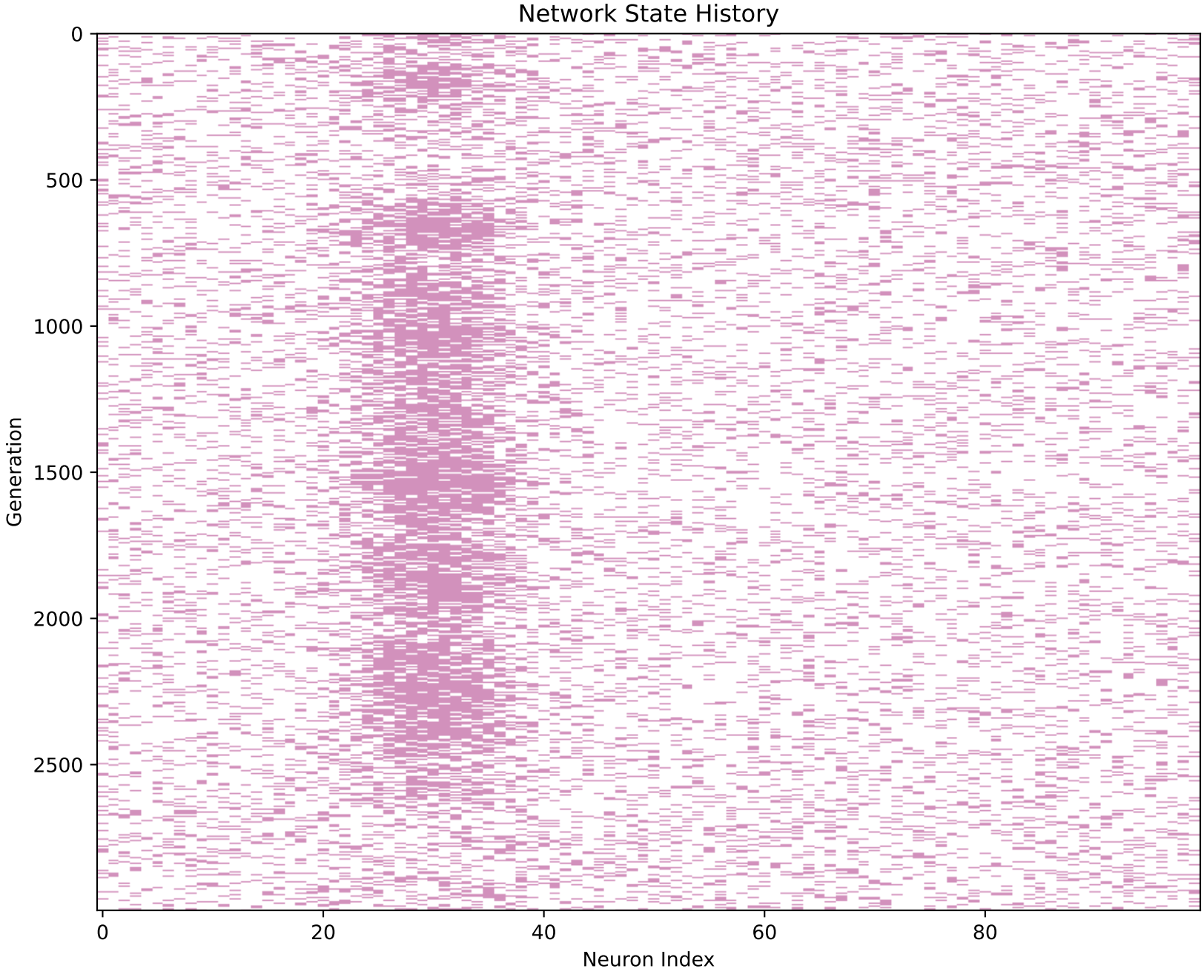
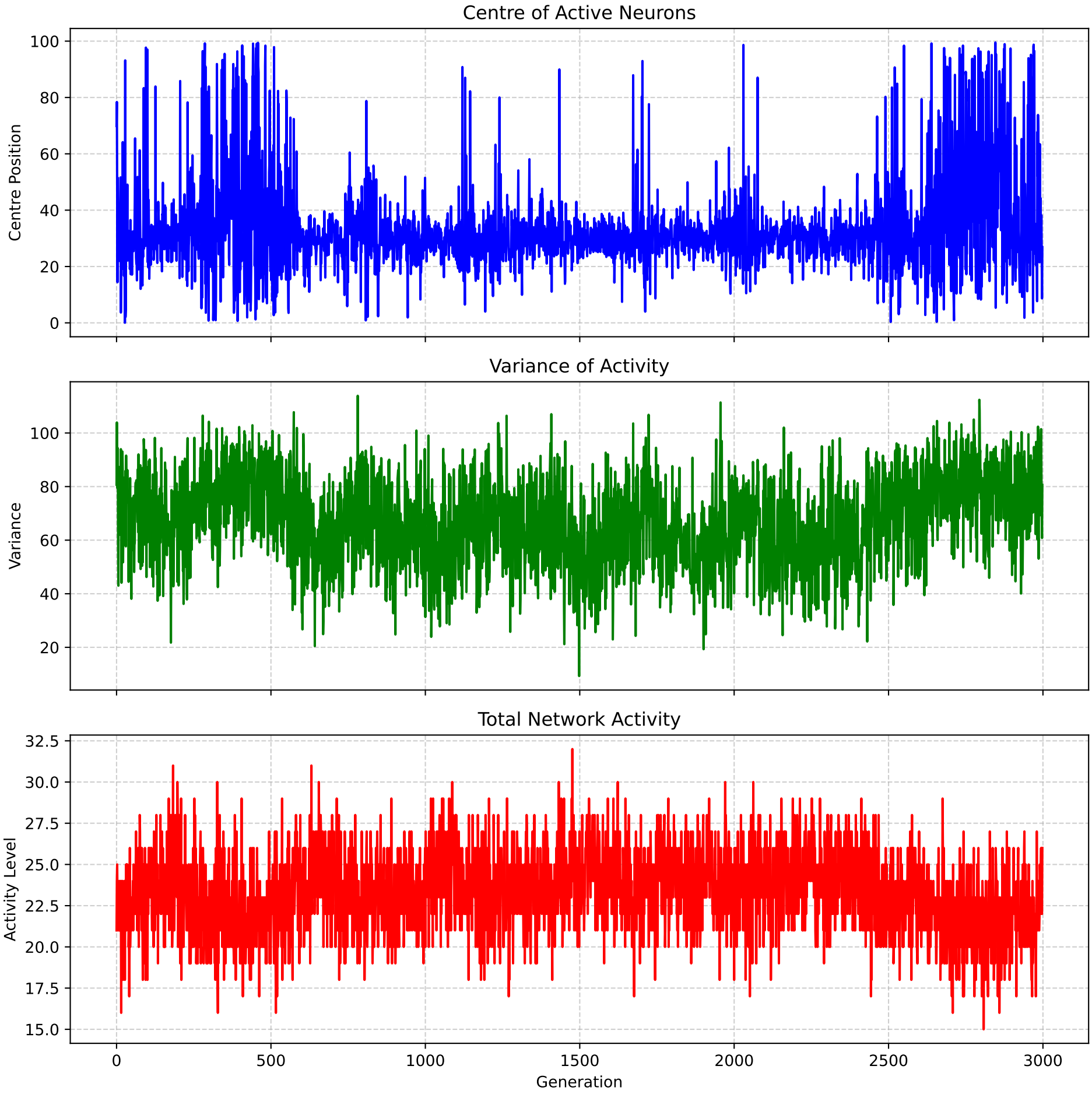
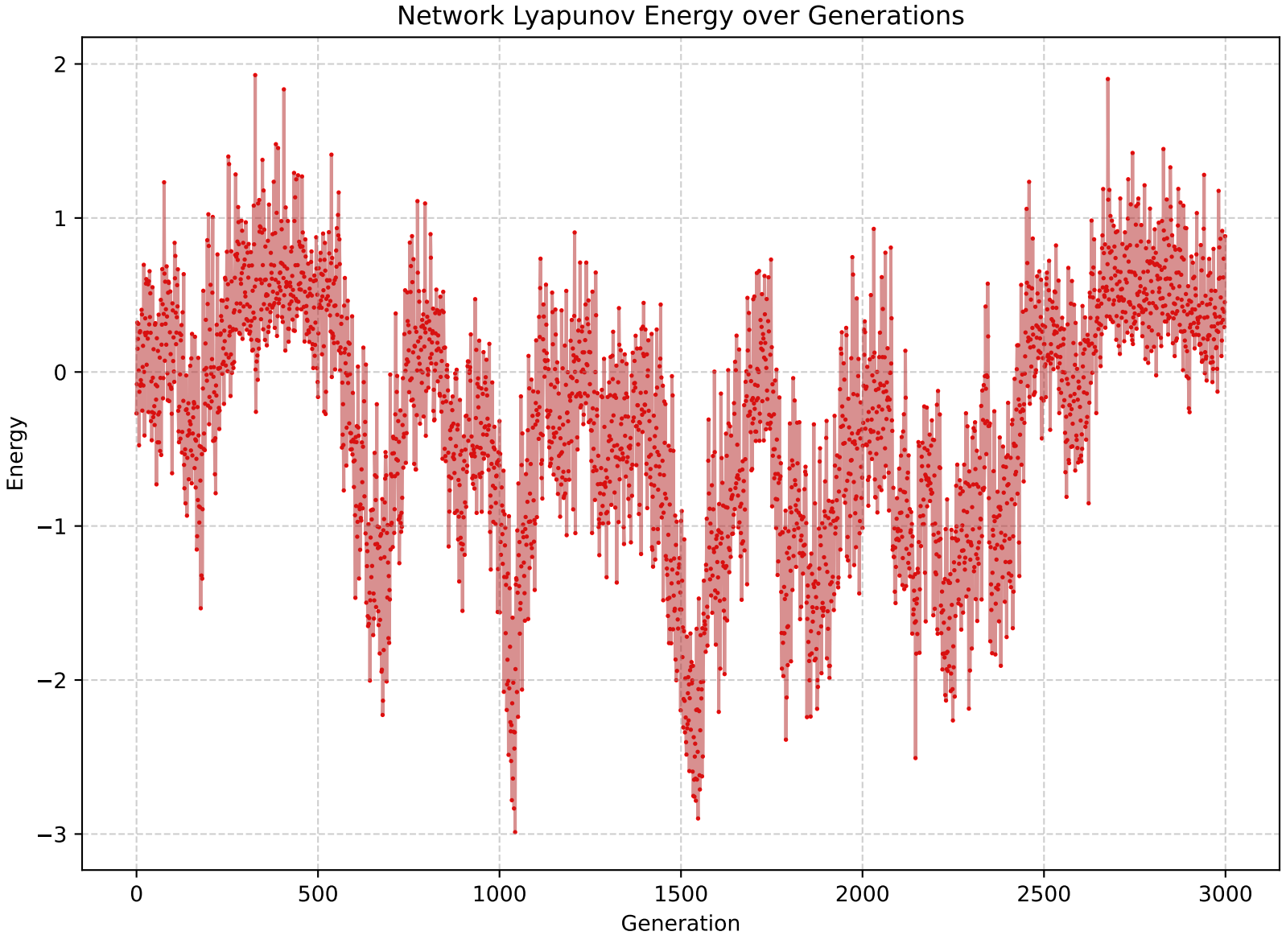
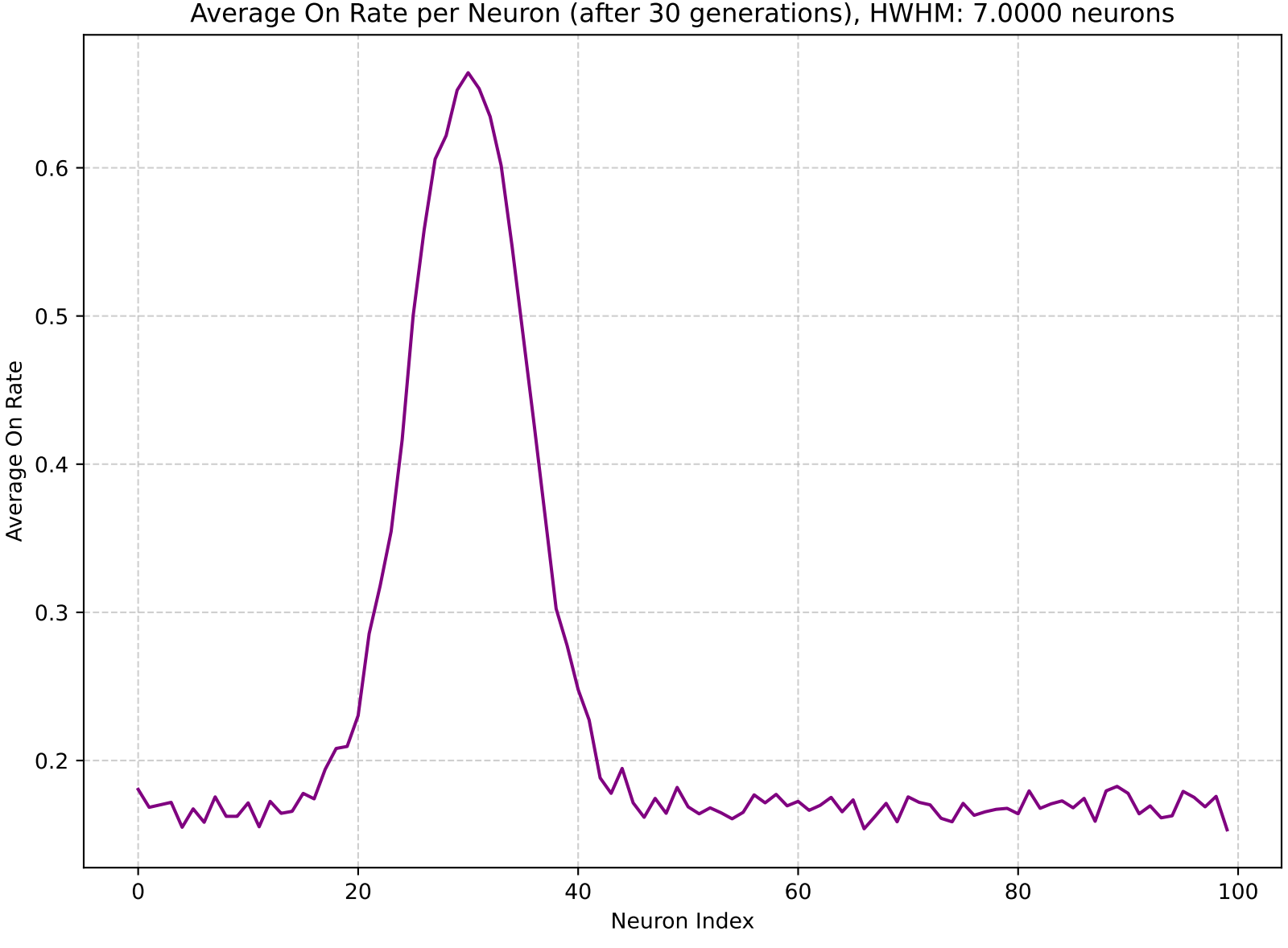

Network State History
Generation
Neuron Index
0
500
1000
1500
2000
2500
0
