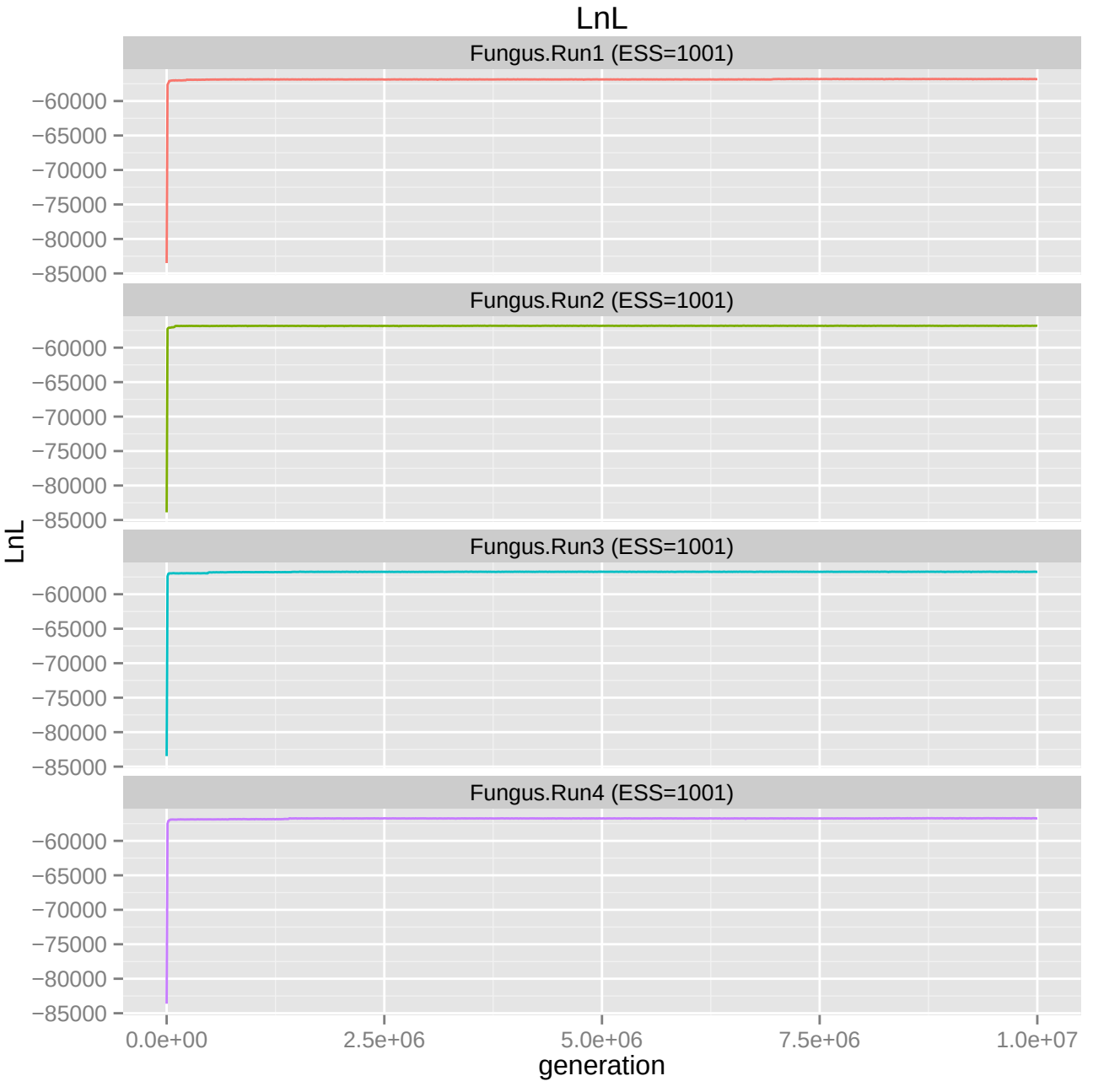
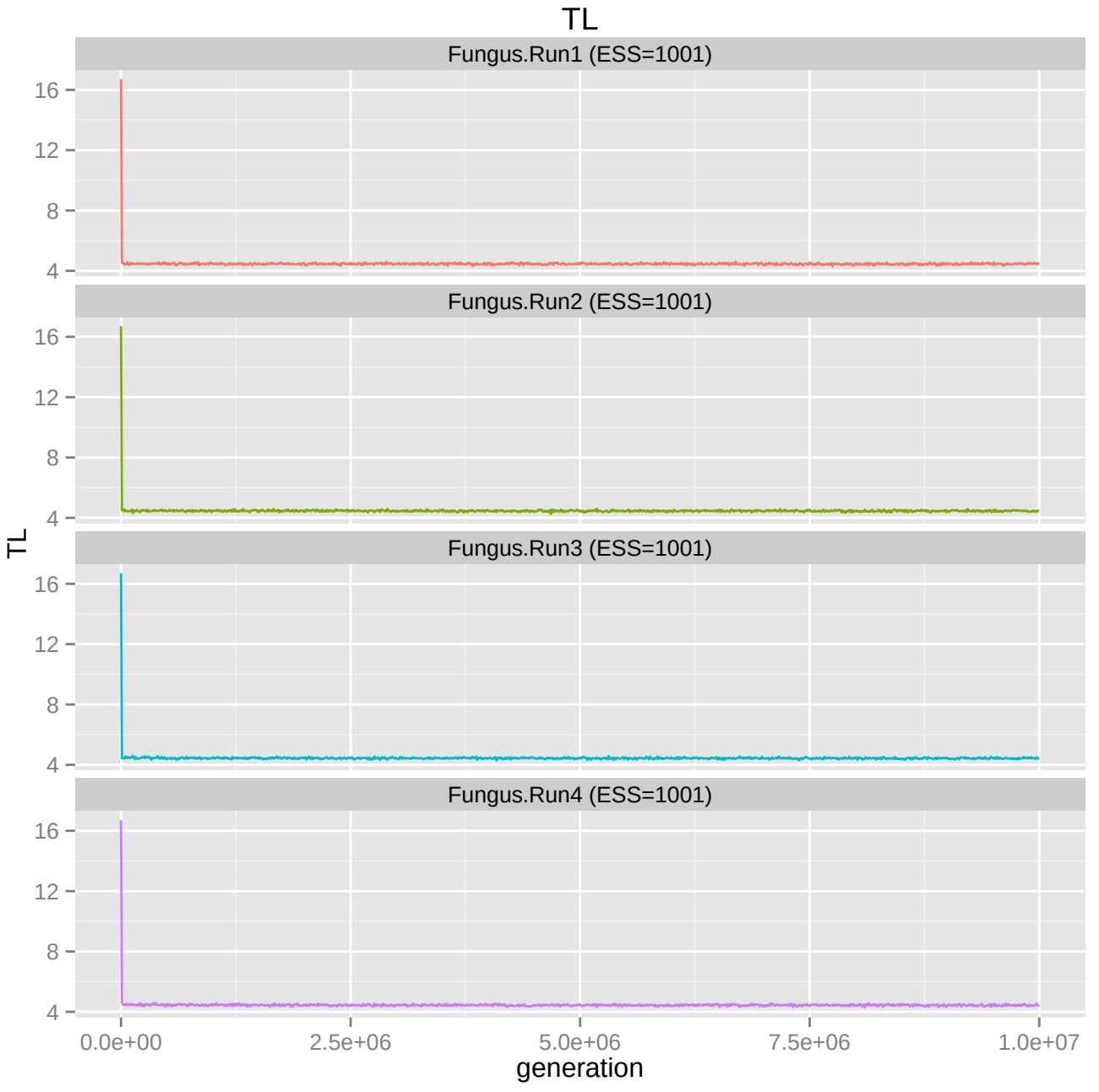
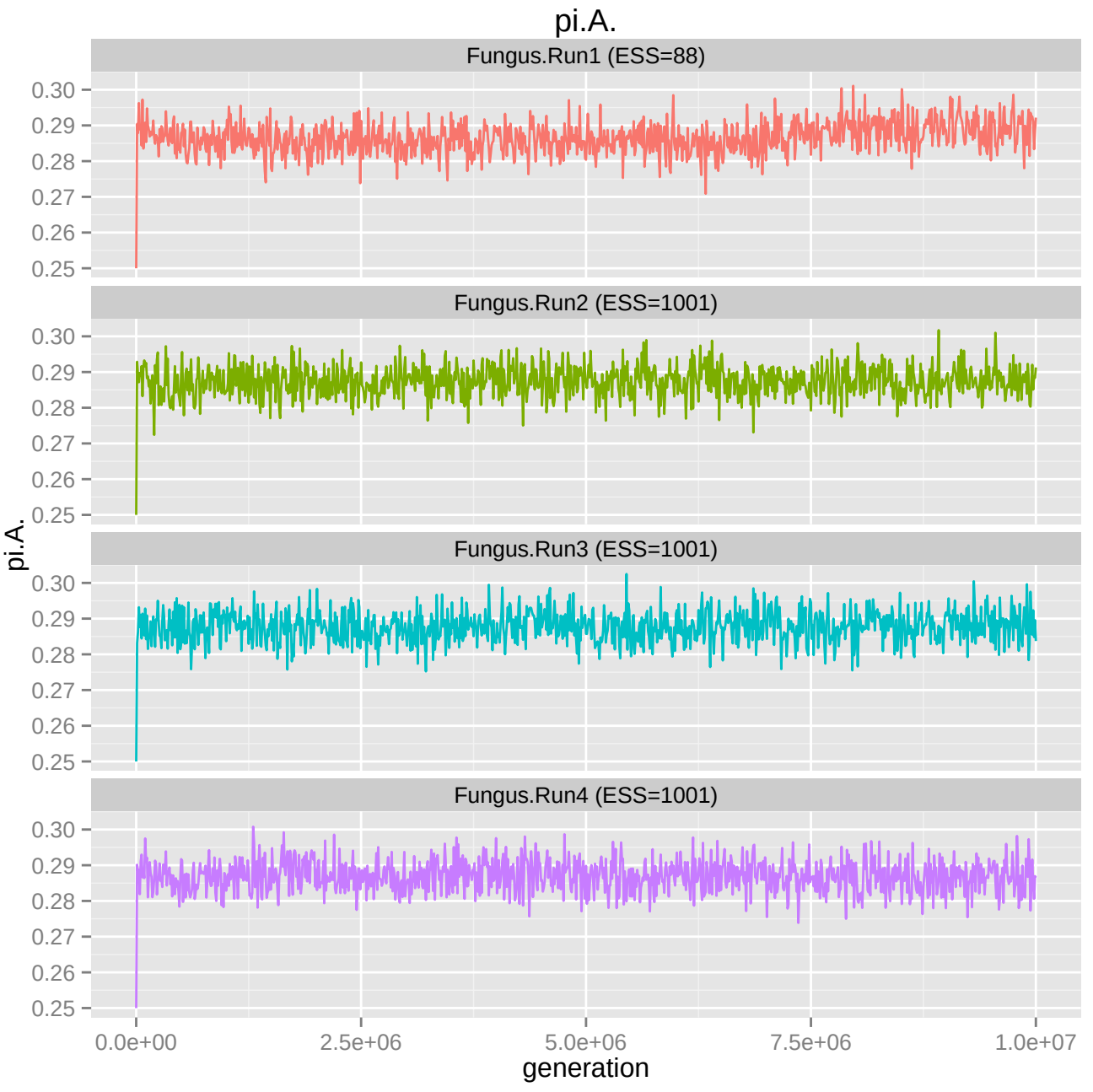
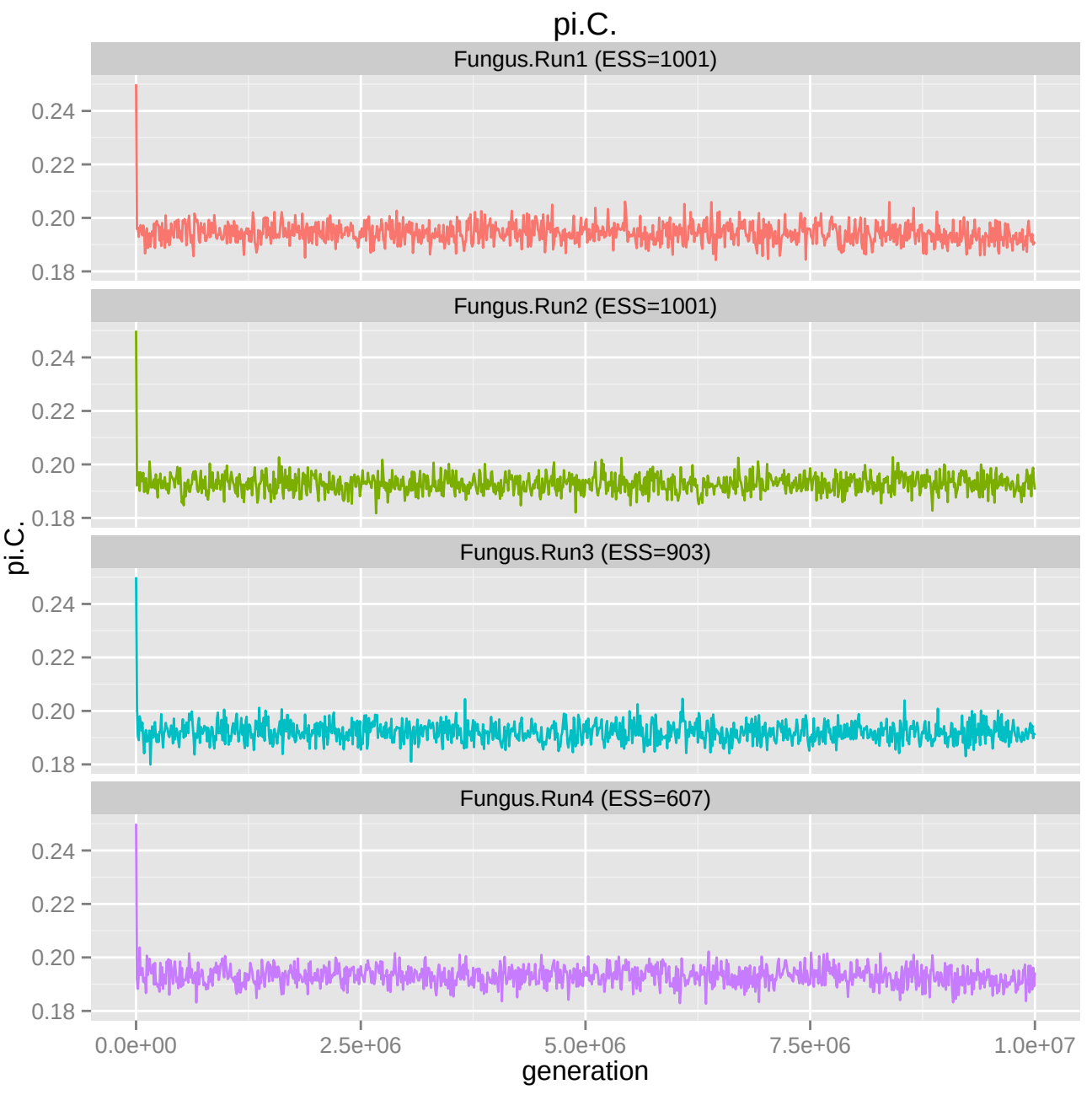
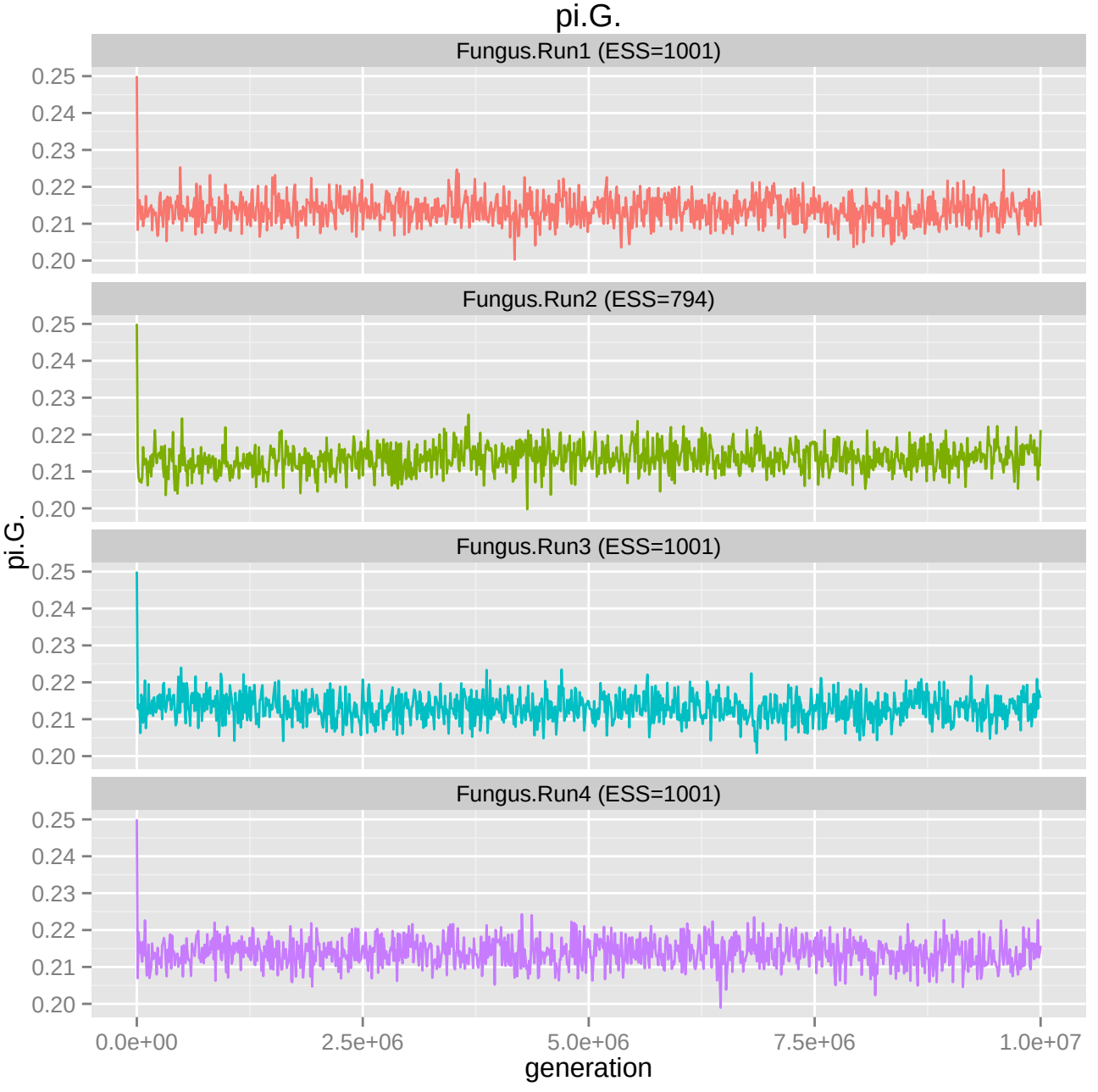
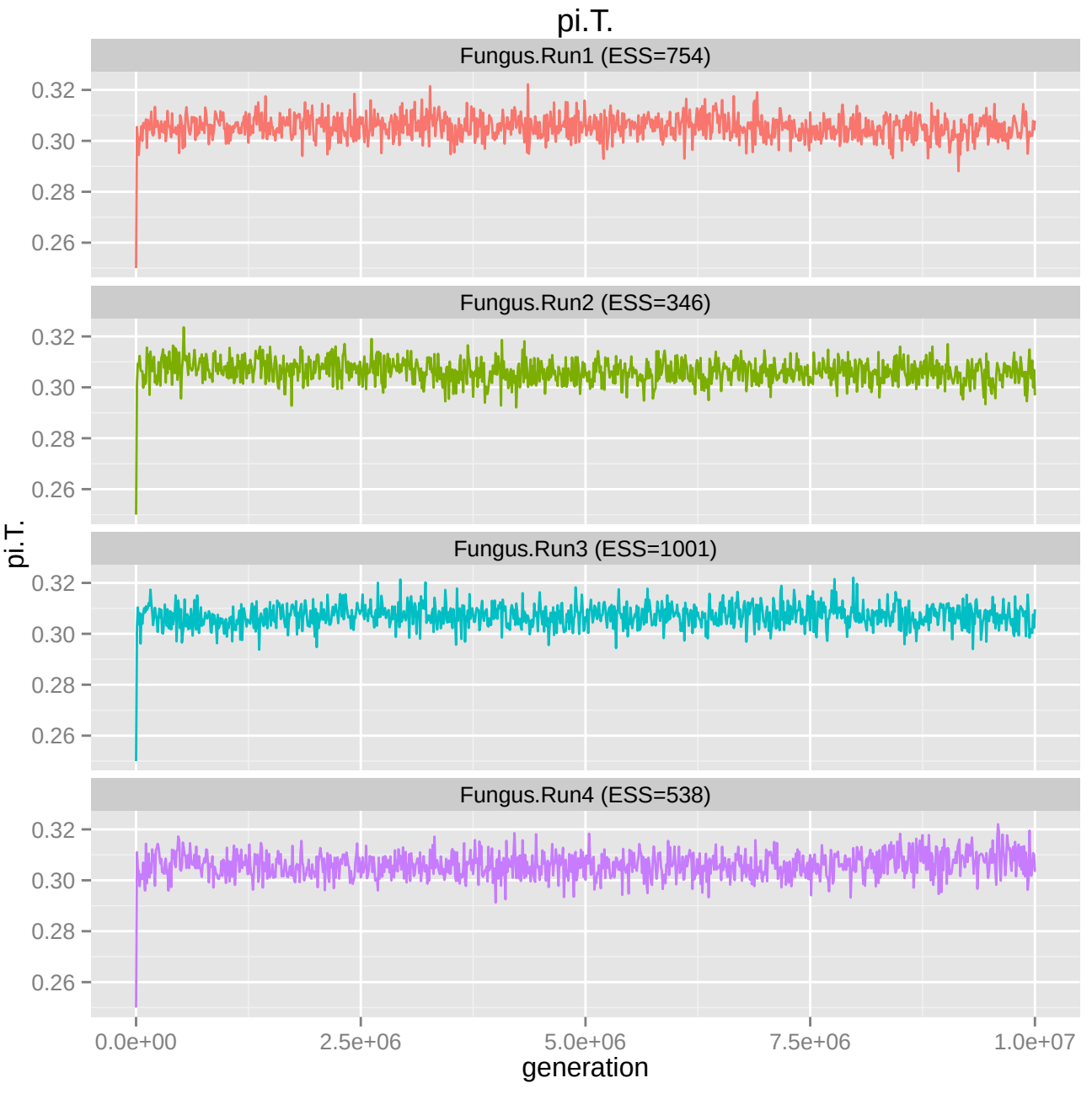

