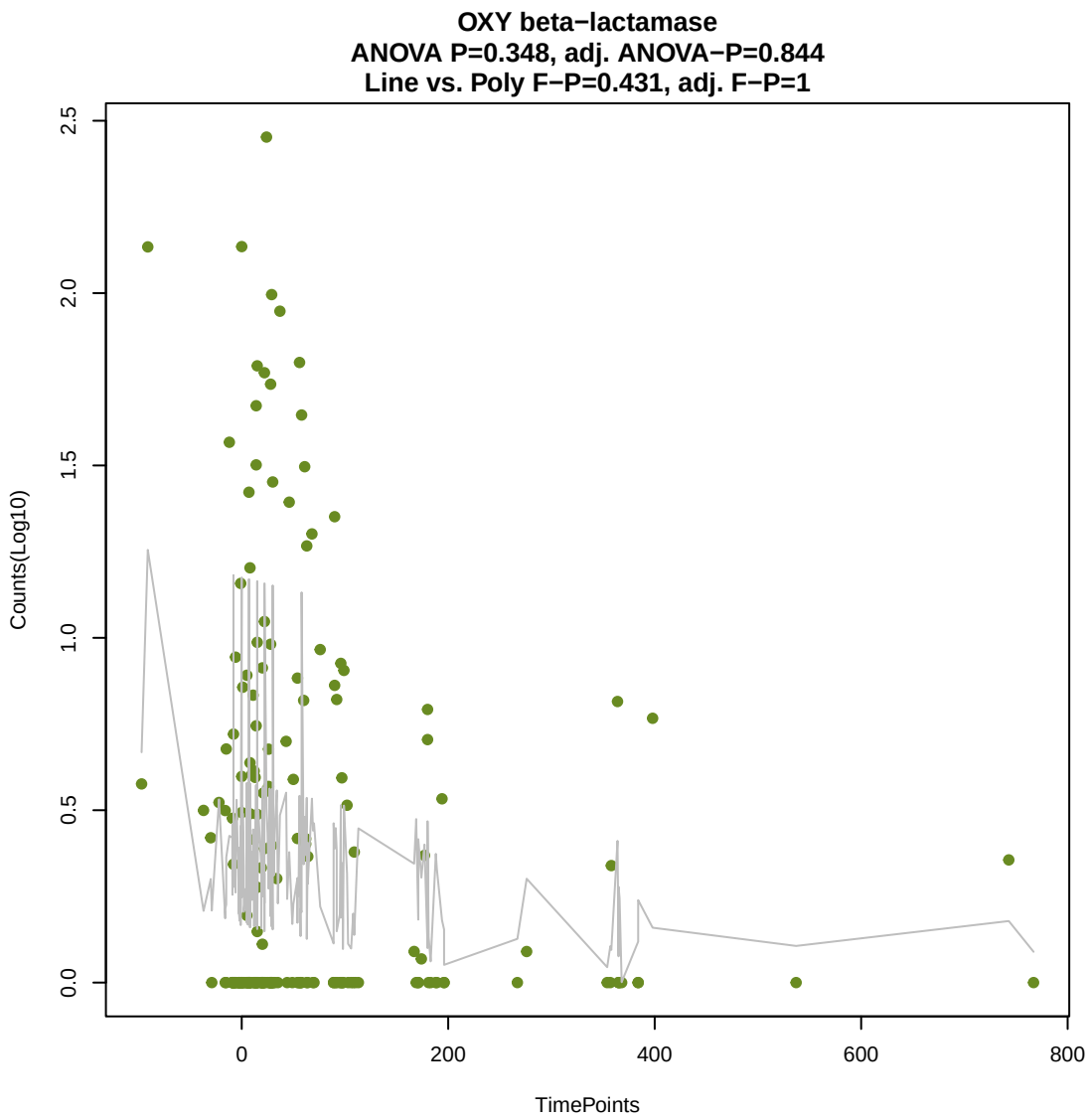

LEN beta−lactamase
ANOVA P=0.302, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.851, adj. F−P=1
Counts(Log10)
TimePoints

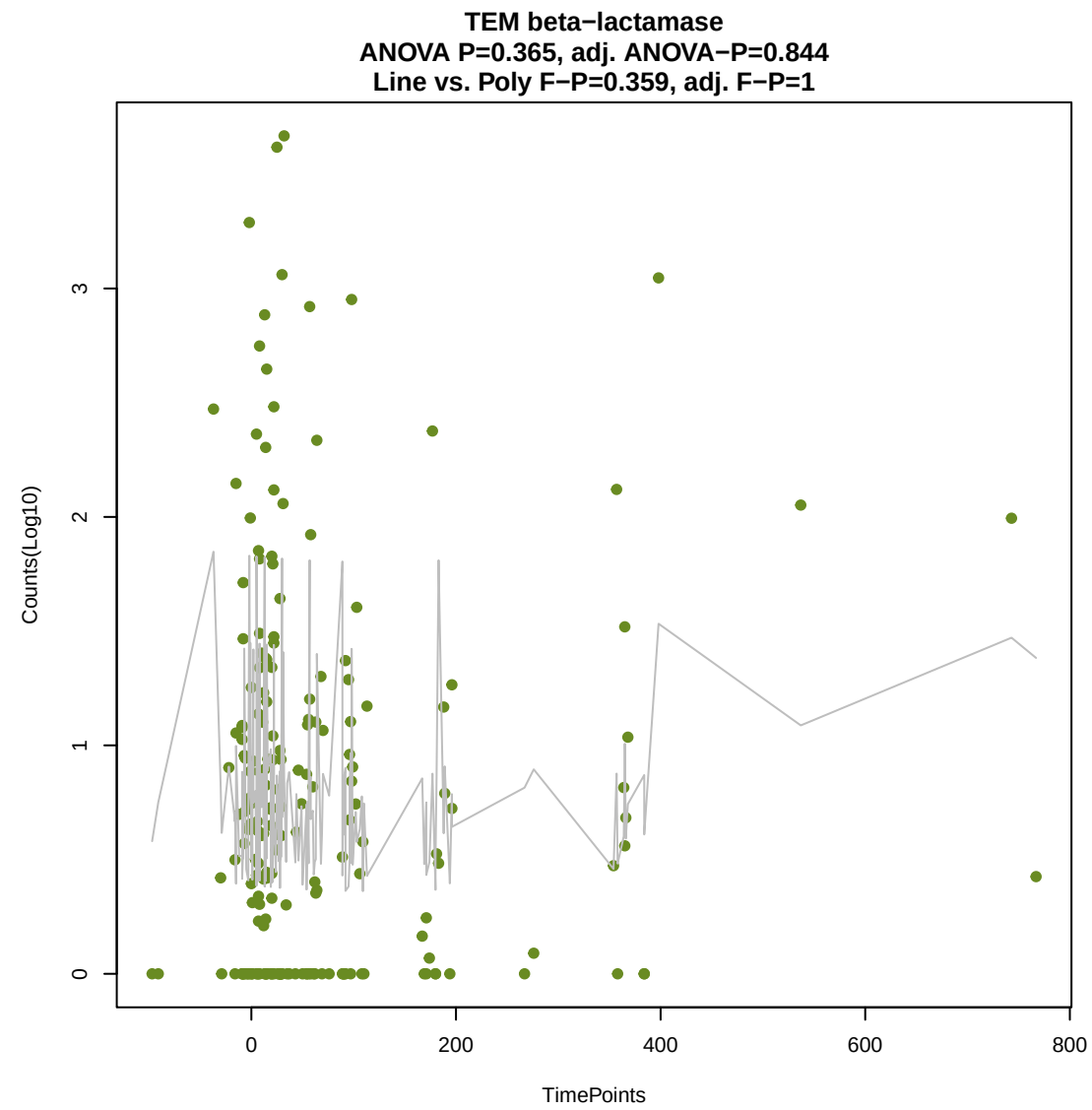

FOX beta−lactamase
ANOVA P=0.31, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

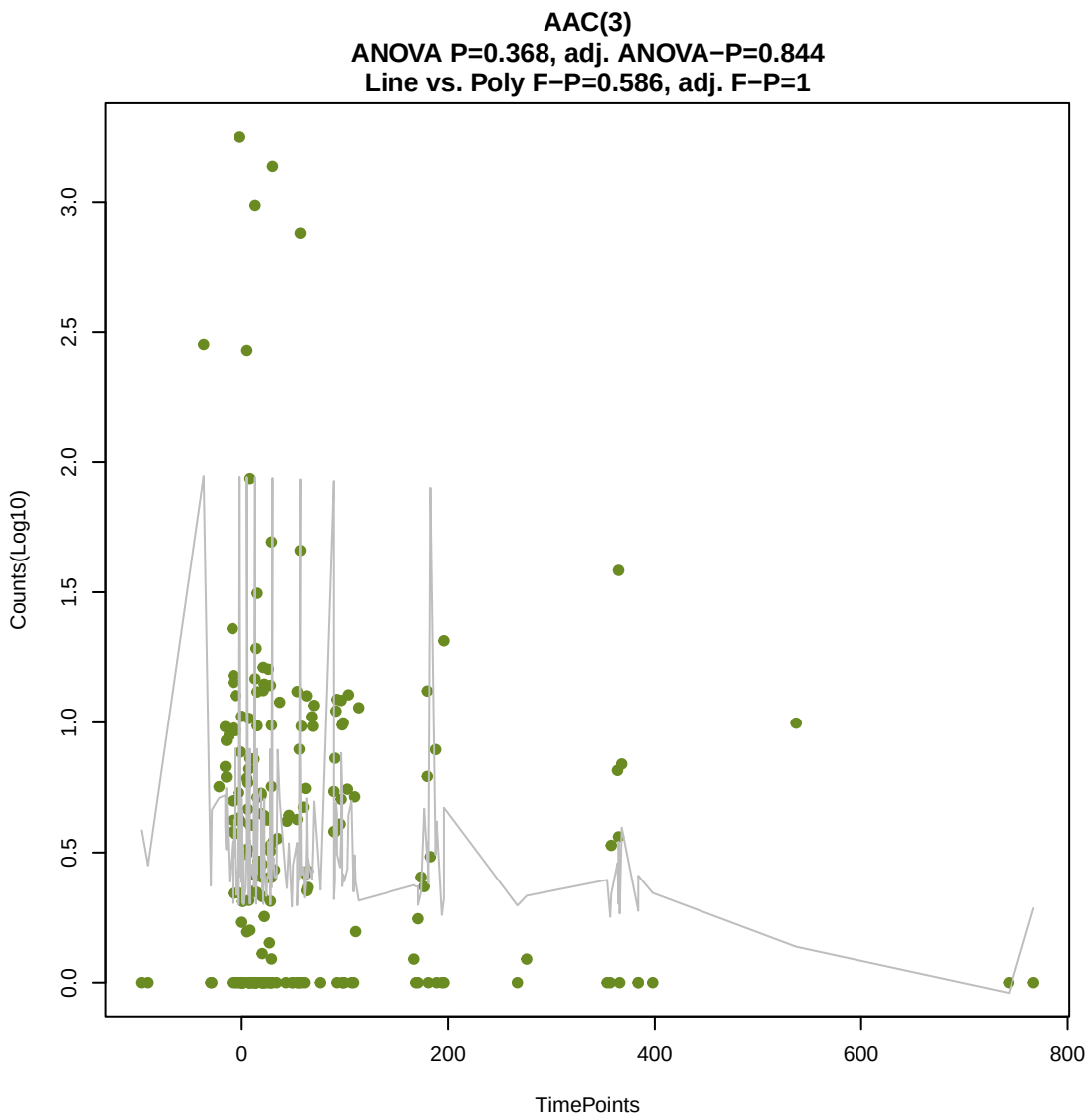

Outer Membrane Porin (Opr);resistance−nodulation−cell division (RND) antibiotic efflux
ANOVA P=0.319, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.151, adj. F−P=0.98
Counts(Log10)
TimePoints

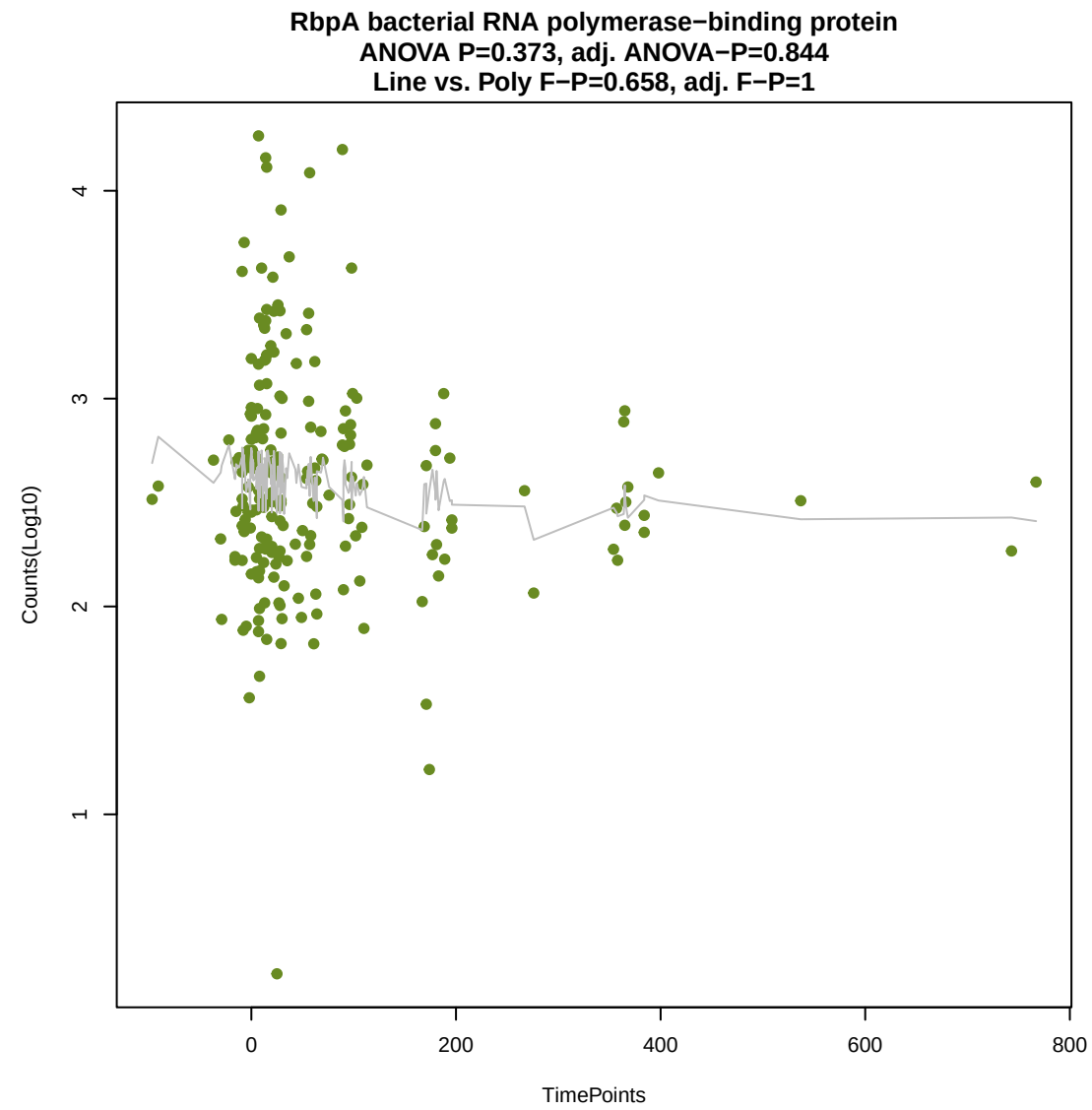

multidrug and toxic compound extrusion (MATE) transporter
ANOVA P=0.339, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.468, adj. F−P=1
Counts(Log10)
TimePoints

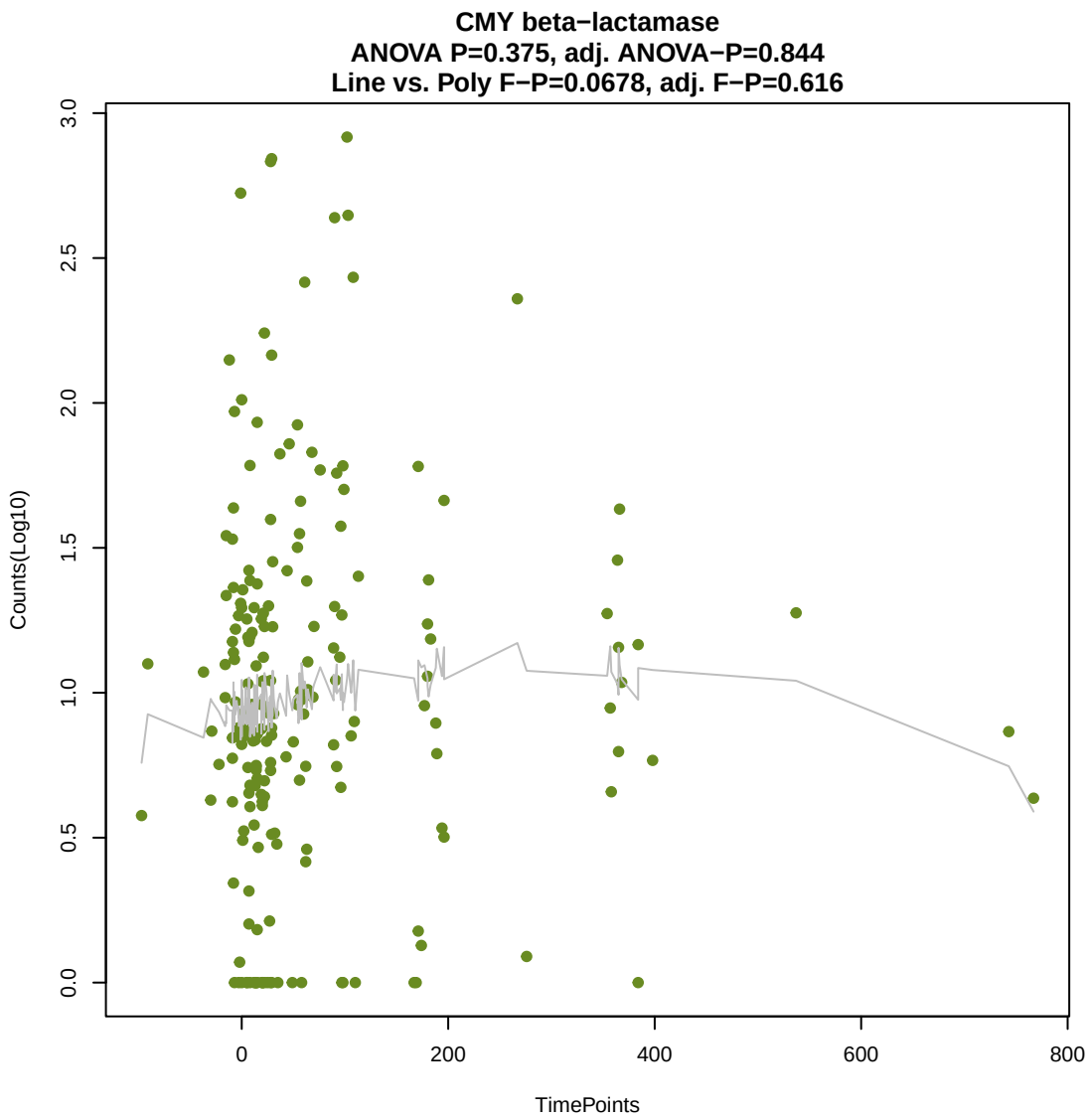

OCH beta−lactamase
ANOVA P=0.345, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.228, adj. F−P=0.988
Counts(Log10)
TimePoints

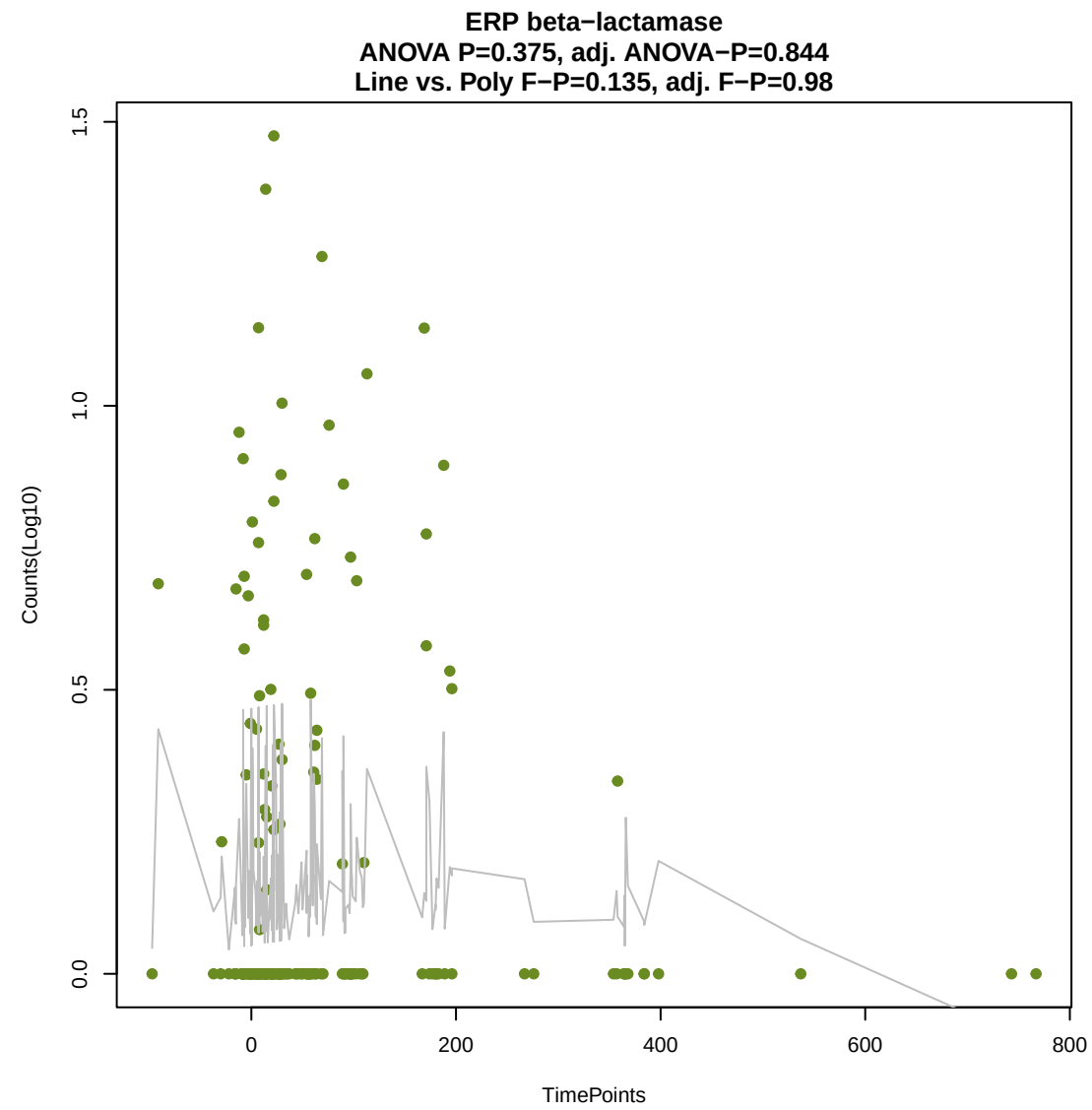

OXY beta−lactamase
ANOVA P=0.348, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.431, adj. F−P=1
Counts(Log10)
TimePoints

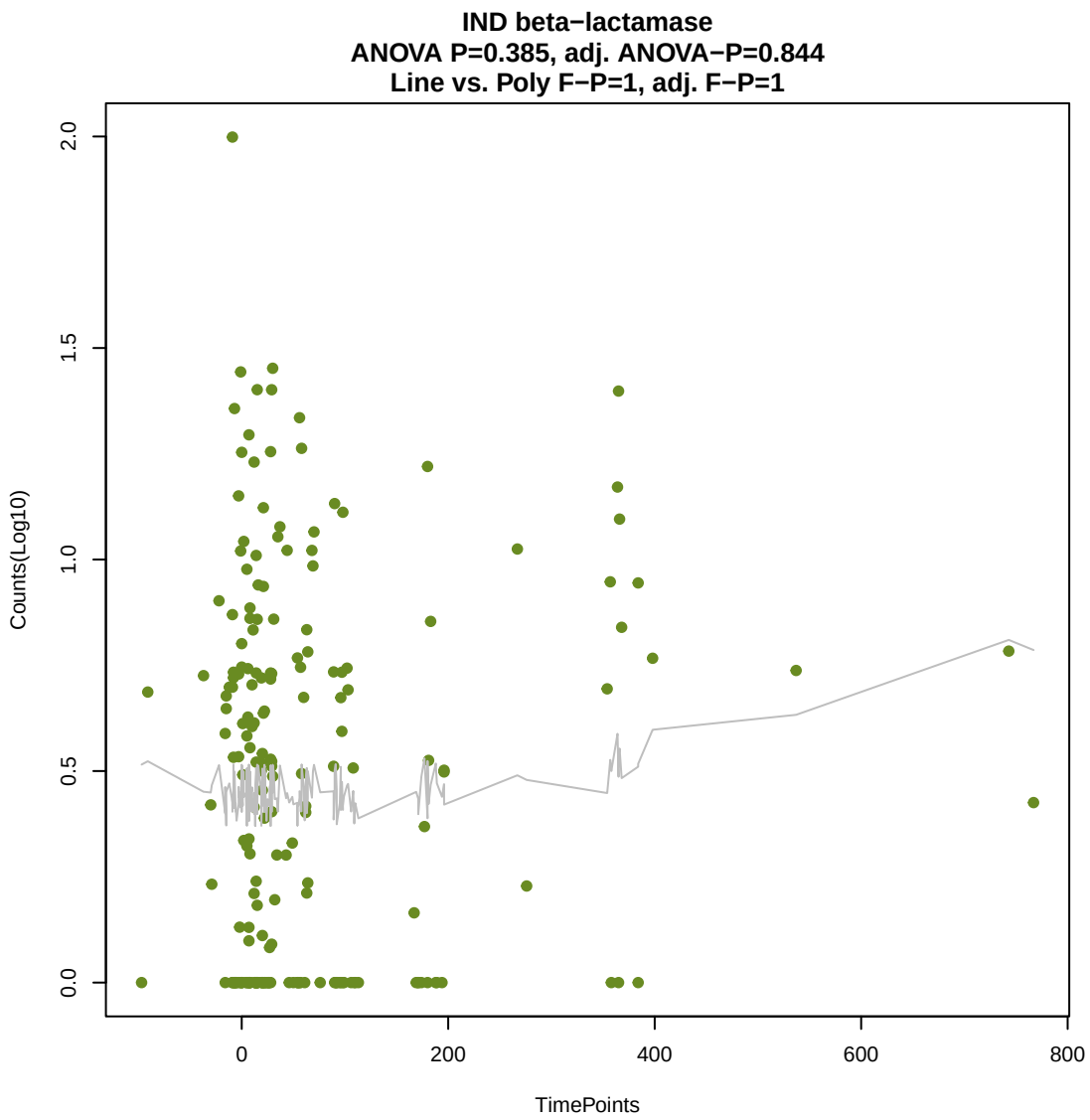

TEM beta−lactamase
ANOVA P=0.365, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.359, adj. F−P=1
Counts(Log10)
TimePoints

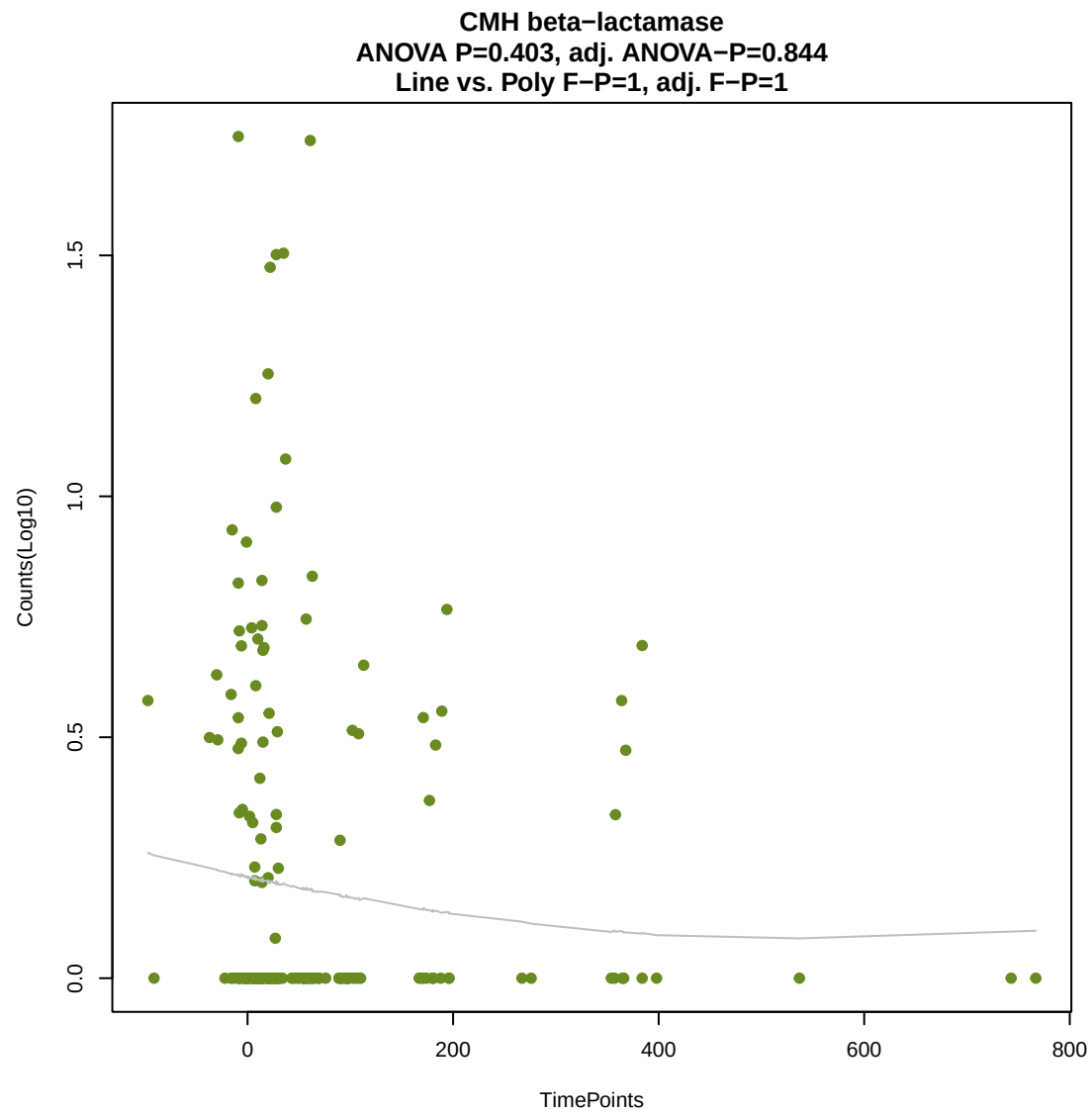

AAC(3)
ANOVA P=0.368, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.586, adj. F−P=1
Counts(Log10)
TimePoints