20
40
60
80

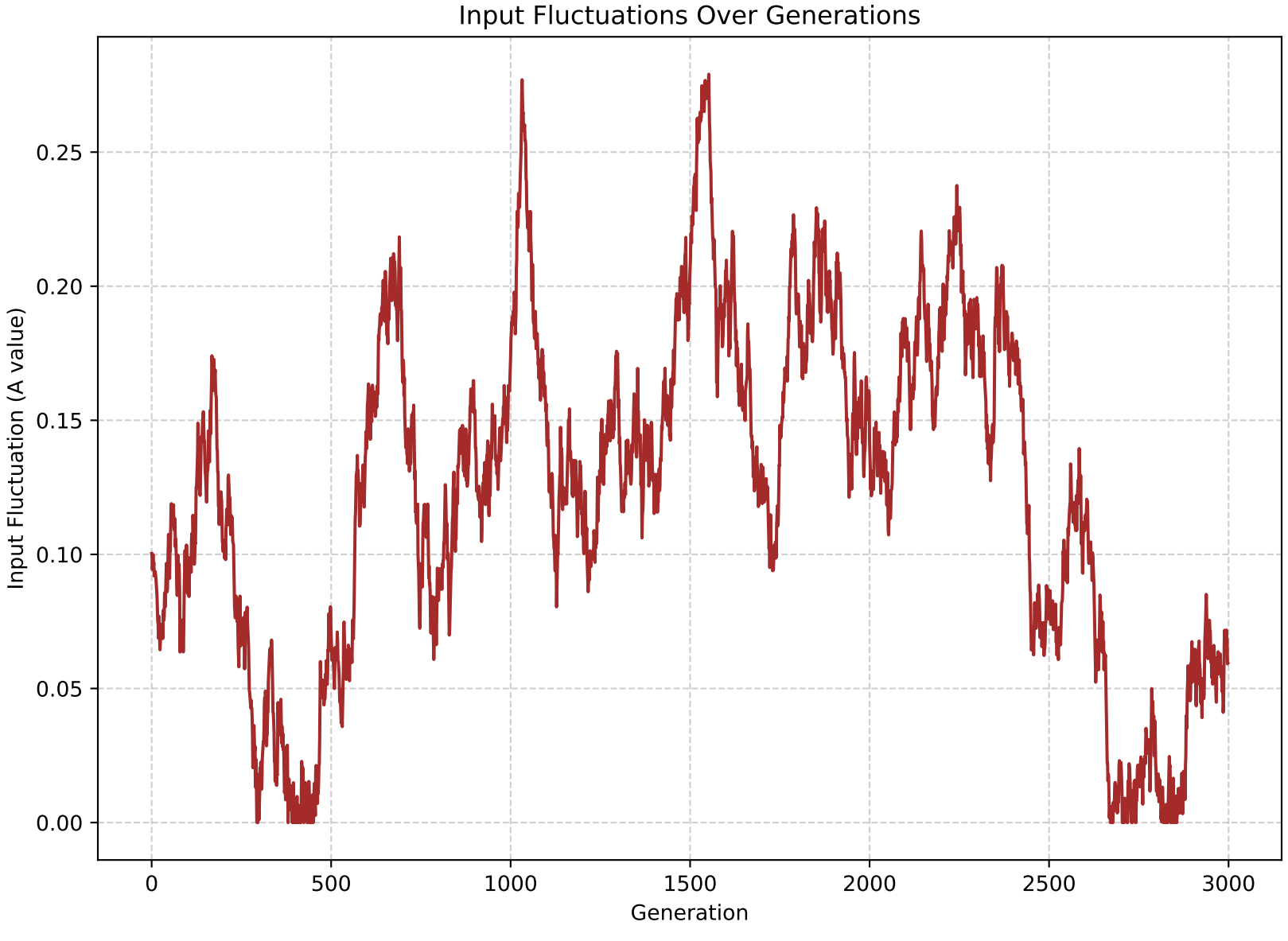

Centre of Active Neurons
Centre Position
100
80
60
40
20
0
Variance of Activity
Variance
100
80
60
40
20
Total Network Activity
Activity Level
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