LnL
Fungus.Run1 (ESS=1001)
Fungus.Run2 (ESS=1001)
Fungus.Run3 (ESS=1001)
Fungus.Run4 (ESS=1001)
LnL
−60000
−65000
−70000
−75000
−80000
−85000
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
generation

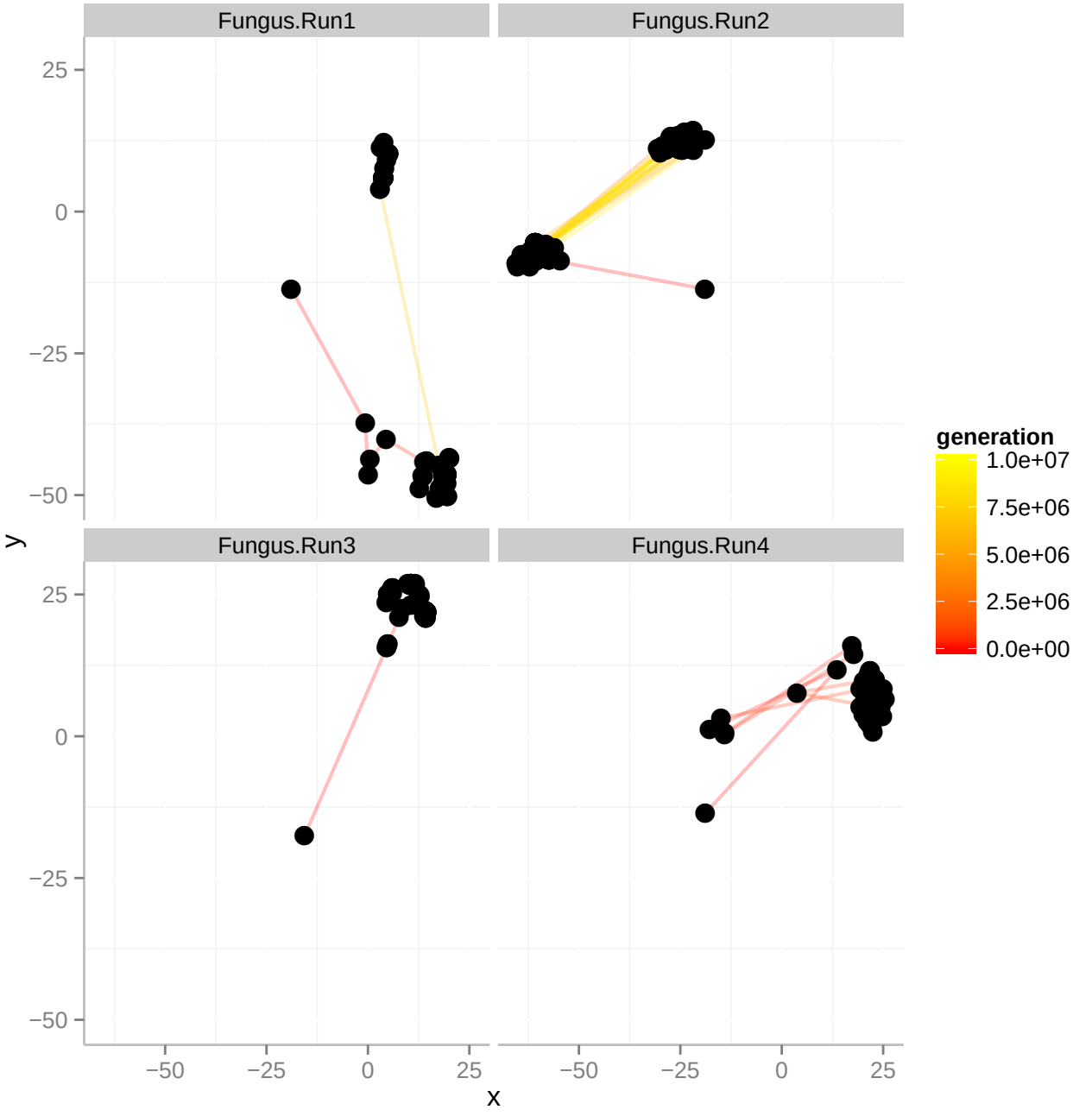

TL
Fungus.Run1 (ESS=1001)
Fungus.Run2 (ESS=1001)
Fungus.Run3 (ESS=1001)
Fungus.Run4 (ESS=1001)
16
12
8
4
TL
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
generation