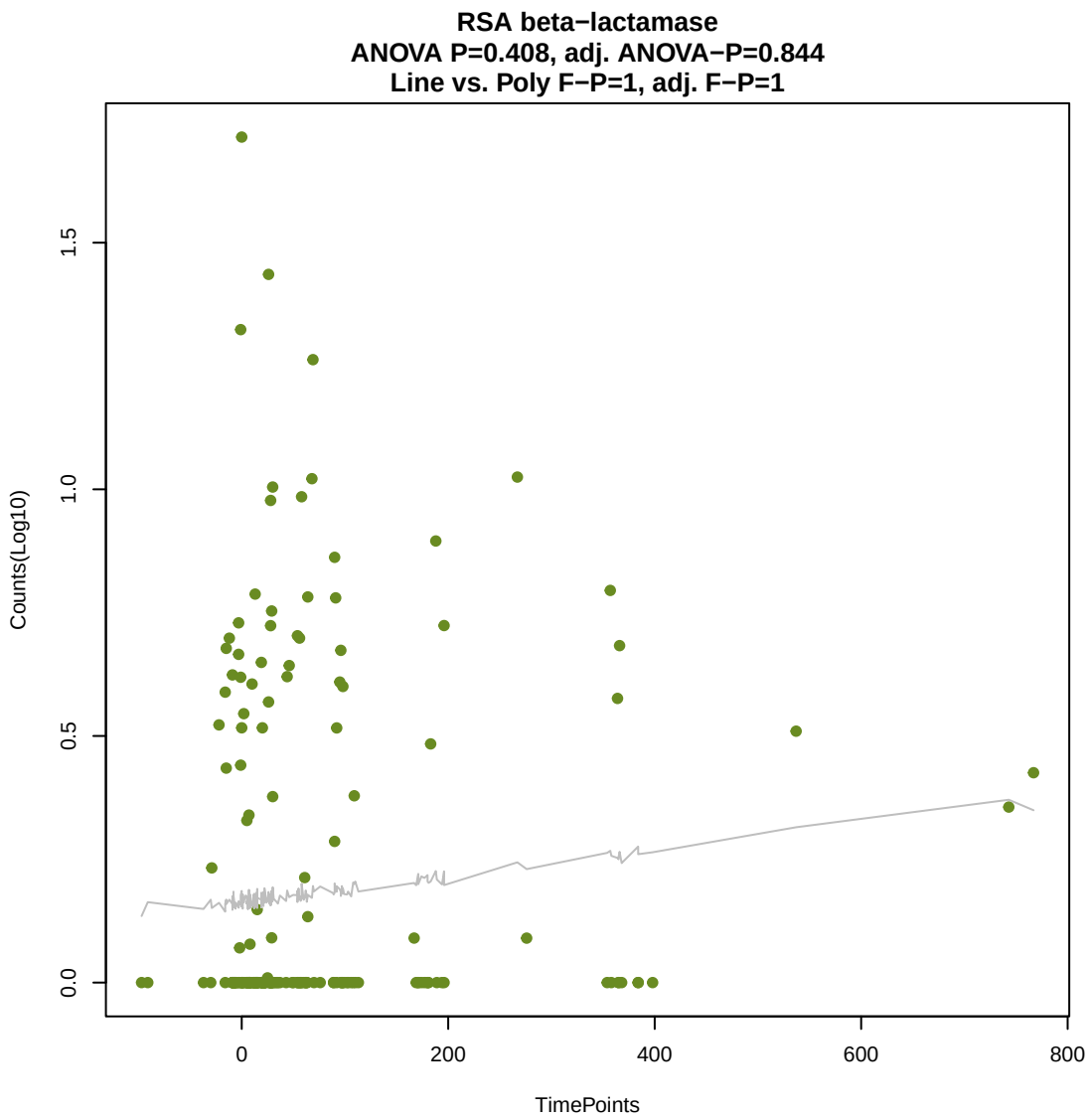

RbpA bacterial RNA polymerase−binding protein
ANOVA P=0.373, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.658, adj. F−P=1
Counts(Log10)
TimePoints

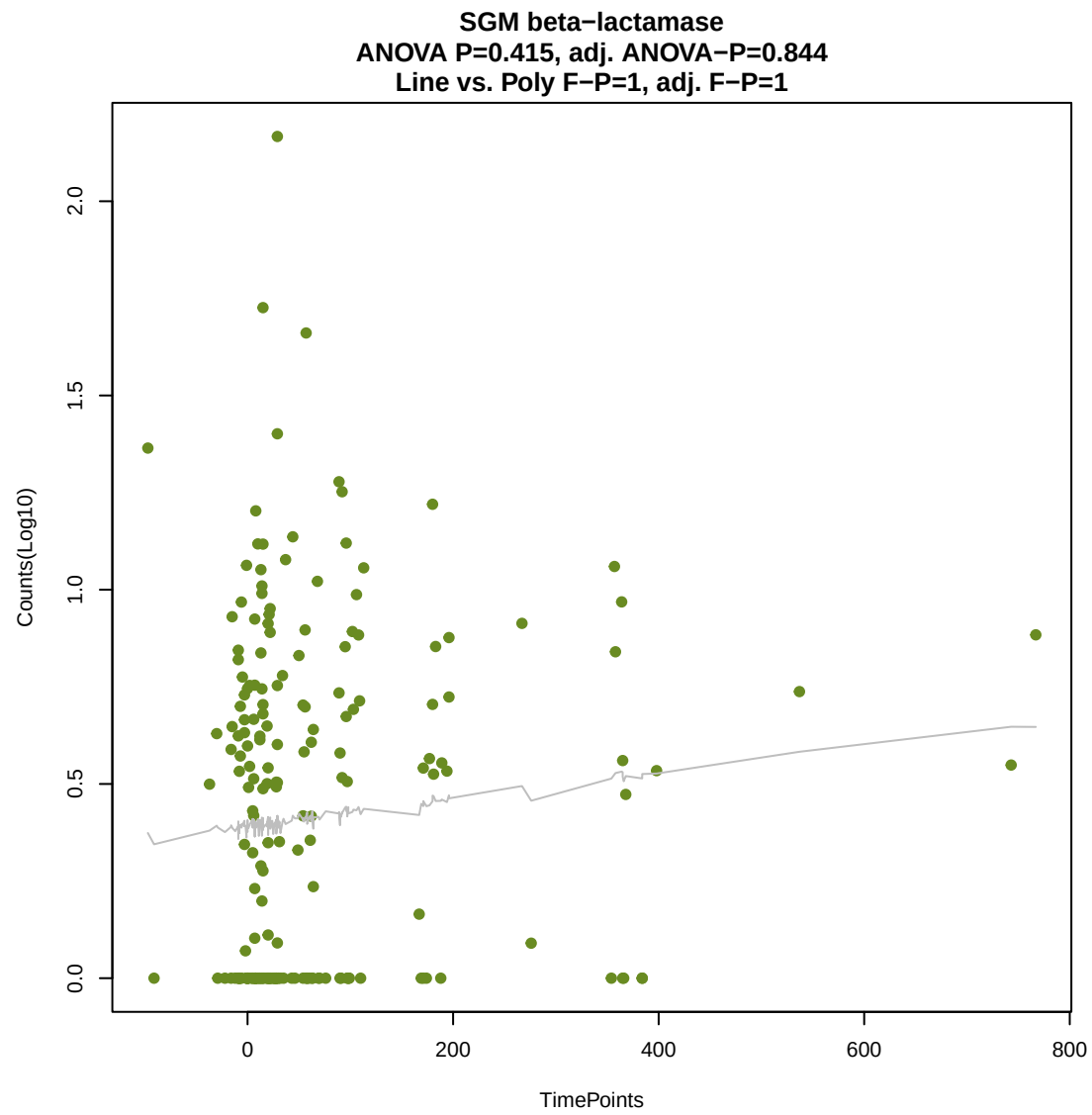

CMY beta−lactamase
ANOVA P=0.375, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.0678, adj. F−P=0.616
Counts(Log10)
TimePoints

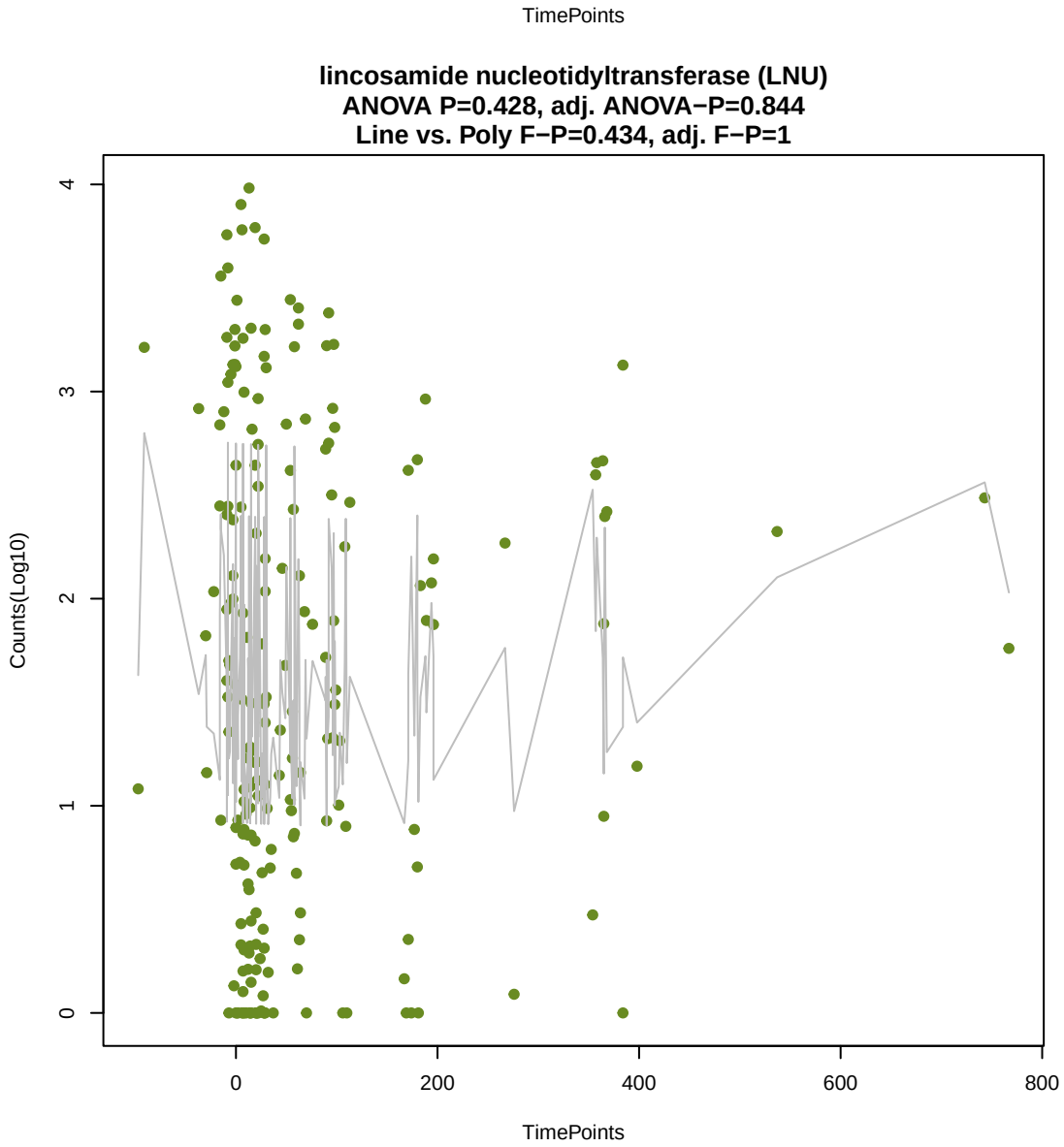

ERP beta−lactamase
ANOVA P=0.375, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.135, adj. F−P=0.98
Counts(Log10)
TimePoints

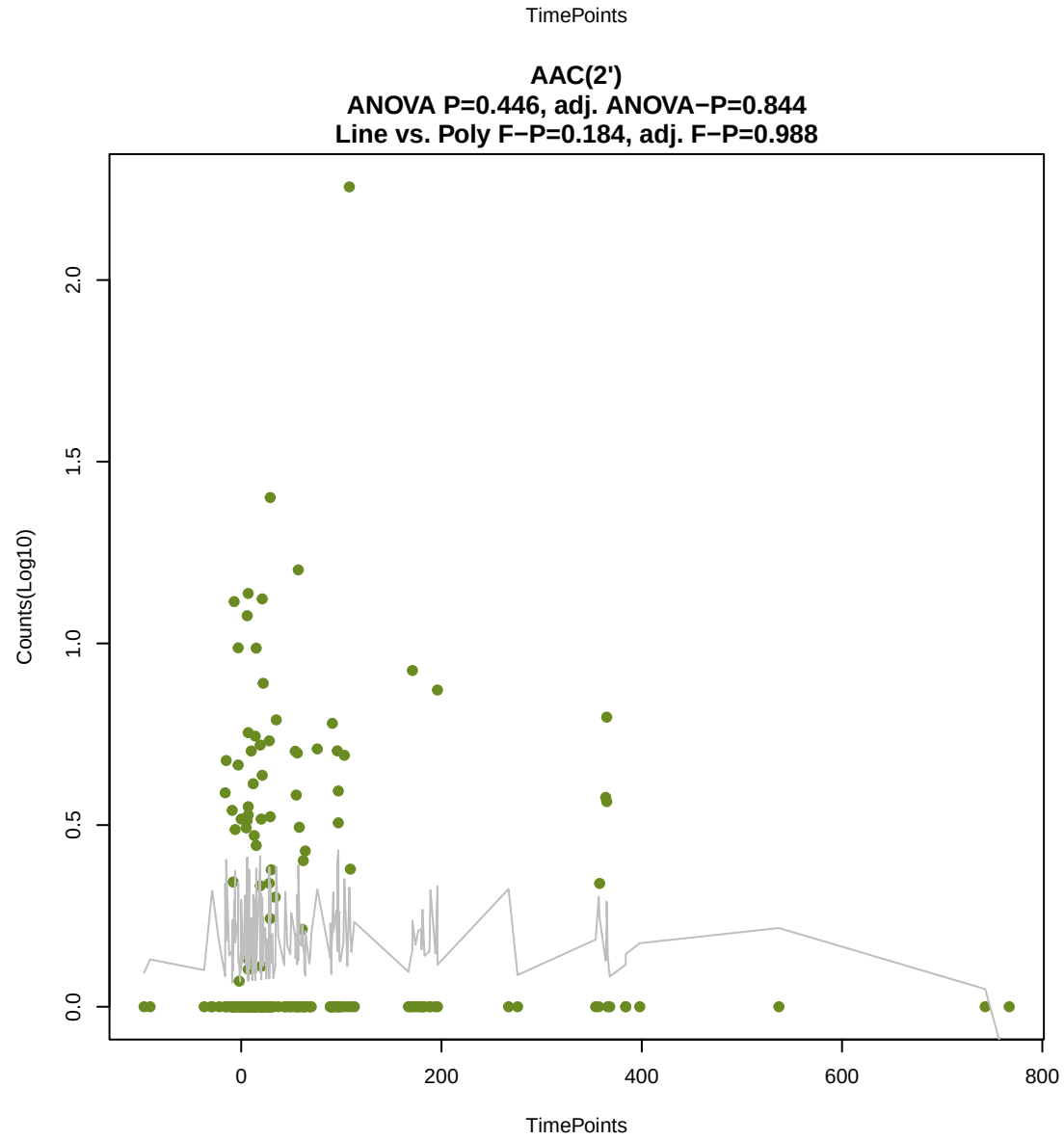

IND beta−lactamase
ANOVA P=0.385, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

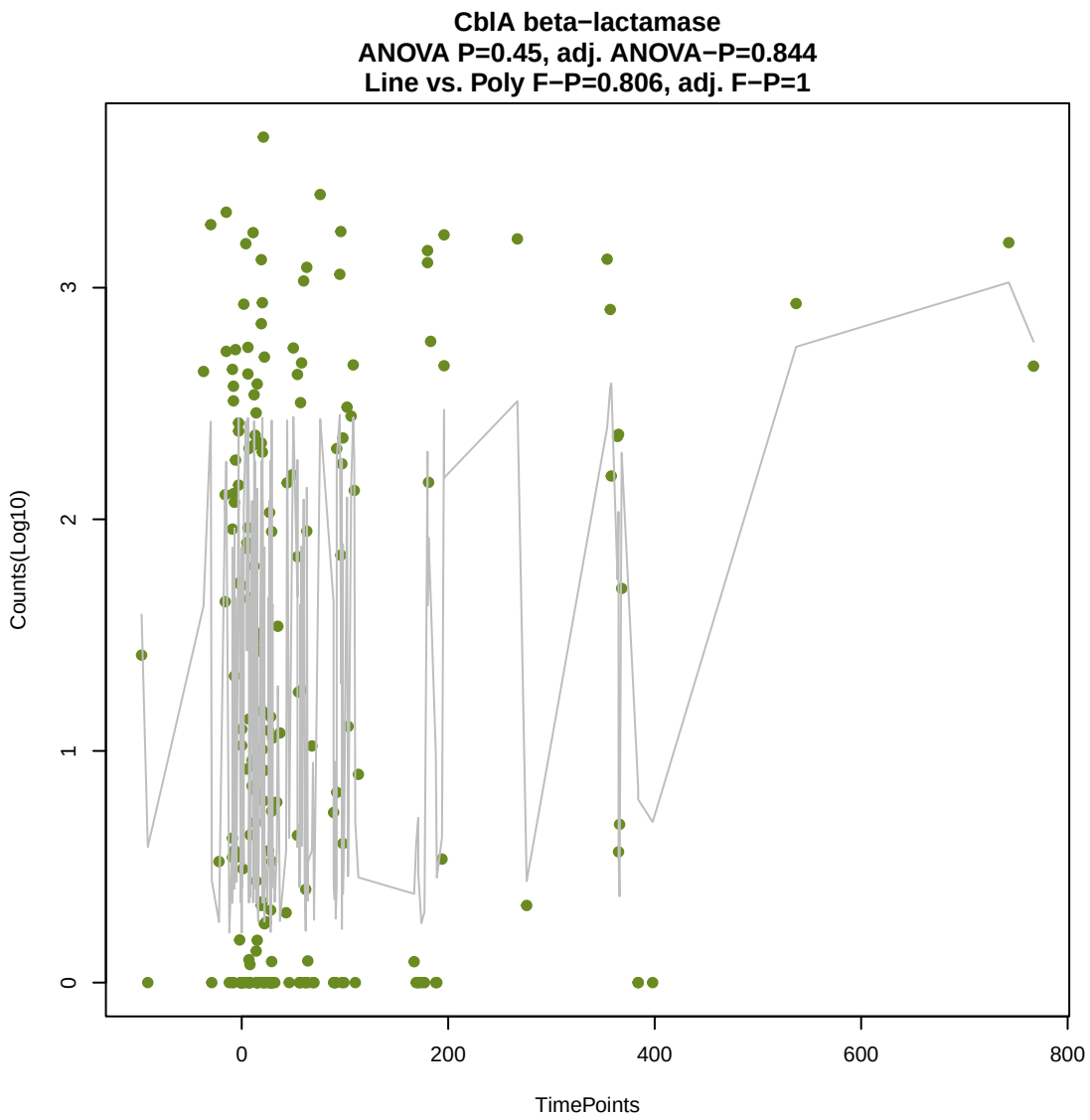

CMH beta−lactamase
ANOVA P=0.403, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

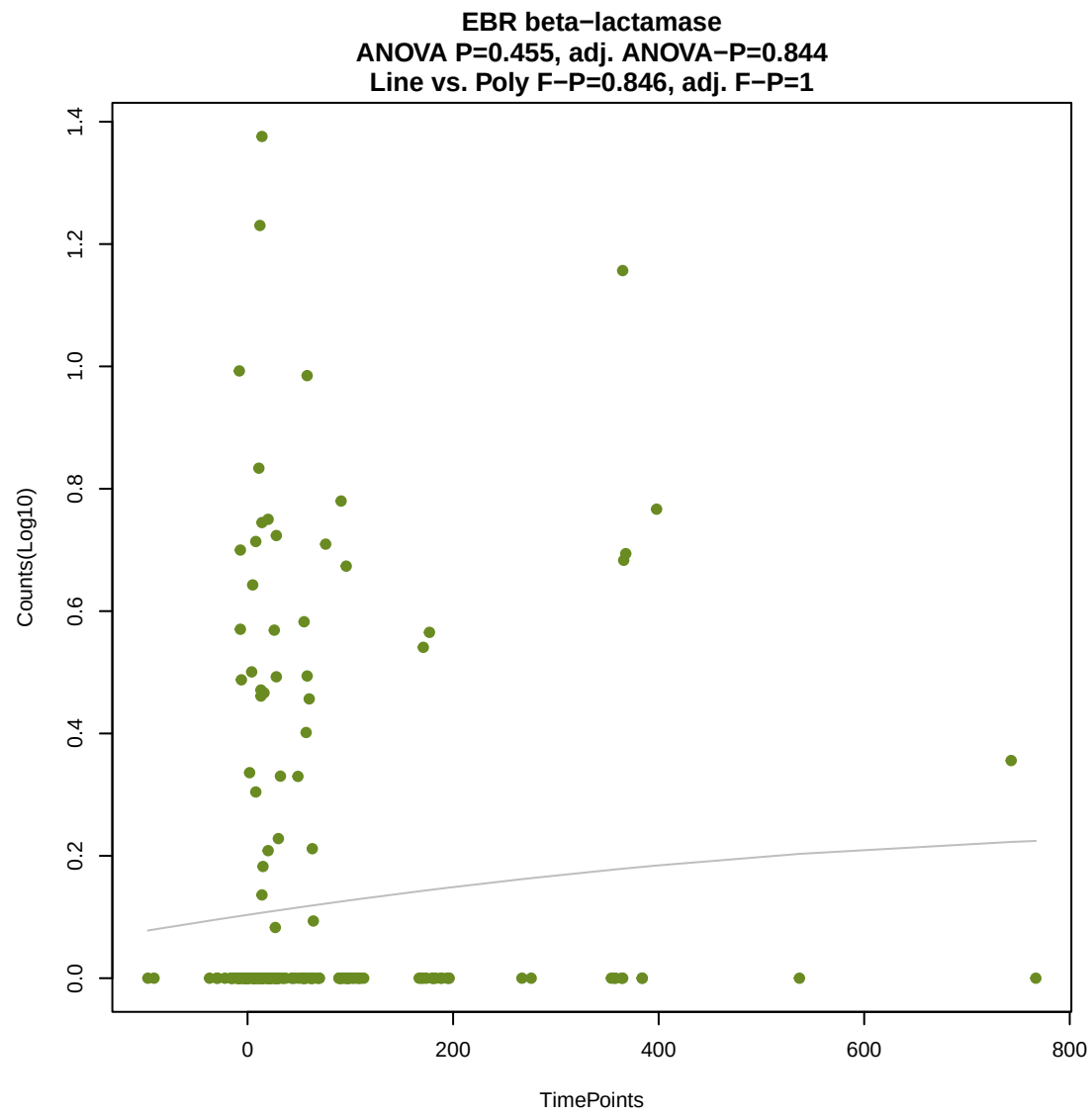

RSA beta−lactamase
ANOVA P=0.408, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

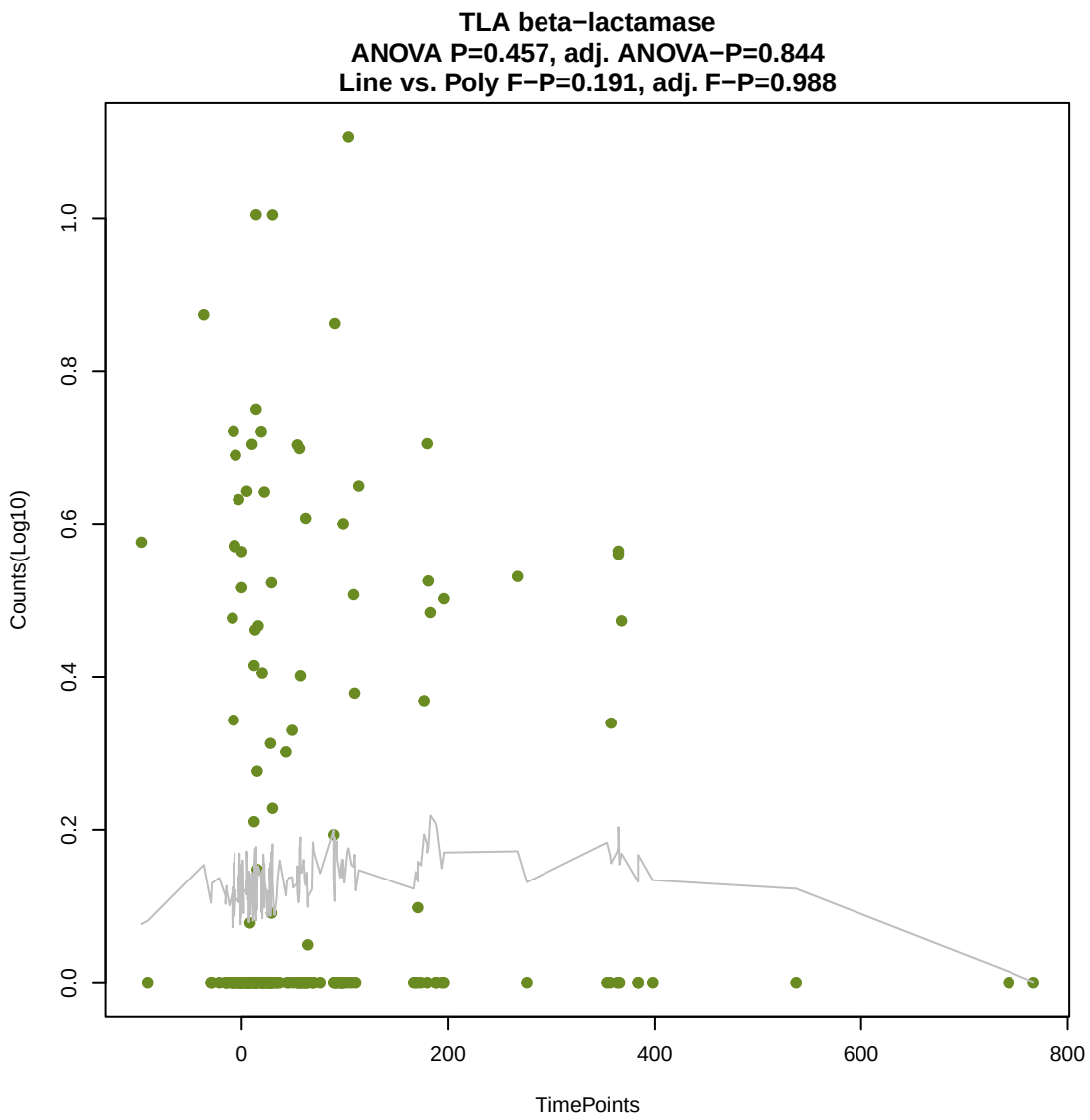

SGM beta−lactamase
ANOVA P=0.415, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

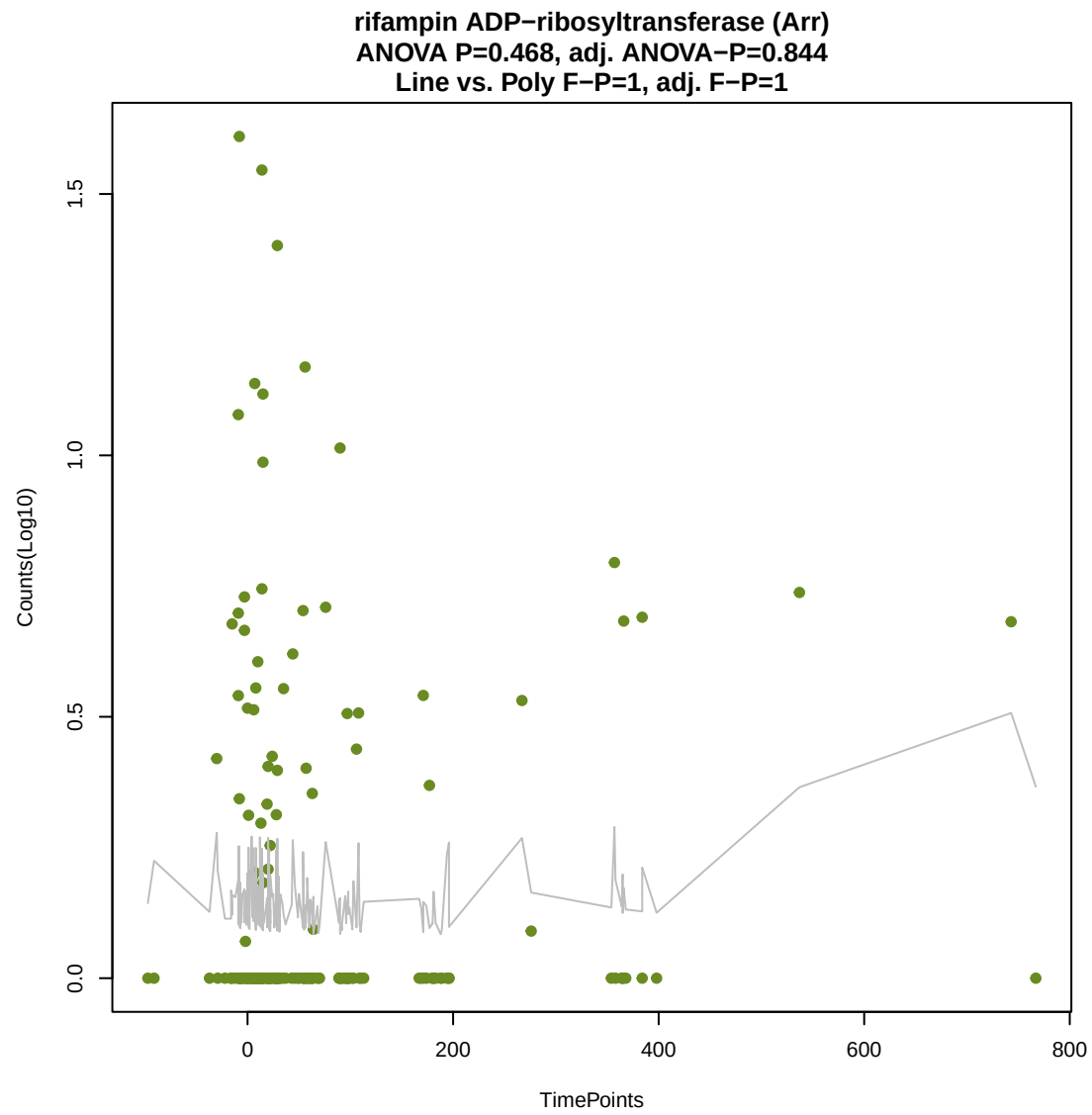

lincosamide nucleotidyltransferase (LNU)
ANOVA P=0.428, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.434, adj. F−P=1
Counts(Log10)
TimePoints

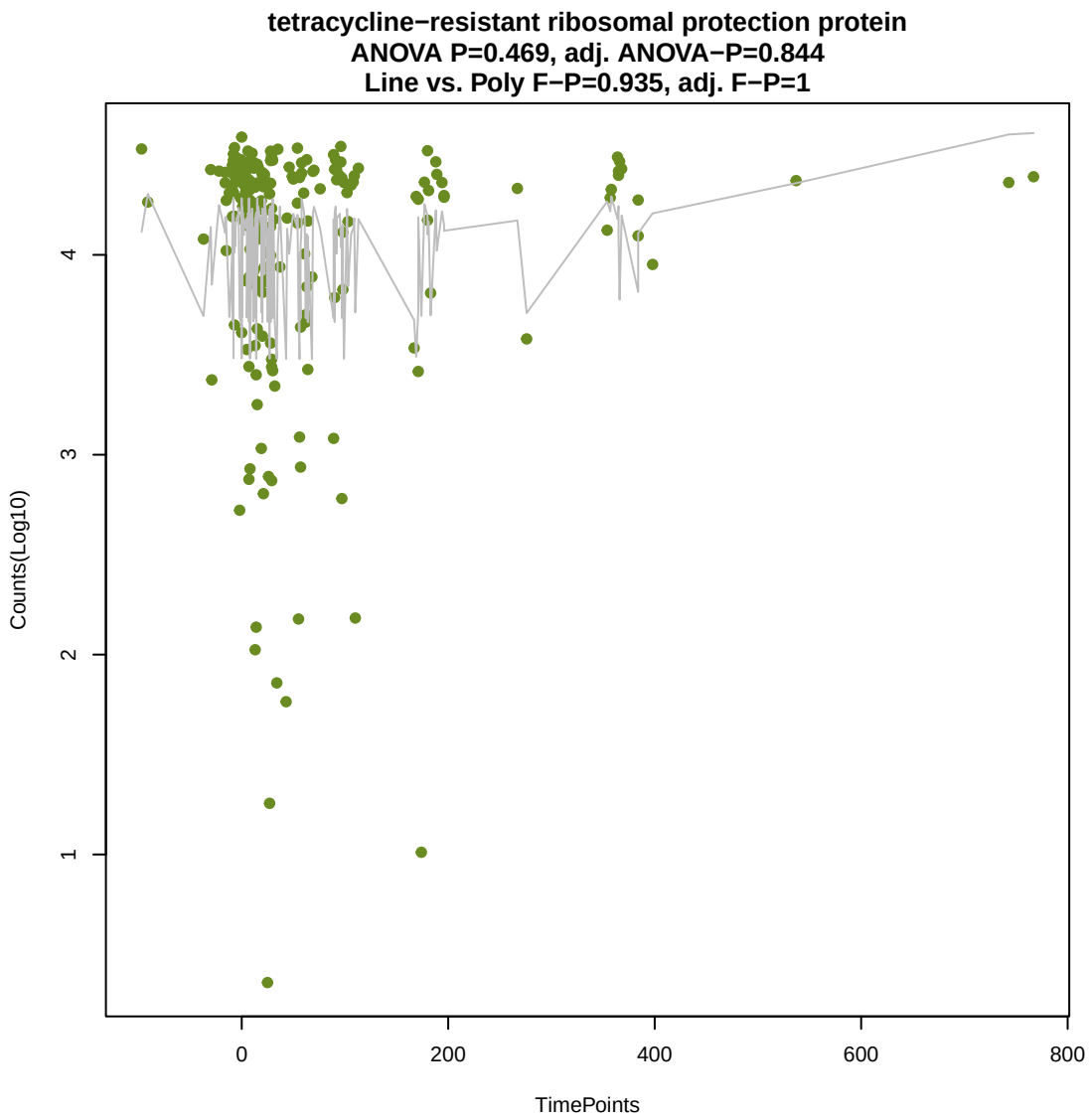

AAC(2')
ANOVA P=0.446, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.184, adj. F−P=0.988
Counts(Log10)
TimePoints

