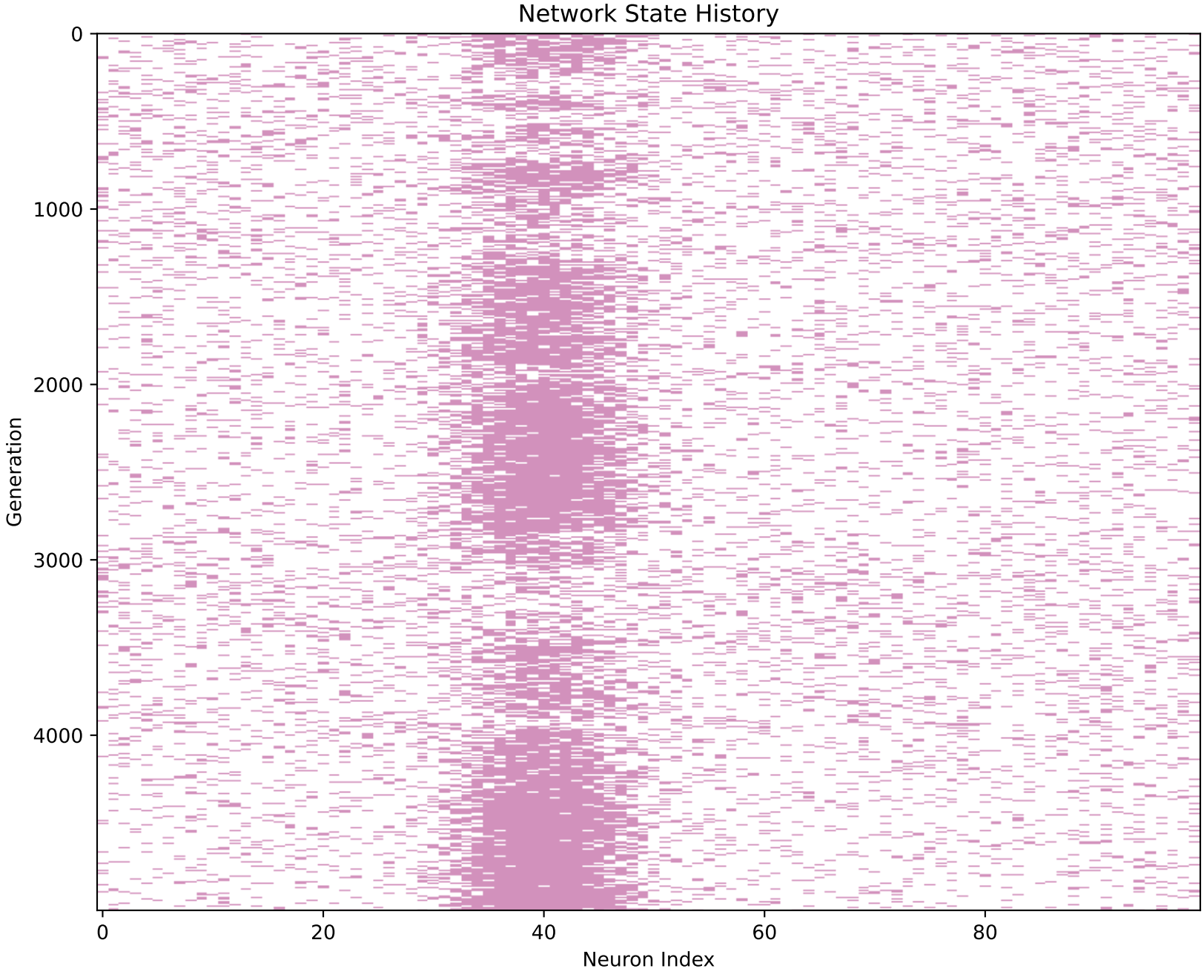
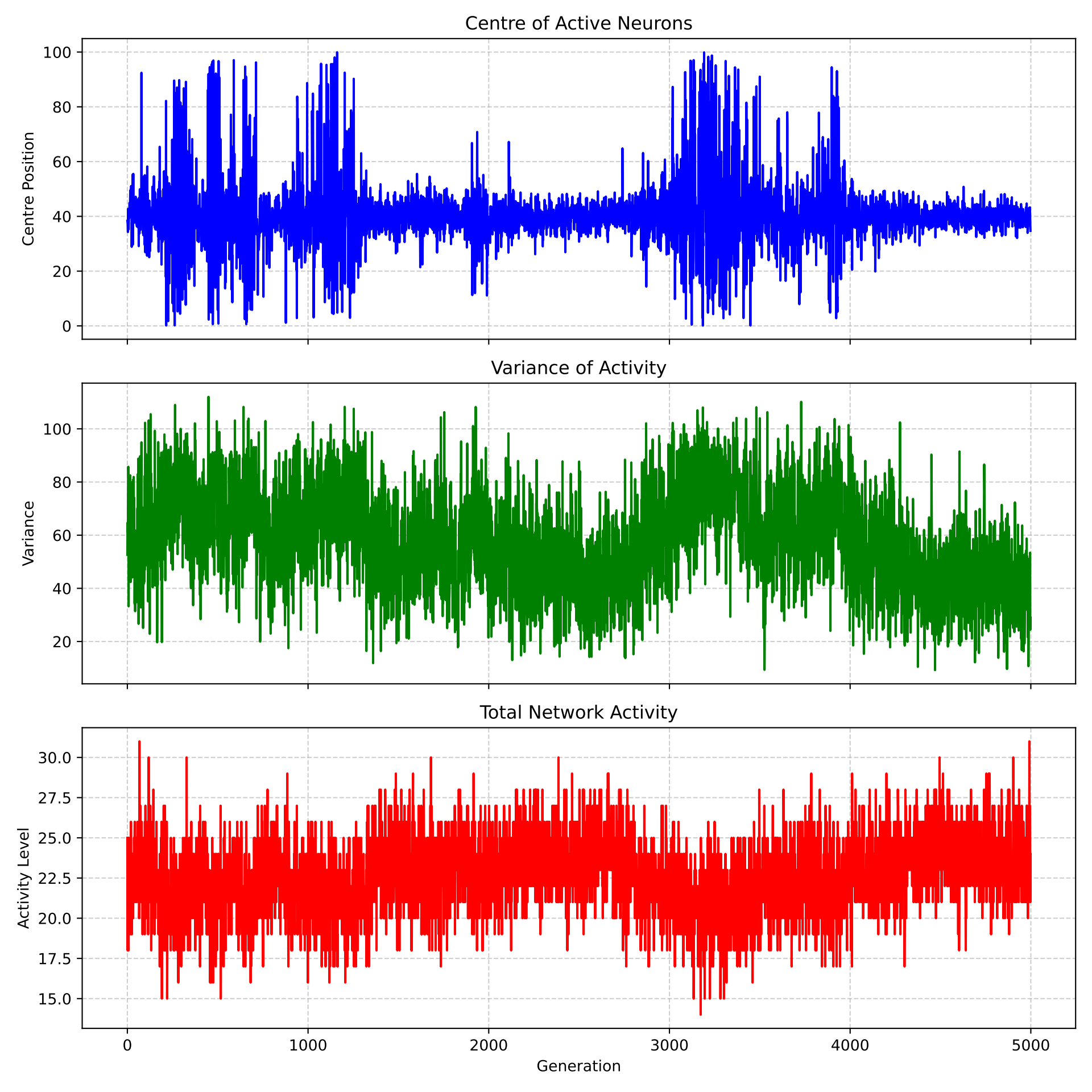
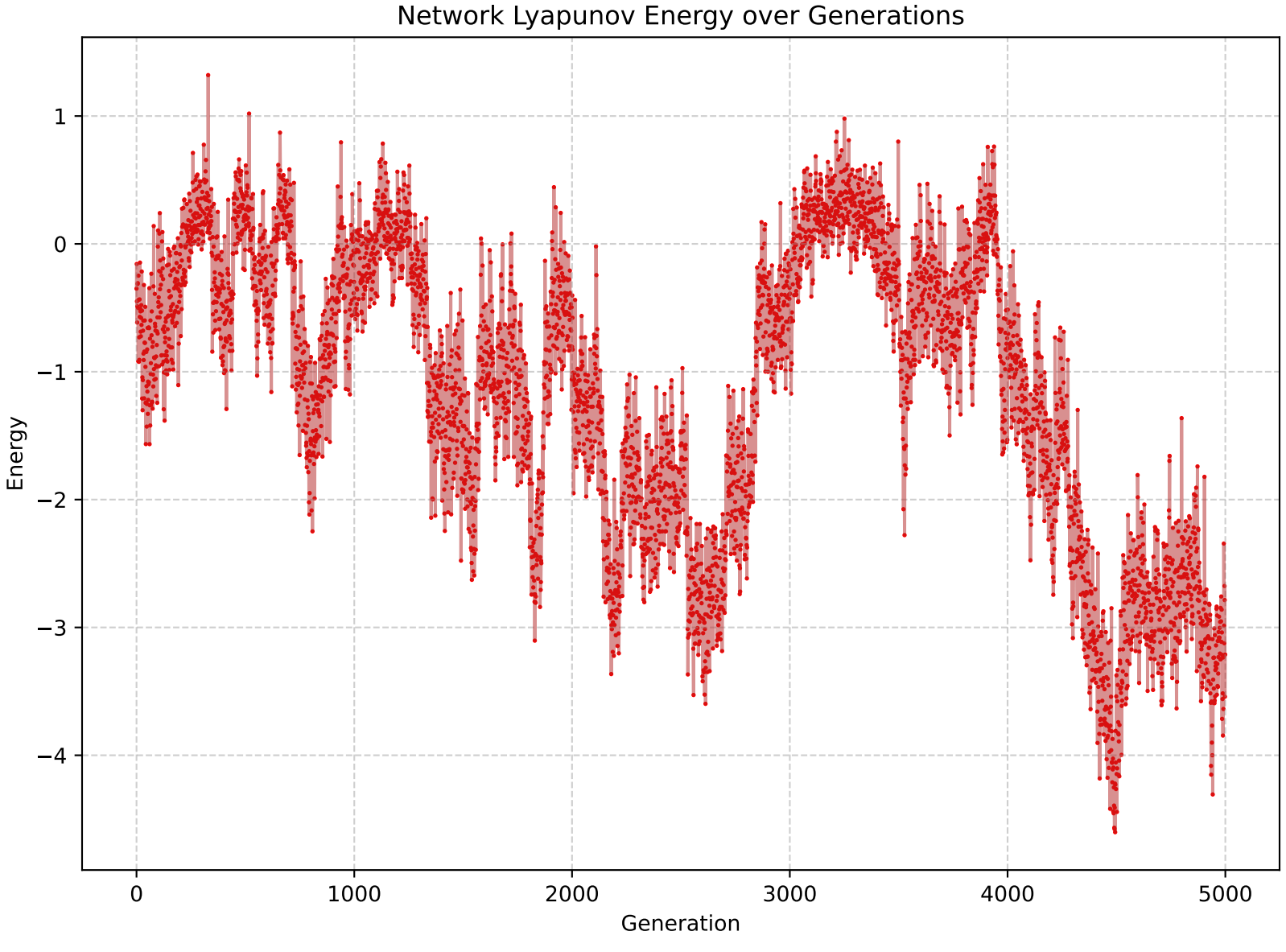
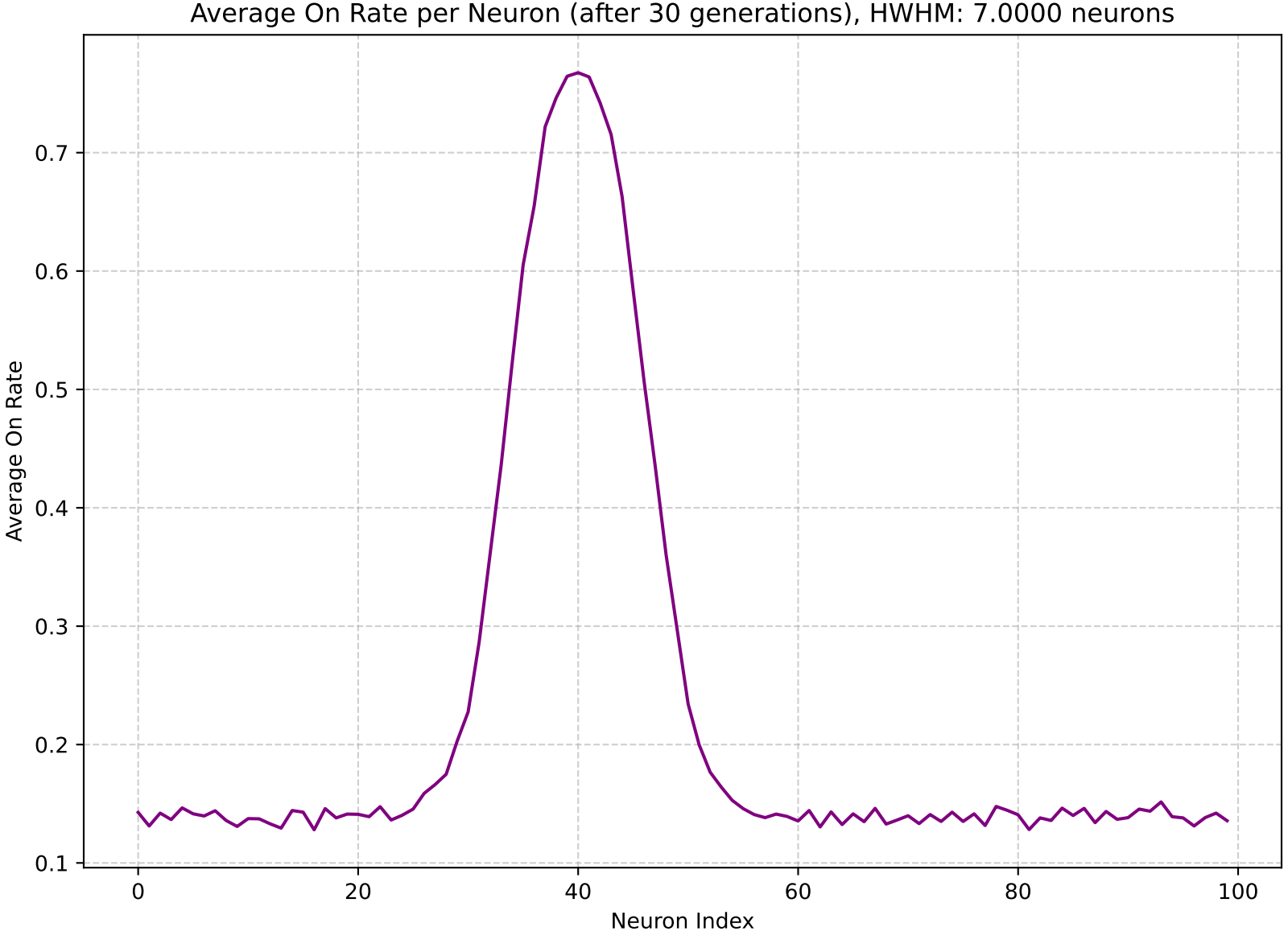

Network State History
Generation
0
1000
2000
3000
4000
0
20
40
60
