

Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_0/gen_0_cand_15_data.json

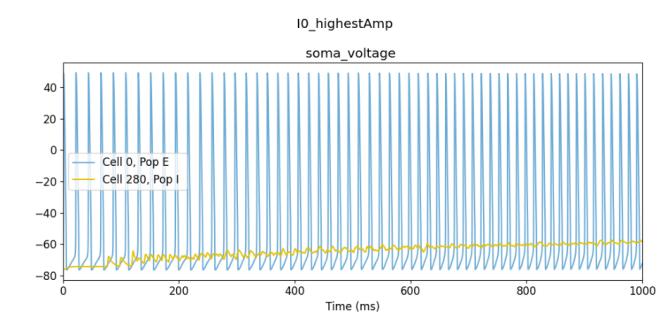
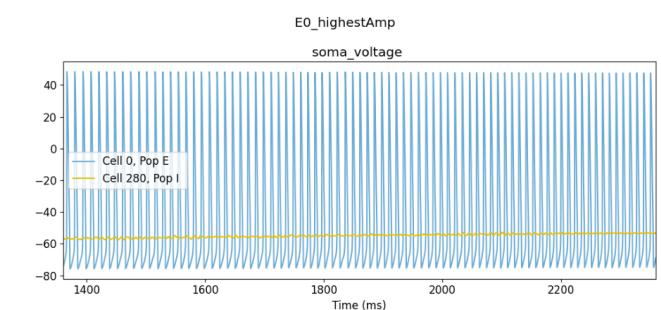
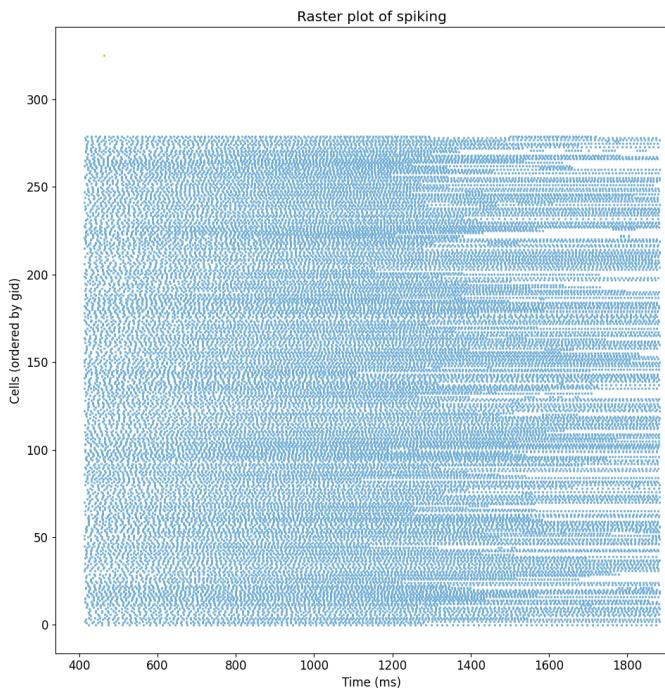
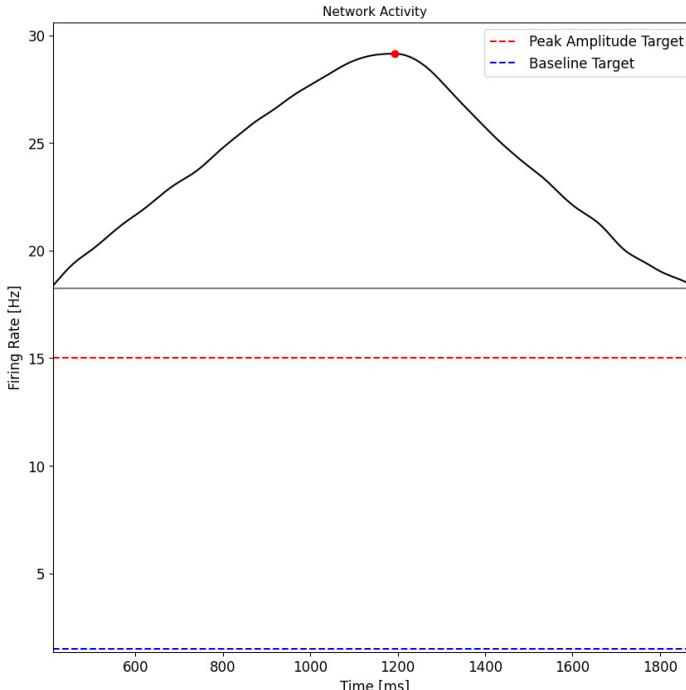
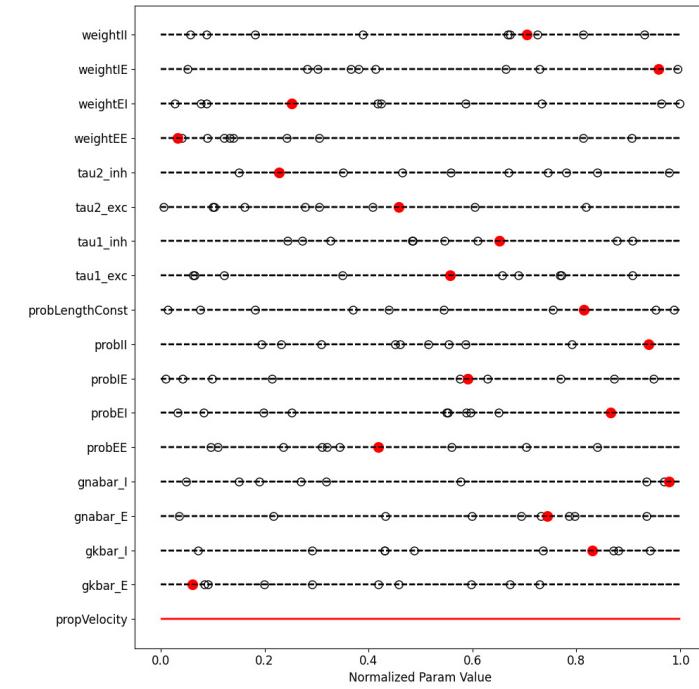
SimLabel: gen_0_cand_15