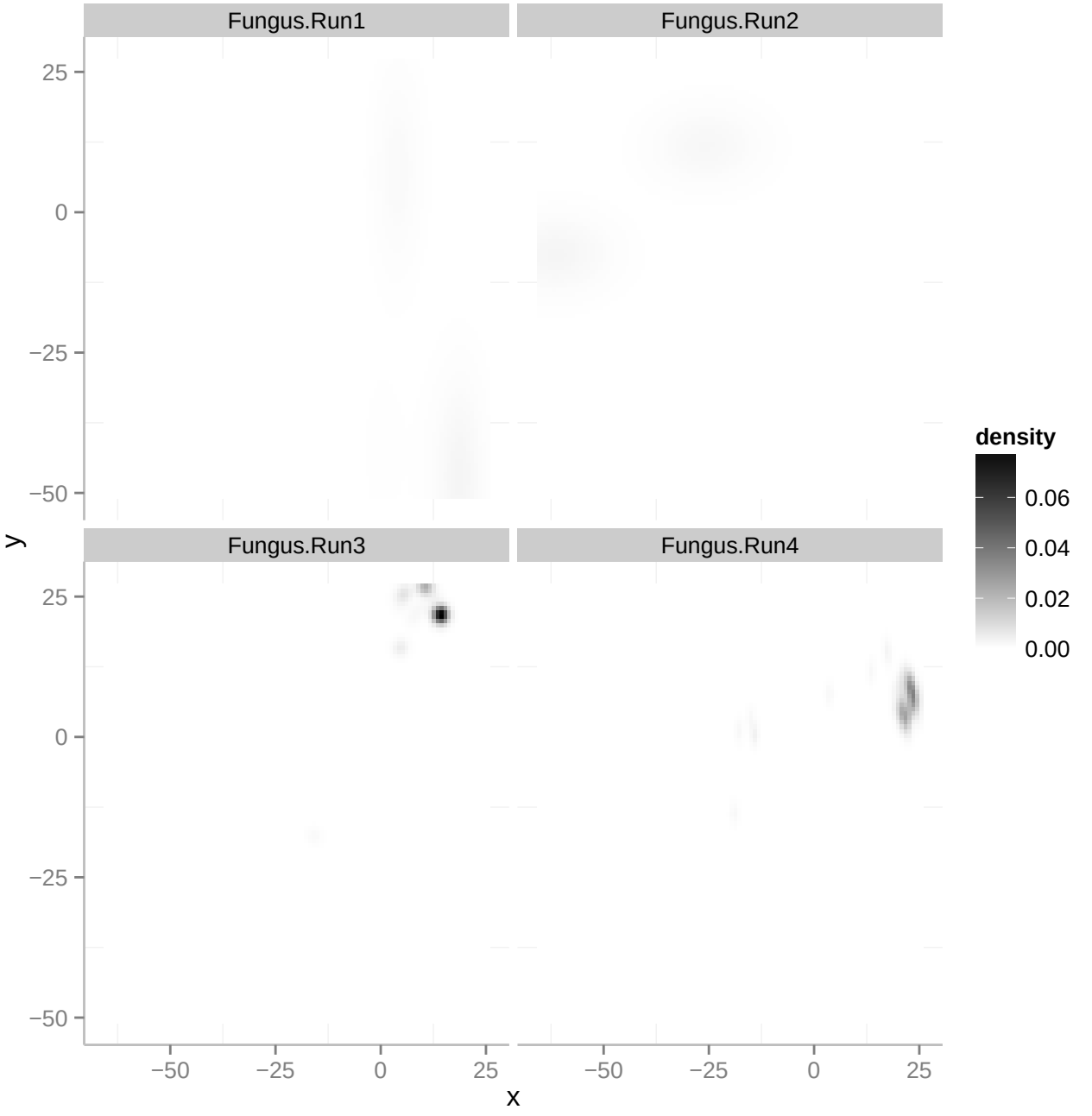

pi.A.
Fungus.Run1 (ESS=88)
Fungus.Run2 (ESS=1001)
Fungus.Run3 (ESS=1001)
Fungus.Run4 (ESS=1001)
pi.A.
0.30
0.29
0.28
0.27
0.26
0.25
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
generation

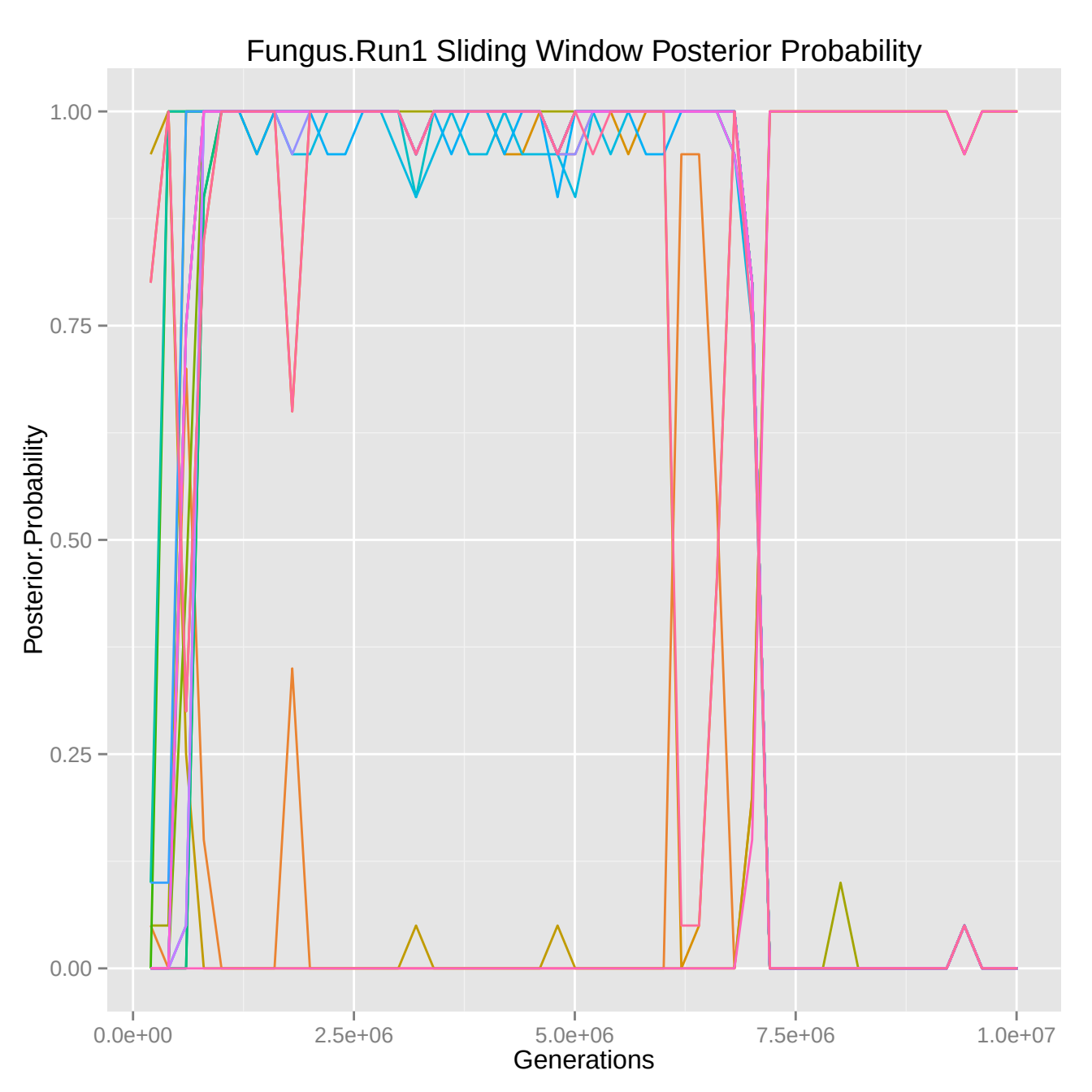

pi.C.
Fungus.Run1 (ESS=1001)
Fungus.Run2 (ESS=1001)
Fungus.Run3 (ESS=903)
Fungus.Run4 (ESS=607)
0.24
0.22
0.20
0.18
pi.C.
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
generation

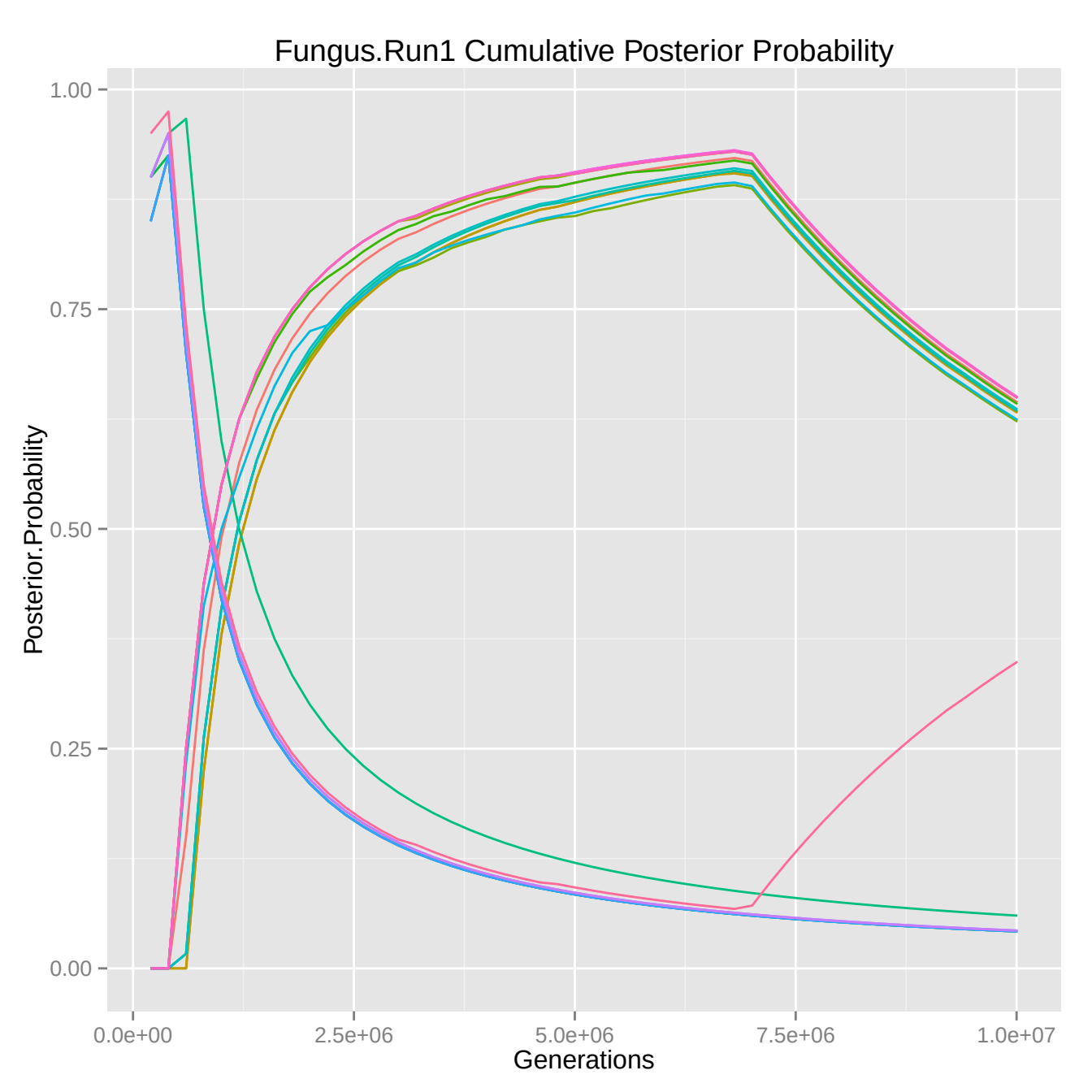

pi.G.
Fungus.Run1 (ESS=1001)
Fungus.Run2 (ESS=794)
Fungus.Run3 (ESS=1001)
Fungus.Run4 (ESS=1001)
pi.G.
0.25
0.24
0.23
0.22
0.21
0.20
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
generation

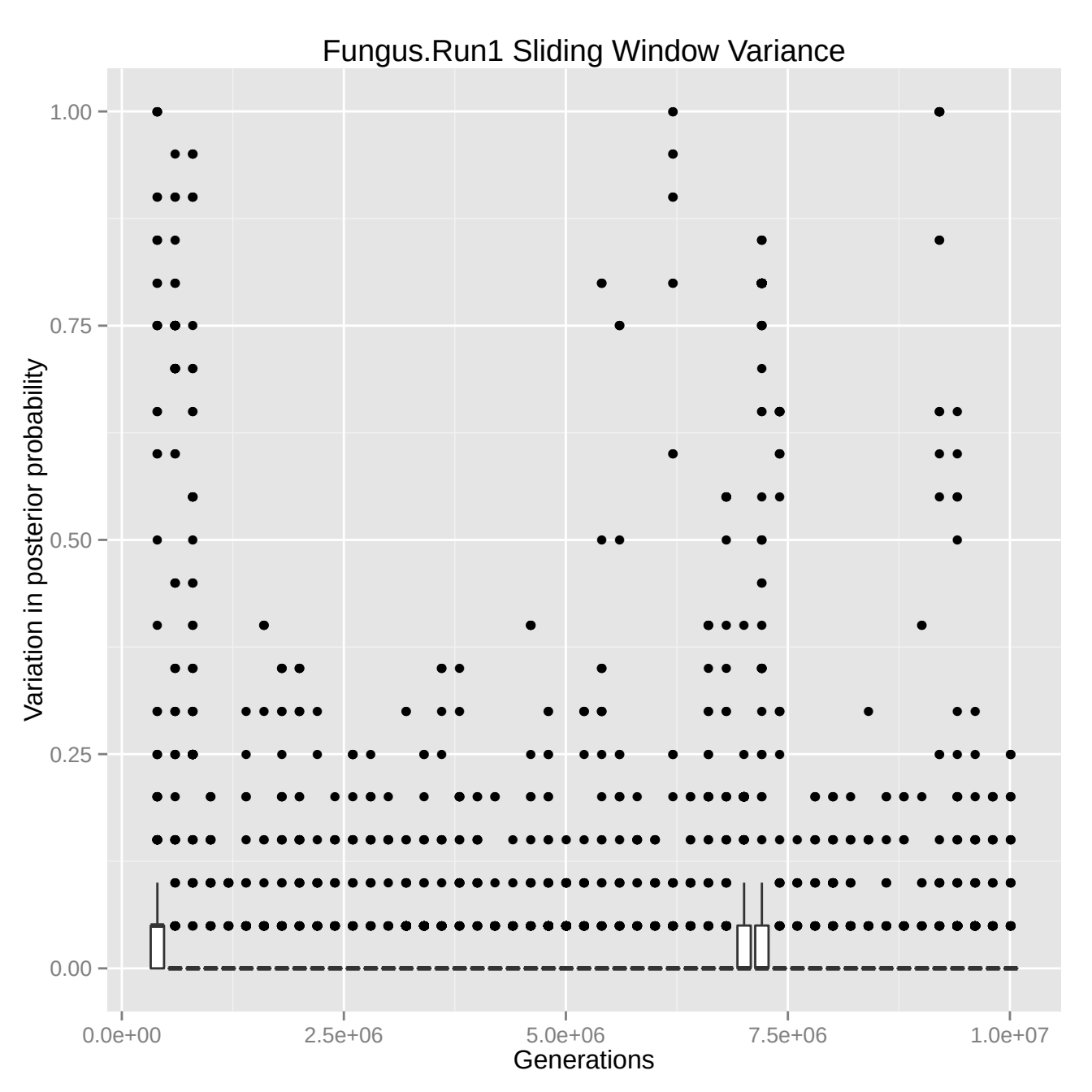

pi.T.
Fungus.Run1 (ESS=754)
Fungus.Run2 (ESS=346)
Fungus.Run3 (ESS=1001)
Fungus.Run4 (ESS=538)
0.32
0.30
0.28
0.26
pi.T.
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
generation