80
Neuron Index

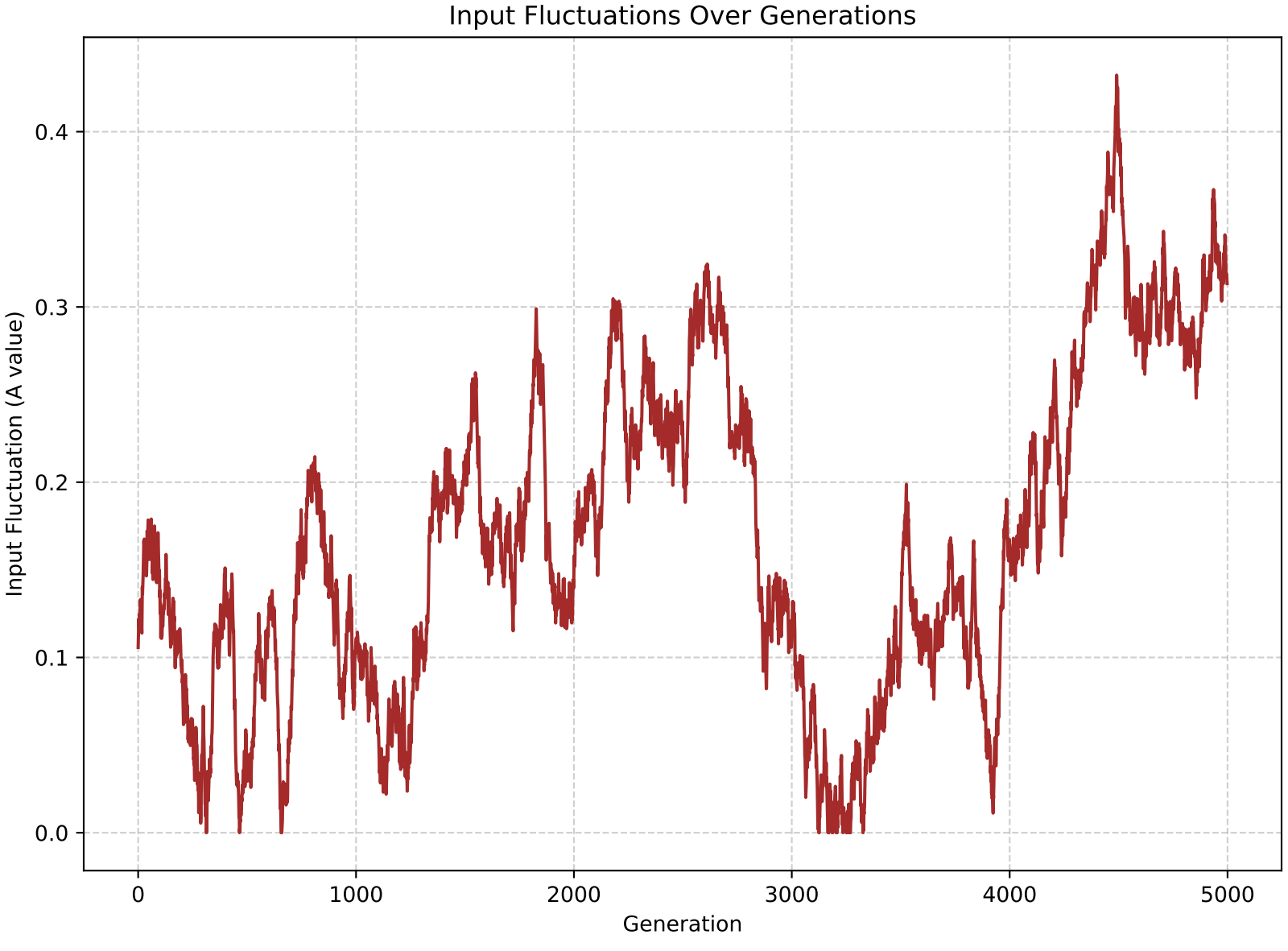

Centre of Active Neurons
Centre Position
100
80
60
40
20
0
Variance of Activity
Variance
100
80
60
40
20
Total Network Activity
Activity Level
30.0
27.5
25.0
22.5
20.0
17.5