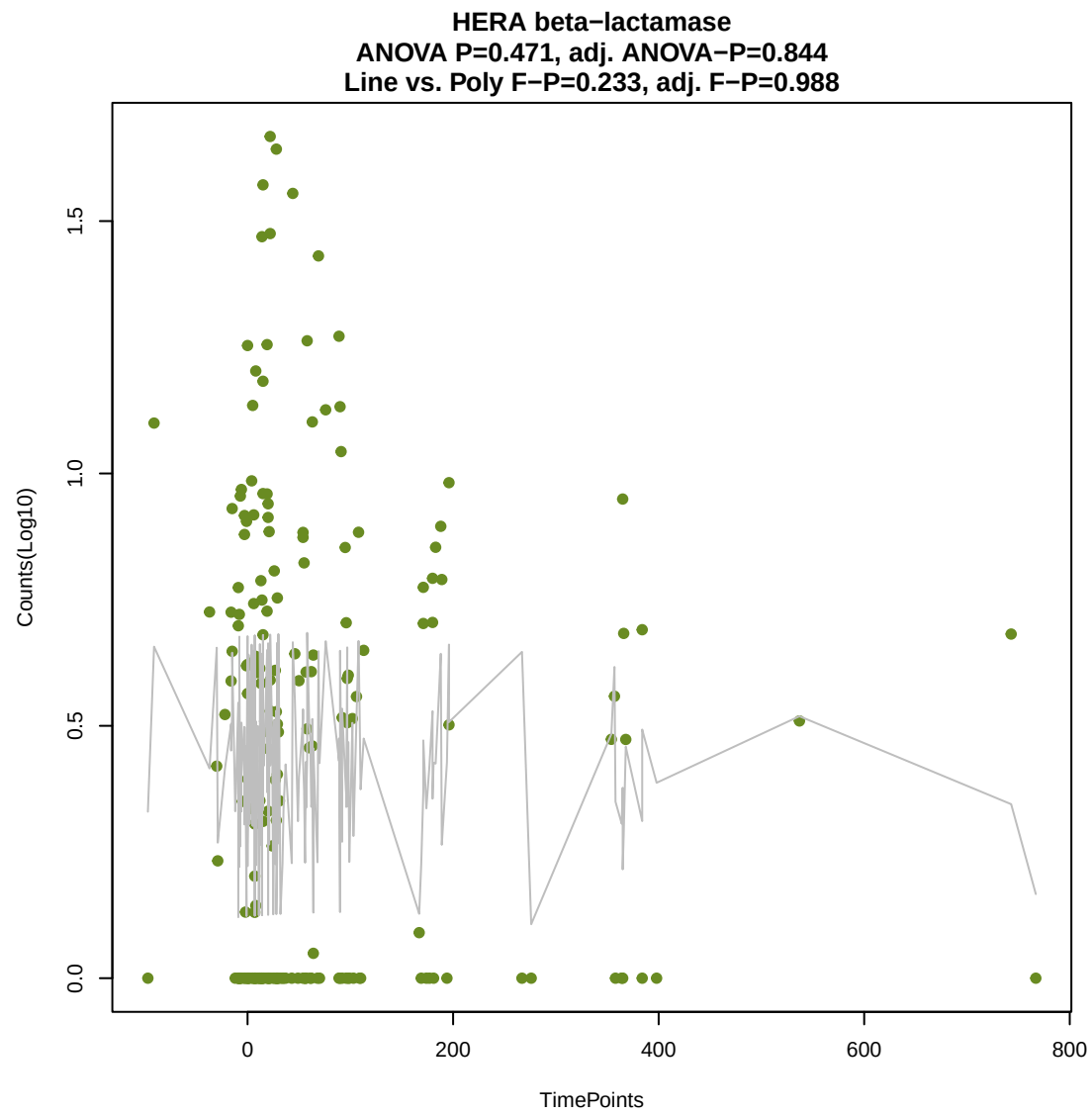

CblA beta−lactamase
ANOVA P=0.45, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.806, adj. F−P=1
Counts(Log10)
TimePoints

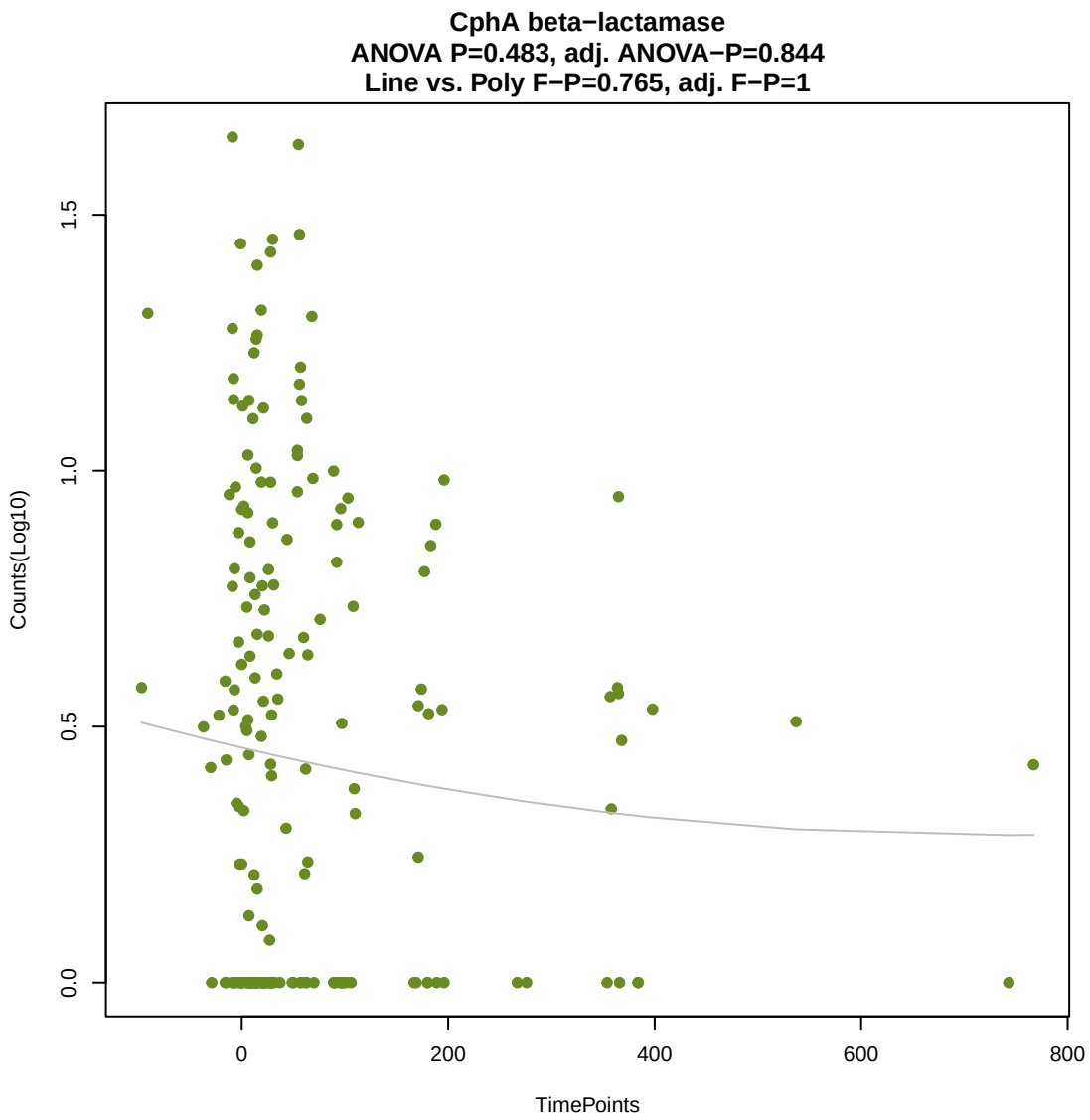

EBR beta−lactamase
ANOVA P=0.455, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.846, adj. F−P=1
Counts(Log10)
TimePoints

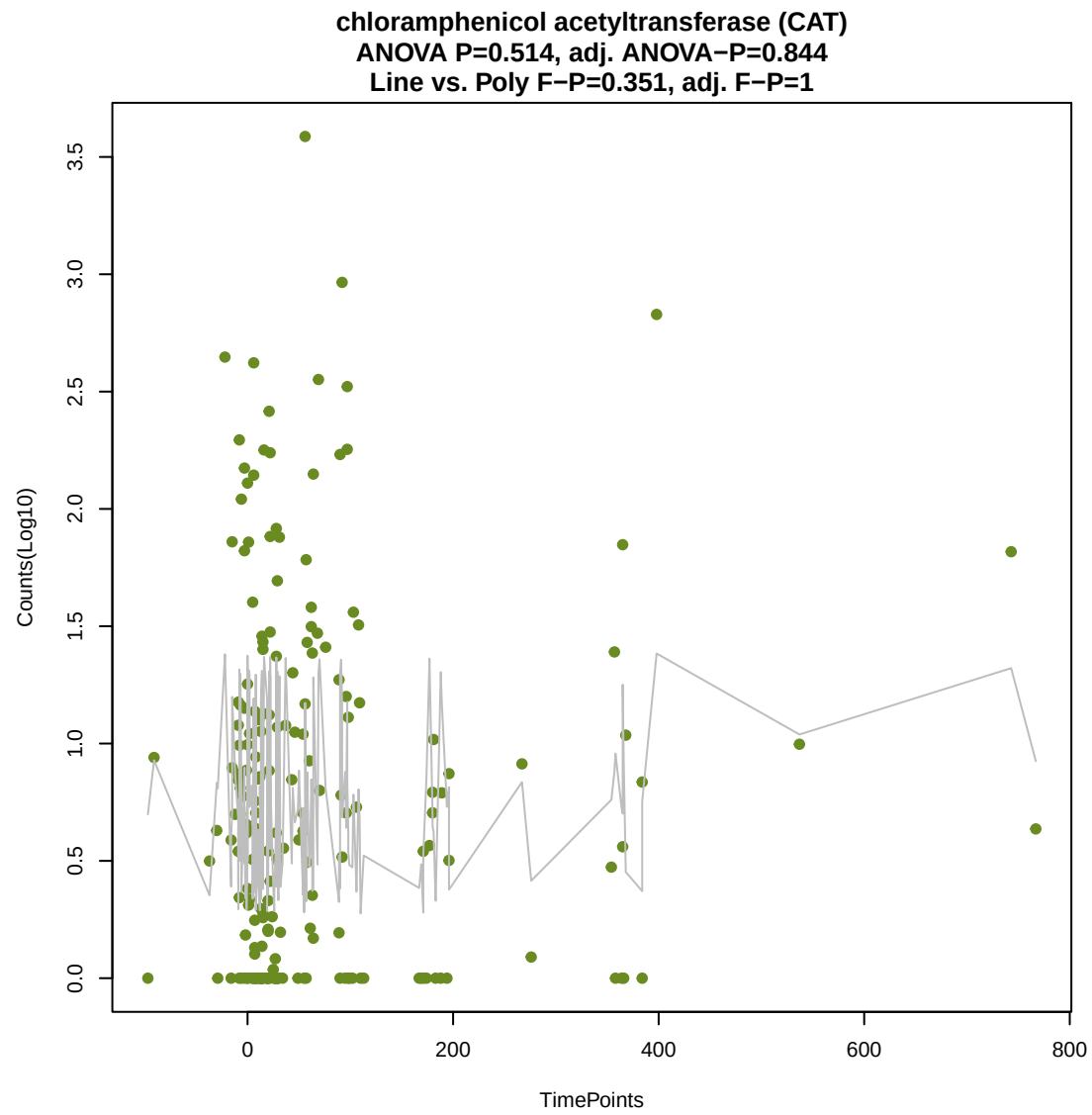

TLA beta−lactamase
ANOVA P=0.457, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.191, adj. F−P=0.988
Counts(Log10)
TimePoints

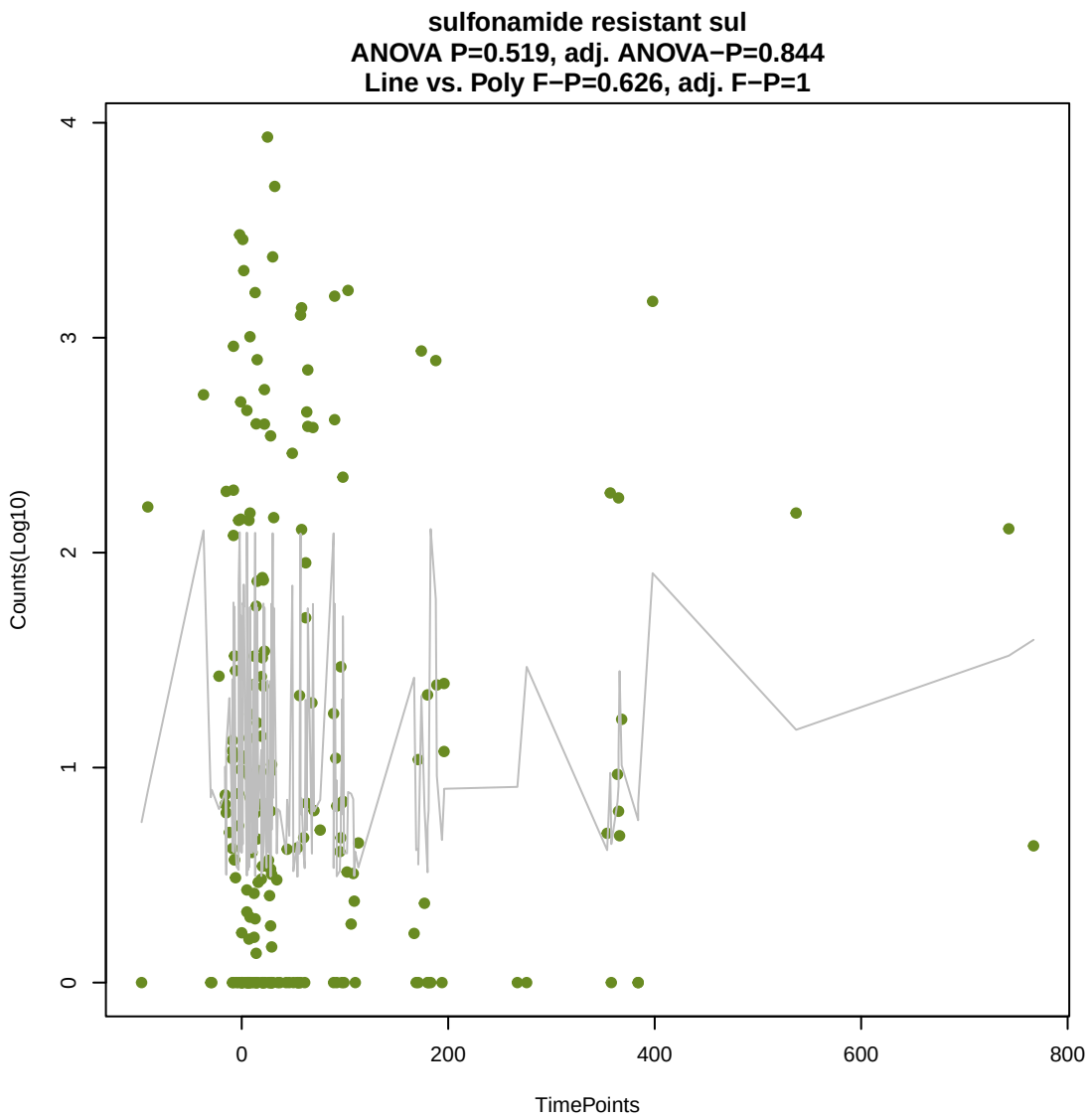

rifampin ADP−ribosyltransferase (Arr)
ANOVA P=0.468, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

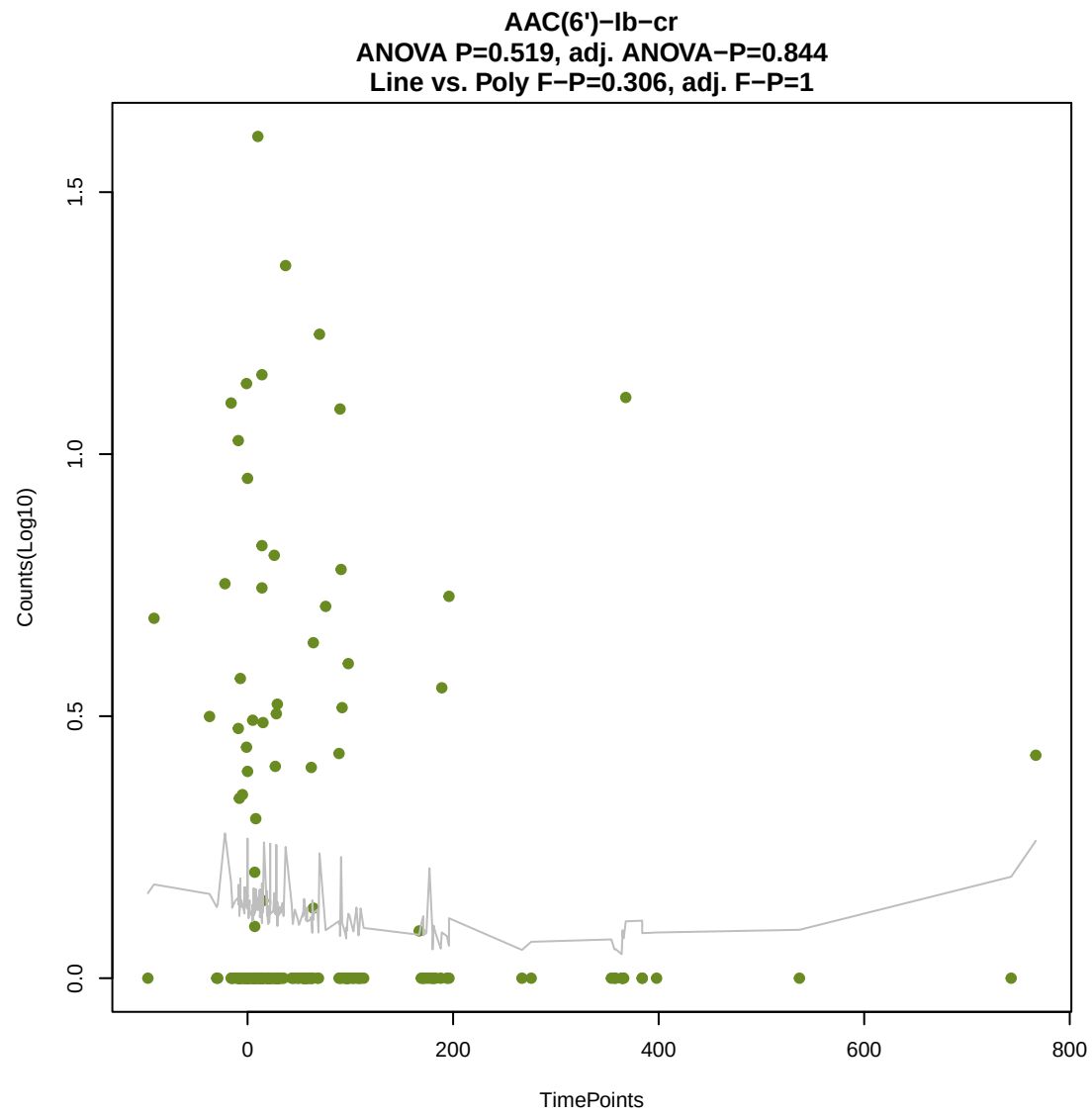

tetracycline−resistant ribosomal protection protein
ANOVA P=0.469, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.935, adj. F−P=1
Counts(Log10)
TimePoints

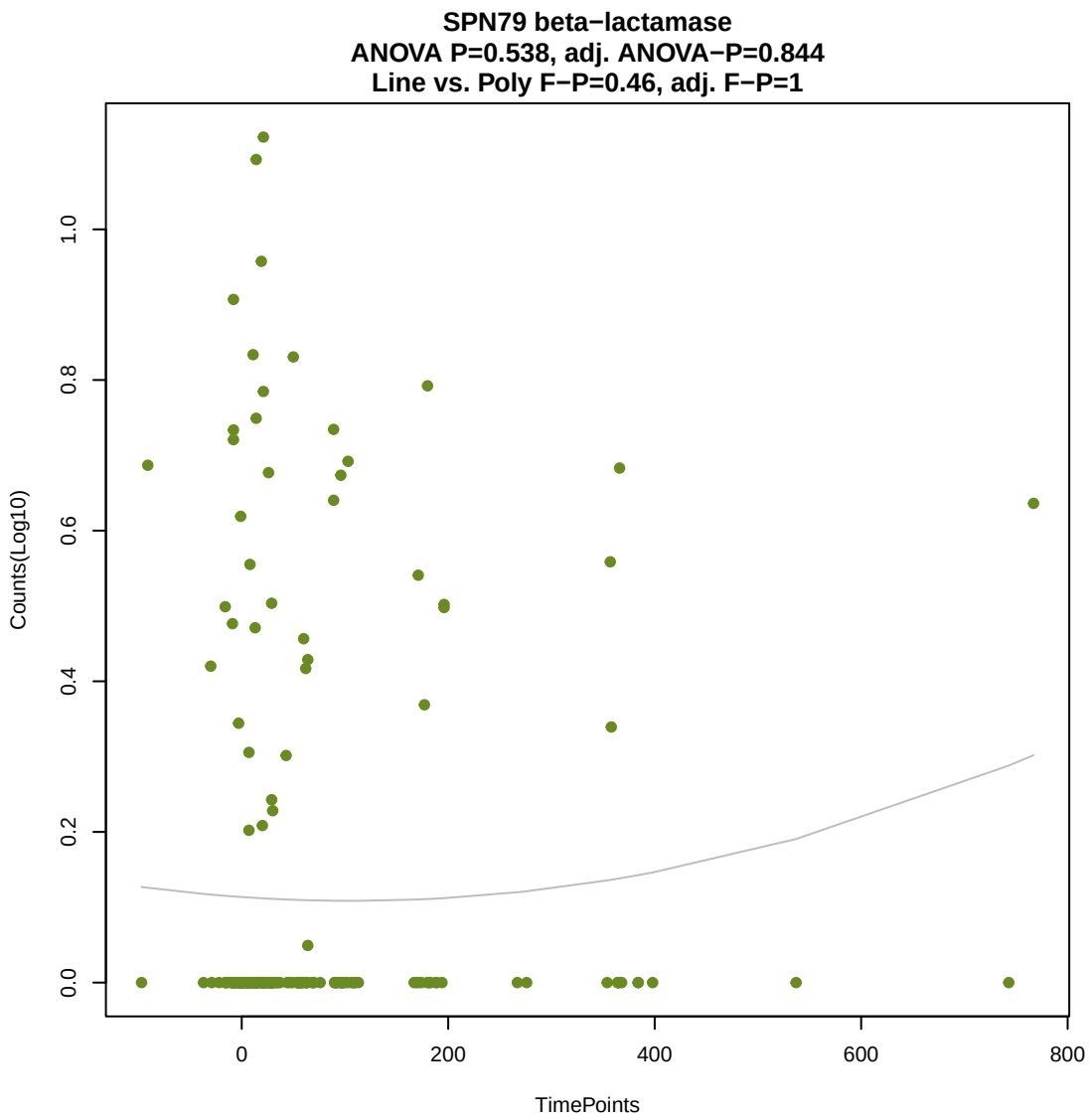

HERA beta−lactamase
ANOVA P=0.471, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.233, adj. F−P=0.988
Counts(Log10)
TimePoints

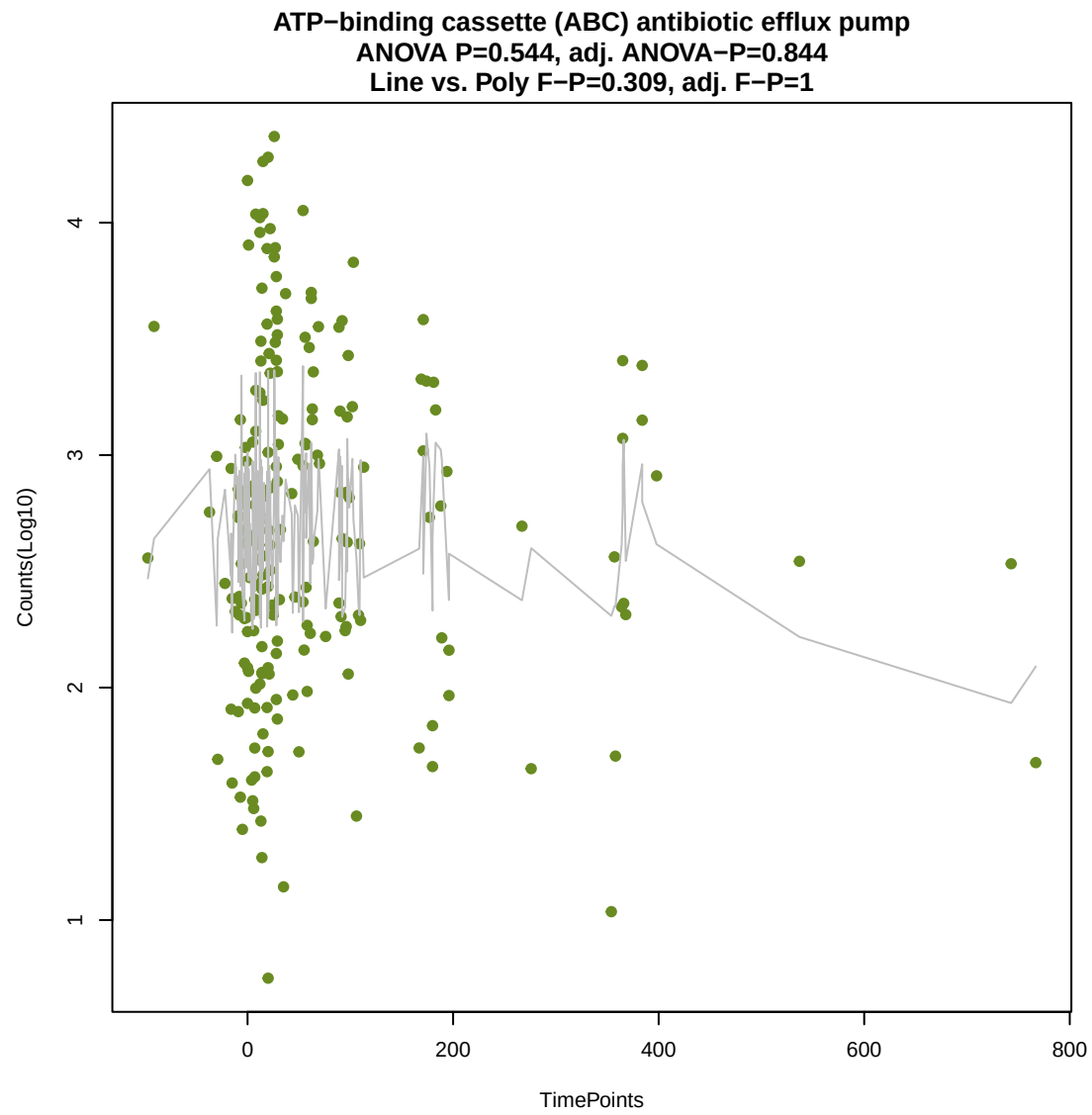

CphA beta−lactamase
ANOVA P=0.483, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.765, adj. F−P=1
Counts(Log10)
TimePoints


chloramphenicol acetyltransferase (CAT)
ANOVA P=0.514, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.351, adj. F−P=1
Counts(Log10)
TimePoints

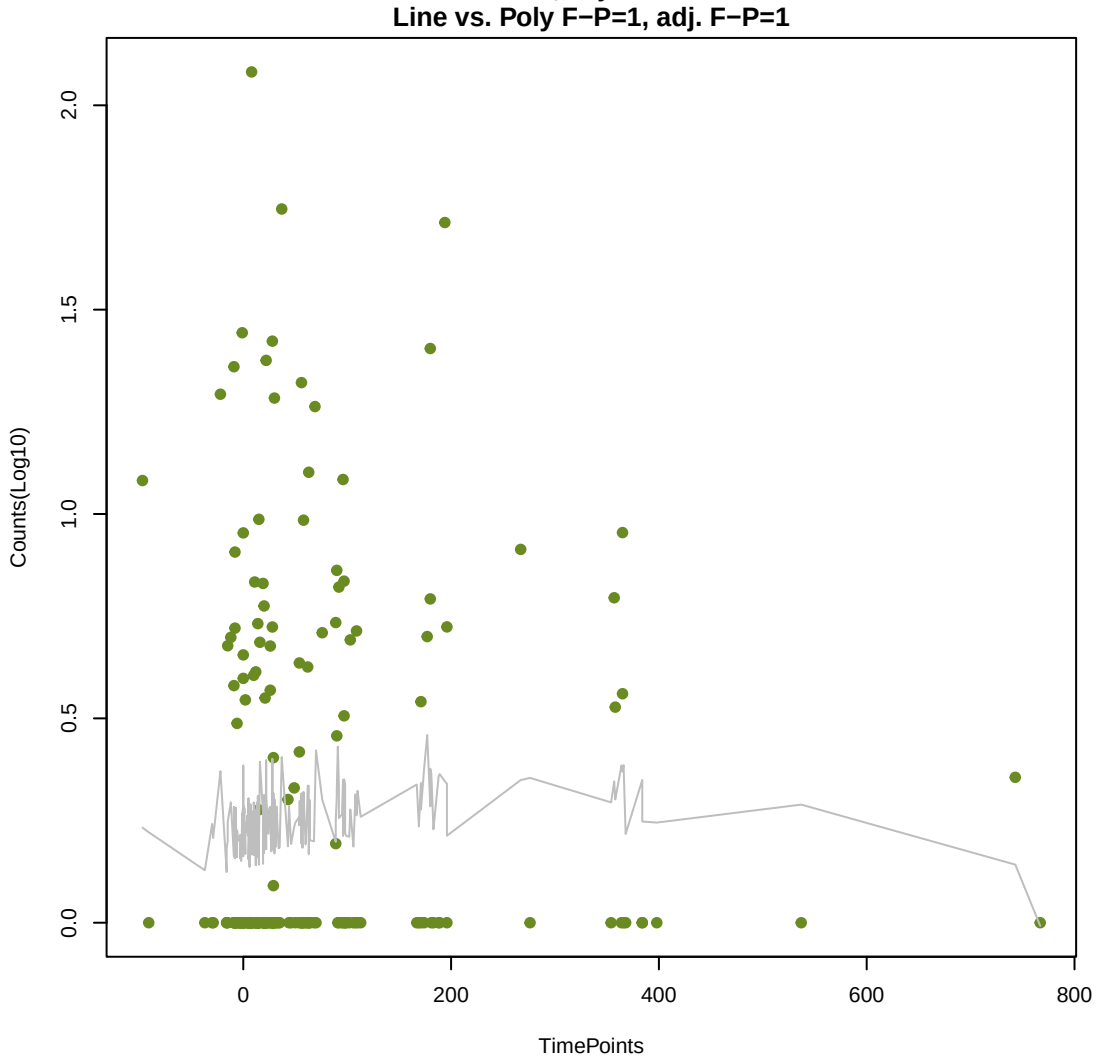

sulfonamide resistant sul
ANOVA P=0.519, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.626, adj. F−P=1
Counts(Log10)
TimePoints


AAC(6')−Ib−cr
ANOVA P=0.519, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.306, adj. F−P=1
Counts(Log10)
TimePoints