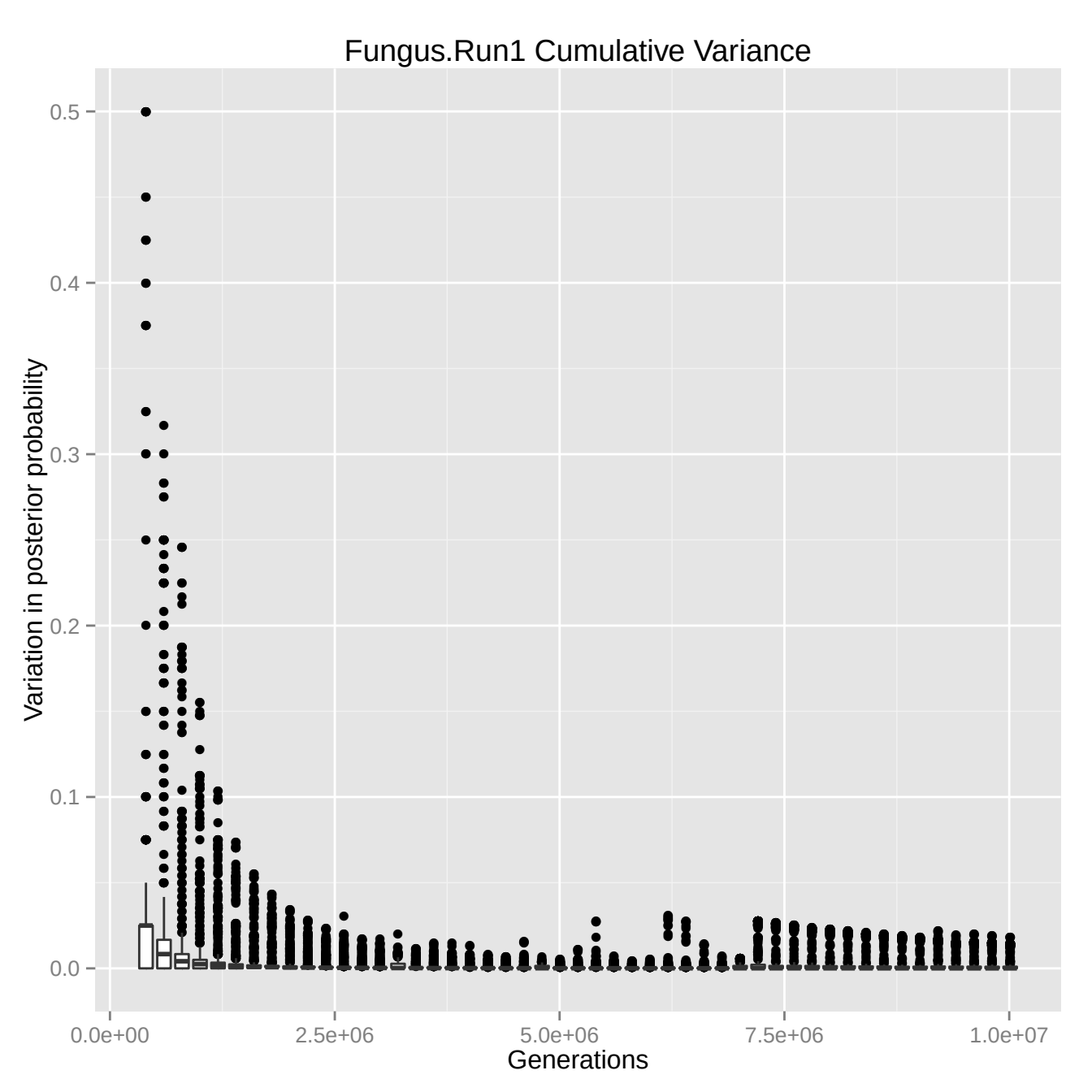

Fungus.Run1
Fungus.Run2
Fungus.Run3
Fungus.Run4
25
0
−25
−50
y
−50
−25
0
25
x
generation
1.0e+07
7.5e+06
5.0e+06
2.5e+06
0.0e+00

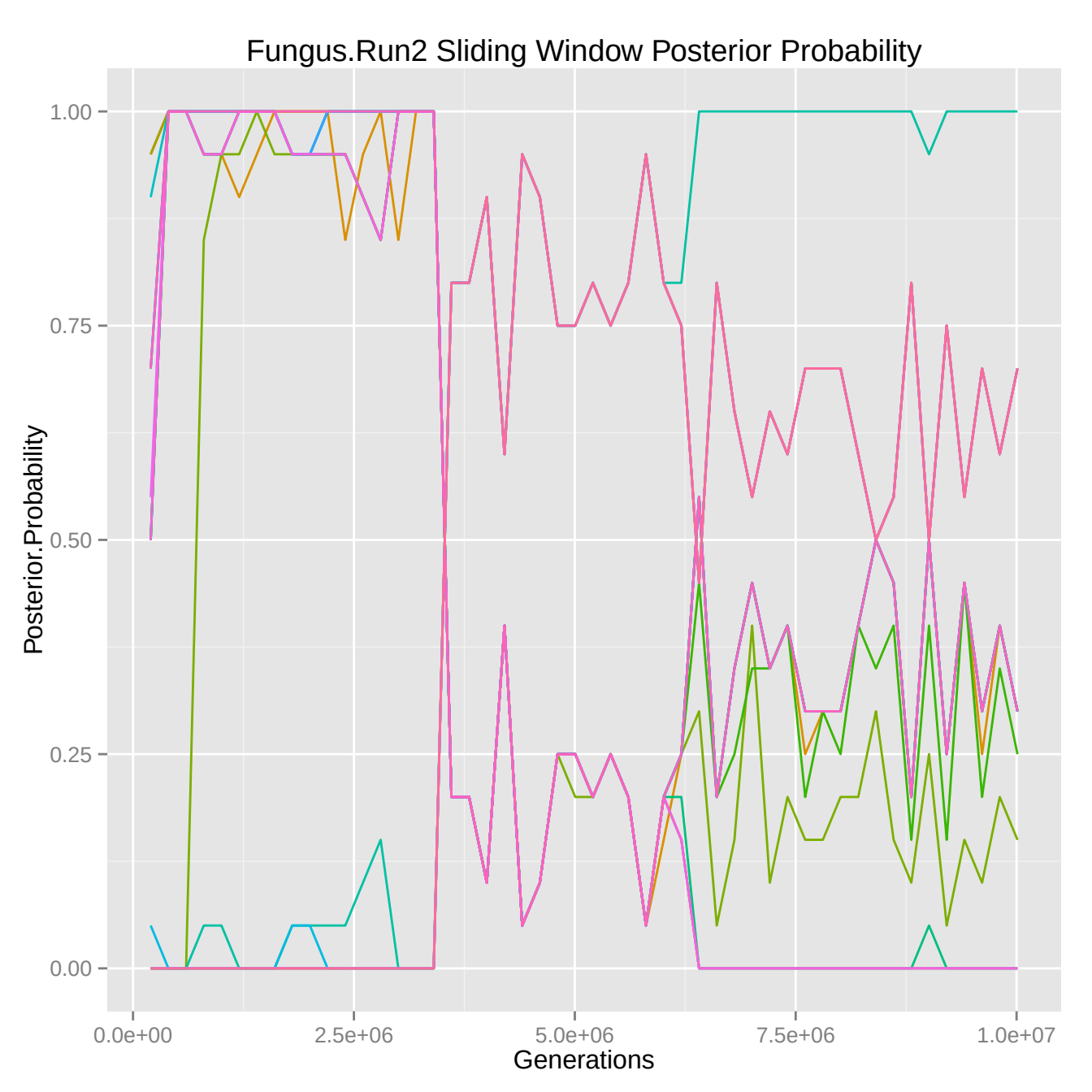

Fungus.Run1
Fungus.Run2
Fungus.Run3
Fungus.Run4
25
0
−25
−50
y
−50
−25
0
25
x
density
0.06
0.04
0.02
0.00

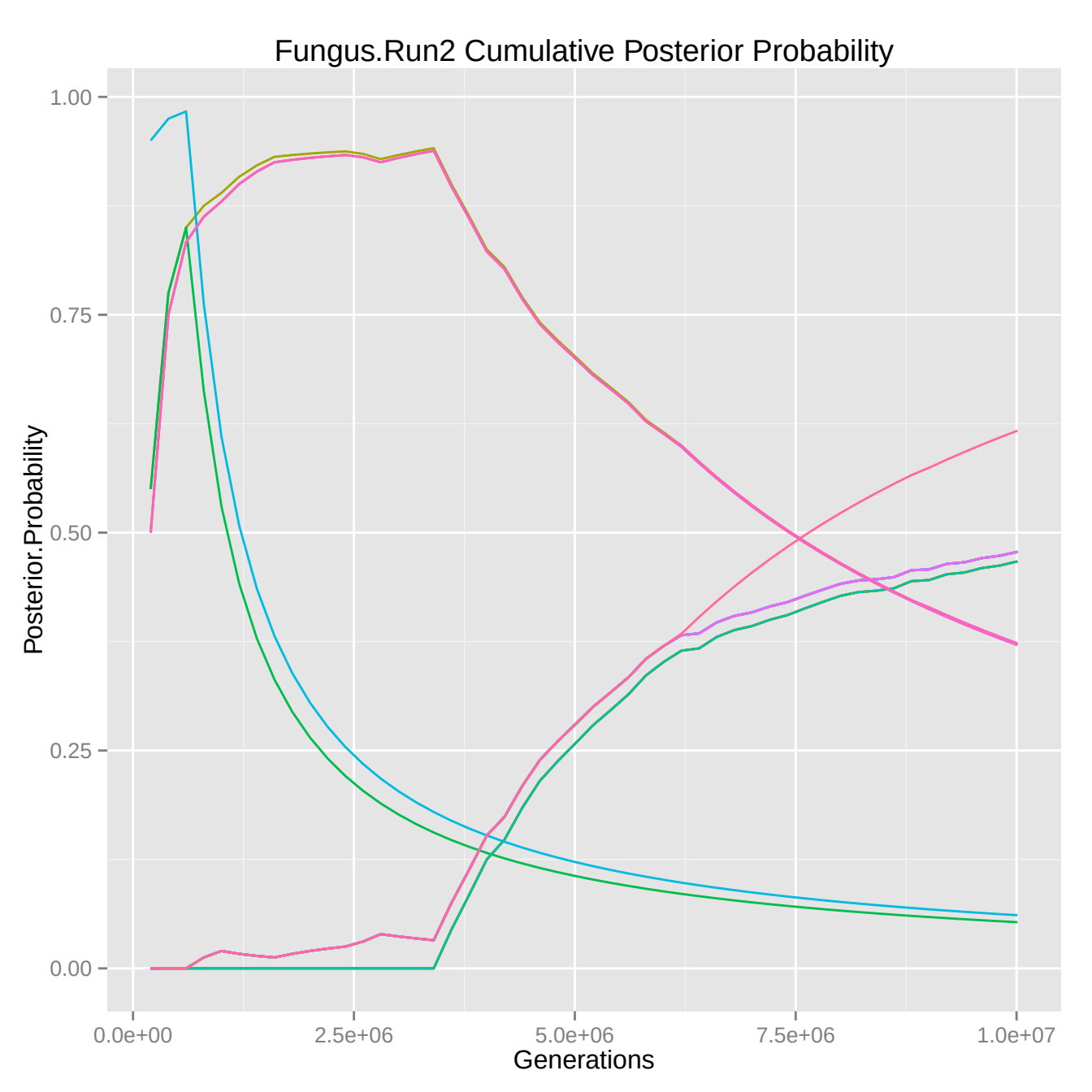

Fungus.Run1 Sliding Window Posterior Probability
Posterior.Probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

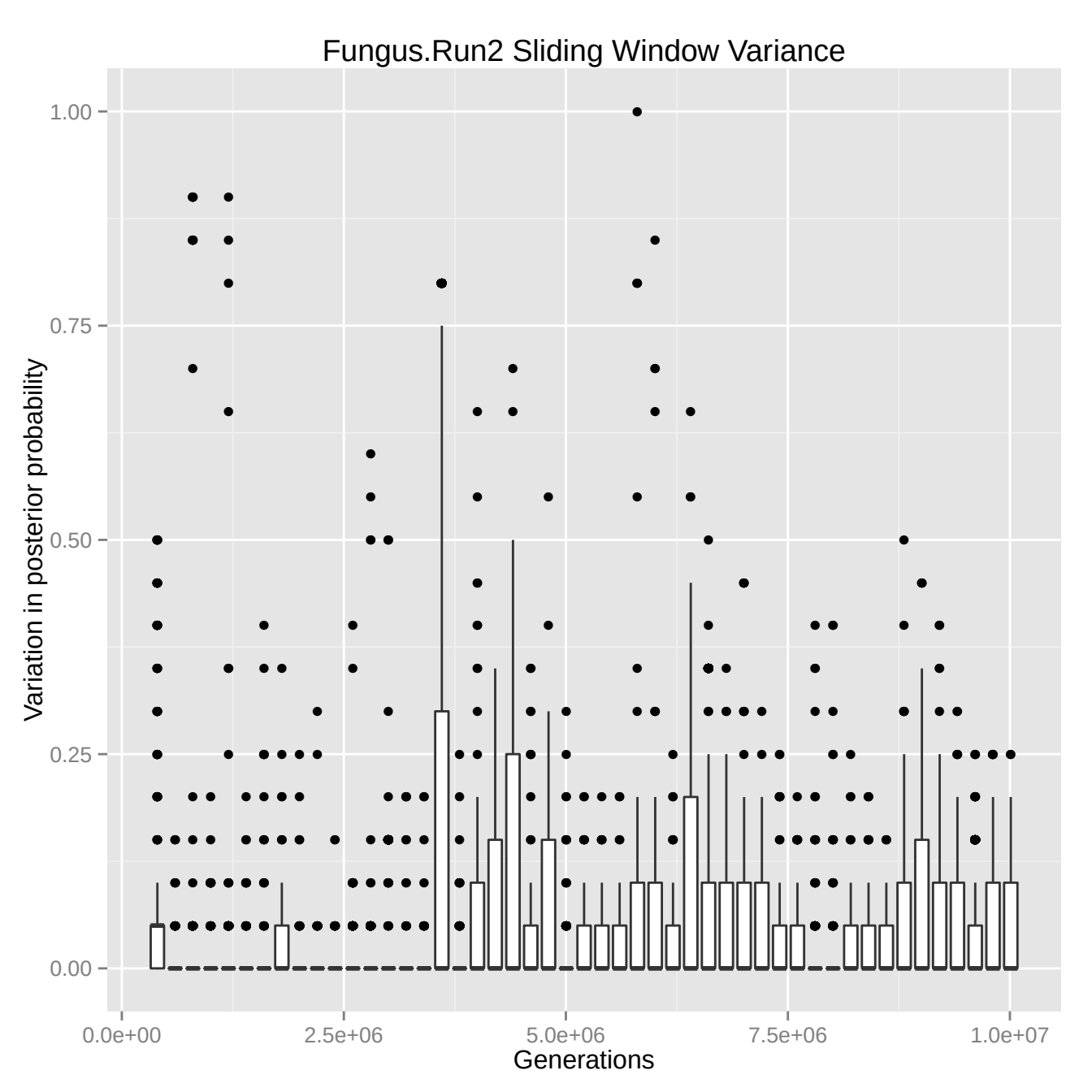

Fungus.Run1 Cumulative Posterior Probability
Posterior.Probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