15.0
0
1000
2000
3000
4000
5000
Generation

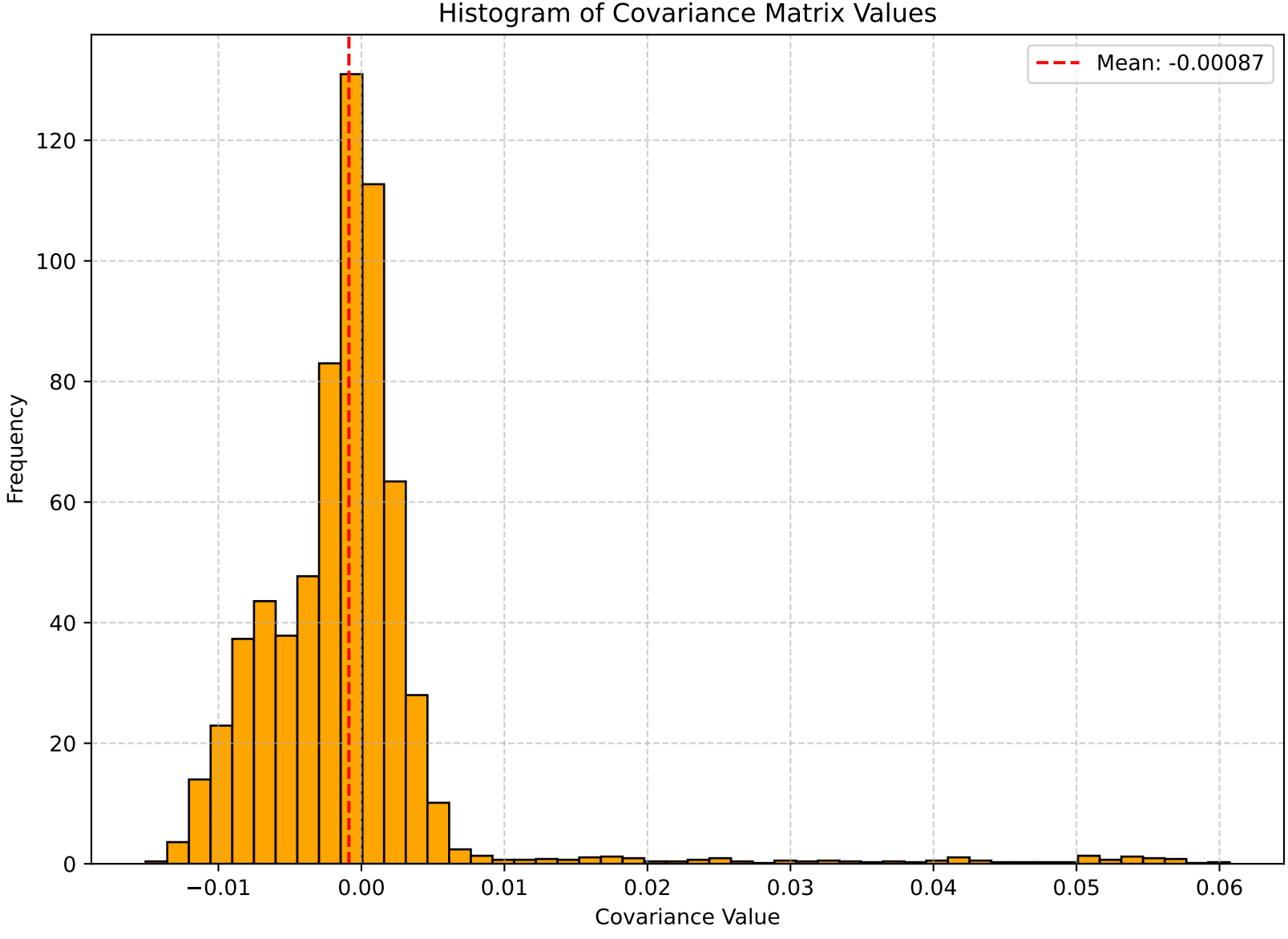

Network Lyapunov Energy over Generations
Energy
Generation
1
0
−1
−2
−3
−4
0
1000
2000
3000
4000
5000

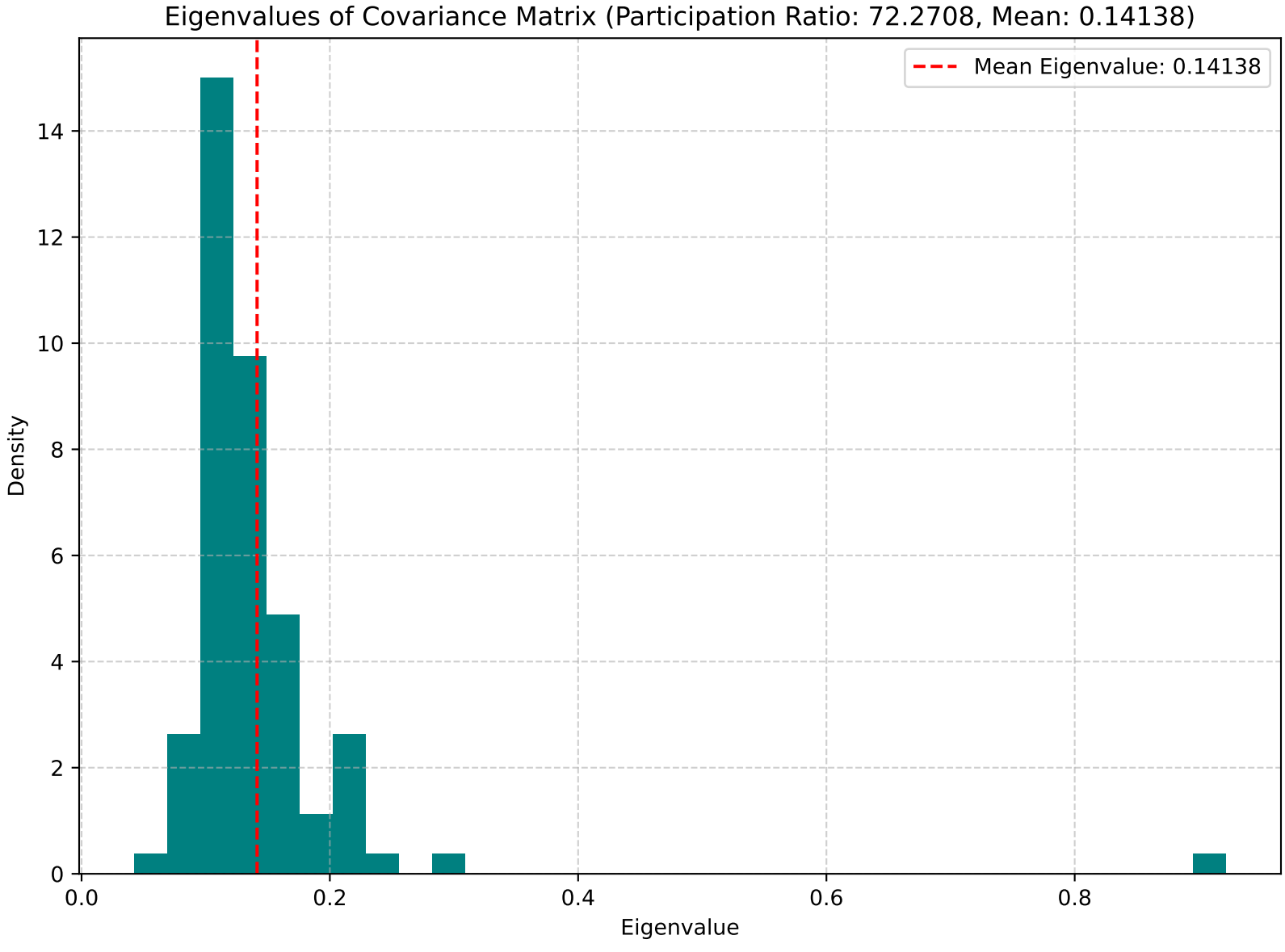