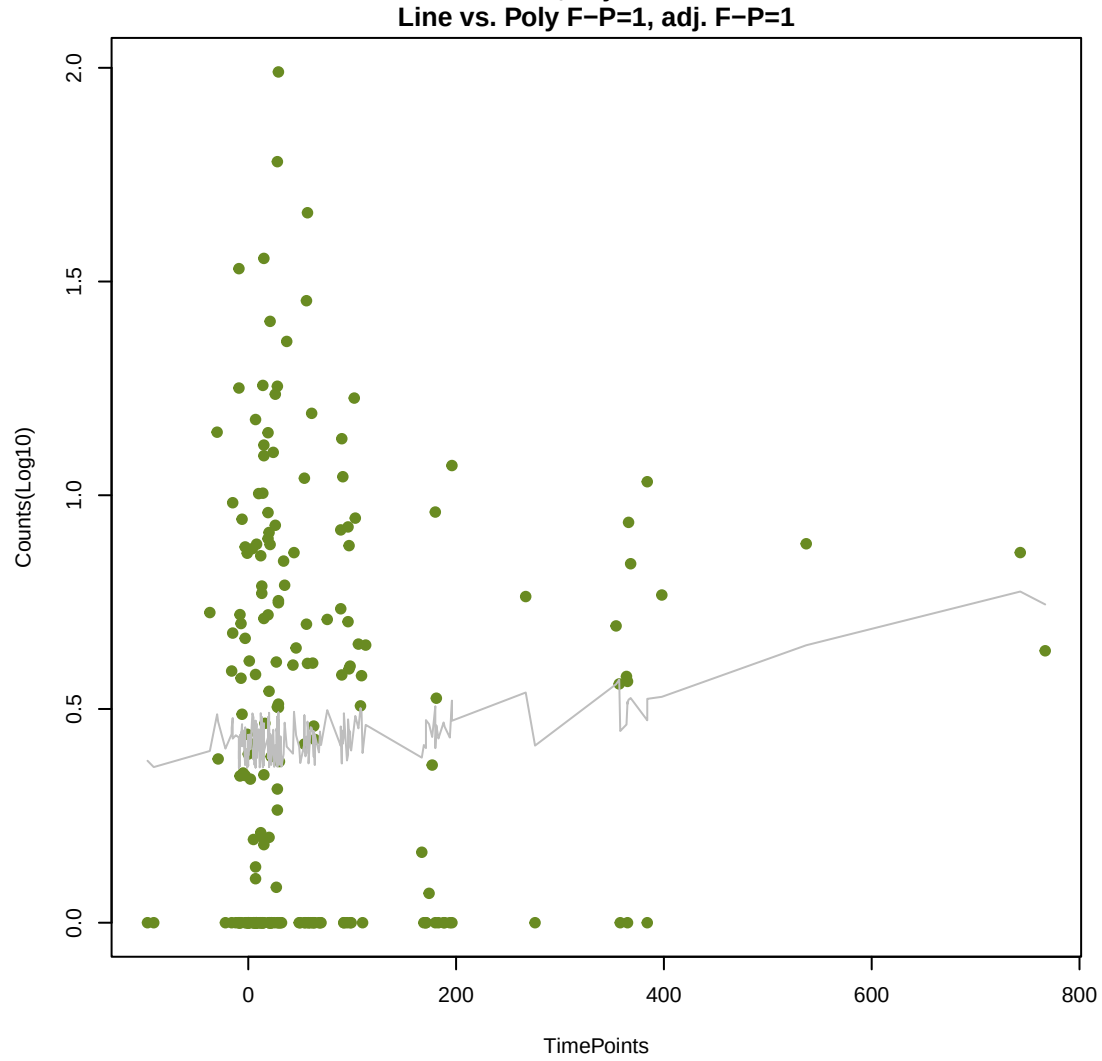

SPN79 beta−lactamase
ANOVA P=0.538, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.46, adj. F−P=1
Counts(Log10)
TimePoints


ATP−binding cassette (ABC) antibiotic efflux pump
ANOVA P=0.544, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.309, adj. F−P=1
Counts(Log10)
TimePoints

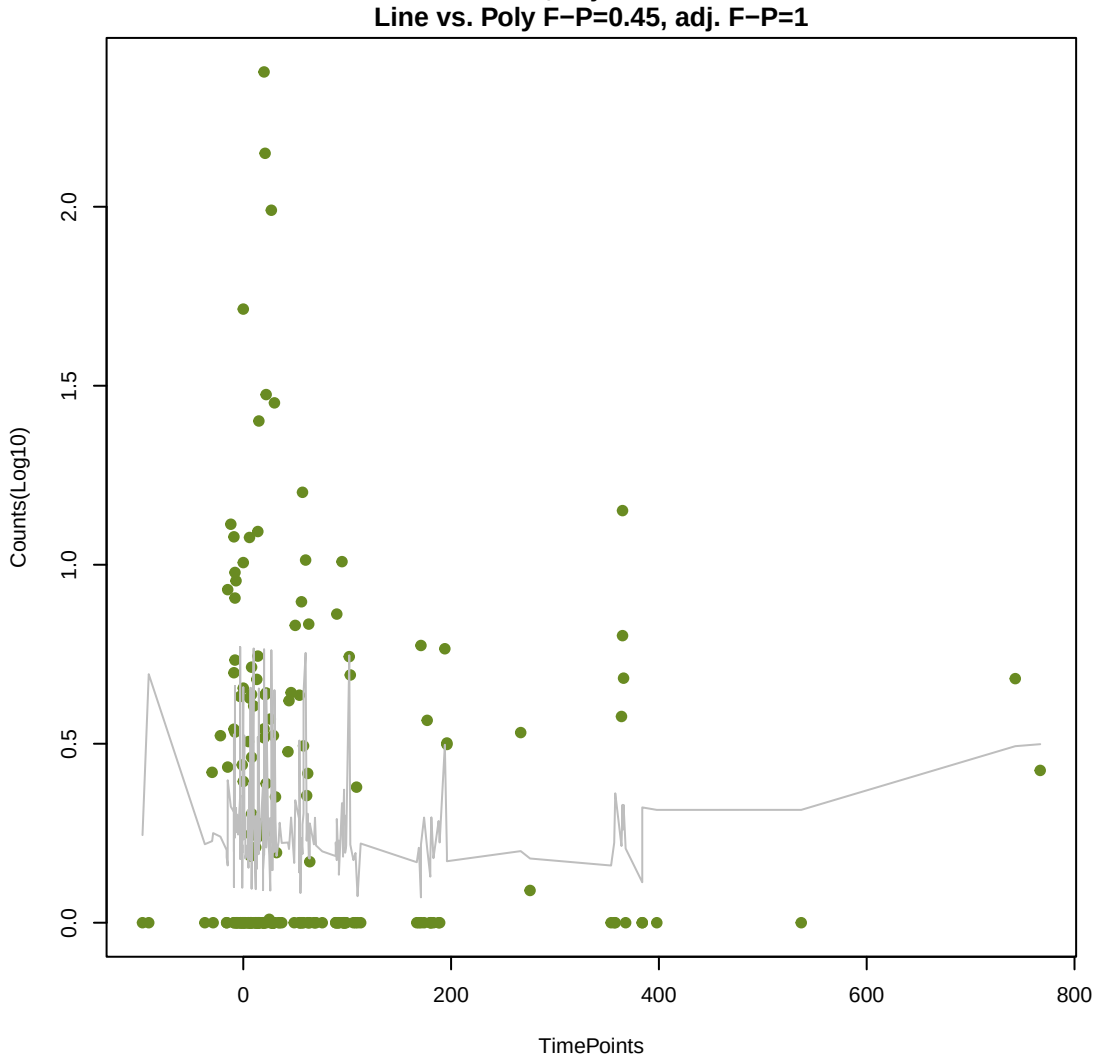
MIR beta−lactamase
ANOVA P=0.546, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1



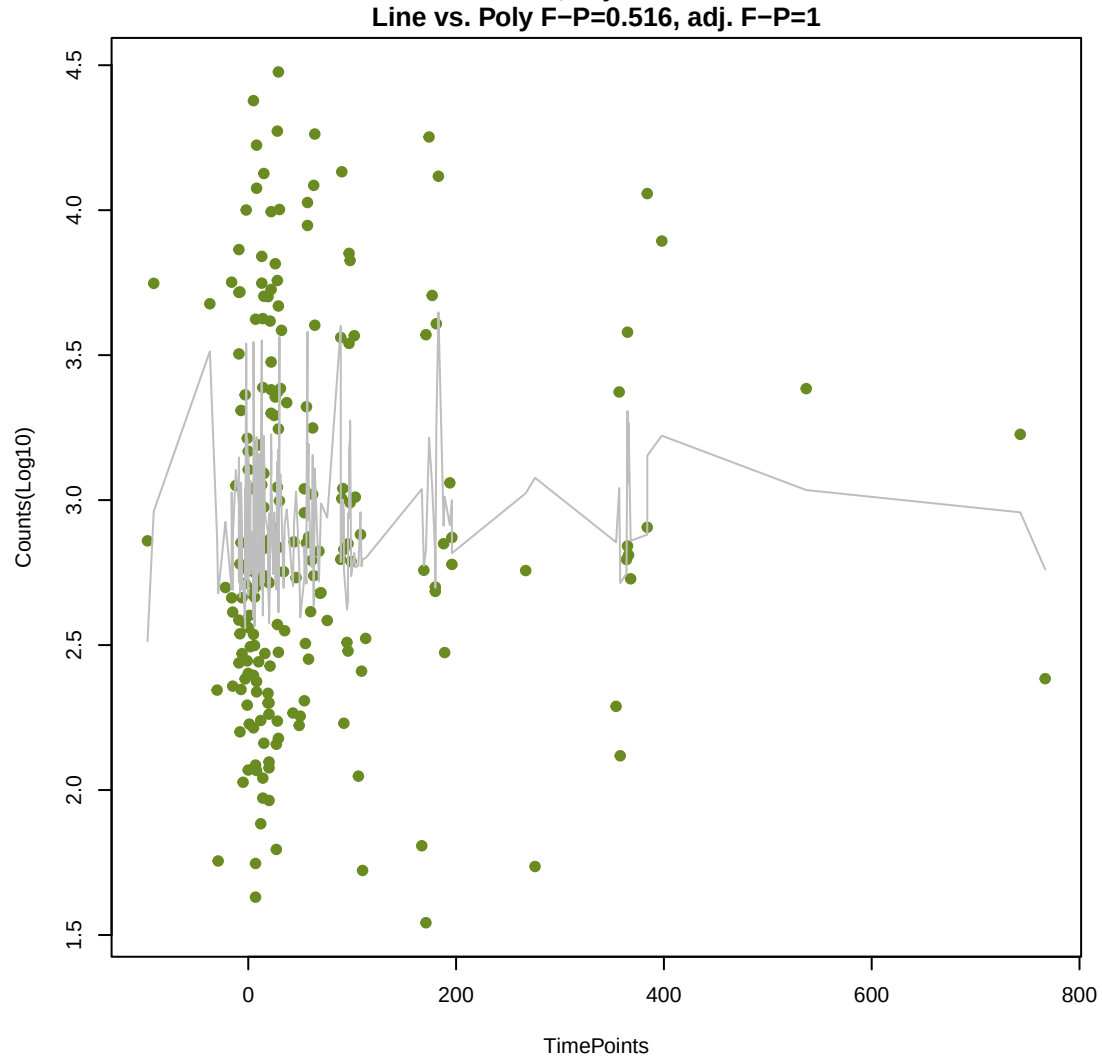
OKP beta−lactamase
ANOVA P=0.547, adj. ANOVA−P=0.844
Line vs. Poly F−P=1, adj. F−P=1



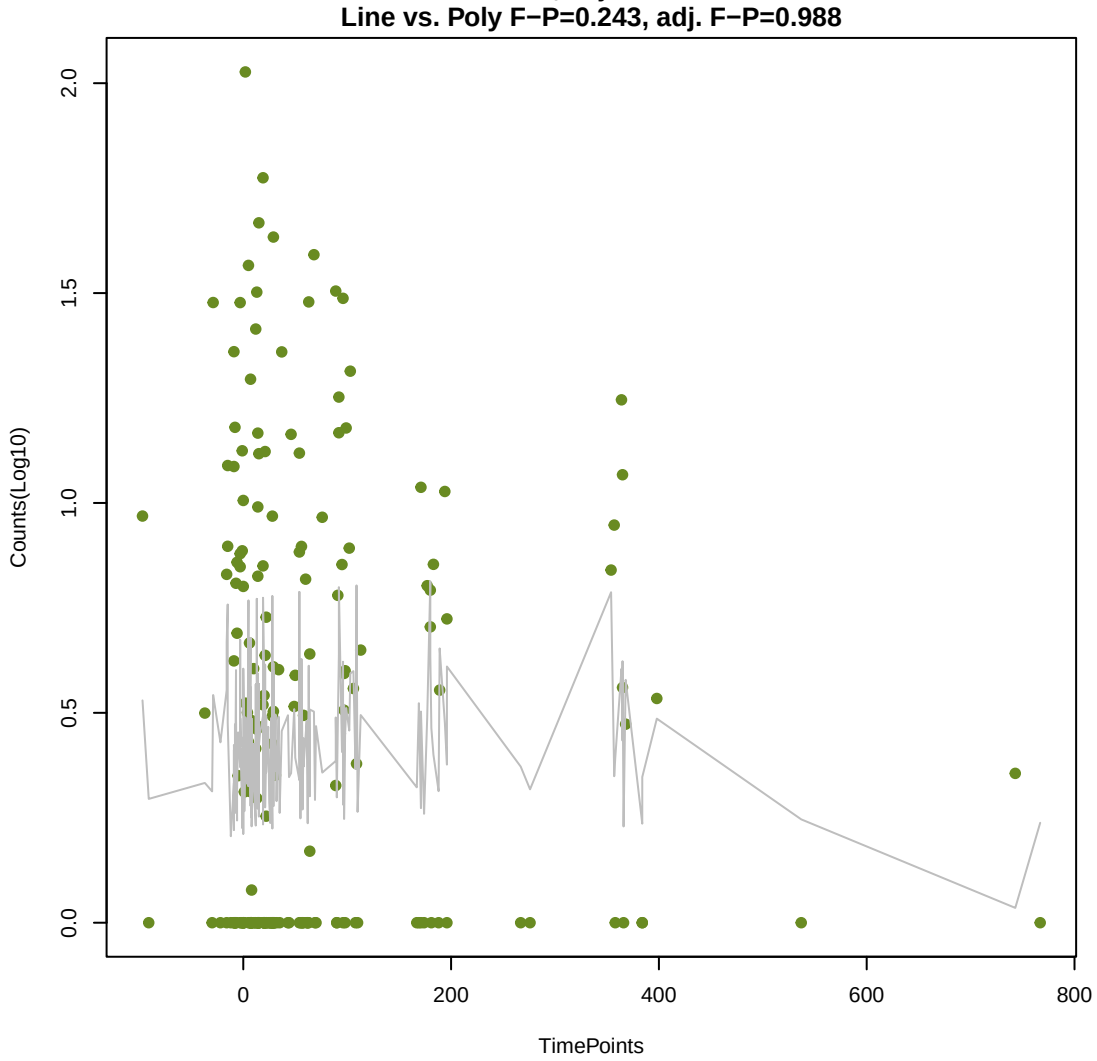
CfiA beta−lactamase
ANOVA P=0.55, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.45, adj. F−P=1



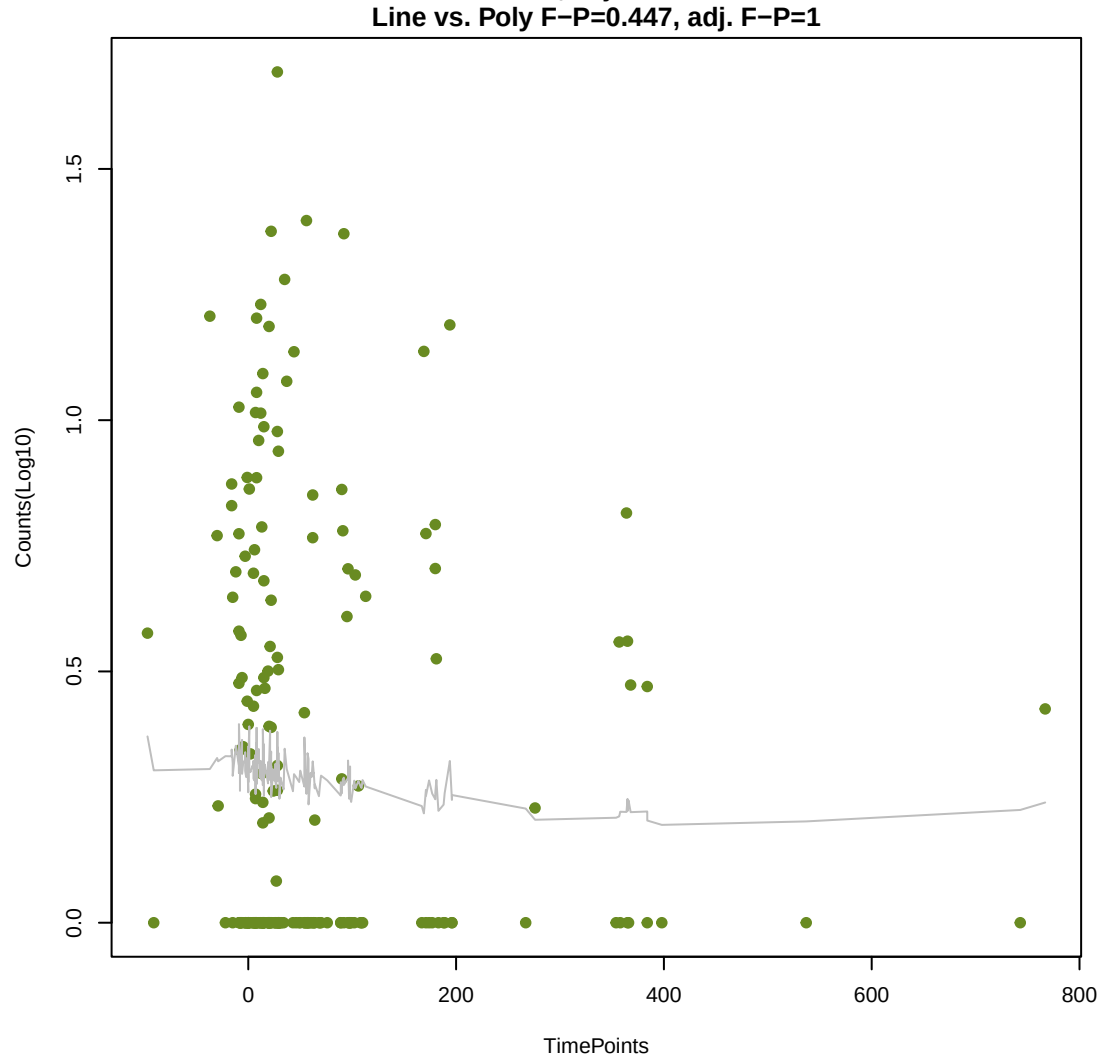
resistance−nodulation−cell division (RND) antibiotic efflux pump
ANOVA P=0.551, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.516, adj. F−P=1

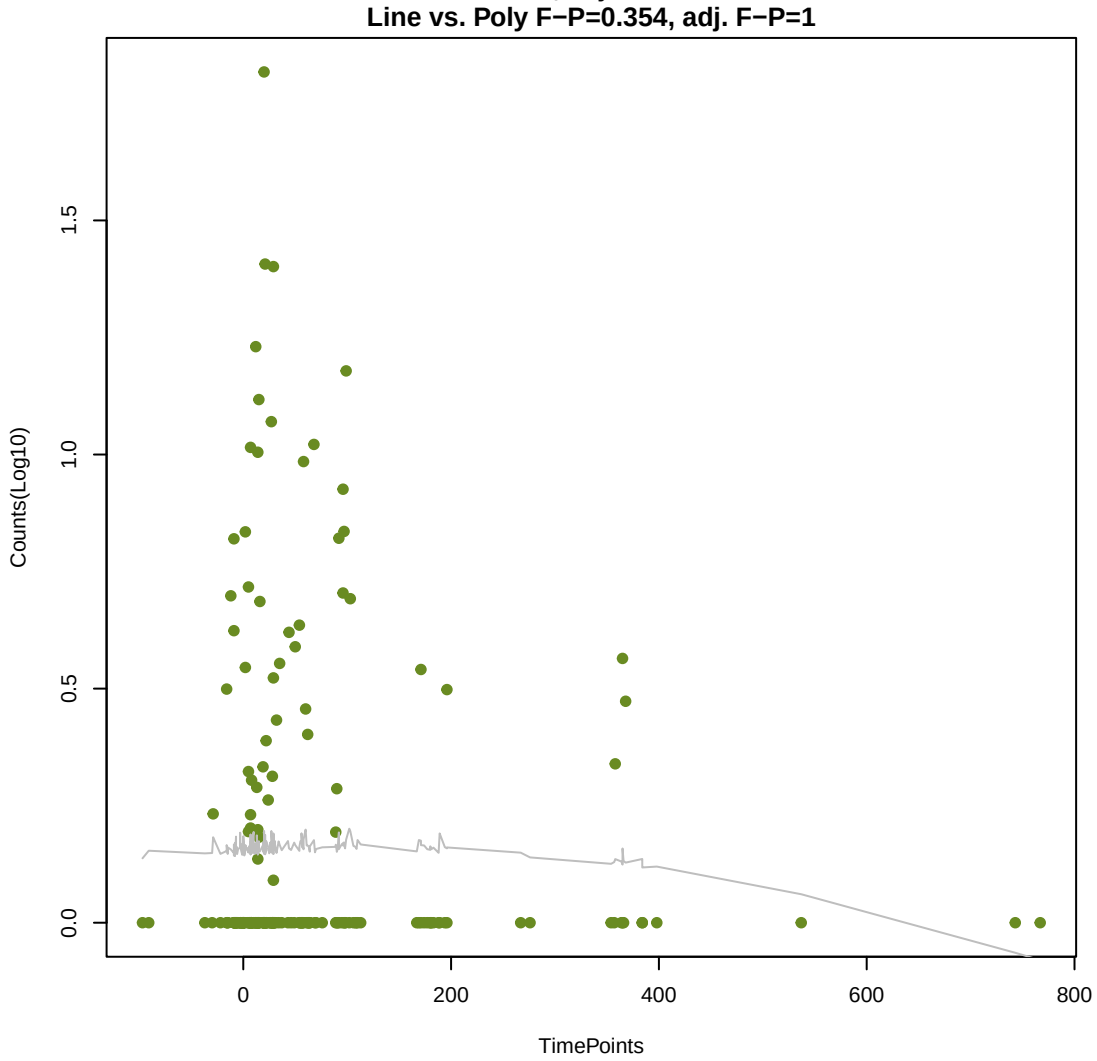


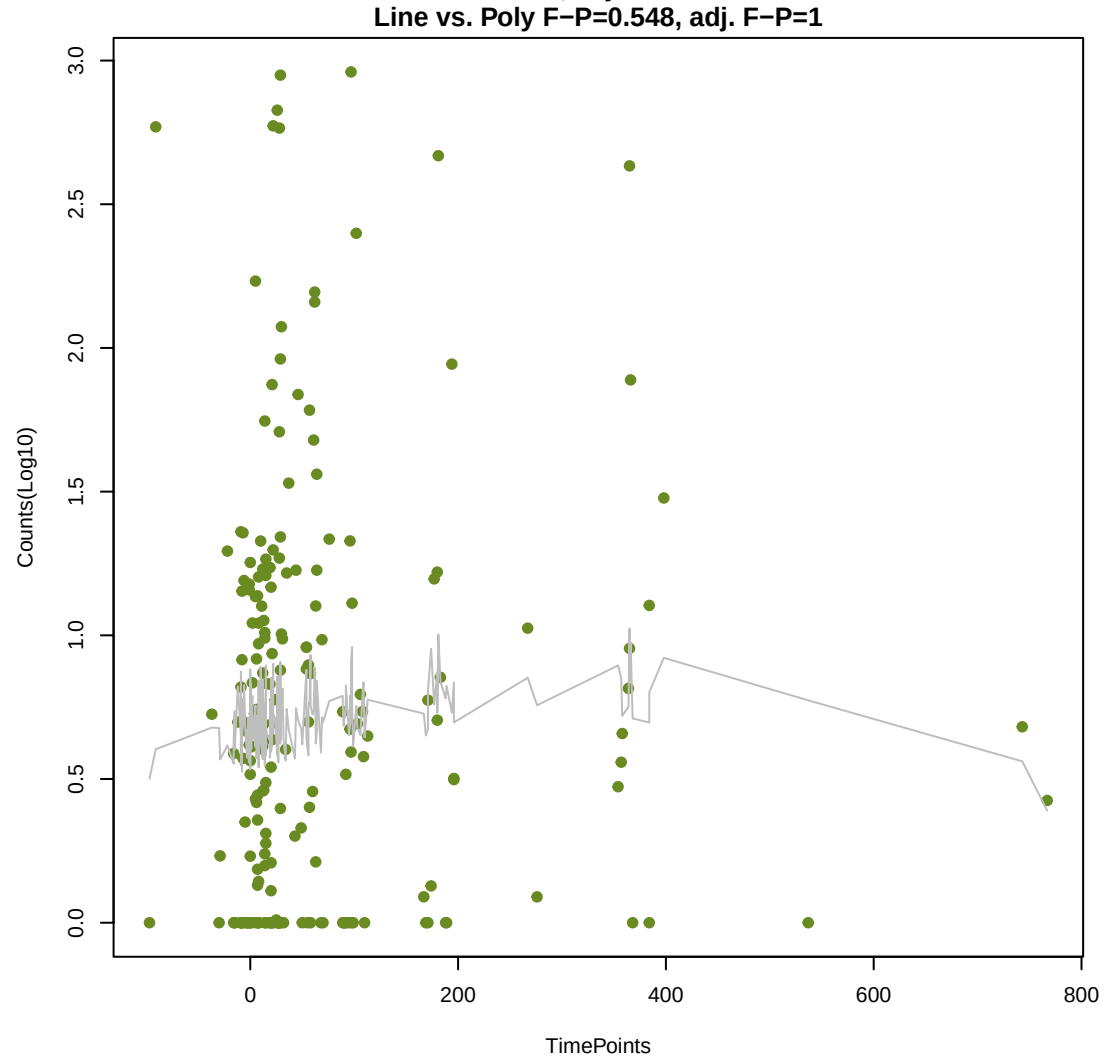
CDD beta−lactamase
ANOVA P=0.561, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.243, adj. F−P=0.988

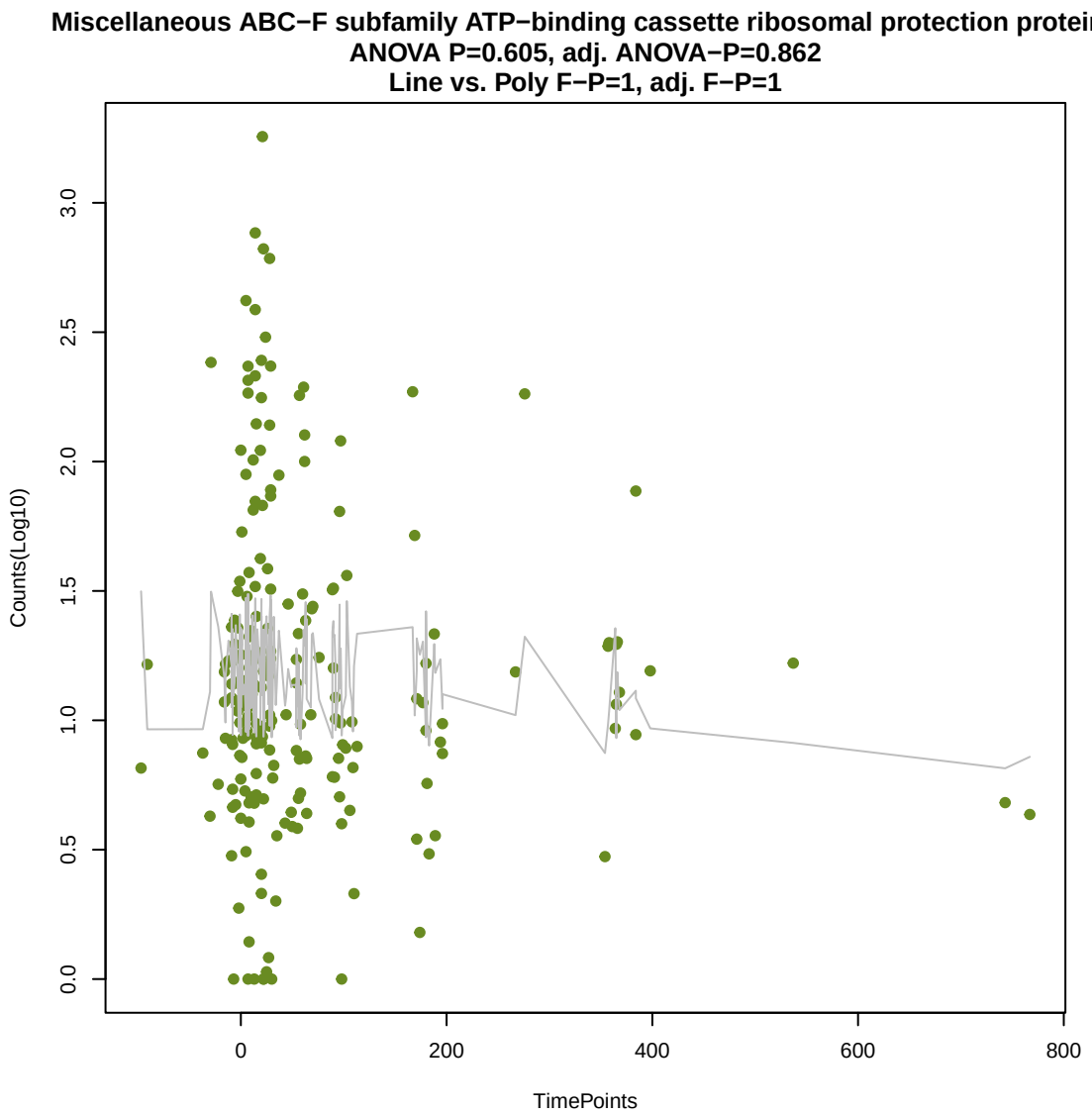


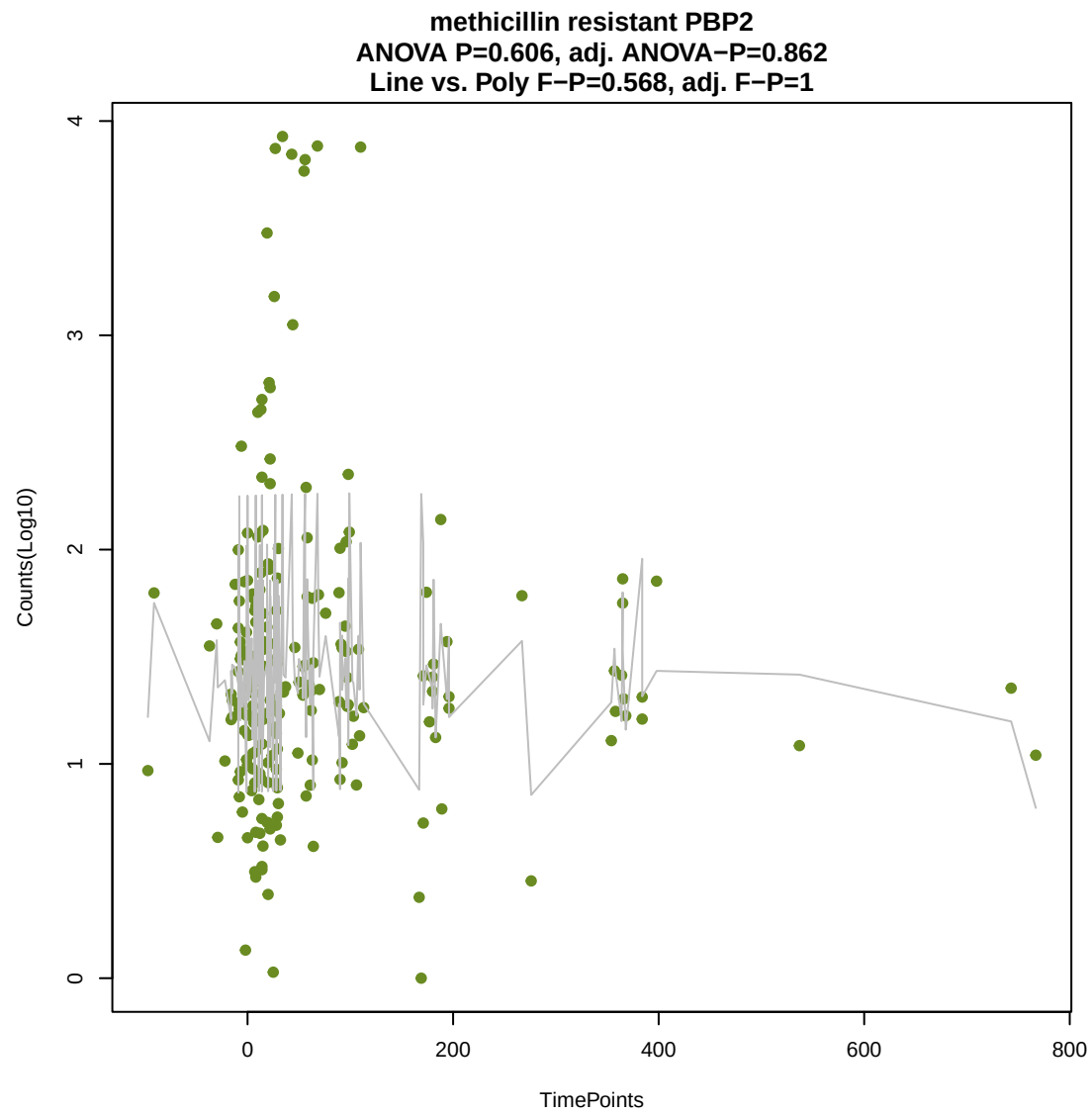
subclass B3 LRA beta−lactamase
ANOVA P=0.561, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.447, adj. F−P=1