Generation Rank: 1/10

```
rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 10.903700244286686, 'Fit': 7.753542826843725}
burst_peak_frequency_fitness: {'Value': 0.531208499359893, 'Fit': 3.2780574169487573}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 24.0312517396336, 'Fit': 1000}
slopeFitness: {'Value': -0.005729737941545015, 'Fit': 1.0115253872059733}
thresh: {'Value': 18.241965396210823, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 14.756554307116104, 'Fit': 1000}
E_rate_fitness: {'Value': 73.87301587301586, 'Fit': 1000}
I_rate_fitness: {'Value': 1.8888888888888888, 'Fit': 1000}
maxFitness: 1000
average_fitness: 668.0047917367776
average_scaled_fitness: 667.6686301191783
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

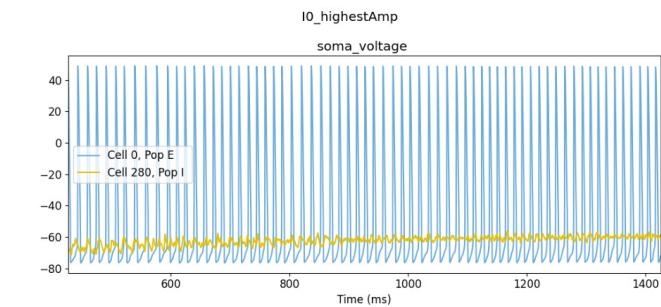
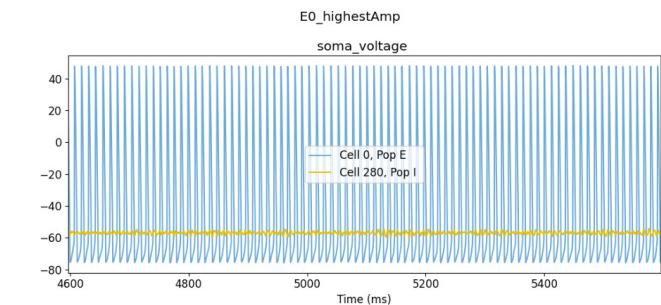
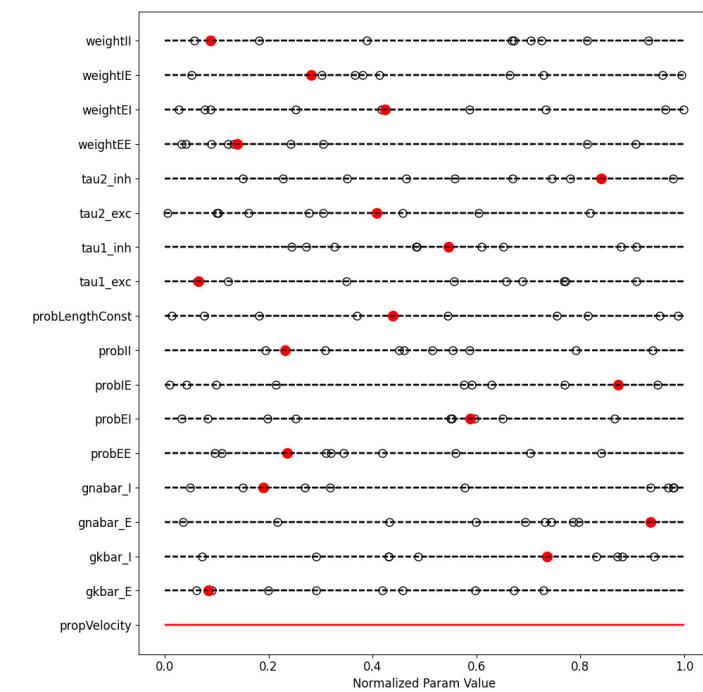