Network Parameters:

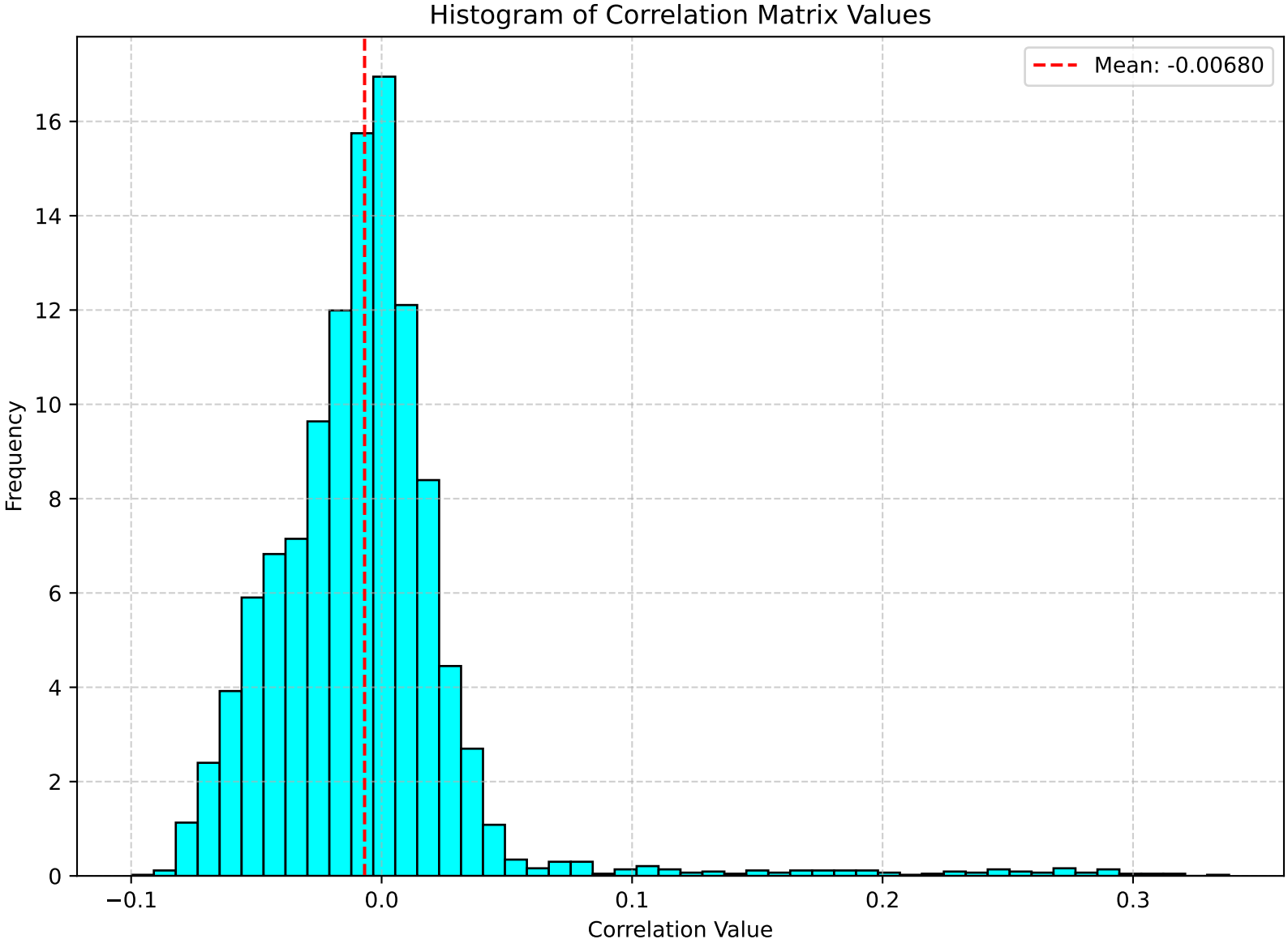
Number of Neurons: 100
Noise: 0.0
Field Width: 0.05
Synaptic Failure: 0.0
Spontaneous Release: 0.0
Constriction: 1.0
Fraction Active: 0.1
AMPA Conductance: 1.0