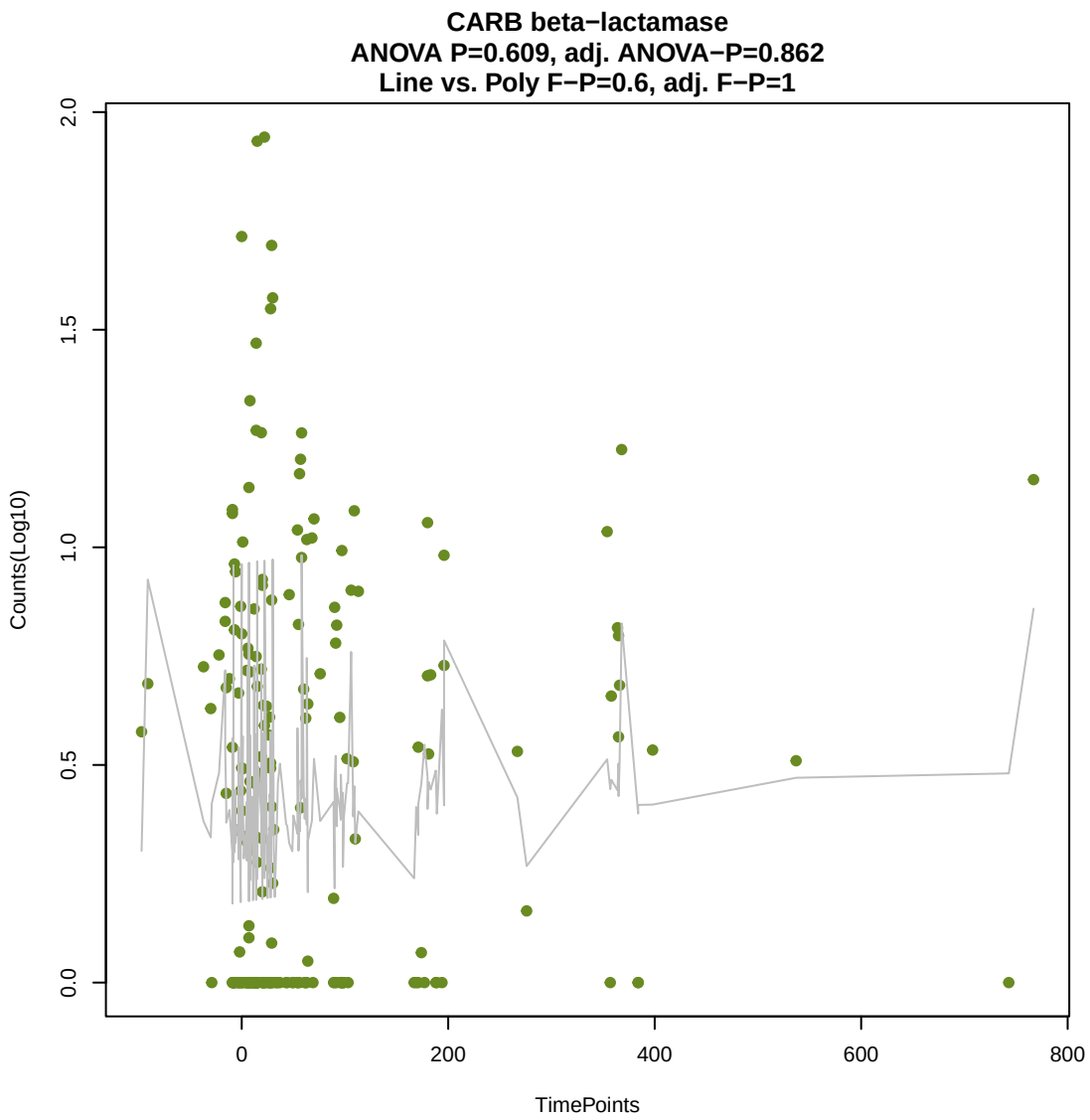


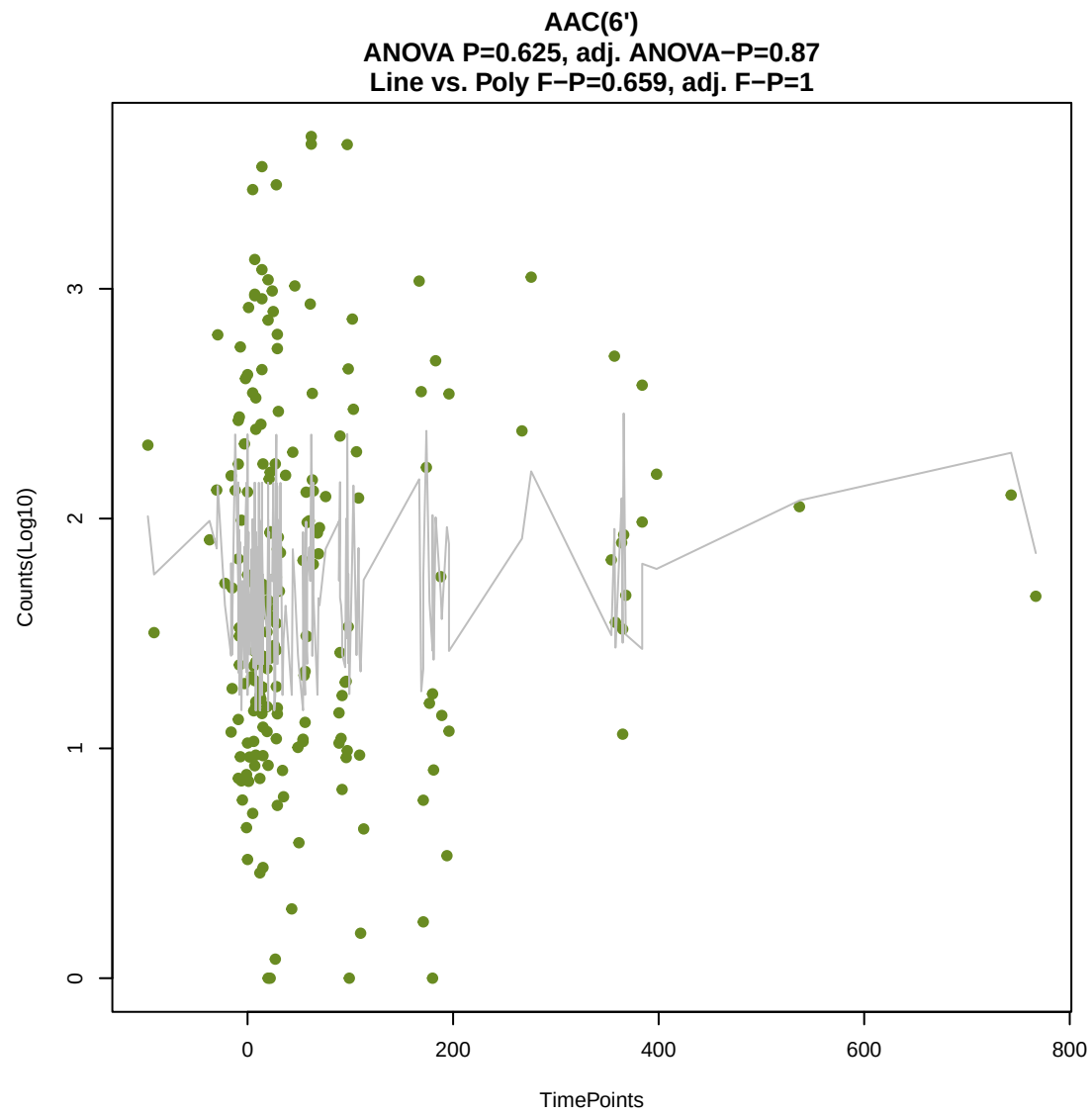

CMA beta−lactamase
ANOVA P=0.567, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.354, adj. F−P=1
Counts(Log10)
TimePoints

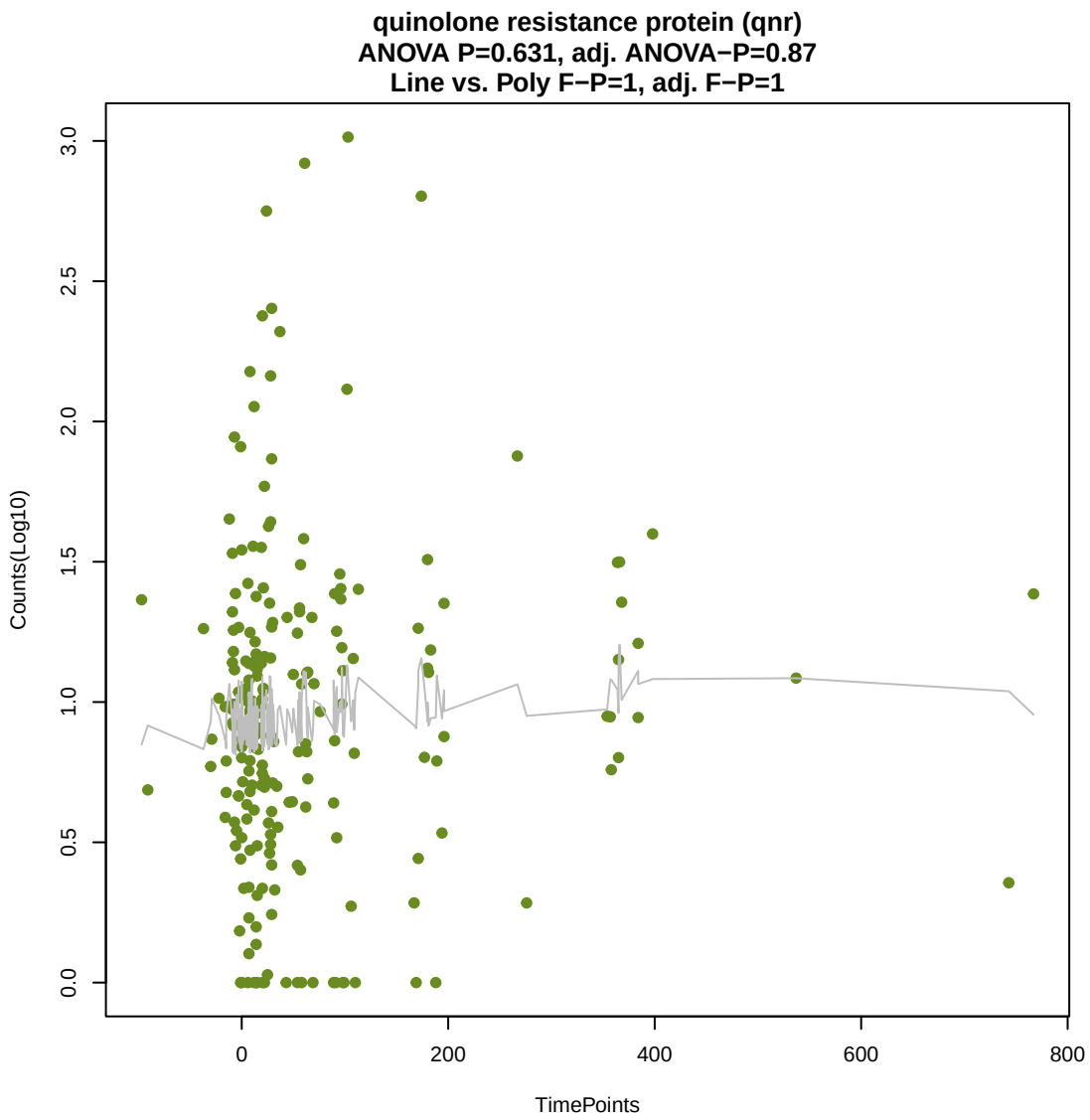

fosfomycin thiol transferase
ANOVA P=0.573, adj. ANOVA−P=0.844
Line vs. Poly F−P=0.548, adj. F−P=1
Counts(Log10)
TimePoints

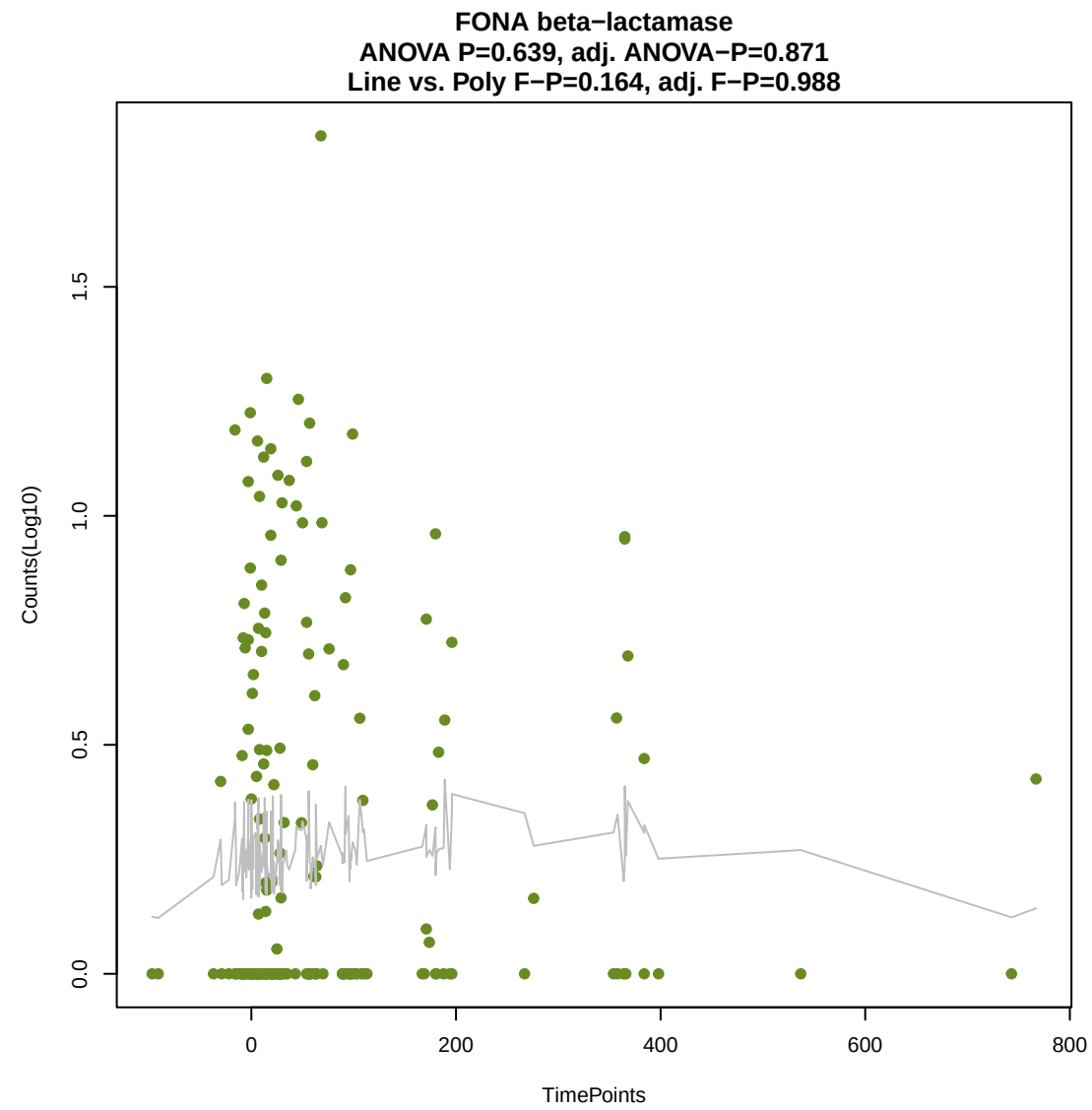

Miscellaneous ABC−F subfamily ATP−binding cassette ribosomal protection protei
ANOVA P=0.605, adj. ANOVA−P=0.862
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

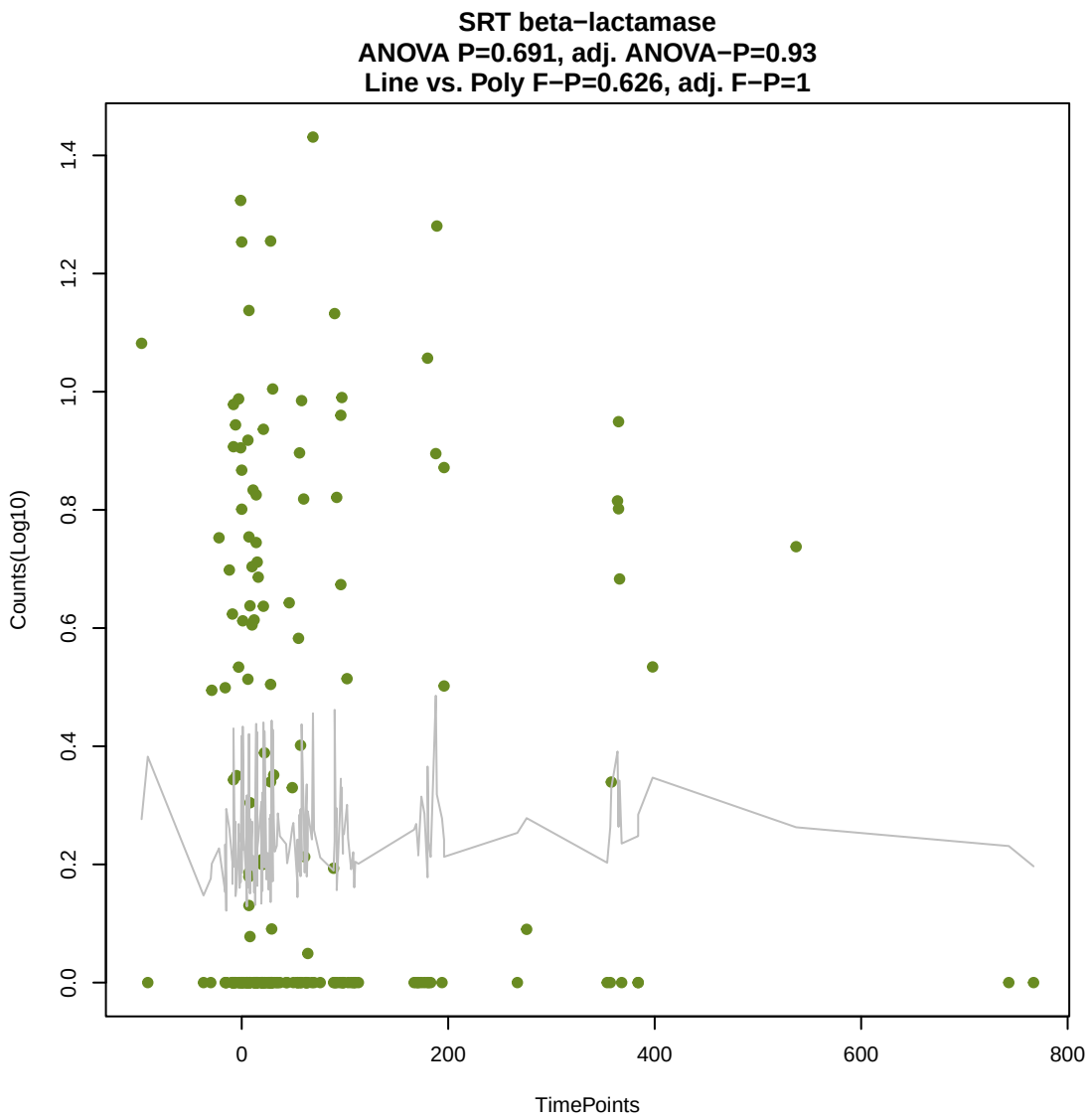

methicillin resistant PBP2
ANOVA P=0.606, adj. ANOVA−P=0.862
Line vs. Poly F−P=0.568, adj. F−P=1
Counts(Log10)
TimePoints

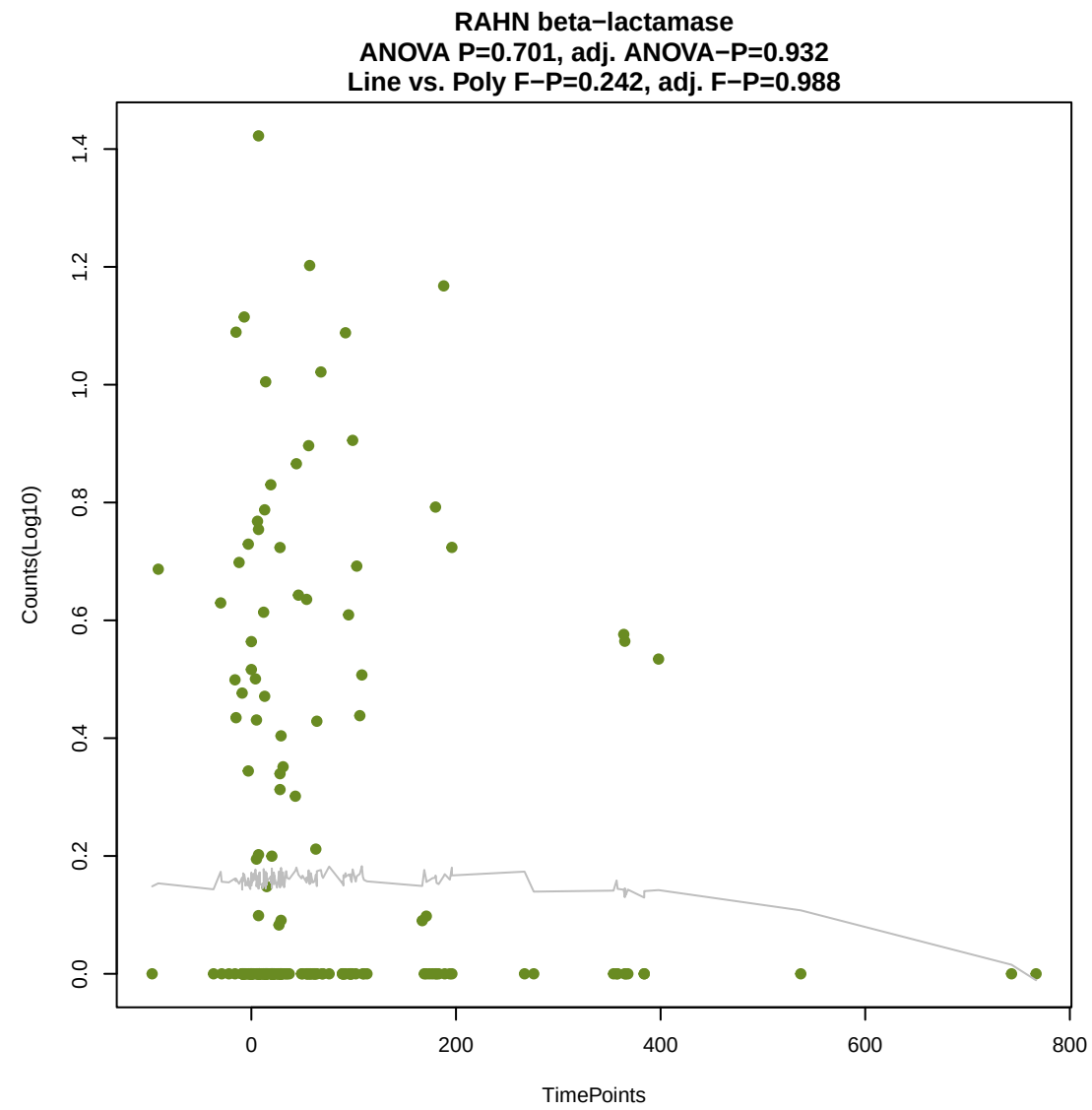

CARB beta−lactamase
ANOVA P=0.609, adj. ANOVA−P=0.862
Line vs. Poly F−P=0.6, adj. F−P=1
Counts(Log10)
TimePoints

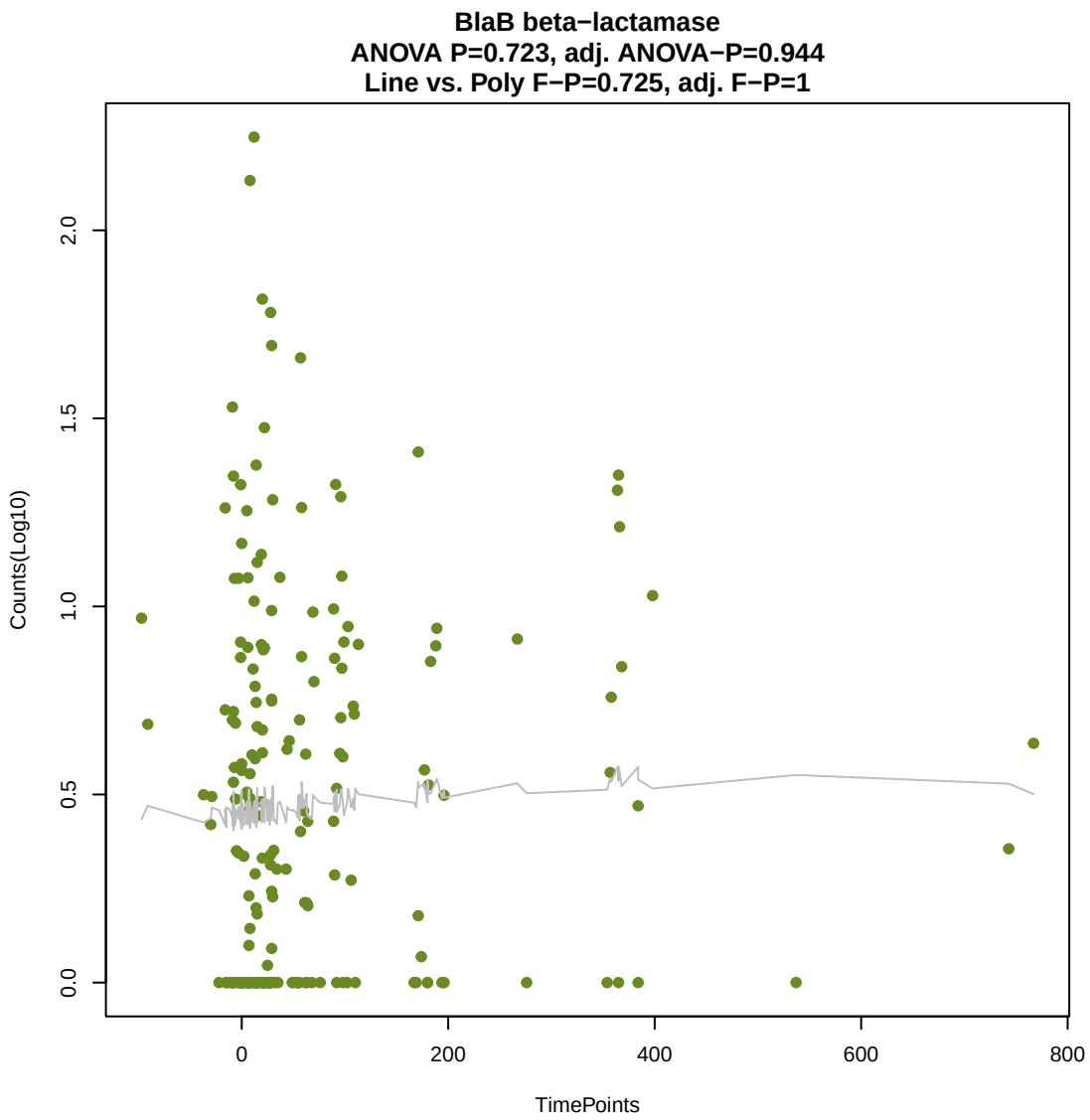

AAC(6')
ANOVA P=0.625, adj. ANOVA−P=0.87
Line vs. Poly F−P=0.659, adj. F−P=1
Counts(Log10)
TimePoints

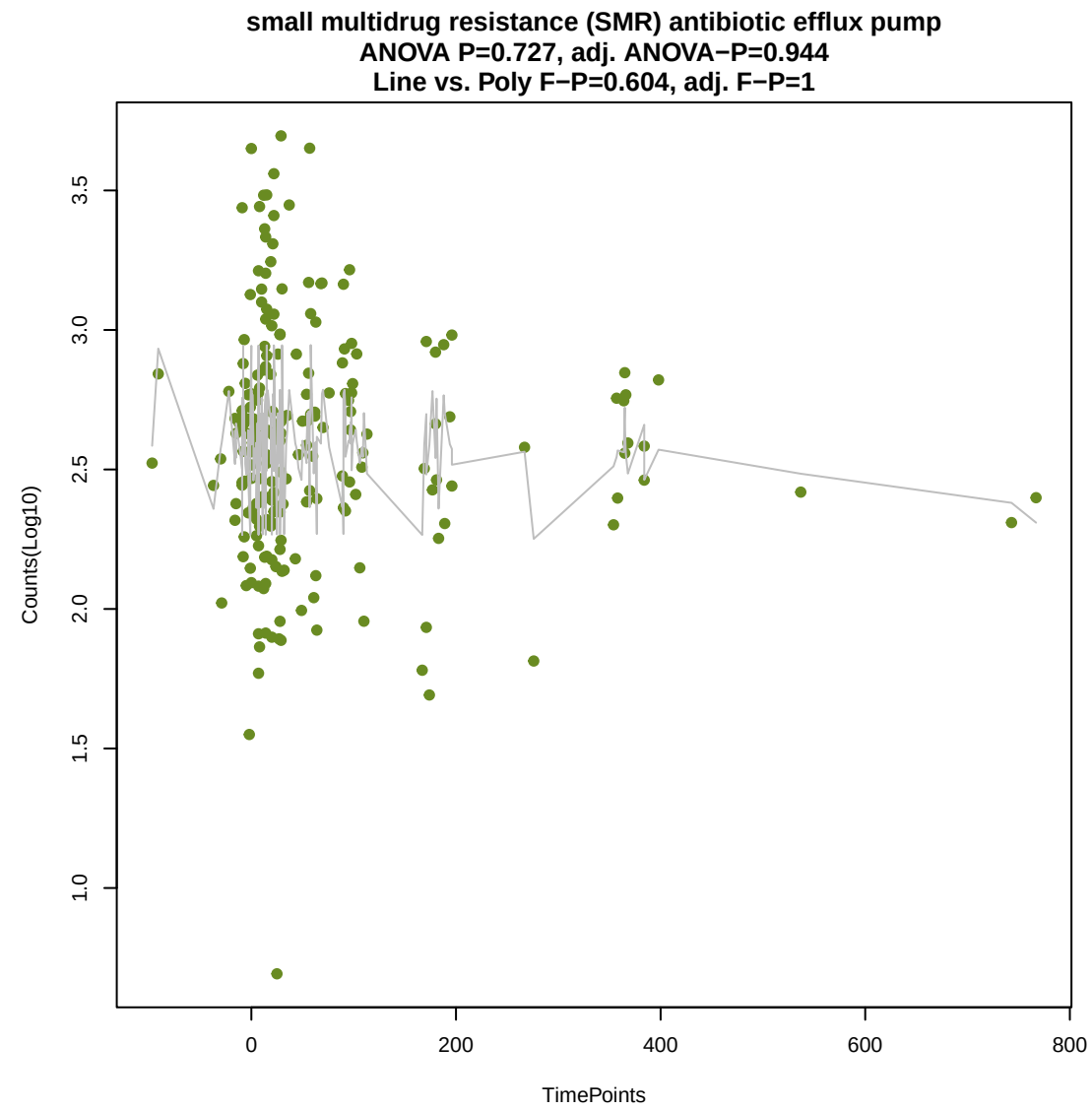

quinolone resistance protein (qnr)
ANOVA P=0.631, adj. ANOVA−P=0.87
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