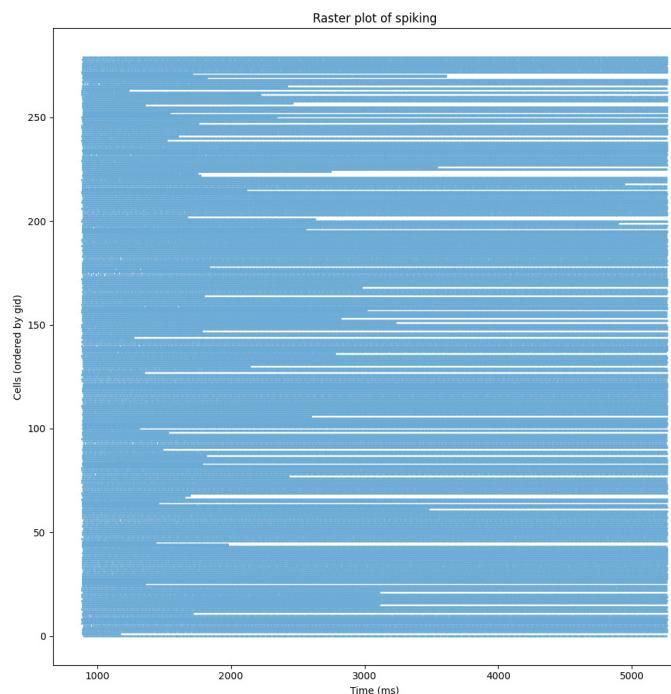
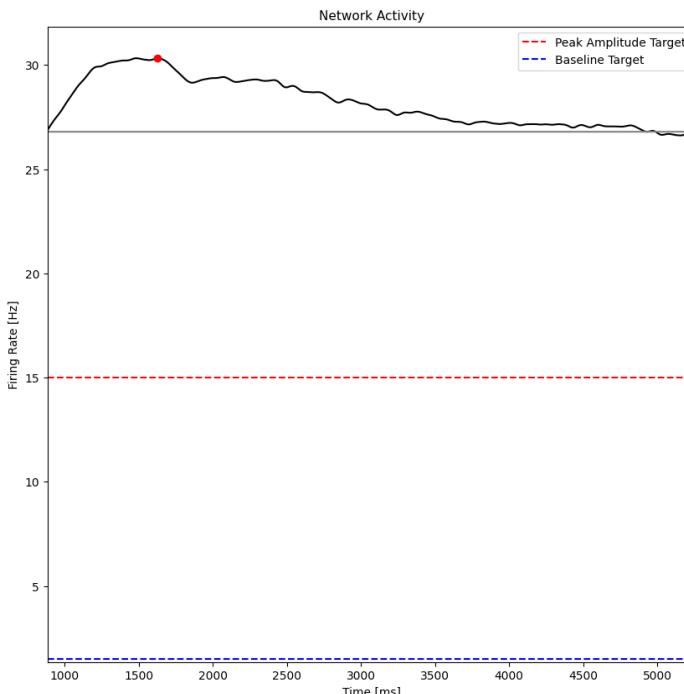
```

```

burstAmp_Fitness: {'Value': 1.7903887365359576, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.3798670465337132, 'Fit': 1.322074745048561}
IBI_fitness: {'Value': 3615.0, 'Fit': 1.3600208085019607}
baseline_fitness: {'Value': 28.186287798416128, 'Fit': 1000}
slopeFitness: {'Value': -0.005907852172437004, 'Fit': 1.0118857855269718}
thresh: {'Value': 26.797643369120095, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 43.82022471910113, 'Fit': 1000}
E_rate_fitness: {'Value': 77.13492063492065, 'Fit': 1000}
I_rate_fitness: {'Value': 0.4166666666666663, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.0771090376752
average_scaled_fitness: 666.7398878673251

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_0/gen_0_cand_76_data.json

SimLabel: gen_0_cand_76

Generation Rank: 2/10