0
500
1000
1500
2000
2500
3000
Generation

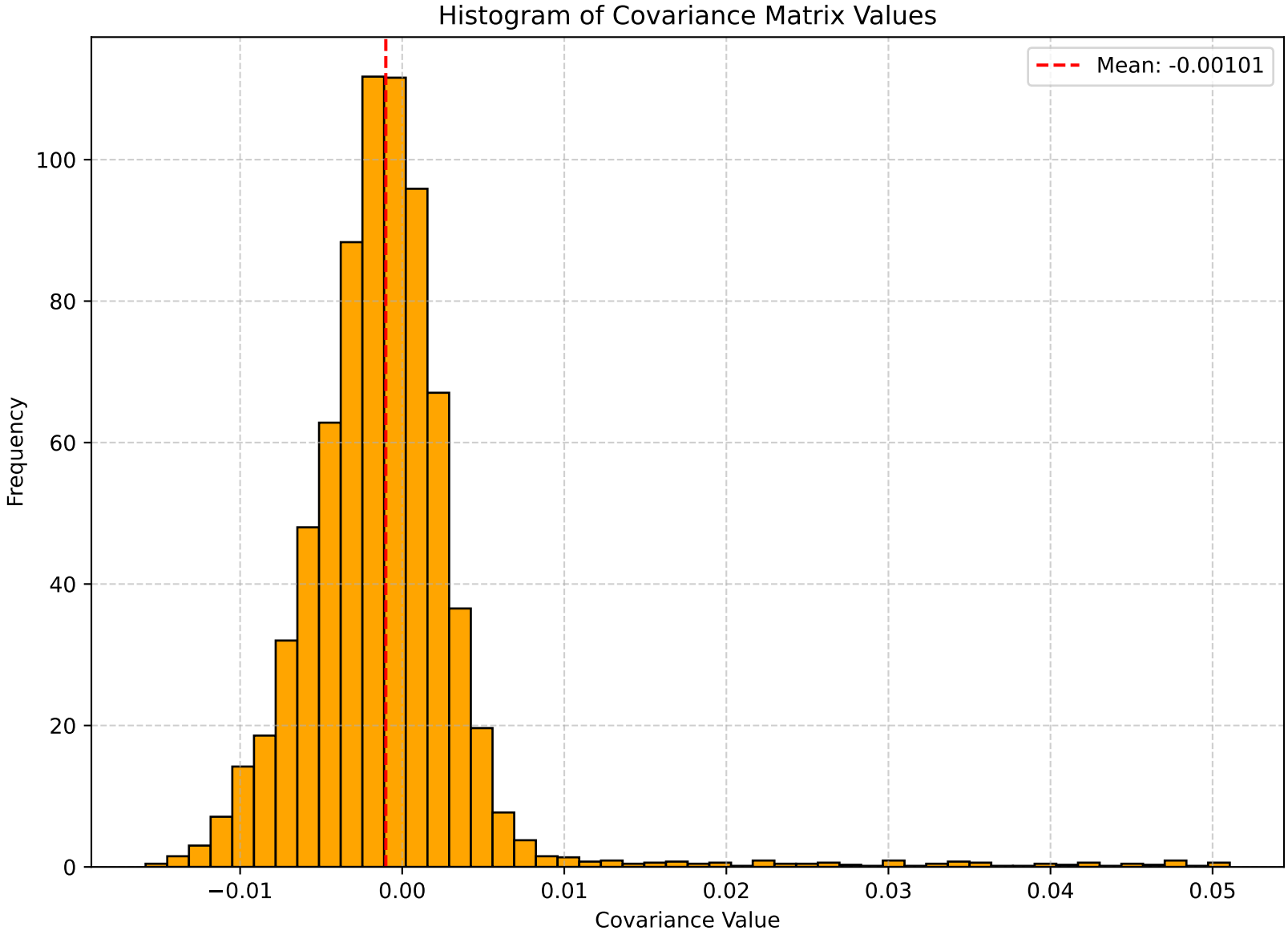

Network Lyapunov Energy over Generations
Energy
Generation
2
1
0
−1
−2
−3
0
500
1000
1500
2000
2500
3000

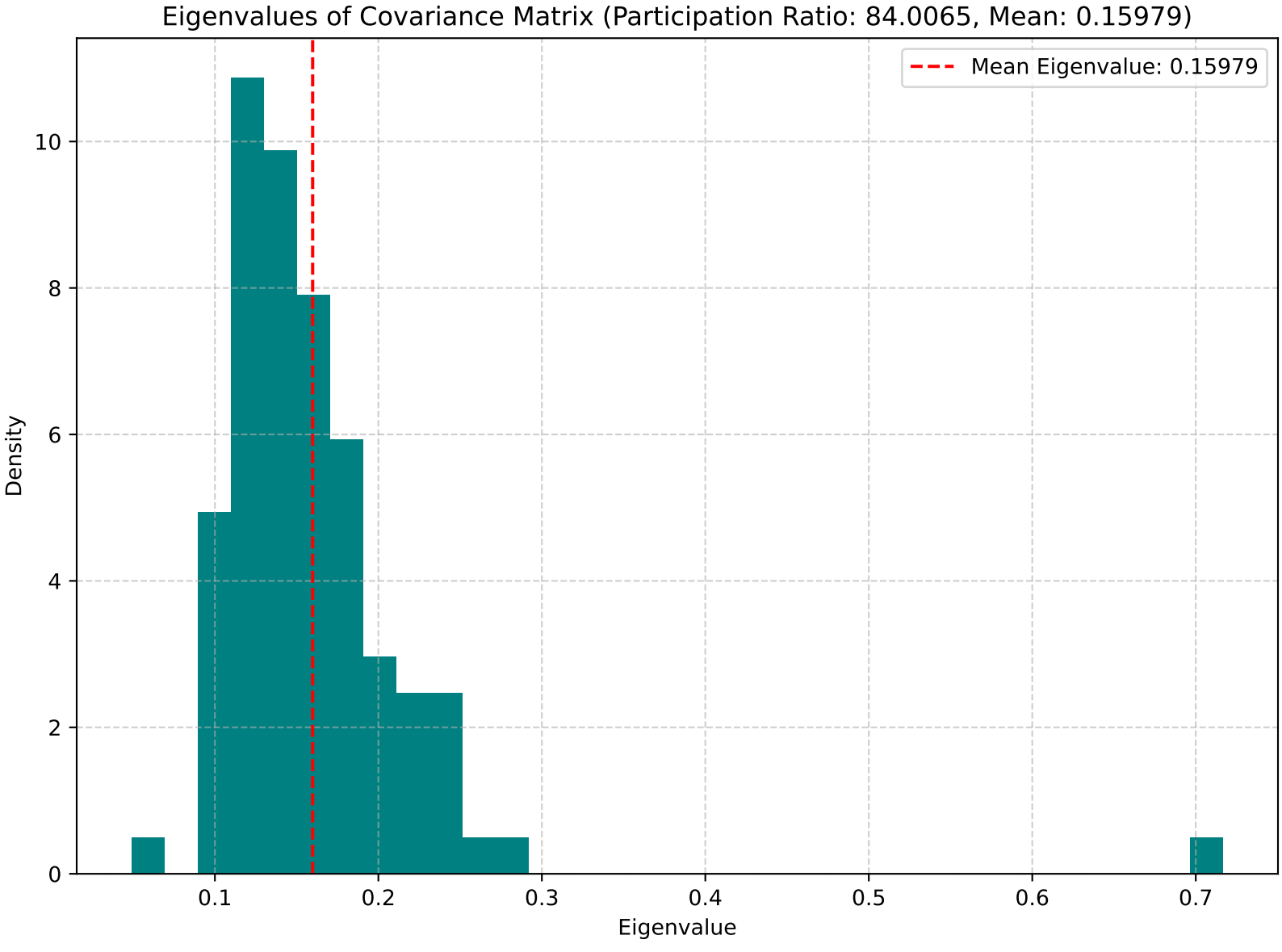