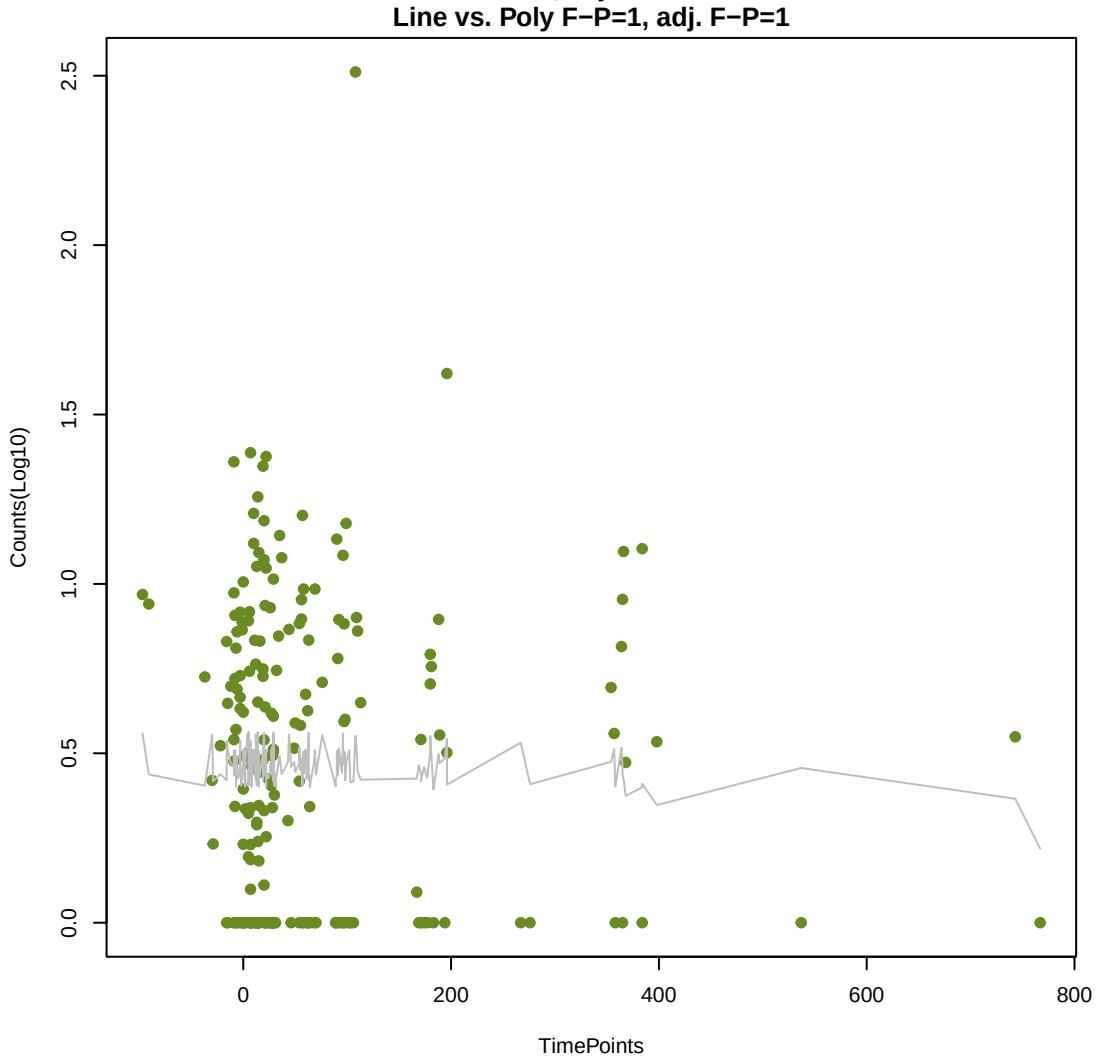

FONA beta−lactamase
ANOVA P=0.639, adj. ANOVA−P=0.871
Line vs. Poly F−P=0.164, adj. F−P=0.988
Counts(Log10)
TimePoints

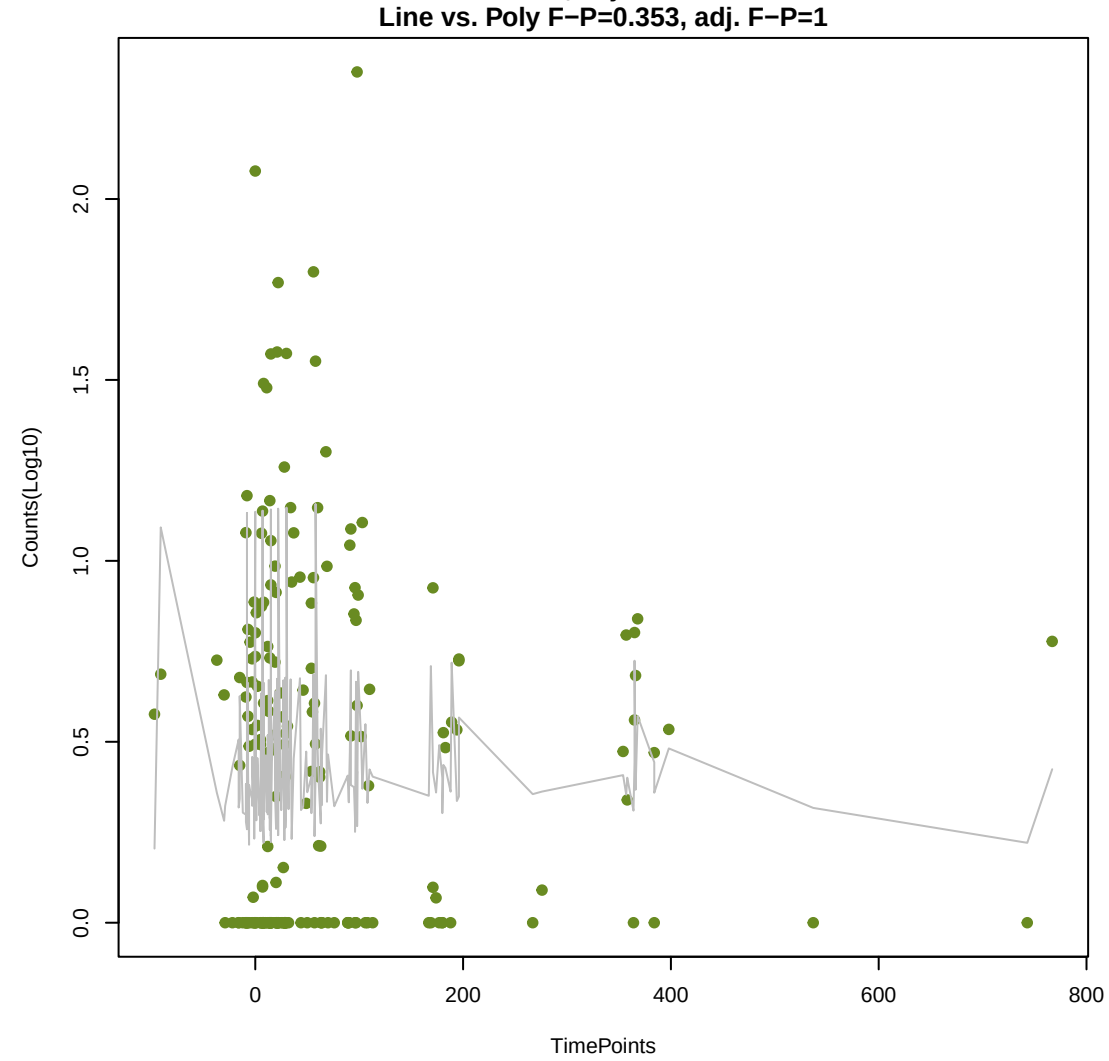

SRT beta−lactamase
ANOVA P=0.691, adj. ANOVA−P=0.93
Line vs. Poly F−P=0.626, adj. F−P=1
Counts(Log10)
TimePoints

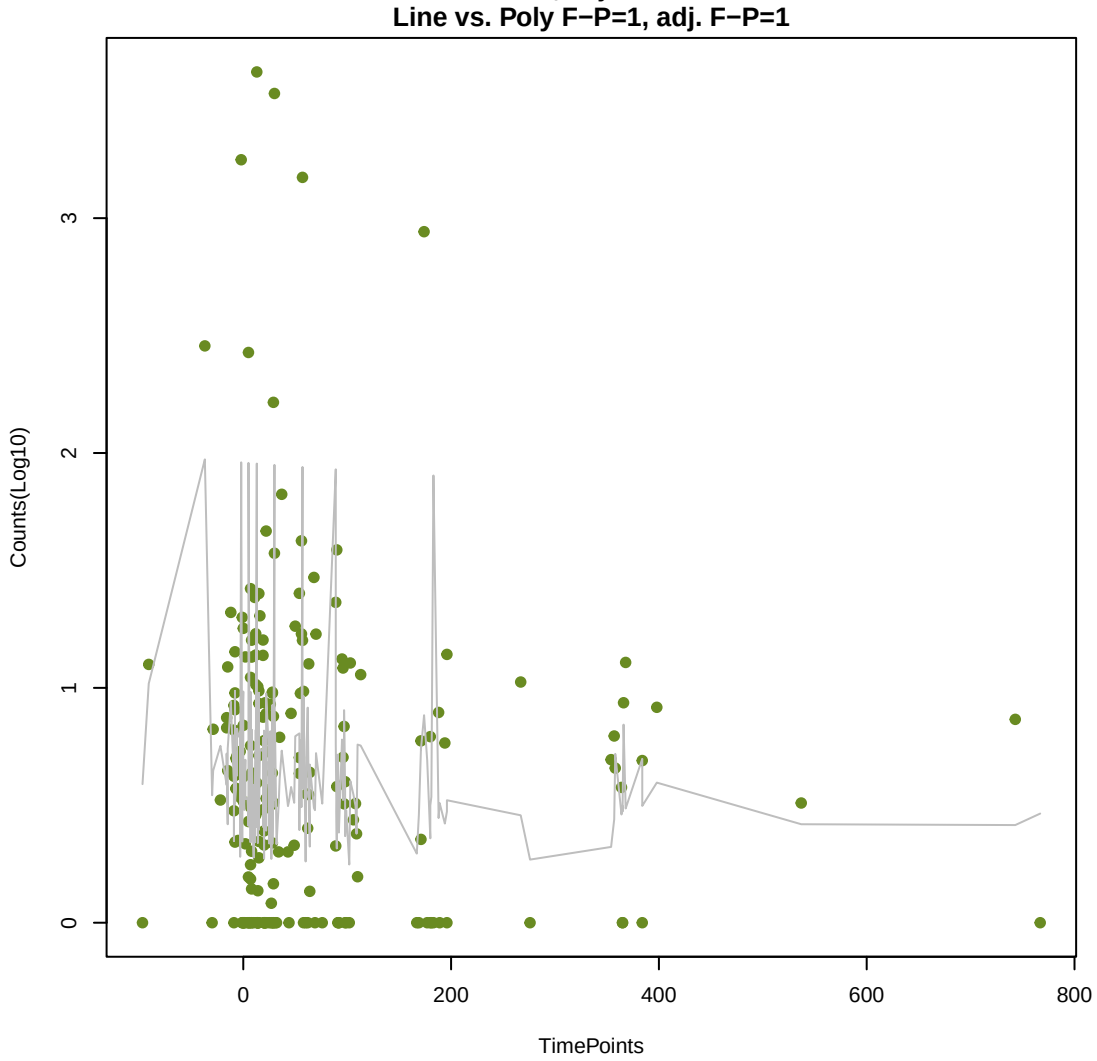

RAHN beta−lactamase
ANOVA P=0.701, adj. ANOVA−P=0.932
Line vs. Poly F−P=0.242, adj. F−P=0.988
Counts(Log10)
TimePoints

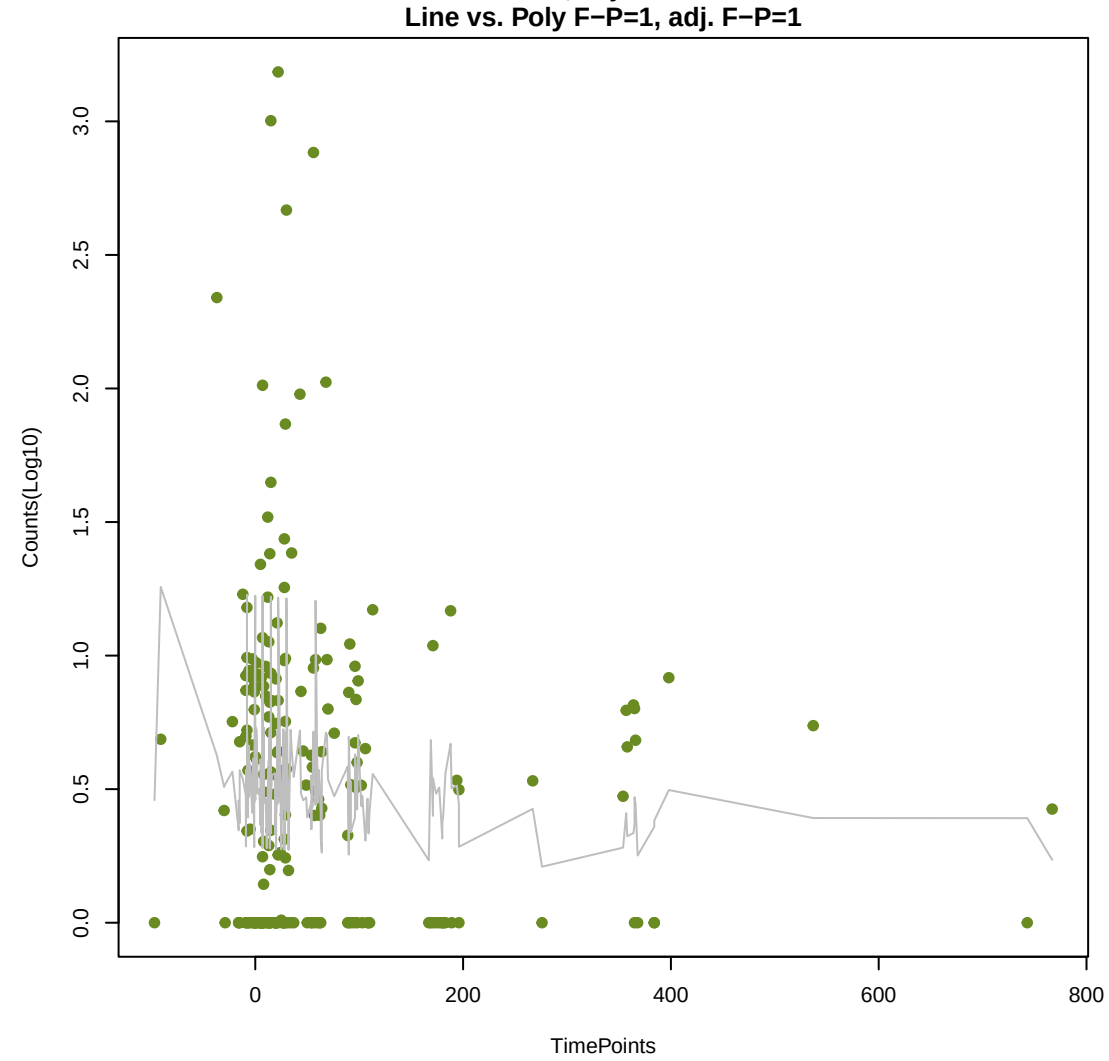

BlaB beta−lactamase
ANOVA P=0.723, adj. ANOVA−P=0.944
Line vs. Poly F−P=0.725, adj. F−P=1
Counts(Log10)
TimePoints

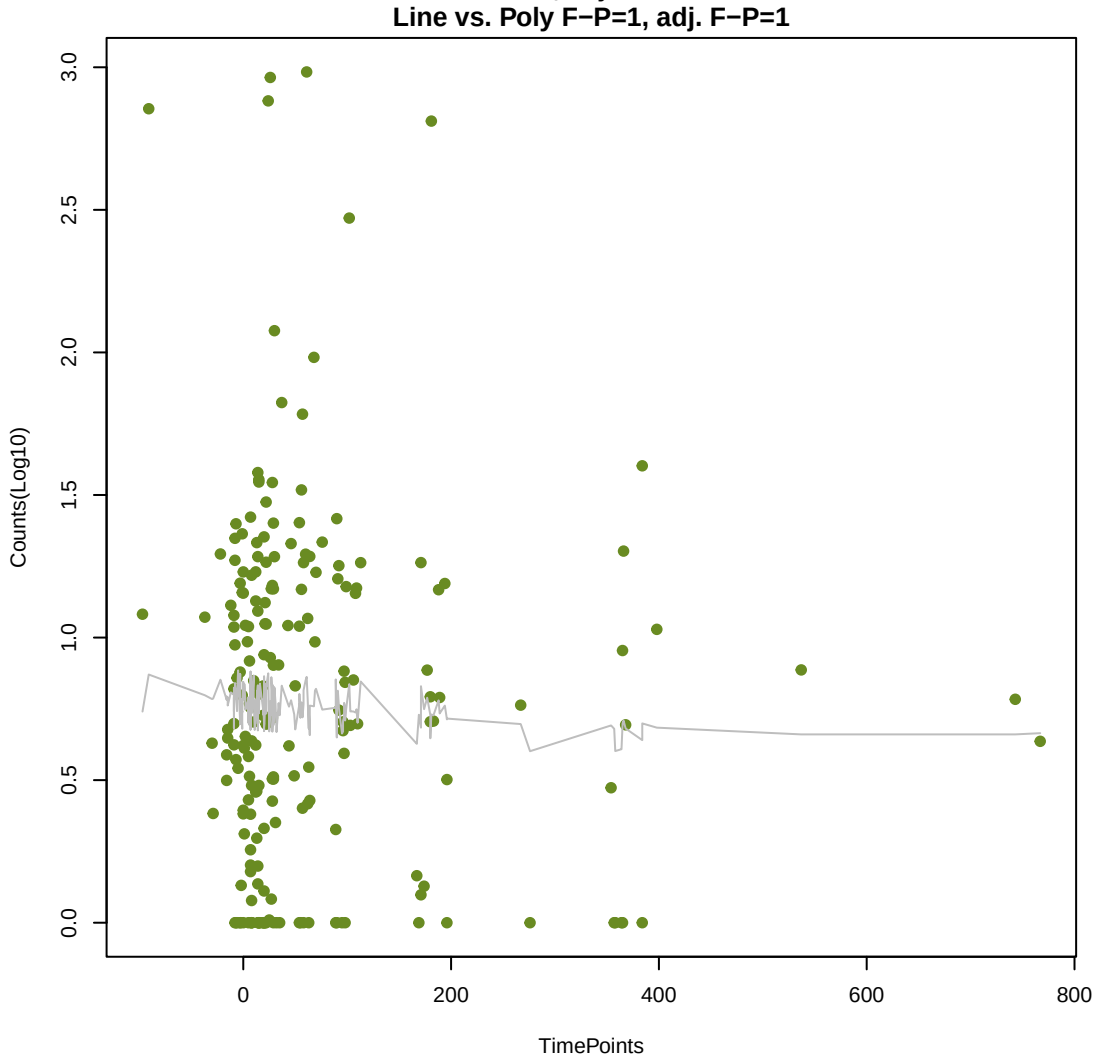

small multidrug resistance (SMR) antibiotic efflux pump
ANOVA P=0.727, adj. ANOVA−P=0.944
Line vs. Poly F−P=0.604, adj. F−P=1
Counts(Log10)
TimePoints

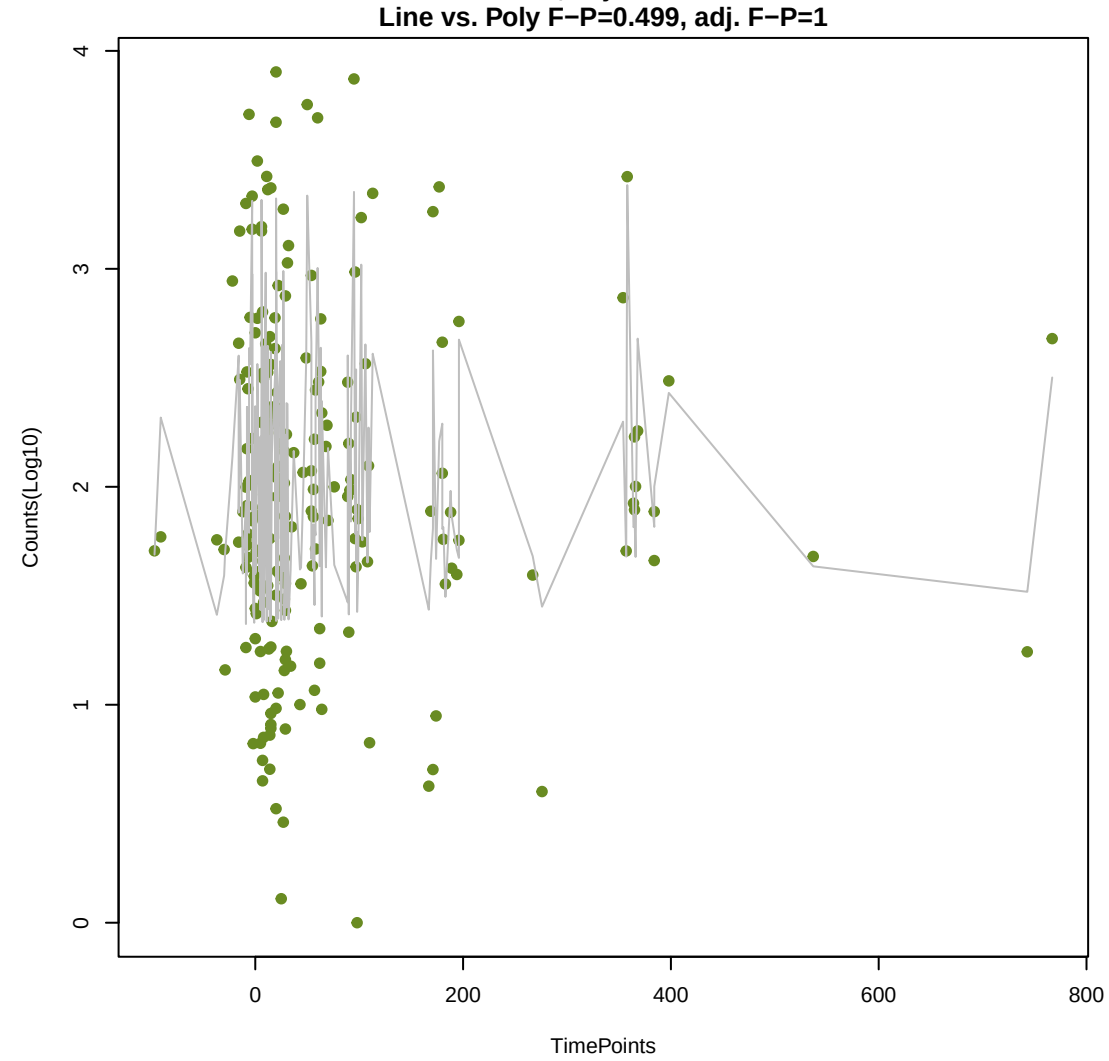

MCR phosphoethanolamine transferase
ANOVA P=0.763, adj. ANOVA−P=0.968
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

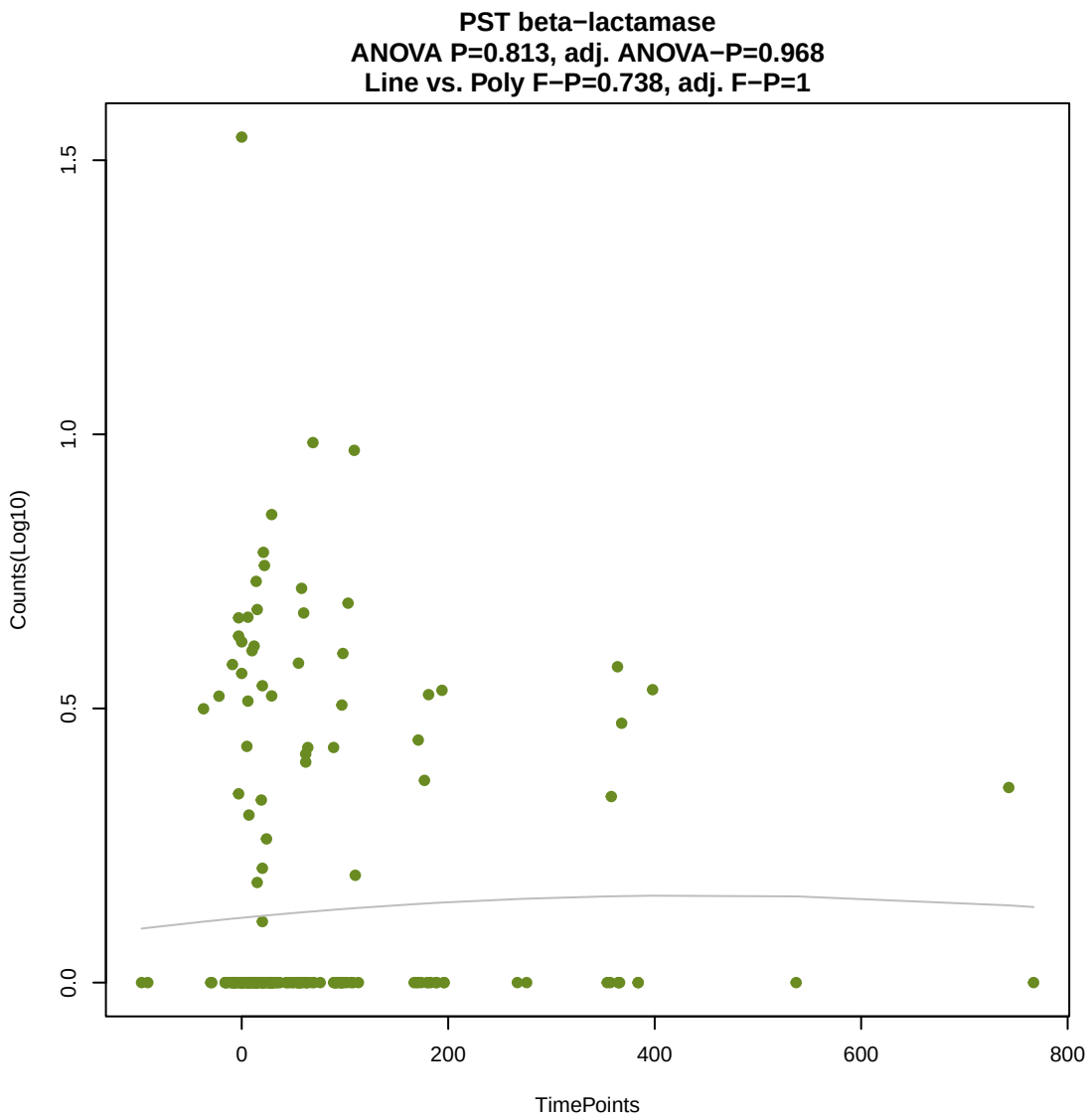

ADC beta−lactamase without carbapenemase activity
ANOVA P=0.769, adj. ANOVA−P=0.968
Line vs. Poly F−P=0.353, adj. F−P=1
Counts(Log10)
TimePoints

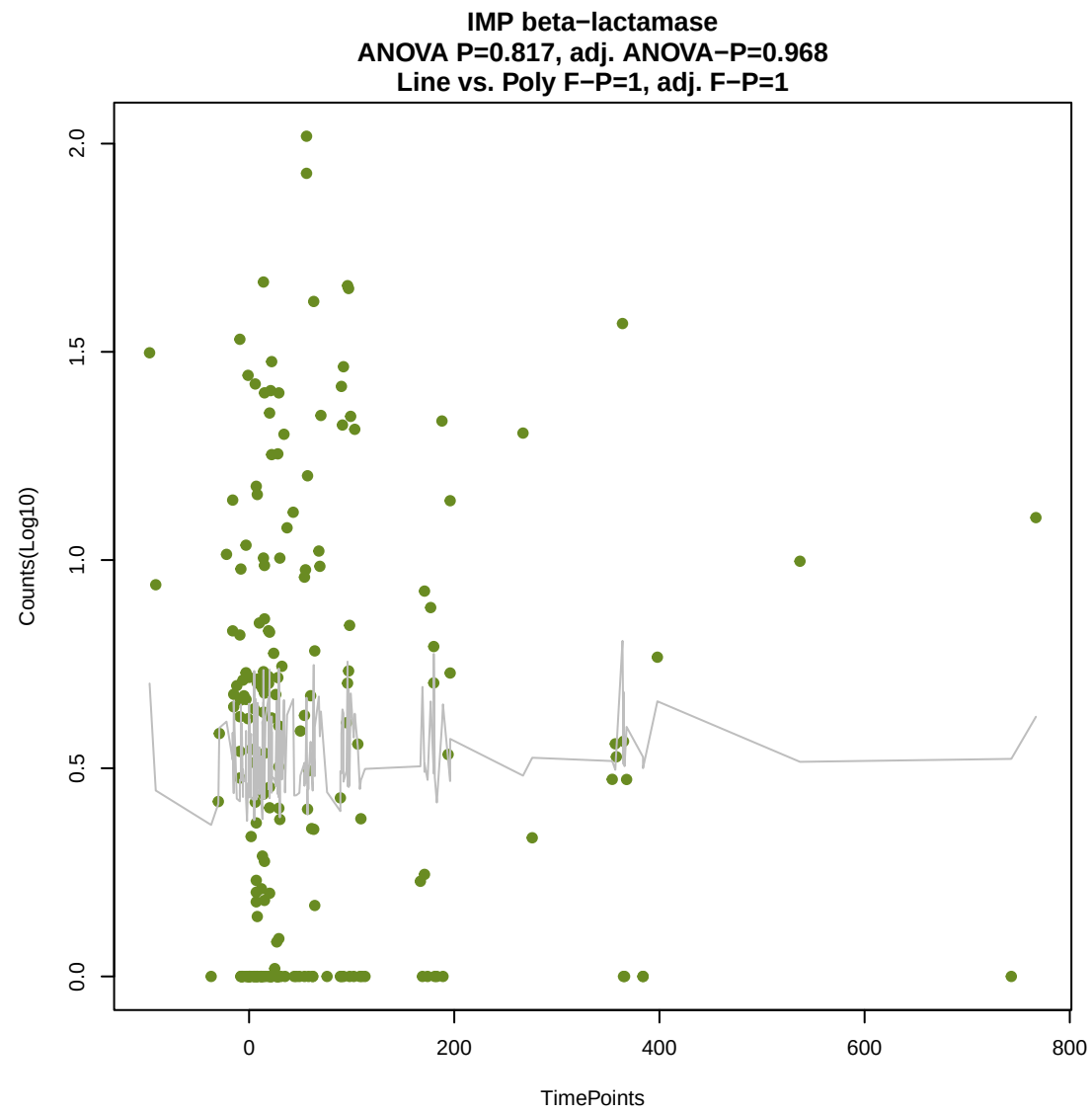

CTX−M beta−lactamase
ANOVA P=0.793, adj. ANOVA−P=0.968
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