Input Resistance: 1.0

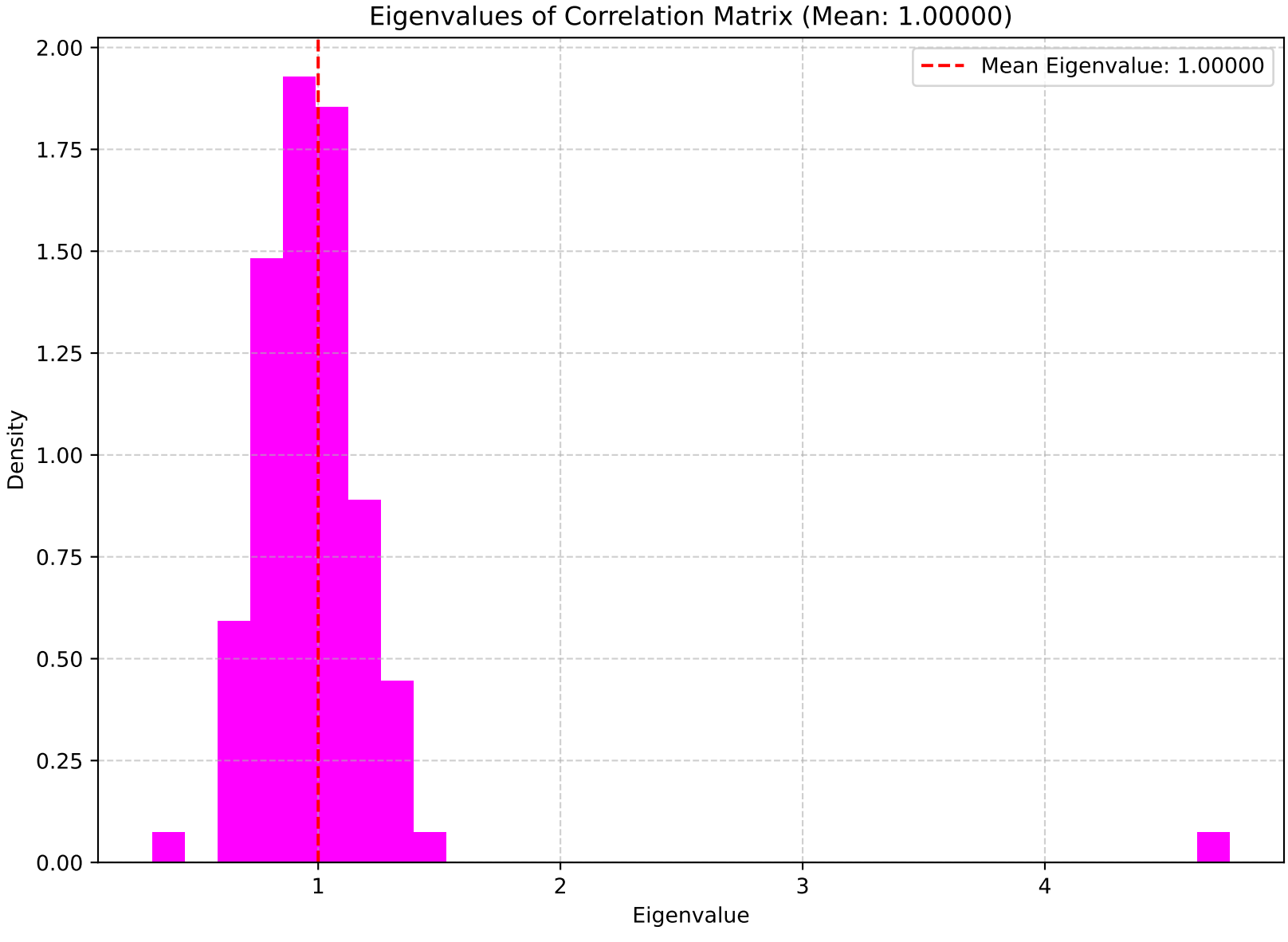

Average On Rate per Neuron (after 30 generations), HWHM: 7.0000 neurons
Average On Rate
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
Neuron Index


Input Fluctuations Over Generations
Input Fluctuation (A value)
0.0
0.1
0.2
0.3
0.4
0
1000
2000
3000
4000
5000
Generation


Histogram of Covariance Matrix Values
Mean: -0.00087
Frequency
Covariance Value
0
20
40
60
80
100
120
−0.01
0.00
0.01
0.02
0.03
0.04
0.05
0.06


Eigenvalues of Covariance Matrix (Participation Ratio: 72.2708, Mean: 0.14138)
Mean Eigenvalue: 0.14138
Density
Eigenvalue
0
2
4
6
8
10
12
14
0.0
0.2
0.4
0.6
0.8


Histogram of Correlation Matrix Values
Mean: -0.00680
Frequency
Correlation Value
0
2
4
6
8
10
12
14
16
−0.1
0.0
0.1
0.2
0.3


Eigenvalues of Correlation Matrix (Mean: 1.00000)
Mean Eigenvalue: 1.00000
Density
Eigenvalue
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1
2
3
4