```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_osc: {'target': 100, 'width': 5, 'min': 75}

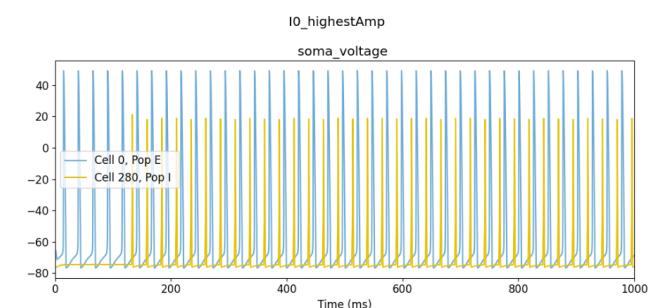
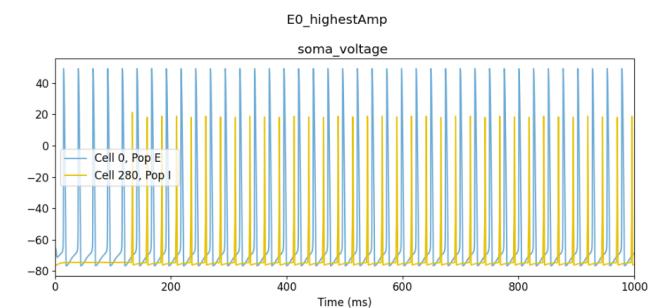
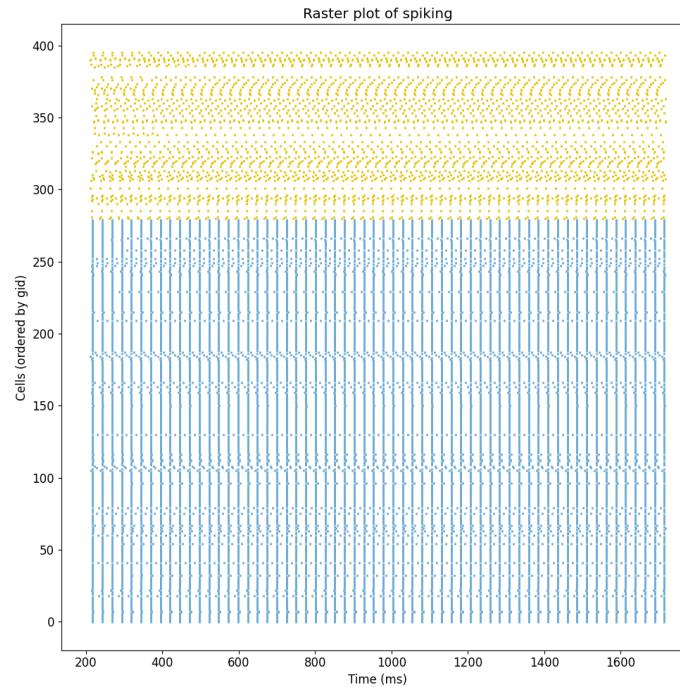
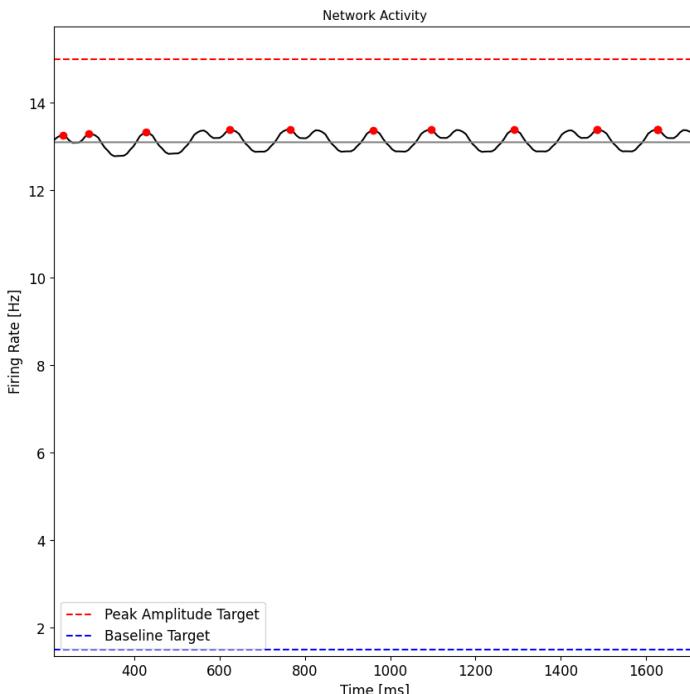
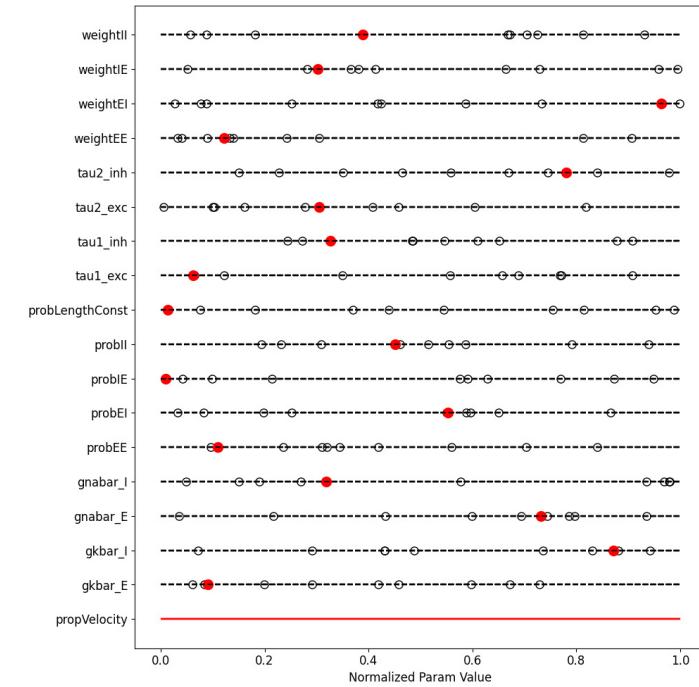
```