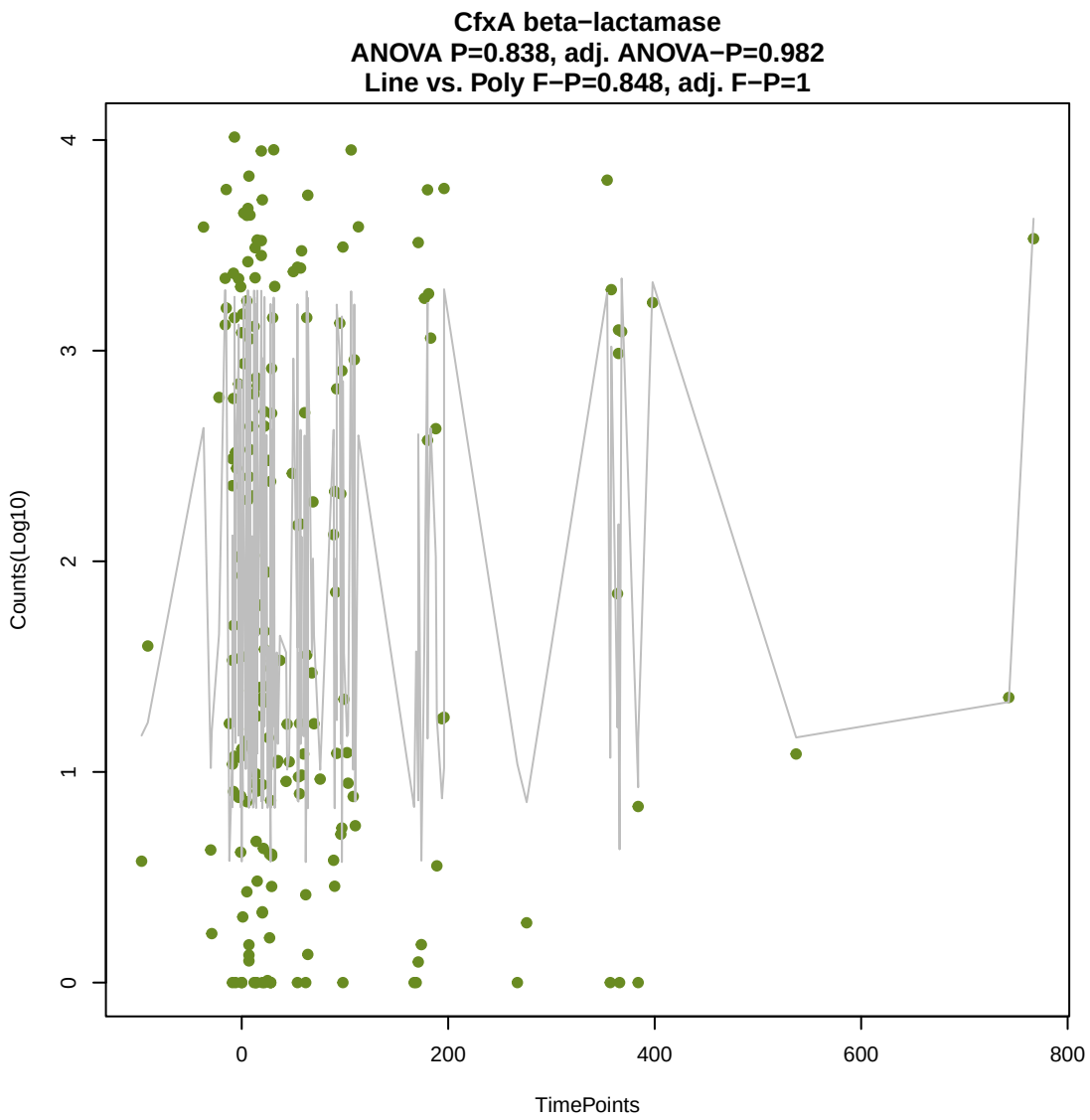

Cfr 23S ribosomal RNA methyltransferase
ANOVA P=0.804, adj. ANOVA−P=0.968
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

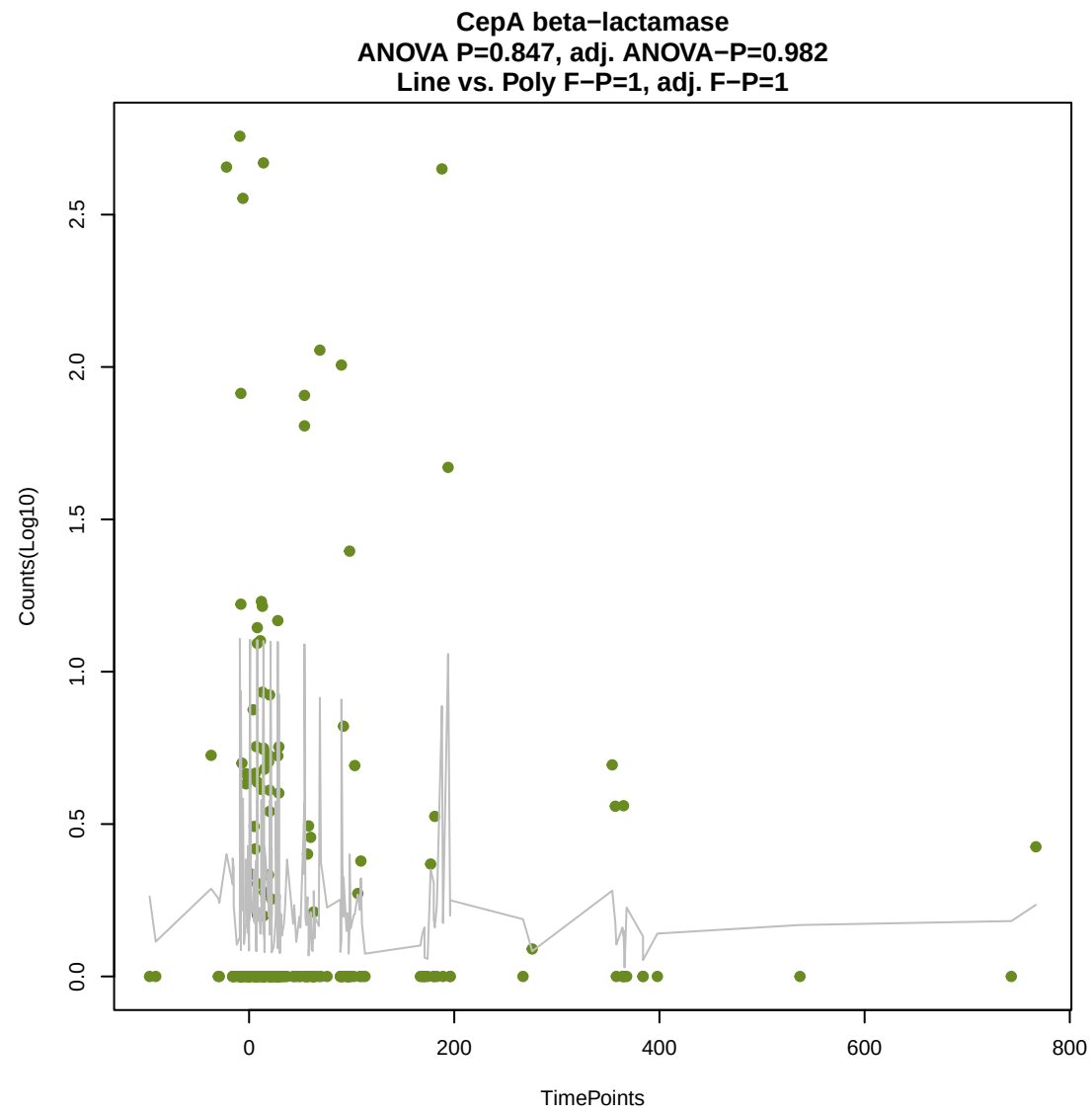

SHV beta−lactamase
ANOVA P=0.806, adj. ANOVA−P=0.968
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

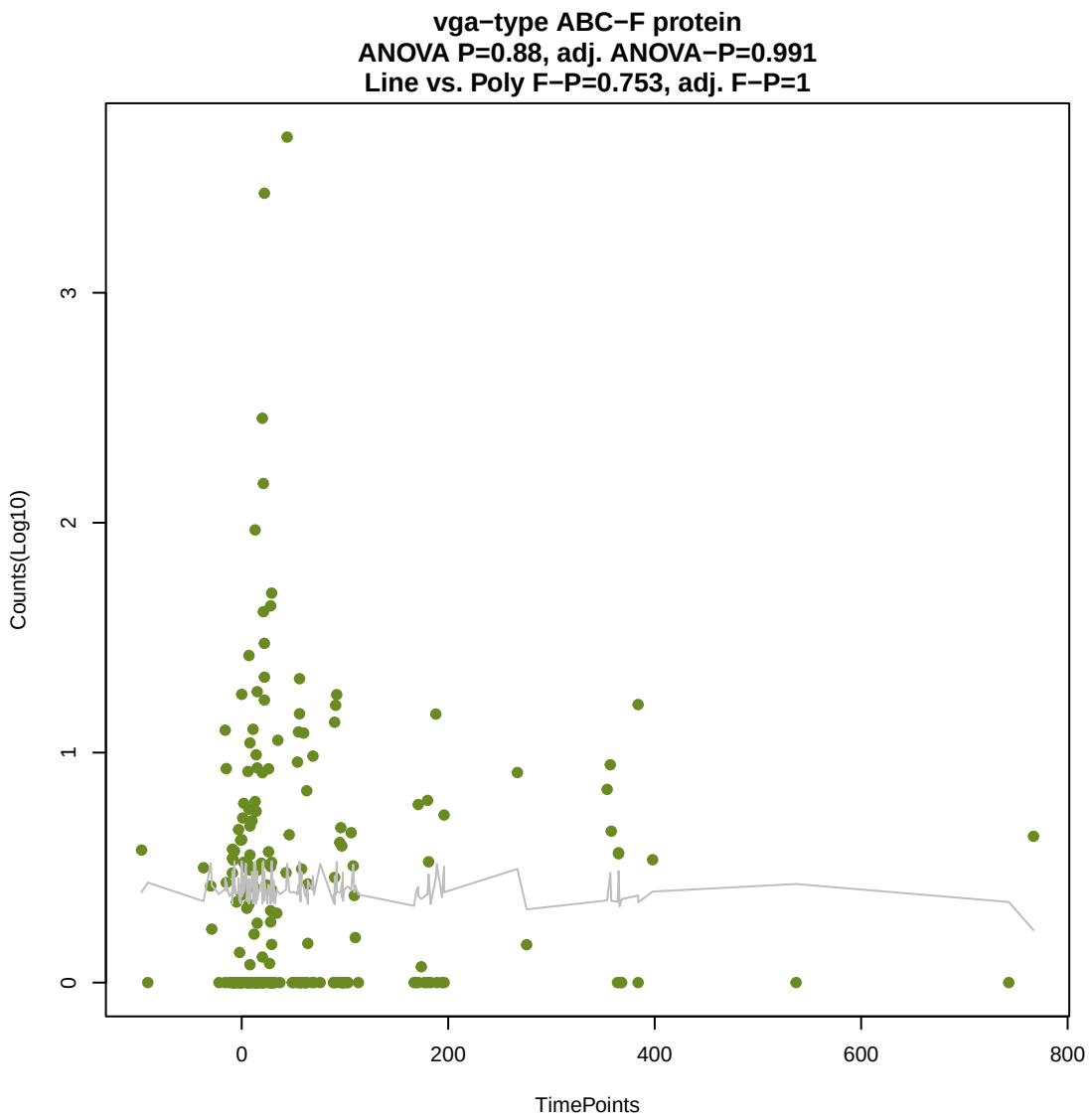

tetracycline inactivation enzyme
ANOVA P=0.81, adj. ANOVA−P=0.968
Line vs. Poly F−P=0.499, adj. F−P=1
Counts(Log10)
TimePoints

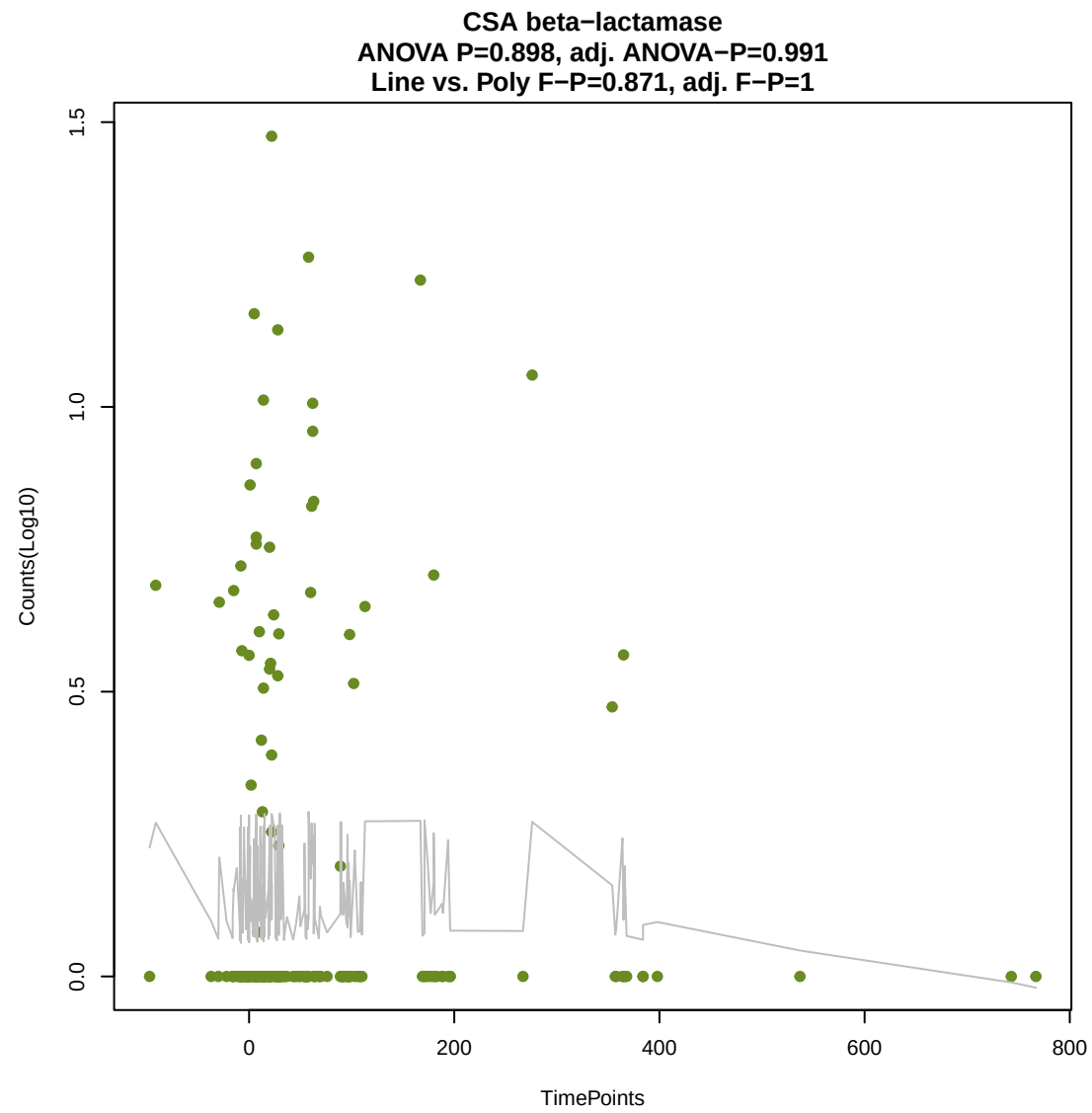

PST beta−lactamase
ANOVA P=0.813, adj. ANOVA−P=0.968
Line vs. Poly F−P=0.738, adj. F−P=1
Counts(Log10)
TimePoints

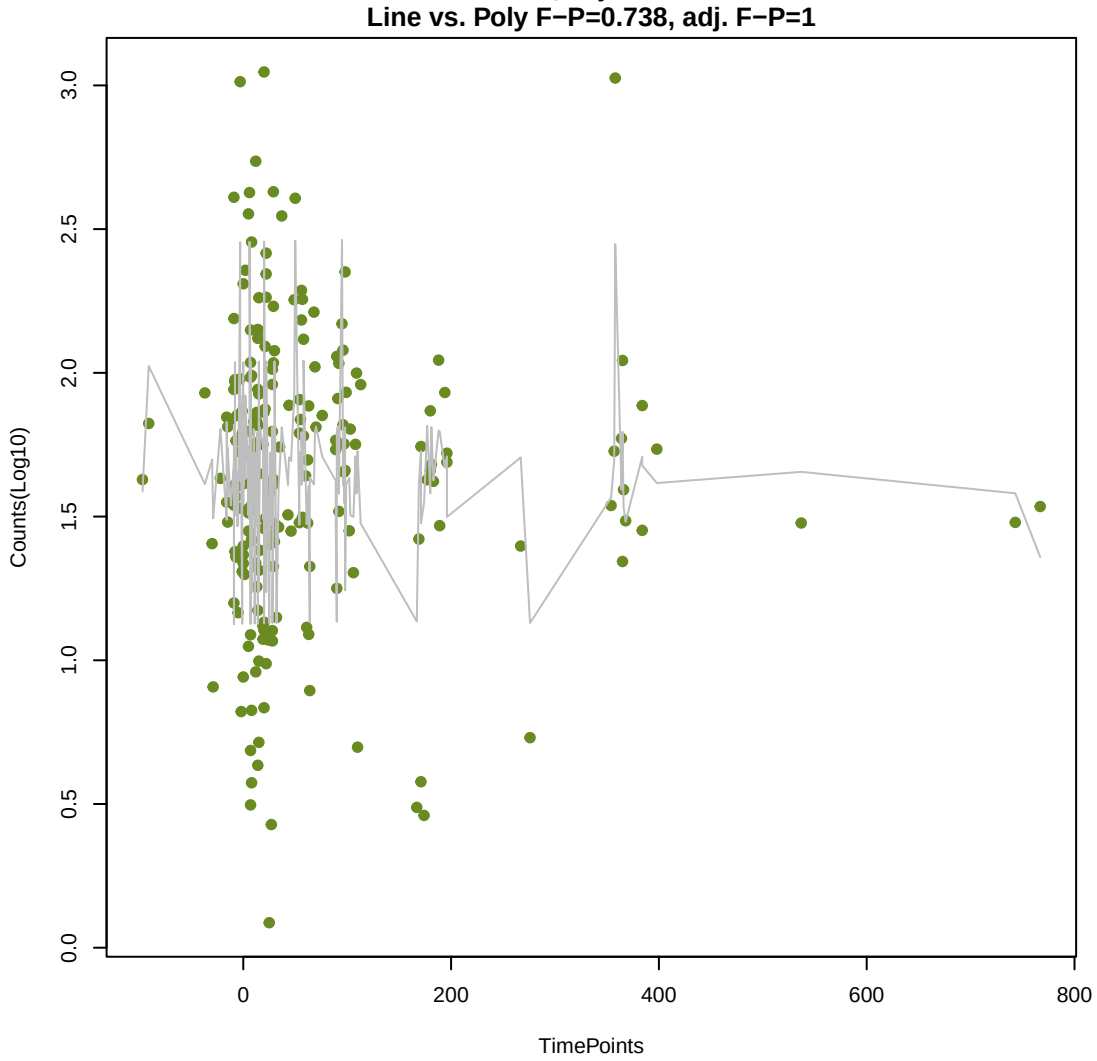

IMP beta−lactamase
ANOVA P=0.817, adj. ANOVA−P=0.968
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

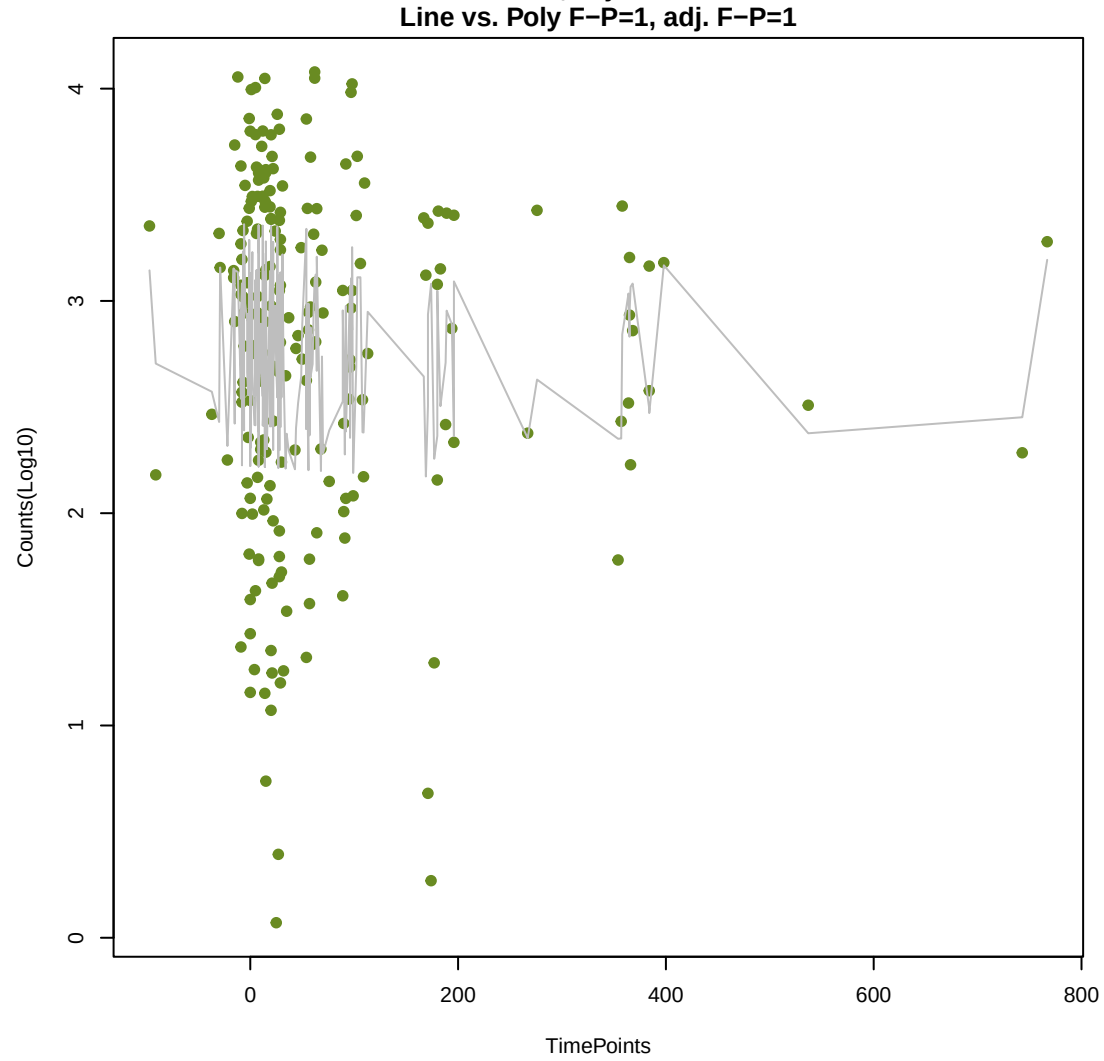

CfxA beta−lactamase
ANOVA P=0.838, adj. ANOVA−P=0.982
Line vs. Poly F−P=0.848, adj. F−P=1
Counts(Log10)
TimePoints

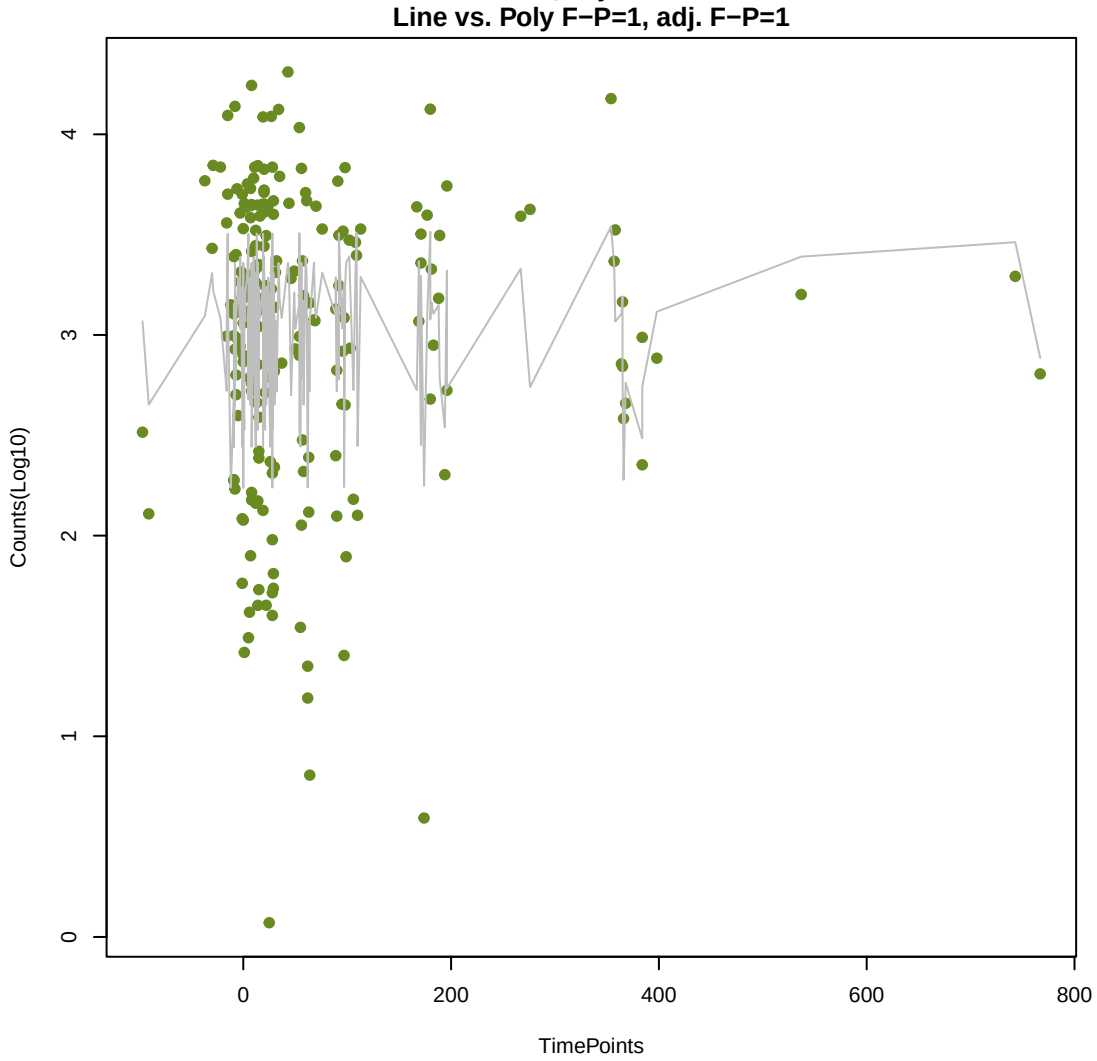

CepA beta−lactamase
ANOVA P=0.847, adj. ANOVA−P=0.982
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

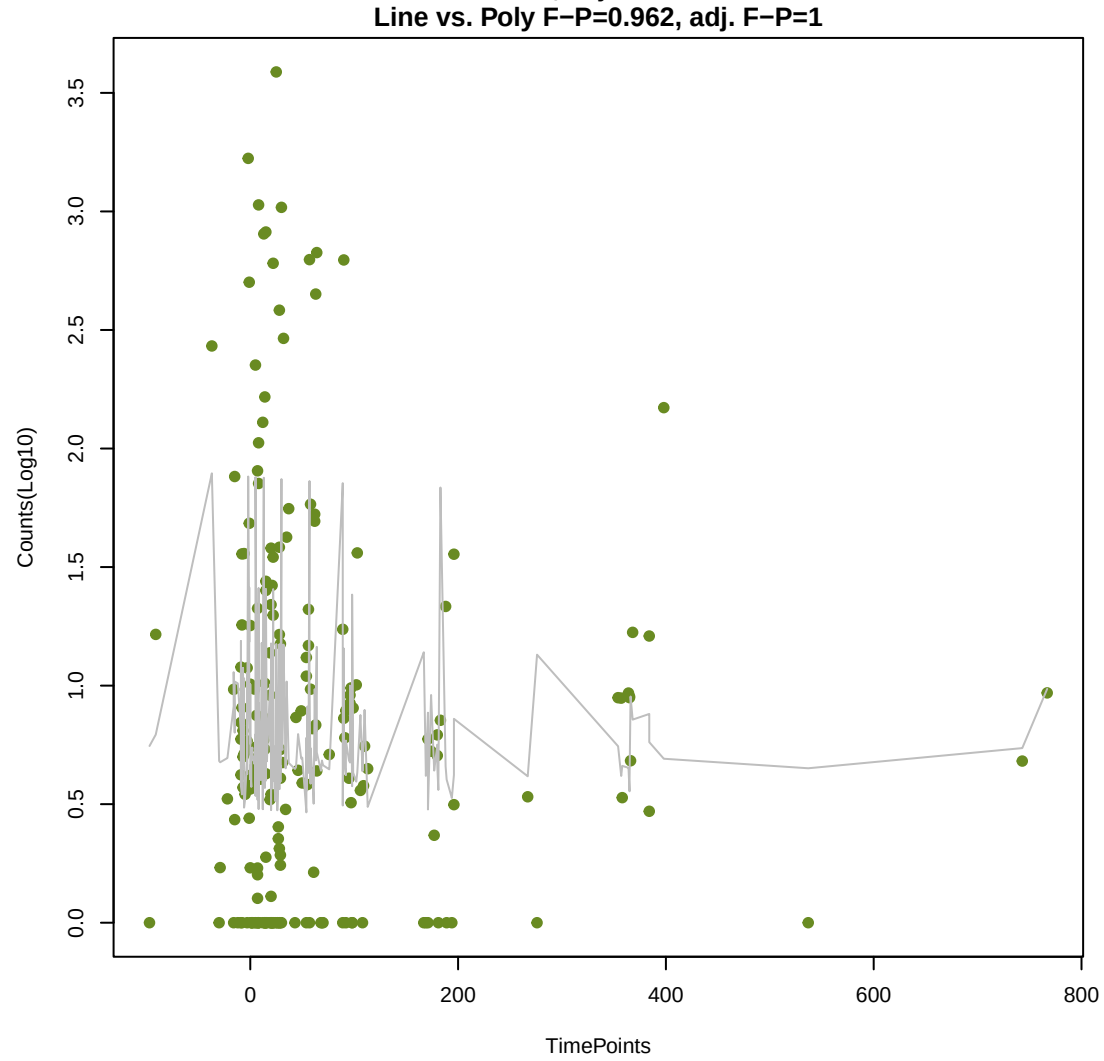

vga−type ABC−F protein
ANOVA P=0.88, adj. ANOVA−P=0.991
Line vs. Poly F−P=0.753, adj. F−P=1
Counts(Log10)
TimePoints

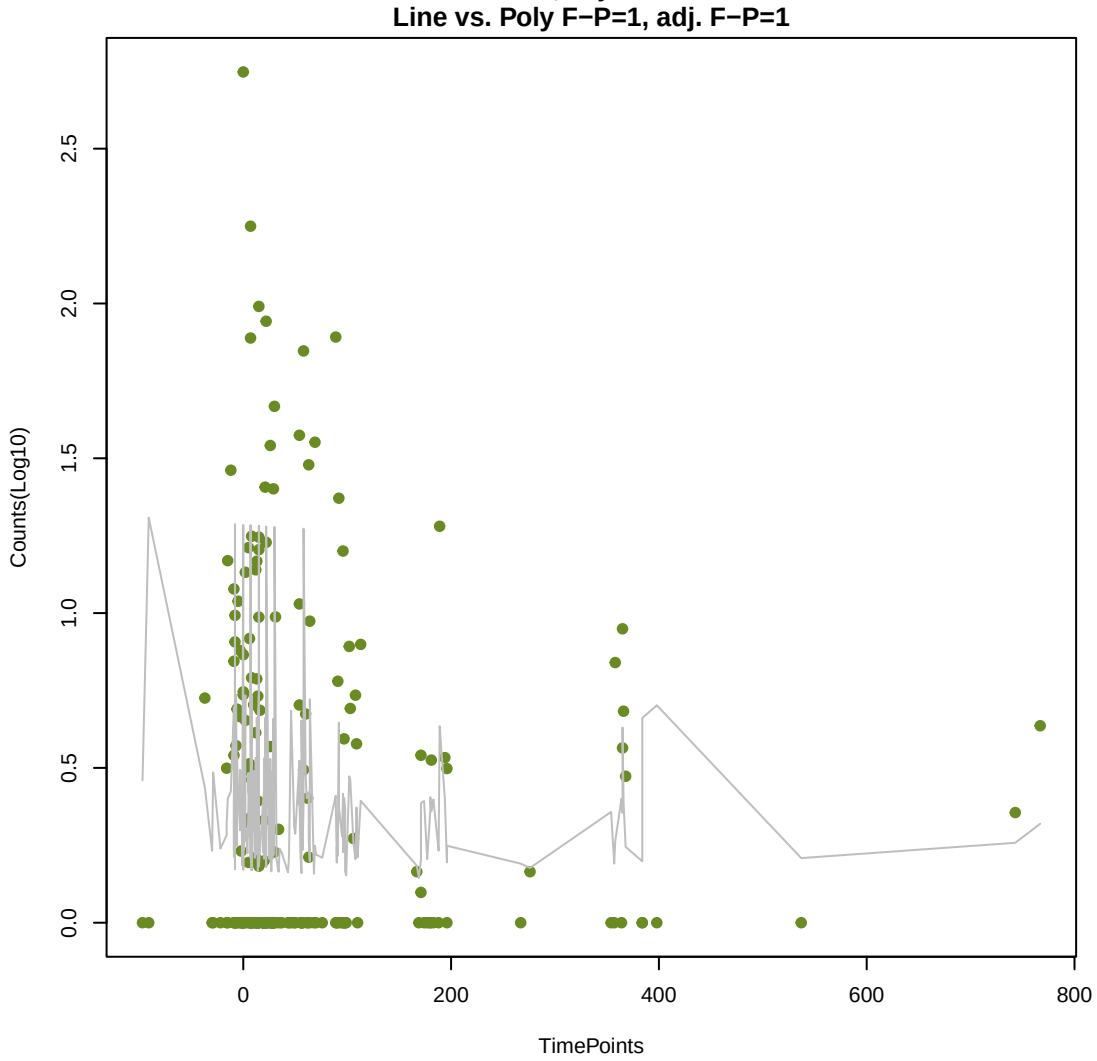

CSA beta−lactamase
ANOVA P=0.898, adj. ANOVA−P=0.991
Line vs. Poly F−P=0.871, adj. F−P=1
Counts(Log10)
TimePoints