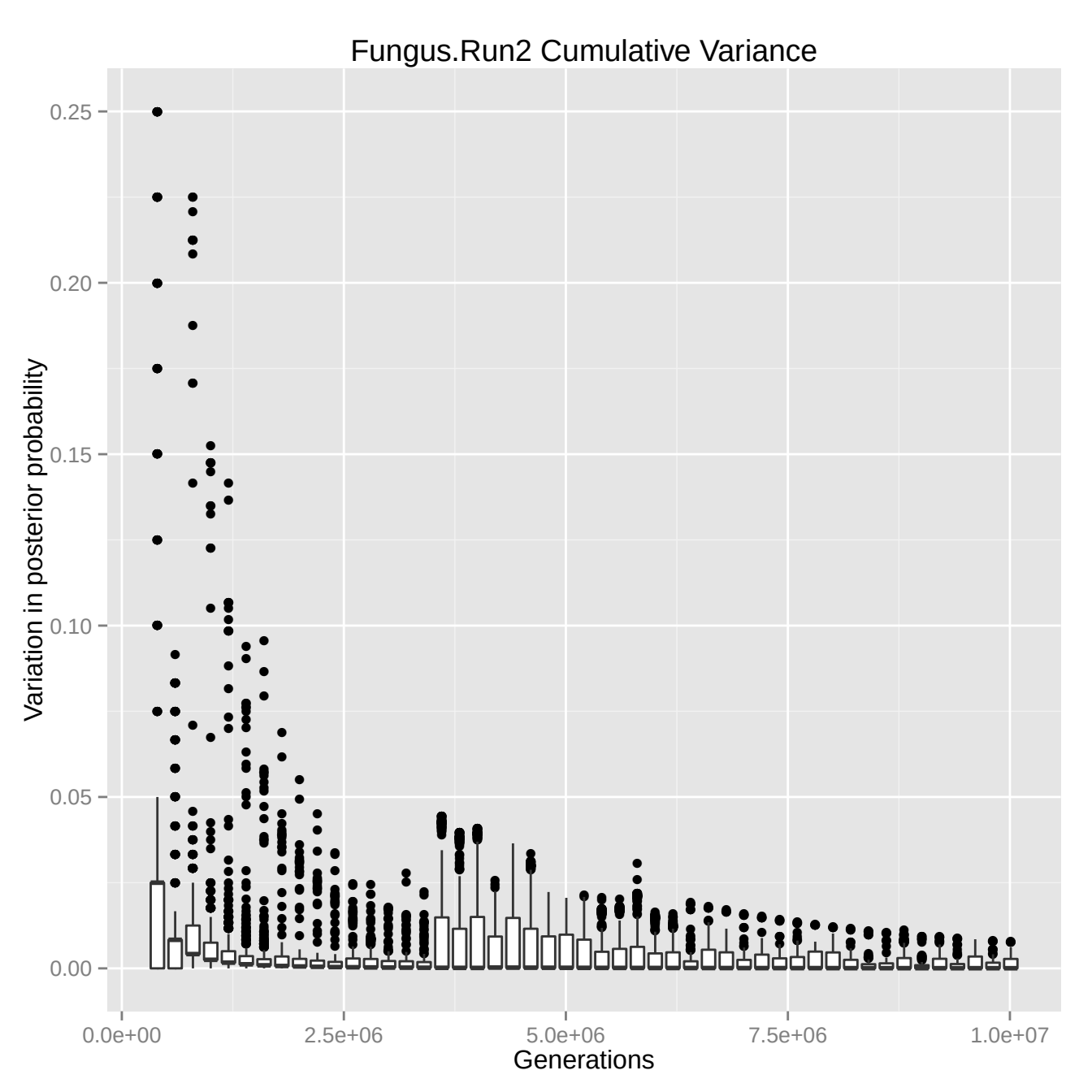

Fungus.Run1 Sliding Window Variance
Variation in posterior probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

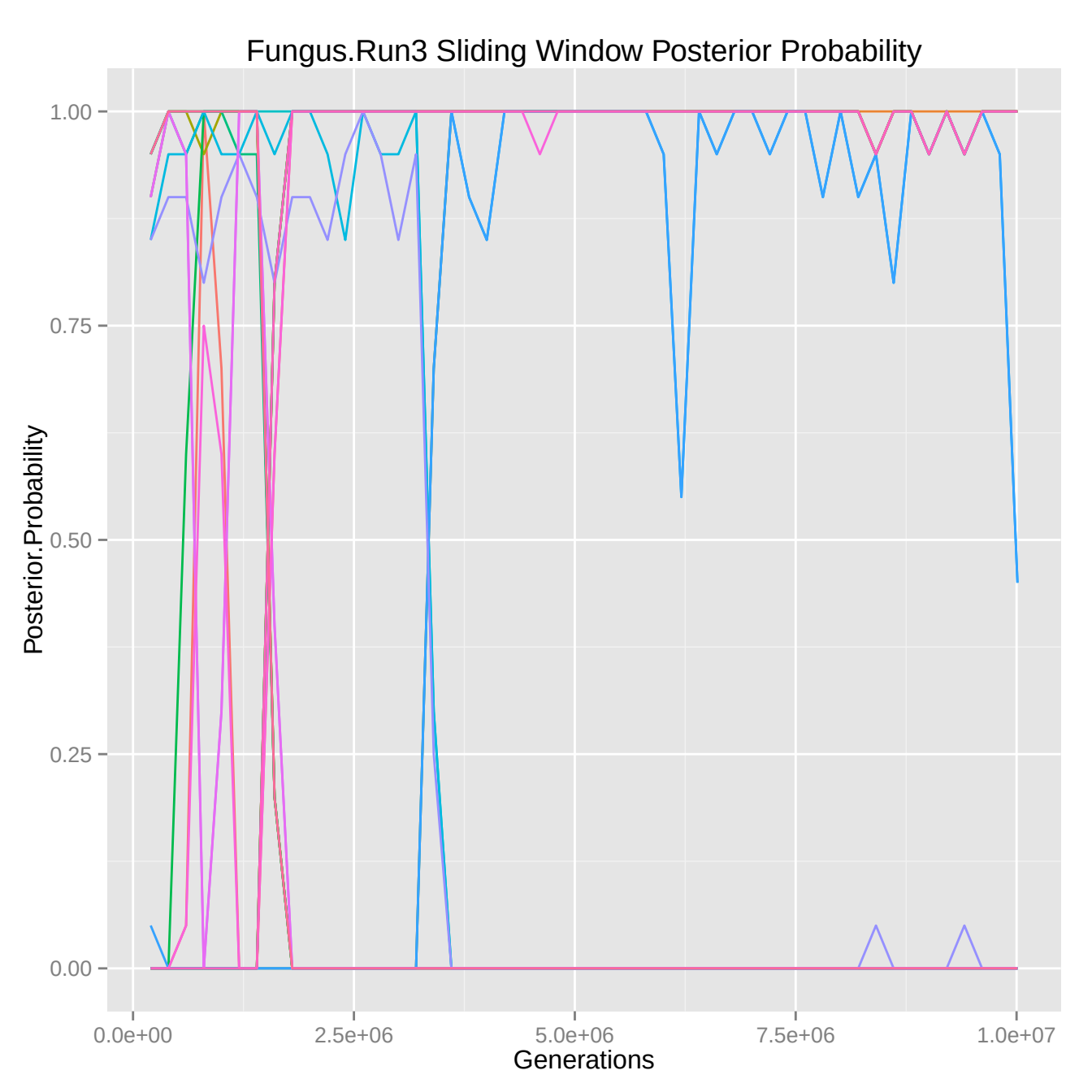

Fungus.Run1 Cumulative Variance
Variation in posterior probability
0.5
0.4
0.3
0.2
0.1
0.0
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

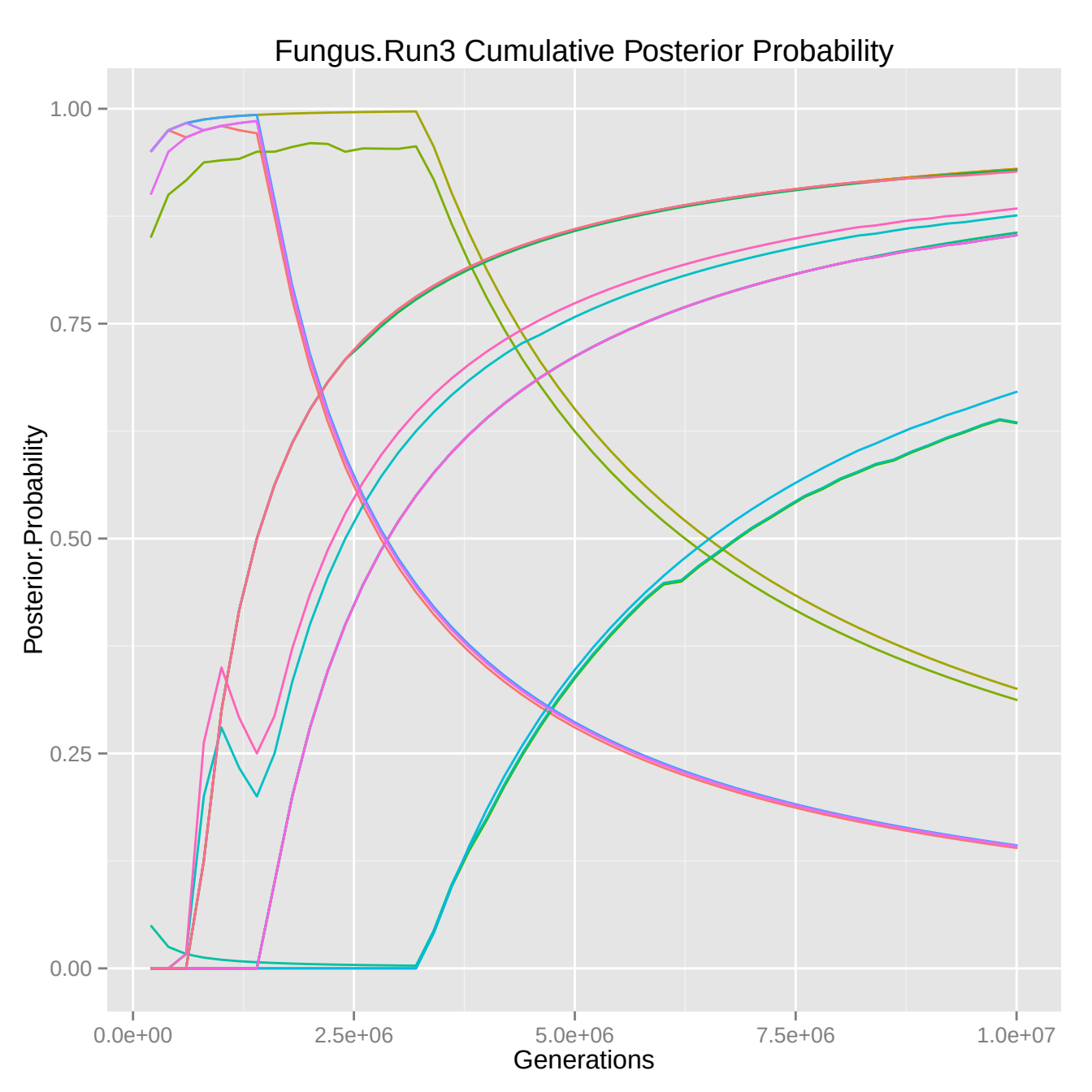

Fungus.Run2 Sliding Window Posterior Probability
Posterior.Probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