Network Parameters:

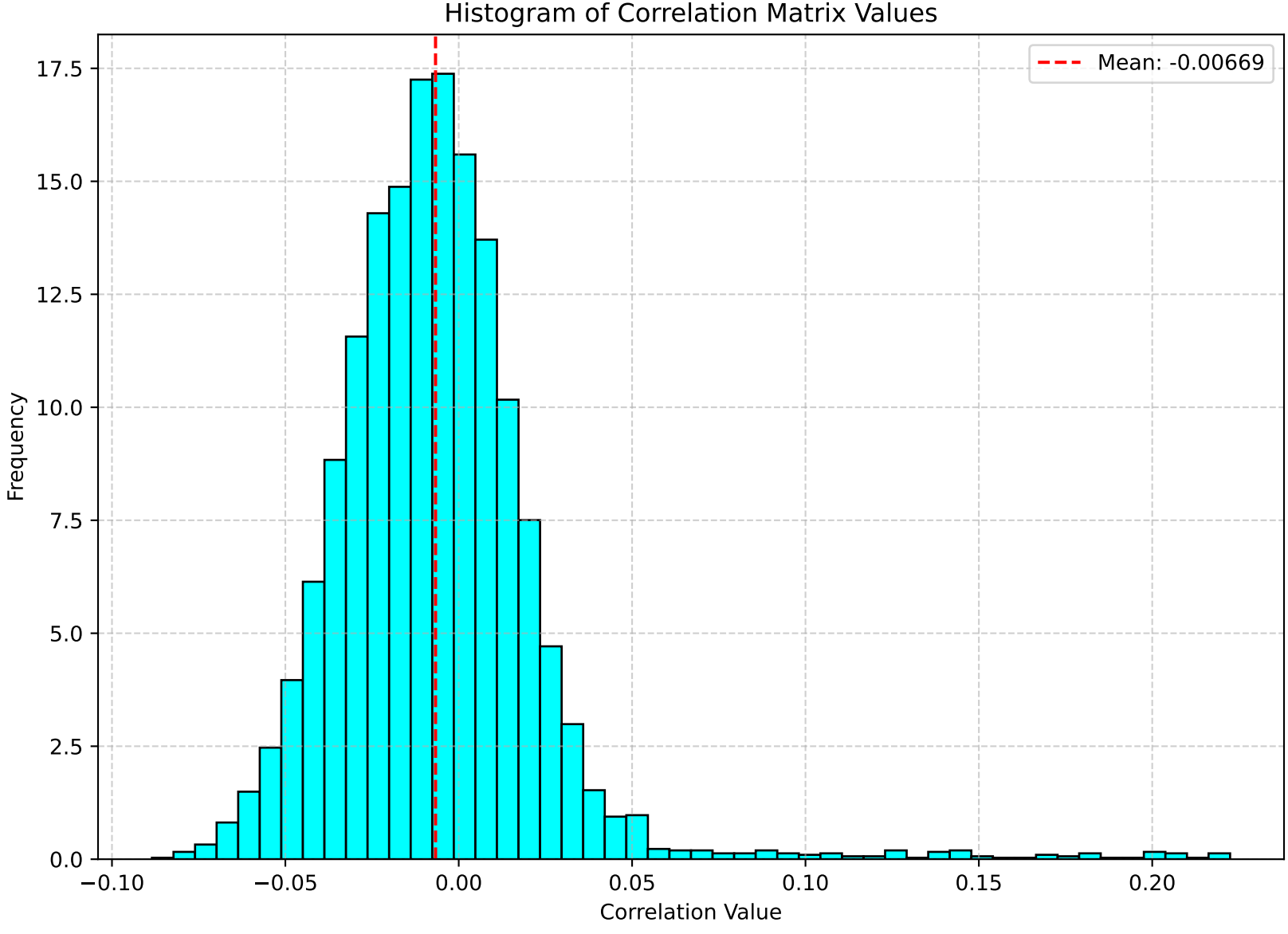
Number of Neurons: 100
Noise: 0.0
Field Width: 0.05
Synaptic Failure: 0.0
Spontaneous Release: 0.0
Constriction: 1.0
Fraction Active: 0.1

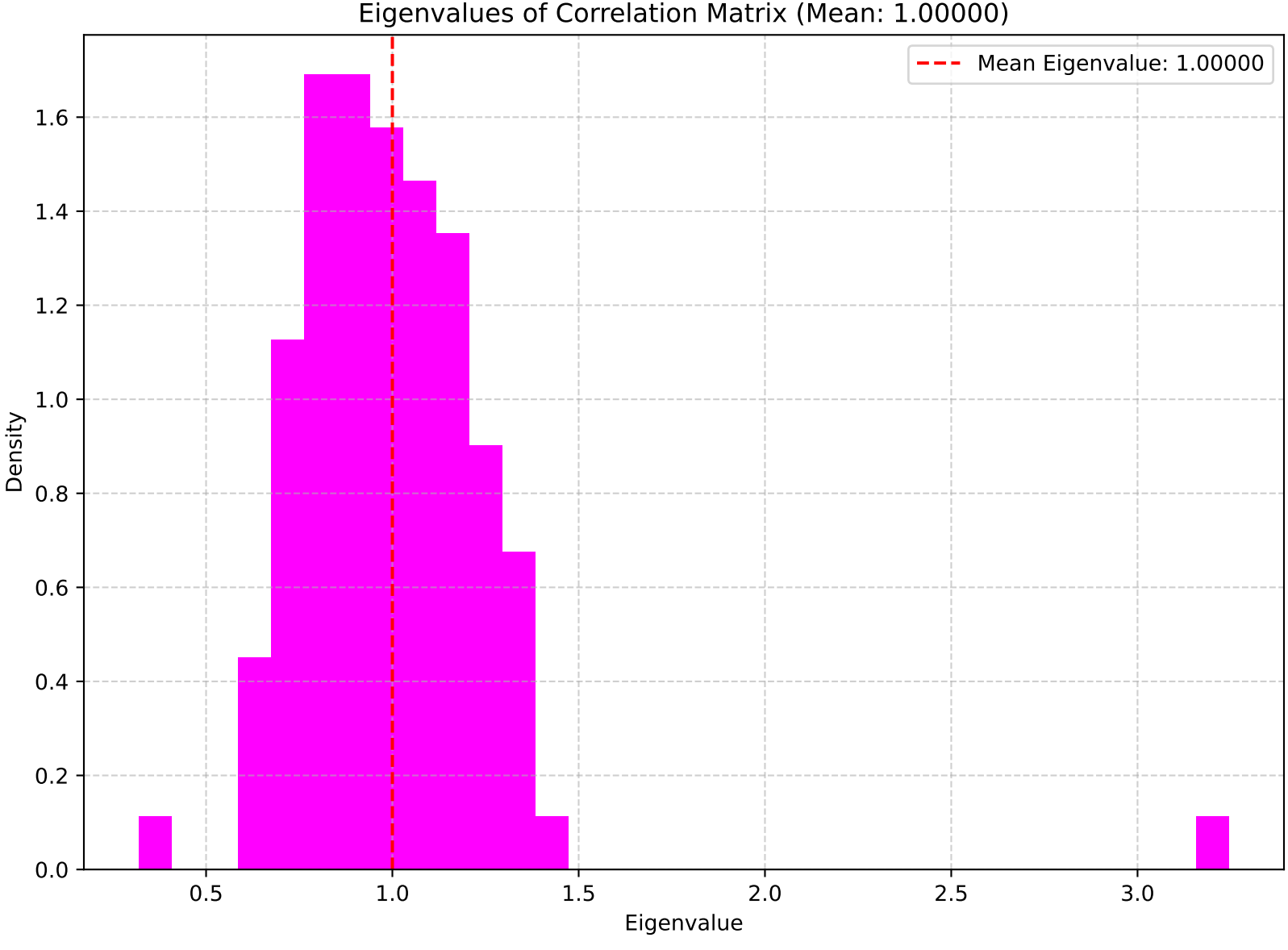

Average On Rate per Neuron (after 30 generations), HWHM: 7.0000 neurons
Average On Rate
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
100
Neuron Index


Input Fluctuations Over Generations
Input Fluctuation (A value)
0.25
0.20
0.15
0.10
0.05
0.00
0
500
1000
1500
2000
2500
3000
Generation


Histogram of Covariance Matrix Values
Mean: -0.00101
Frequency
Covariance Value
0
20
40
60
80
100
−0.01
0.00
0.01
0.02
0.03
0.04
0.05


Eigenvalues of Covariance Matrix (Participation Ratio: 84.0065, Mean: 0.15979)
Mean Eigenvalue: 0.15979
Density
Eigenvalue
0
2
4
6
8
10
0.1
0.2
0.3
0.4
0.5
0.6
0.7


Histogram of Correlation Matrix Values
Mean: -0.00669
Frequency
Correlation Value
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
−0.10
−0.05
0.00
0.05
0.10
0.15
0.20


Eigenvalues of Correlation Matrix (Mean: 1.00000)
Mean Eigenvalue: 1.00000
Density
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.5
1.0
1.5
2.0
2.5
3.0
Eigenvalue