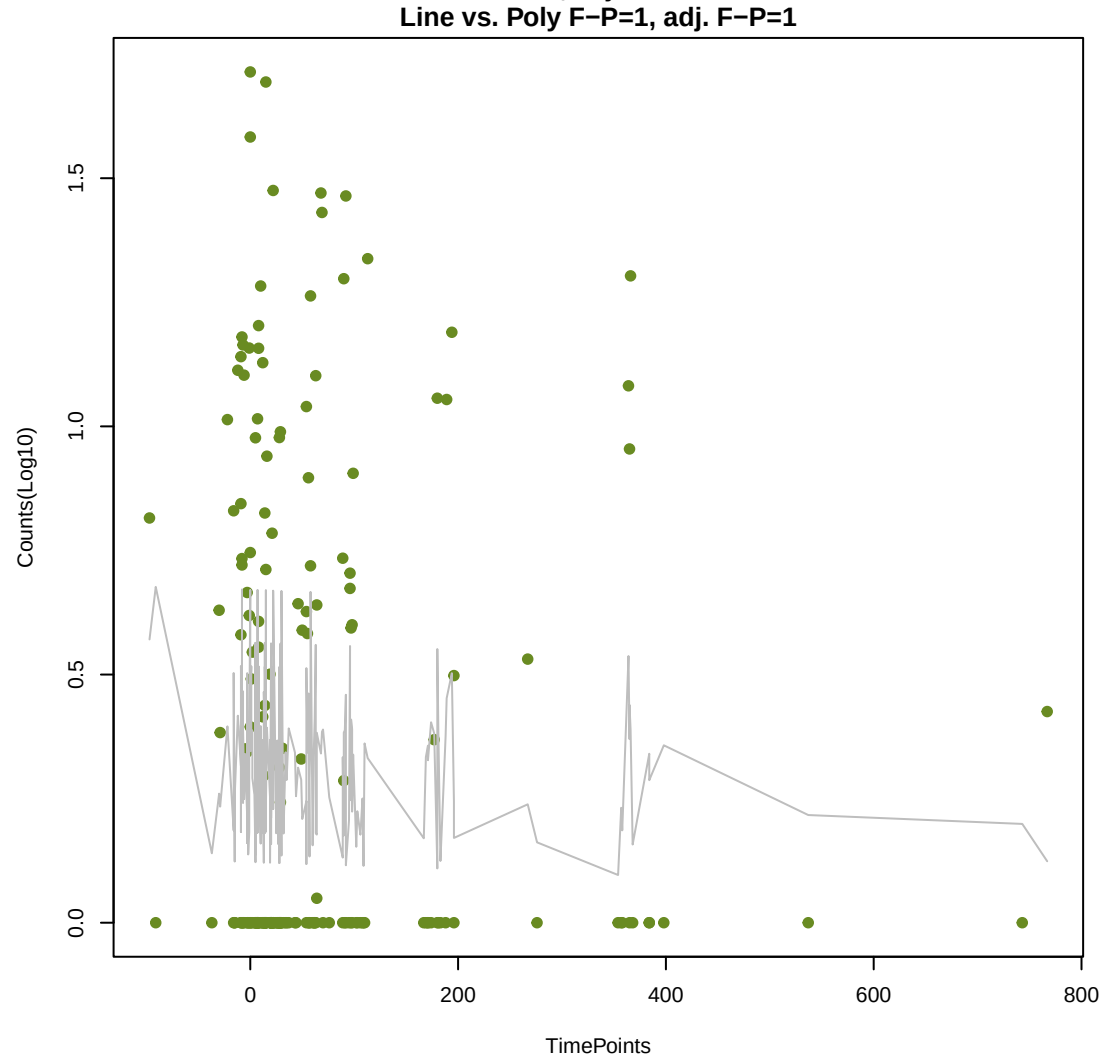

OXA beta−lactamase
ANOVA P=0.902, adj. ANOVA−P=0.991
Line vs. Poly F−P=0.738, adj. F−P=1
Counts(Log10)
TimePoints

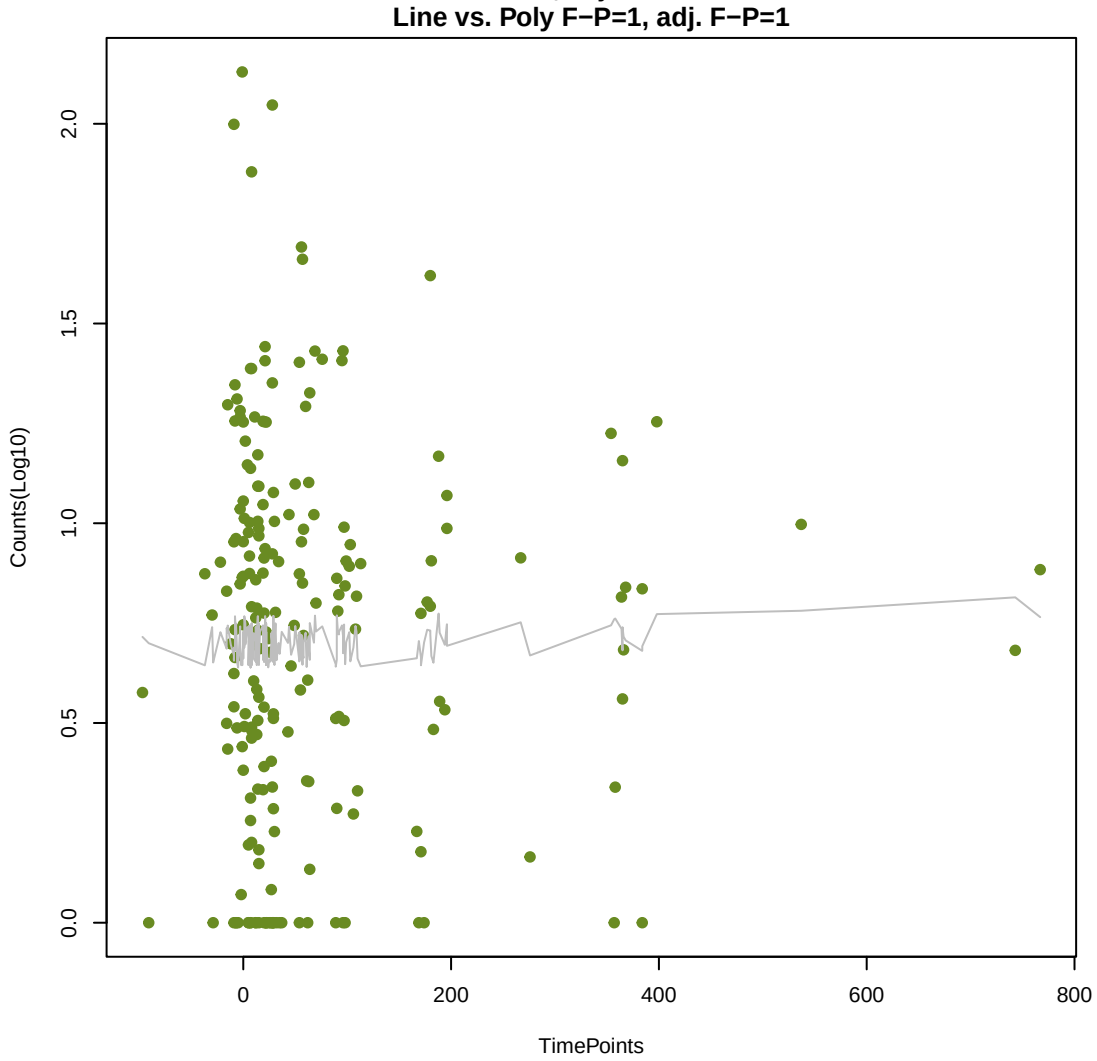

msr−type ABC−F protein
ANOVA P=0.915, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

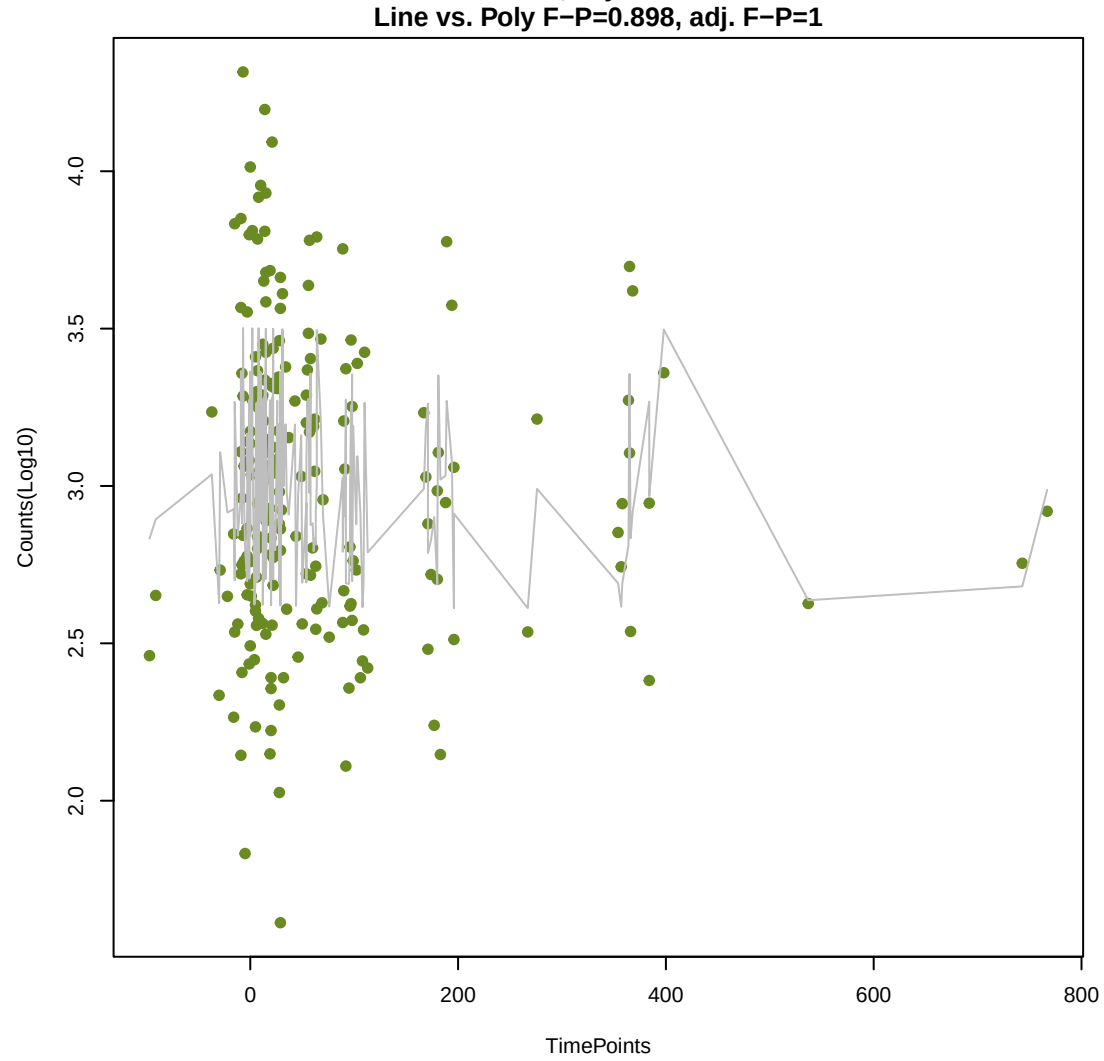

Erm 23S ribosomal RNA methyltransferase
ANOVA P=0.923, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

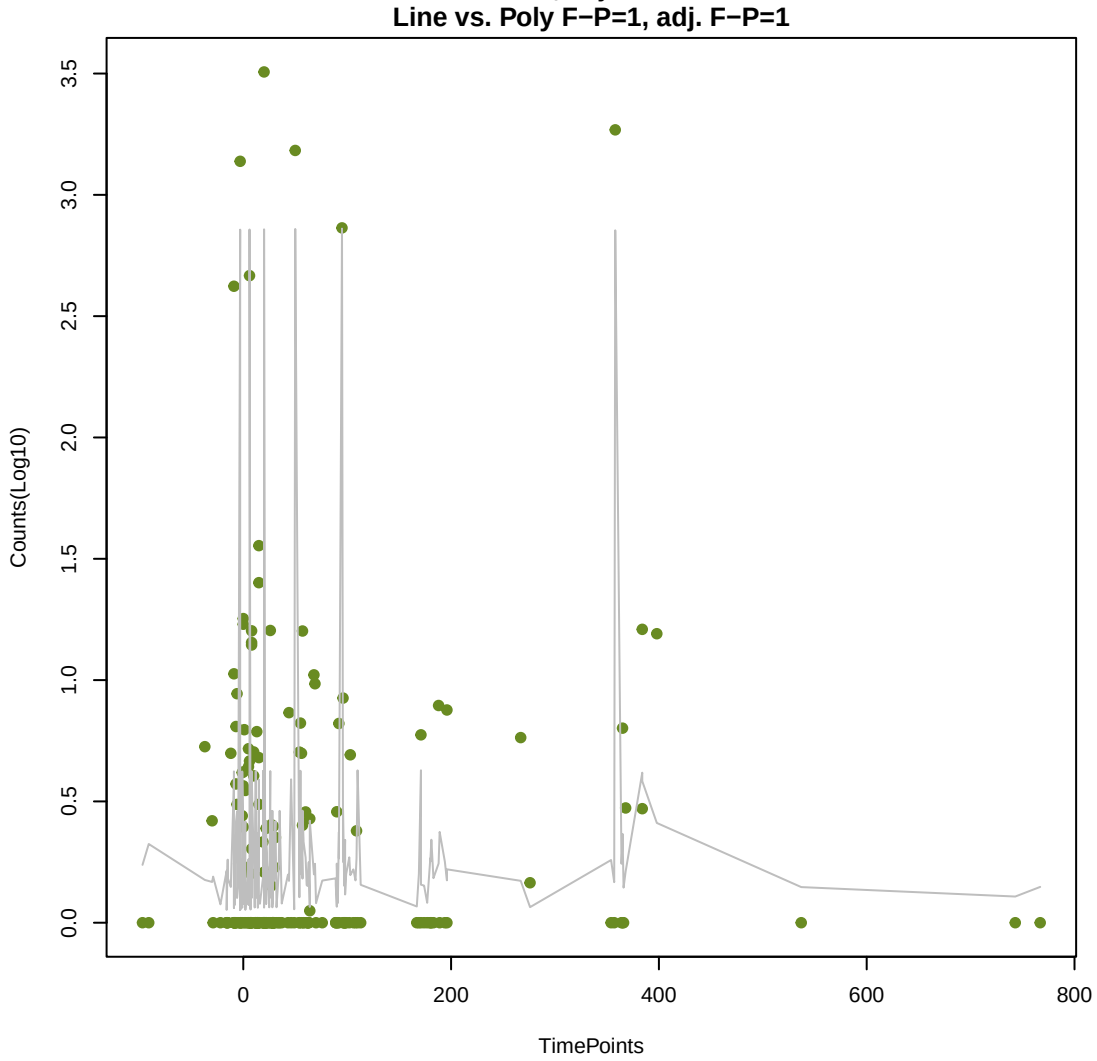

ANT(3")
ANOVA P=0.93, adj. ANOVA−P=0.991
Line vs. Poly F−P=0.962, adj. F−P=1
Counts(Log10)
TimePoints

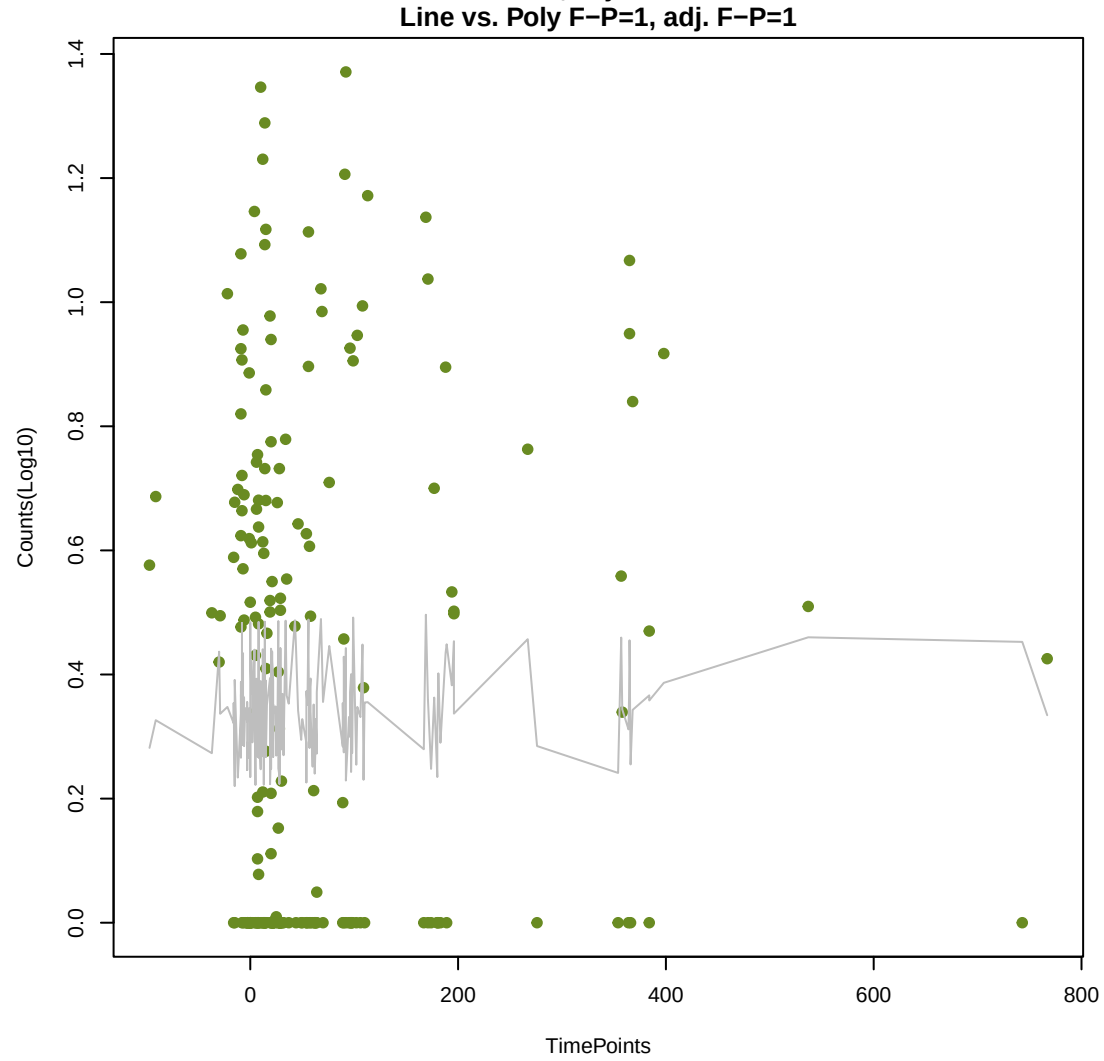

ole glycosyltransferase
ANOVA P=0.939, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

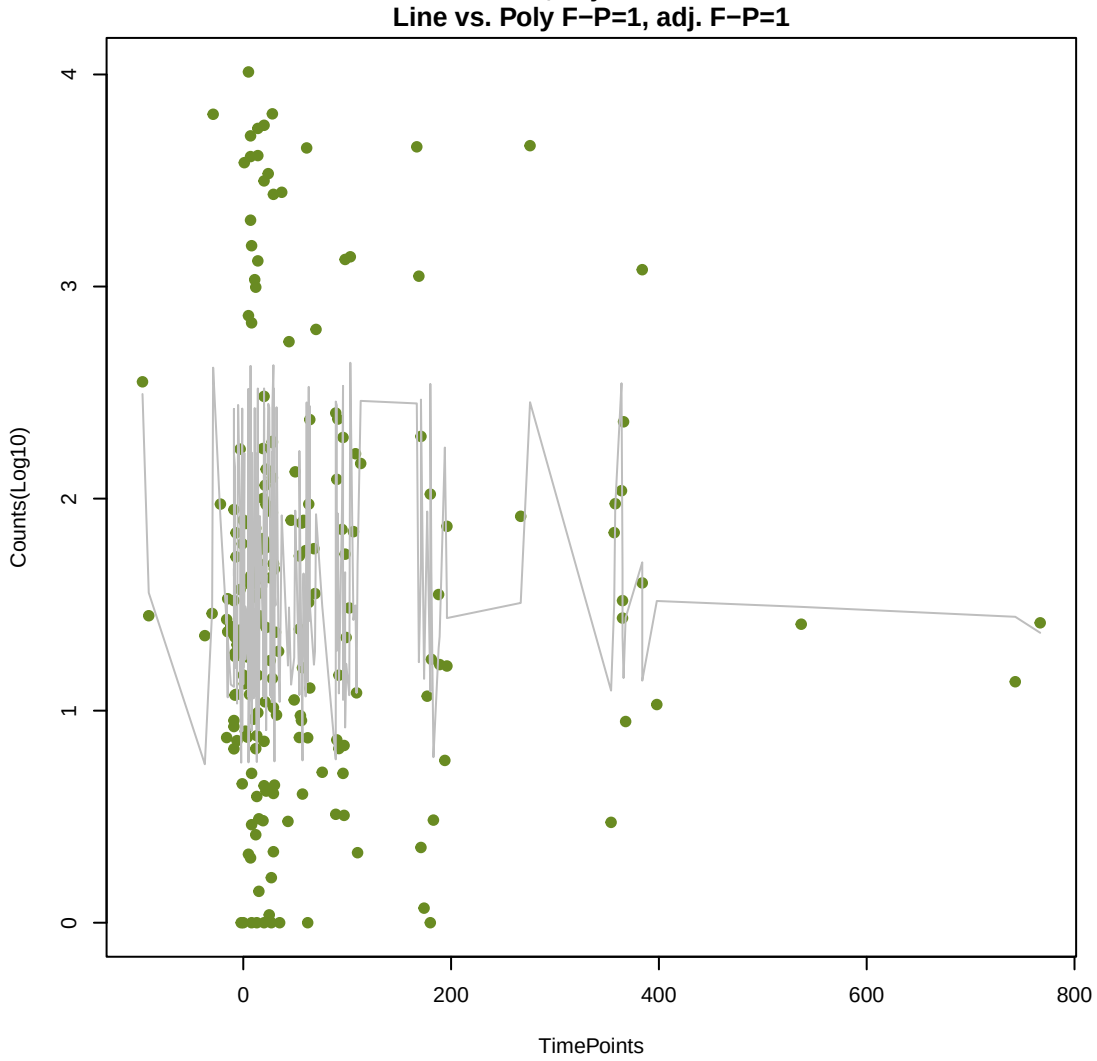

Rm3 family beta−lactamase
ANOVA P=0.959, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

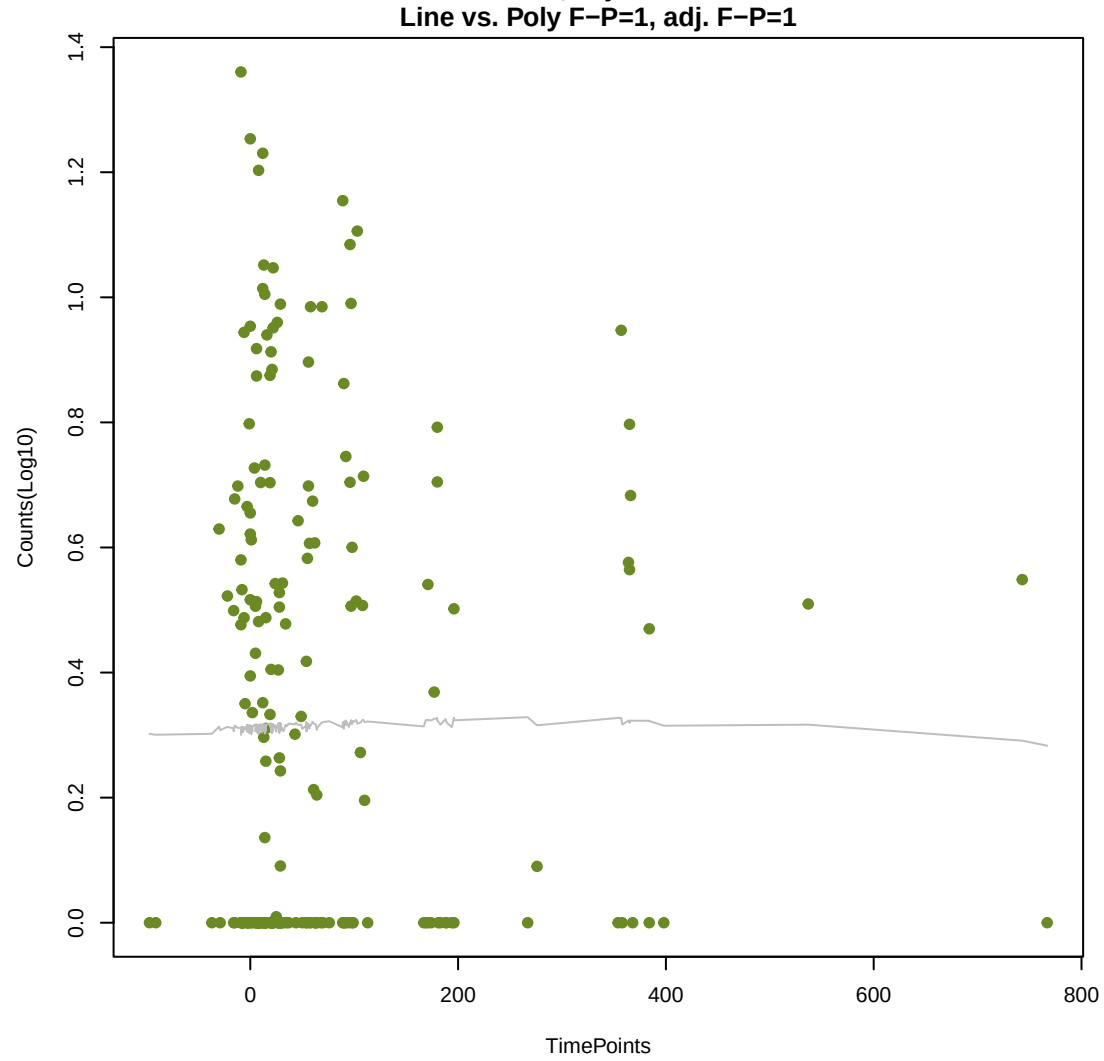

ADC beta−lactamases pending classification for carbapenemase activity
ANOVA P=0.963, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints

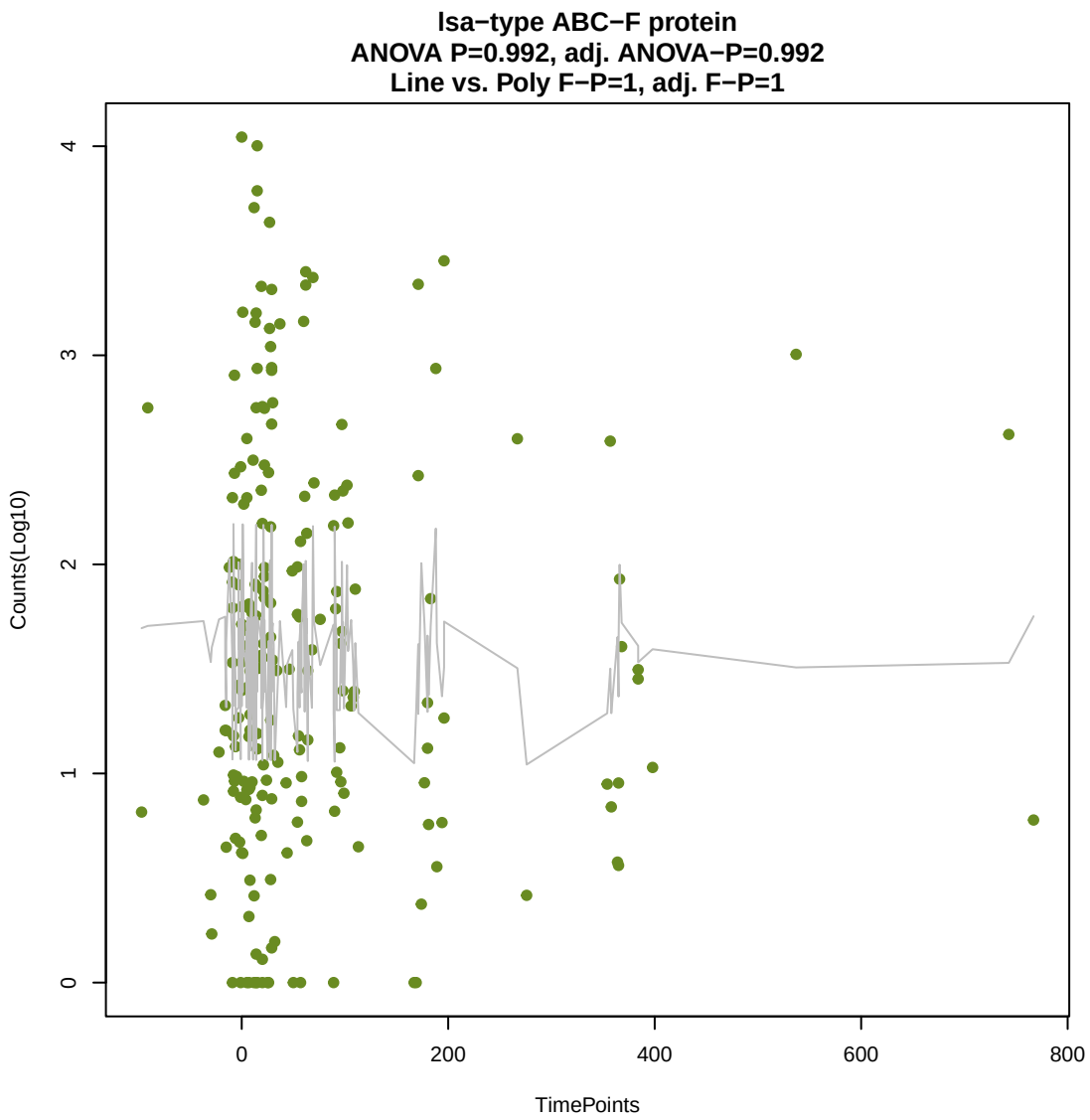

trimethoprim resistant dihydrofolate reductase dfr
ANOVA P=0.965, adj. ANOVA−P=0.991
Line vs. Poly F−P=0.898, adj. F−P=1
Counts(Log10)
TimePoints


macrolide esterase
ANOVA P=0.972, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints


LHK beta−lactamase
ANOVA P=0.977, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints


Van ligase;glycopeptide resistance gene cluster
ANOVA P=0.98, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints


GOB beta−lactamase
ANOVA P=0.982, adj. ANOVA−P=0.991
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
TimePoints


lsa−type ABC−F protein
ANOVA P=0.992, adj. ANOVA−P=0.992
Line vs. Poly F−P=1, adj. F−P=1
Counts(Log10)
0
1
2
3
4
0
200
400
600
800
TimePoints