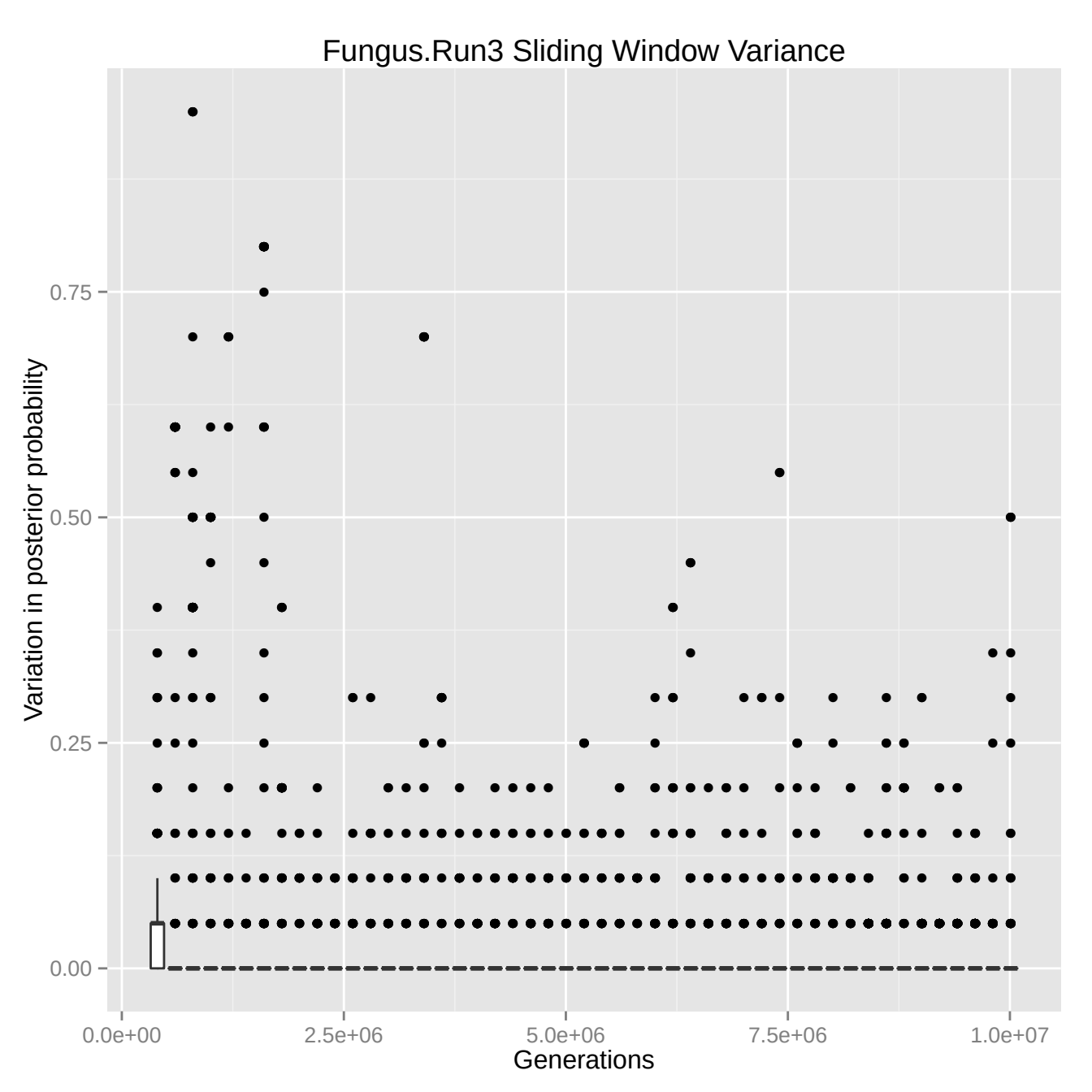

Fungus.Run2 Cumulative Posterior Probability
Posterior.Probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

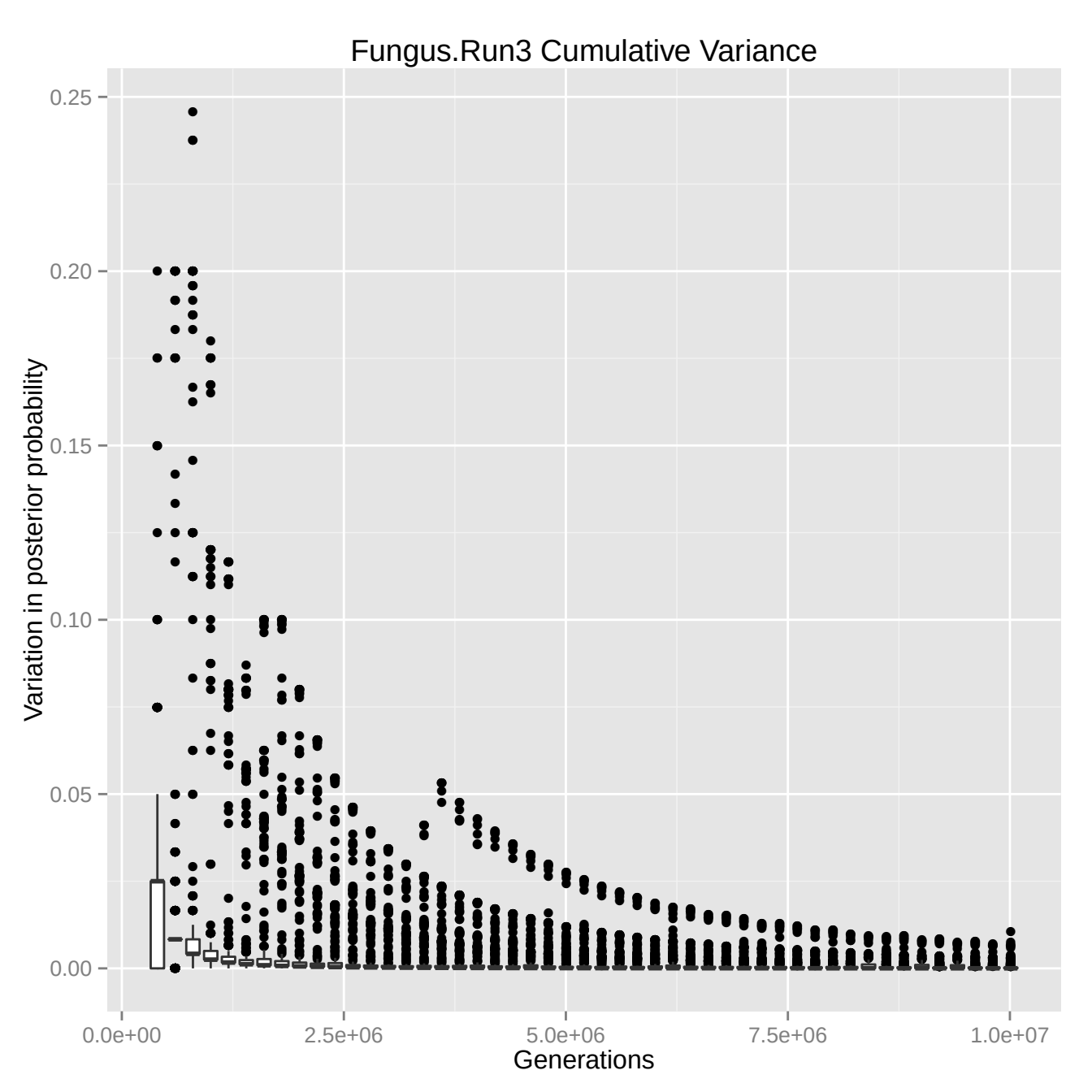

Fungus.Run2 Sliding Window Variance
Variation in posterior probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

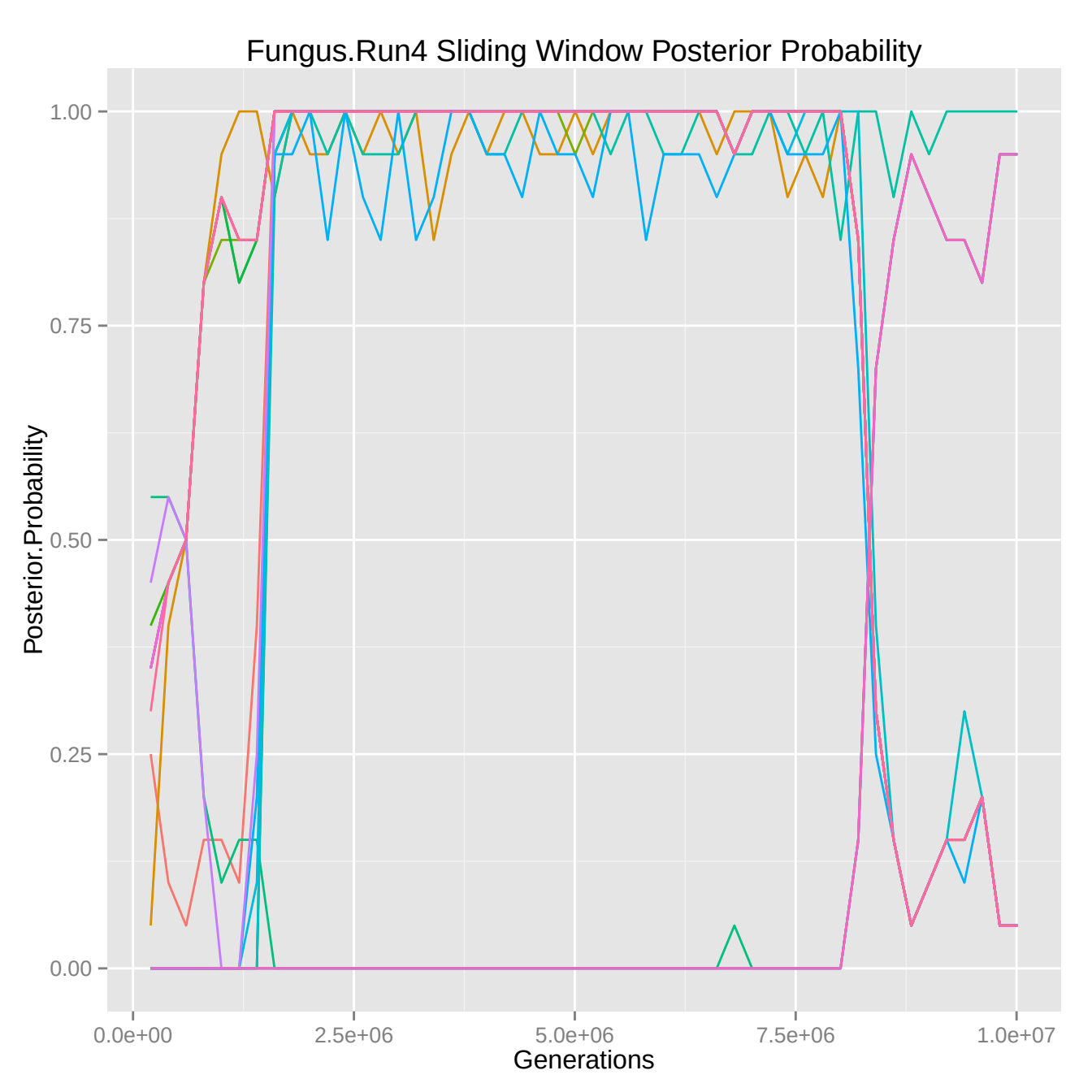

Fungus.Run2 Cumulative Variance
Variation in posterior probability
0.25
0.20
0.15
0.10
0.05
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

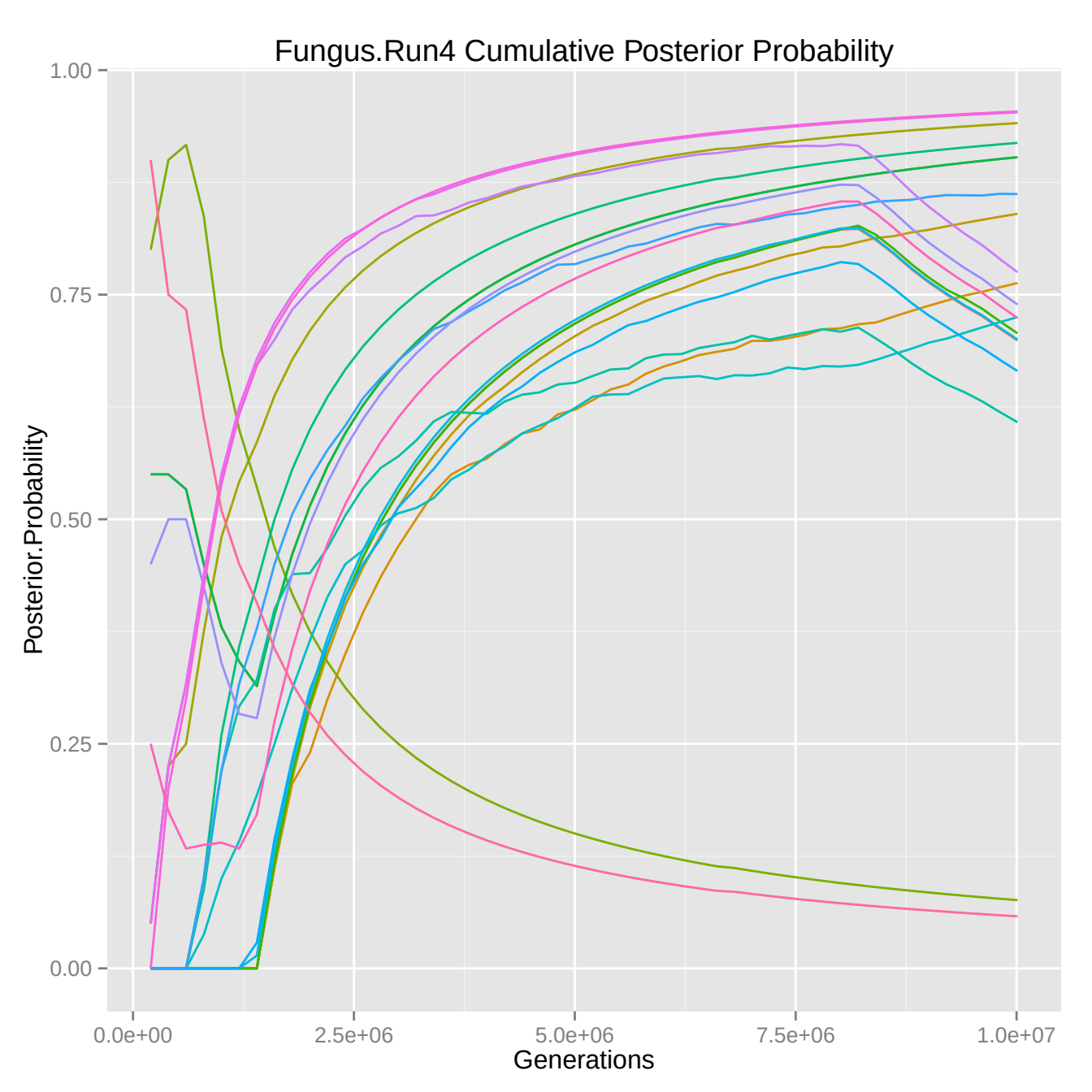

Fungus.Run3 Sliding Window Posterior Probability
Posterior.Probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

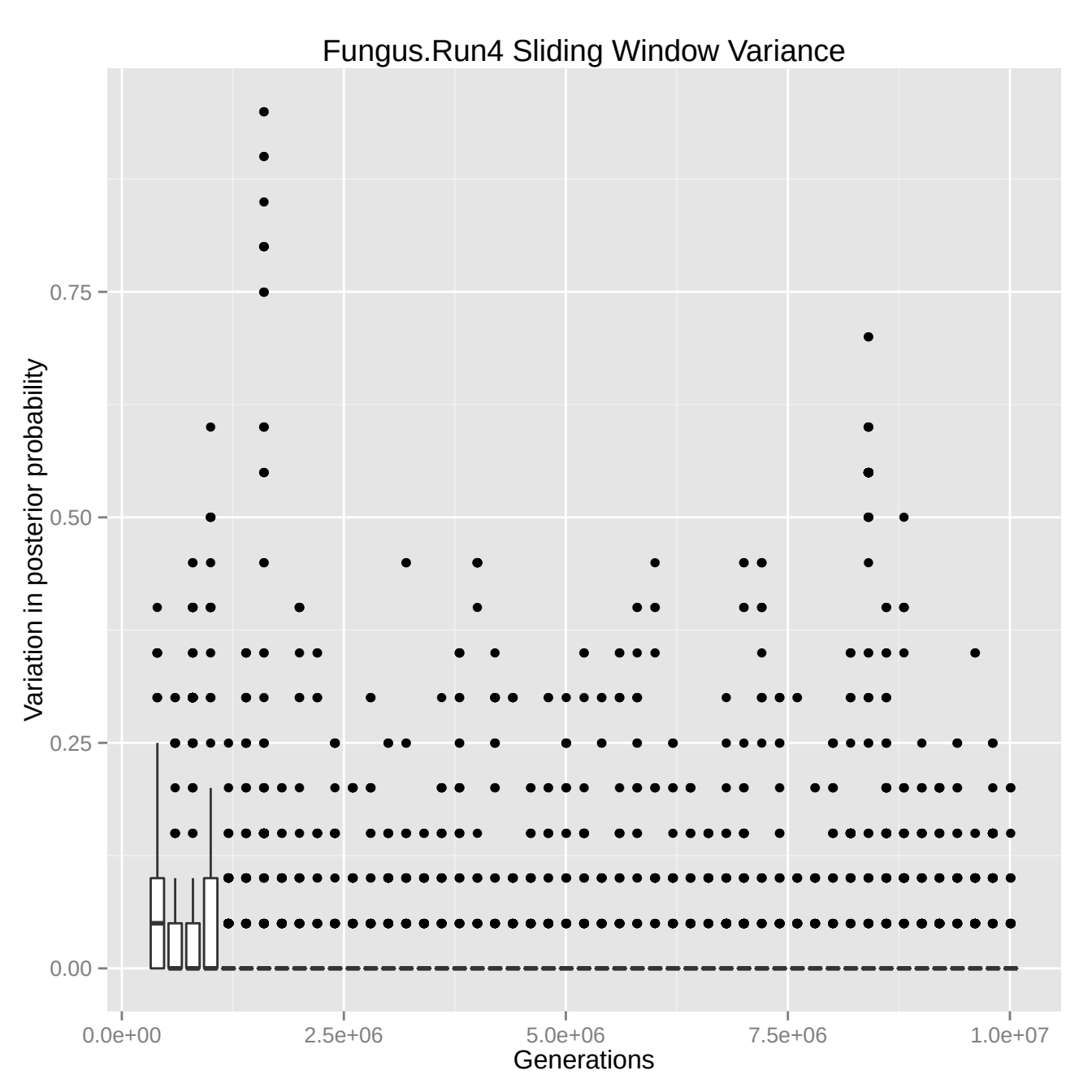

Fungus.Run3 Cumulative Posterior Probability
1.00
0.75
0.50
0.25
0.00
Posterior.Probability
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

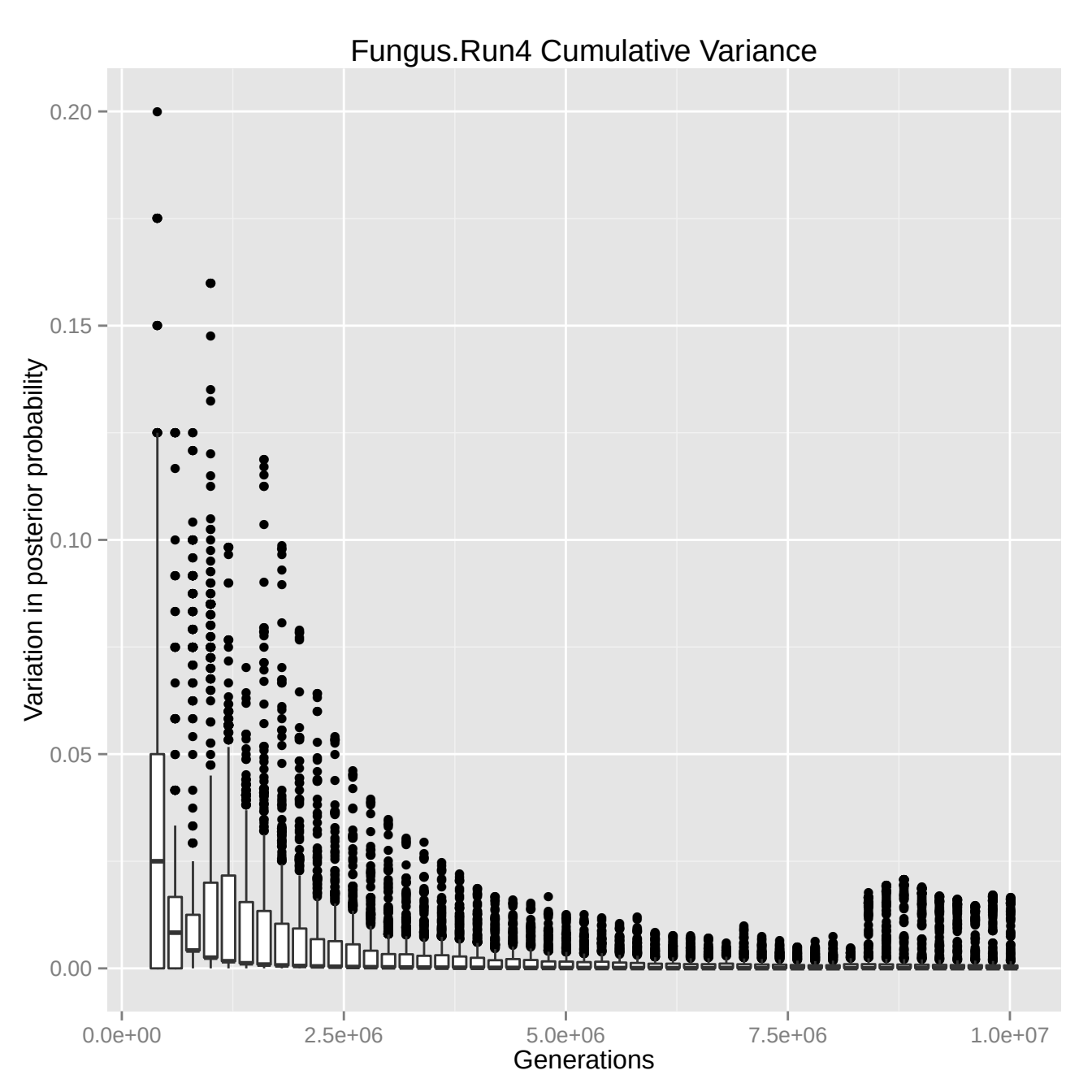

Fungus.Run3 Sliding Window Variance
Variation in posterior probability
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

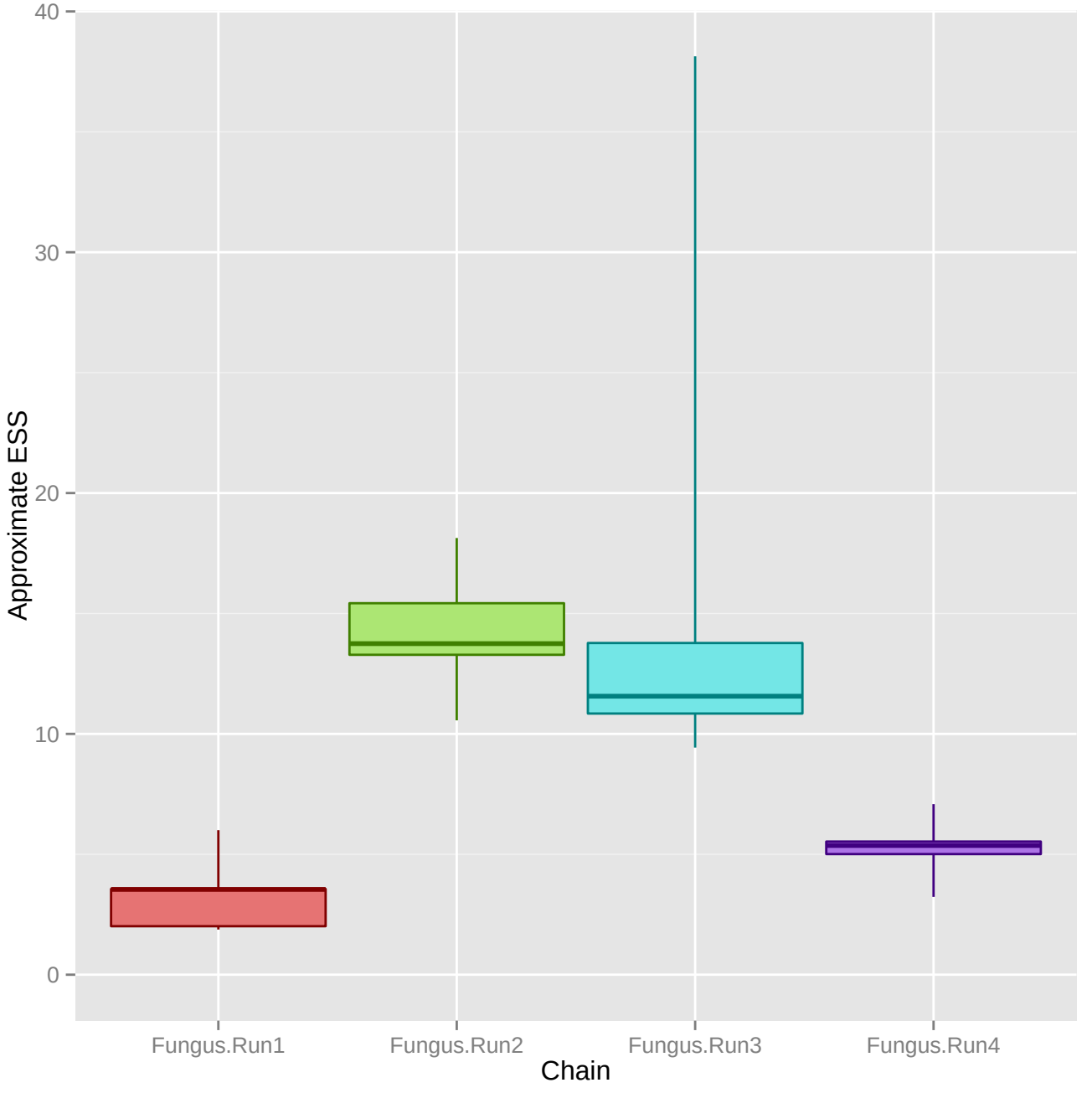

Fungus.Run3 Cumulative Variance
Variation in posterior probability
0.25
0.20
0.15
0.10
0.05
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

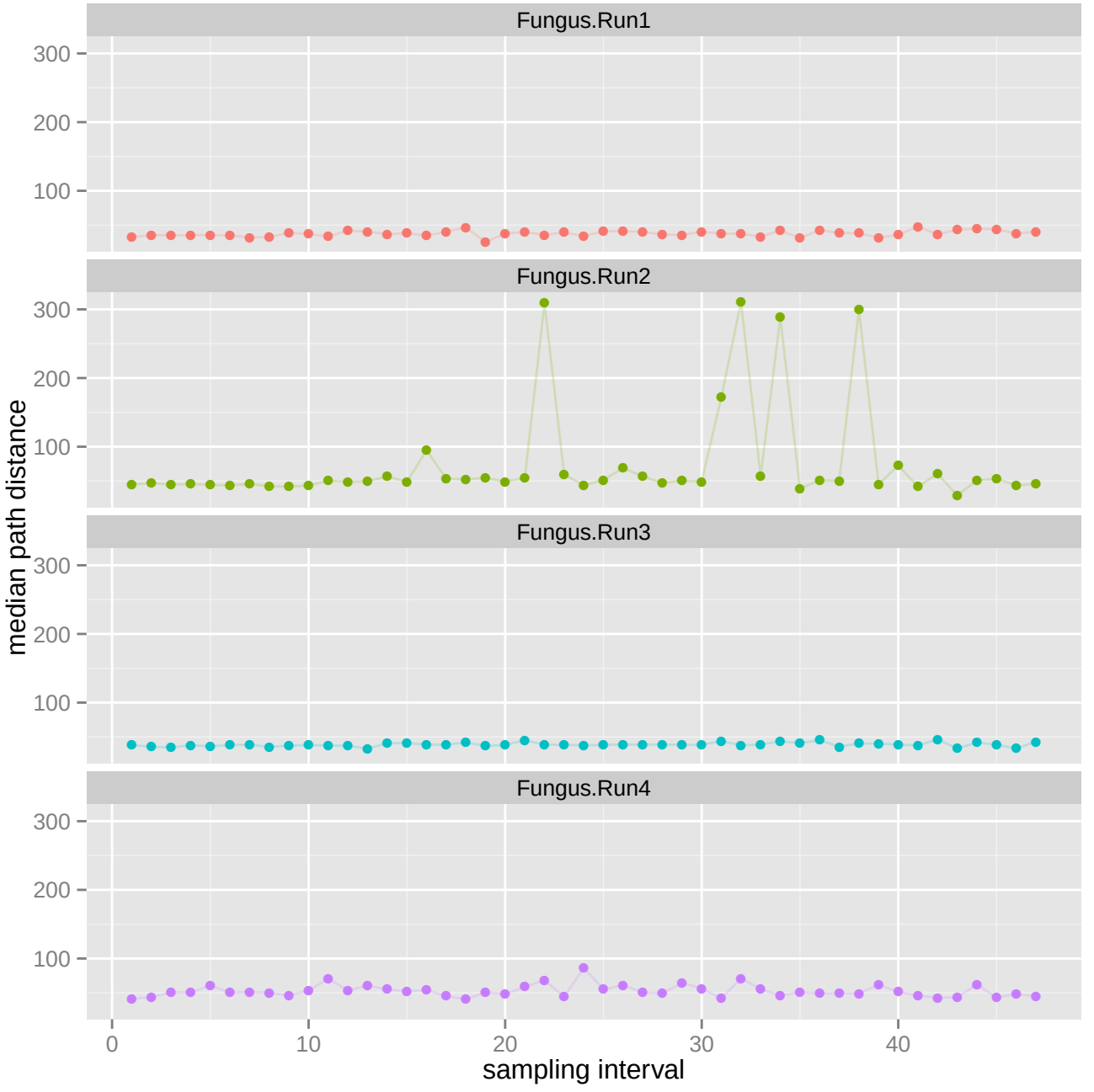

Fungus.Run4 Sliding Window Posterior Probability
Posterior.Probability
1.00
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

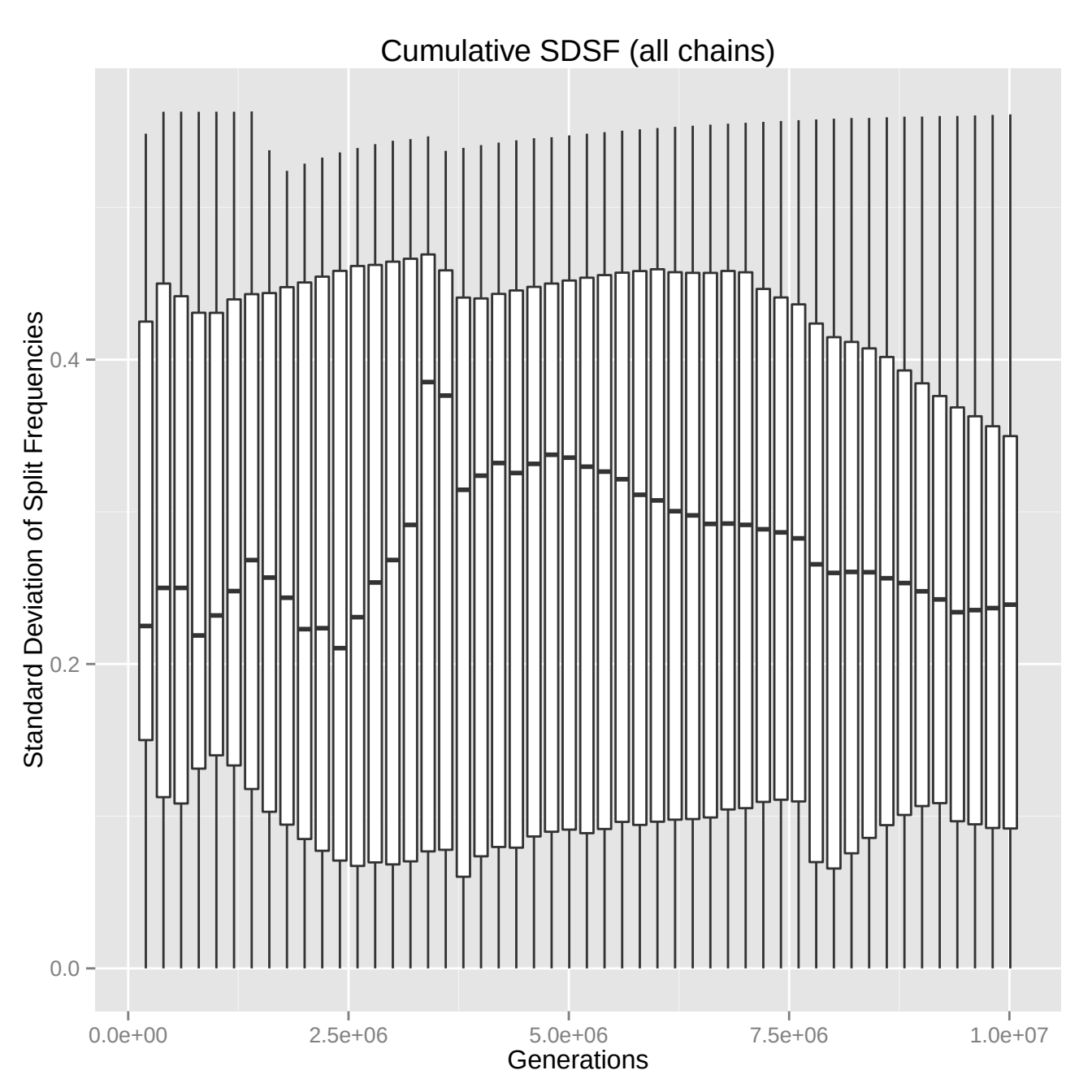

Fungus.Run4 Cumulative Posterior Probability
1.00
0.75
0.50
0.25
0.00
Posterior.Probability
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

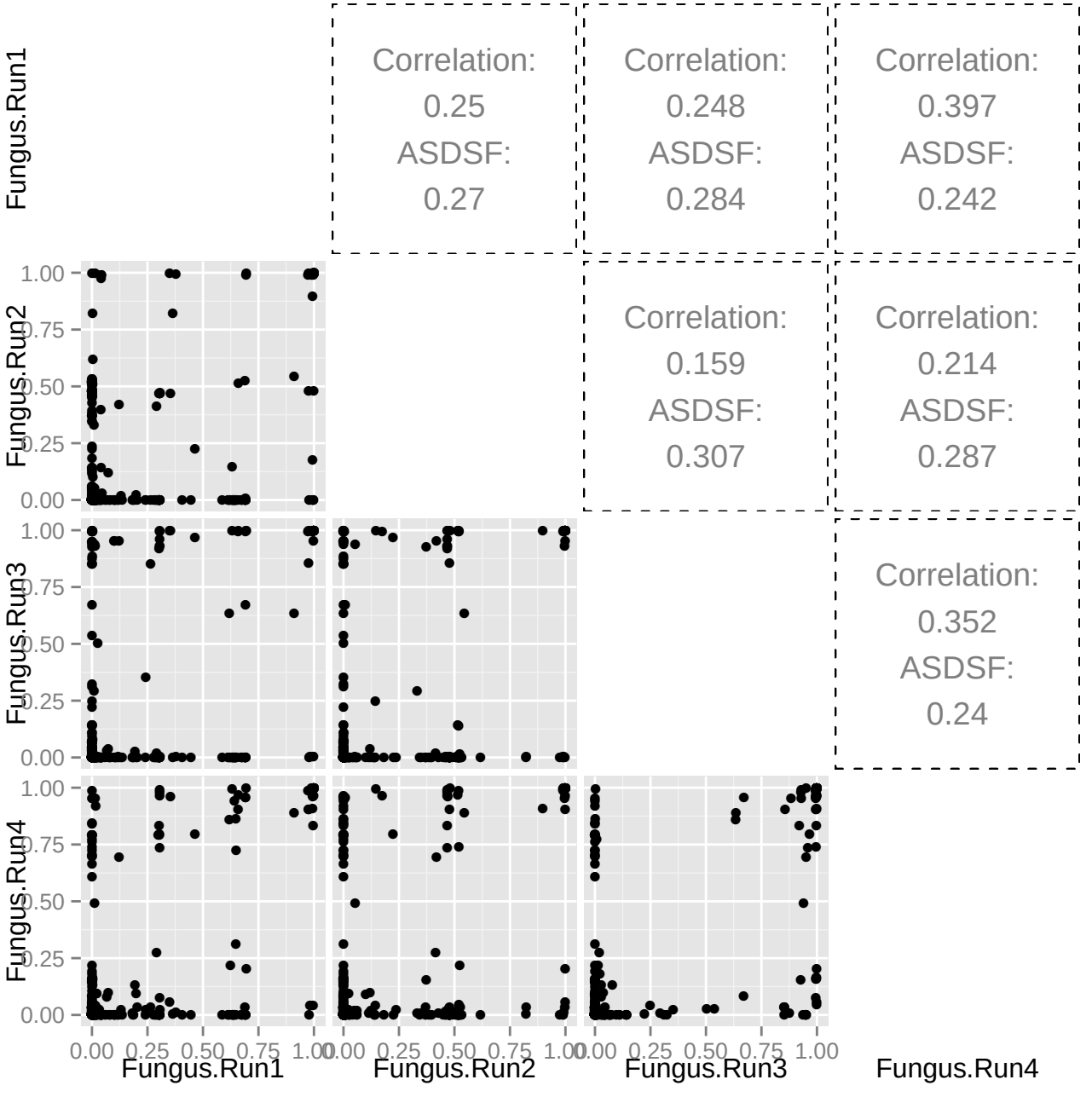

Fungus.Run4 Sliding Window Variance
Variation in posterior probability
0.75
0.50
0.25
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations

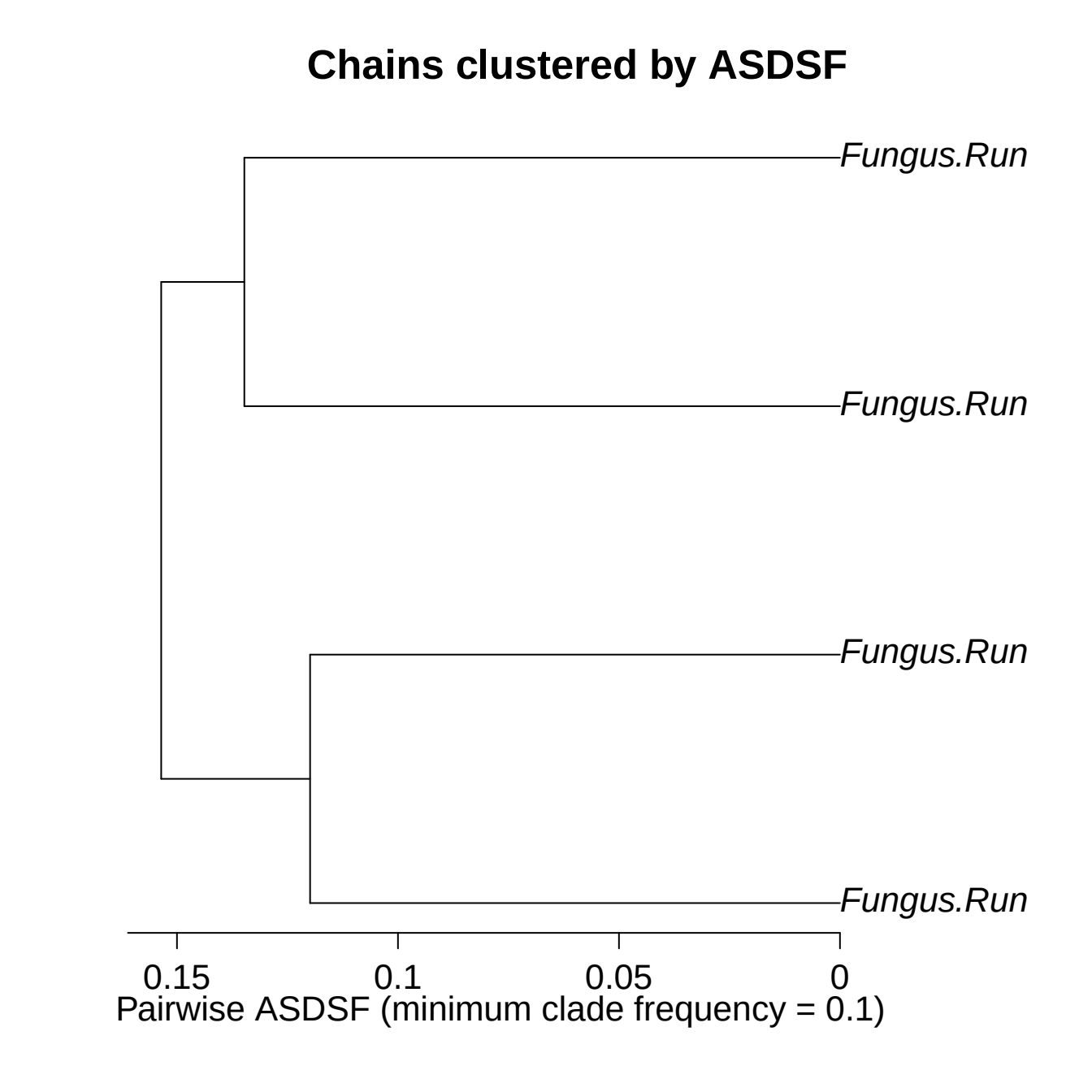

Fungus.Run4 Cumulative Variance
Variation in posterior probability
0.20
0.15
0.10
0.05
0.00
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations


40
30
20
10
0
Approximate ESS
Fungus.Run1
Fungus.Run2
Fungus.Run3
Fungus.Run4
Chain


Fungus.Run1
Fungus.Run2
Fungus.Run3
Fungus.Run4
median path distance
300
200
100
0
10
20
30
40
sampling interval


Cumulative SDSF (all chains)
Standard Deviation of Split Frequencies
0.4
0.2
0.0
0.0e+00
2.5e+06
5.0e+06
7.5e+06
1.0e+07
Generations


Fungus.Run1
Correlation:
0.25
ASDSF:
0.27
Correlation:
0.248
ASDSF:
0.284
Correlation:
0.397
ASDSF:
0.242
Fungus.Run2
Correlation:
0.159
ASDSF:
0.307
Correlation:
0.214
ASDSF:
0.287
Fungus.Run3
Correlation:
0.352
ASDSF:
0.24
Fungus.Run4
0.00
0.25
0.50
0.75
1.00
Fungus.Run1
Fungus.Run2
Fungus.Run3
Fungus.Run4


Chains clustered by ASDSF
Fungus.Run
Fungus.Run
Fungus.Run
Fungus.Run
0.15
0.1
0.05
0
Pairwise ASDSF (minimum clade frequency = 0.1)