```

burstAmp_Fitness: {'Value': 0.2815108162858028, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 33.18777292576419, 'Fit': 1000}
IBI_fitness: {'Value': 24.910714285714285, 'Fit': 66.27324520286736}
baseline_fitness: {'Value': 13.139203660865071, 'Fit': 1000}
slopeFitness: {'Value': 0.0004907411118588423, 'Fit': 1.0009819640350122}
thresh: {'Value': 13.099191139702558, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 15.153788447111777, 'Fit': 1000}
E_rate_fitness: {'Value': 38.96031746031746, 'Fit': 1000}
I_rate_fitness: {'Value': 16.88888888888889, 'Fit': 3.7102939716106484}
maxFitness: 1000
average_fitness: 674.553835682057
average_scaled_fitness: 674.2277435289466

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_1/gen_1_cand_12_data.json

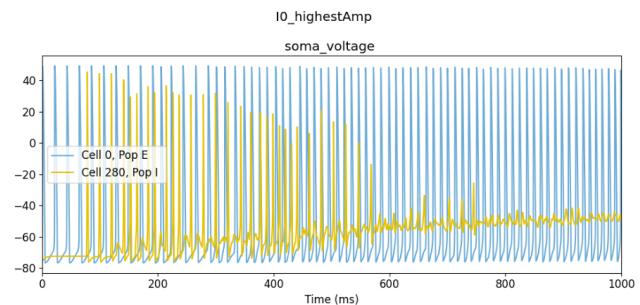
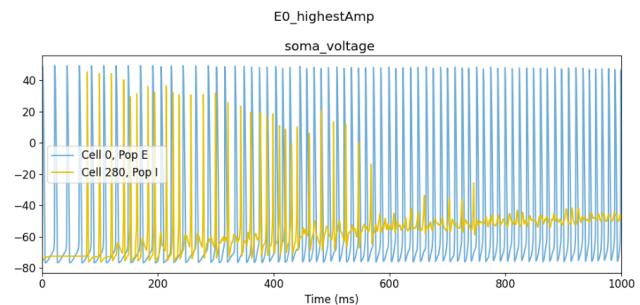
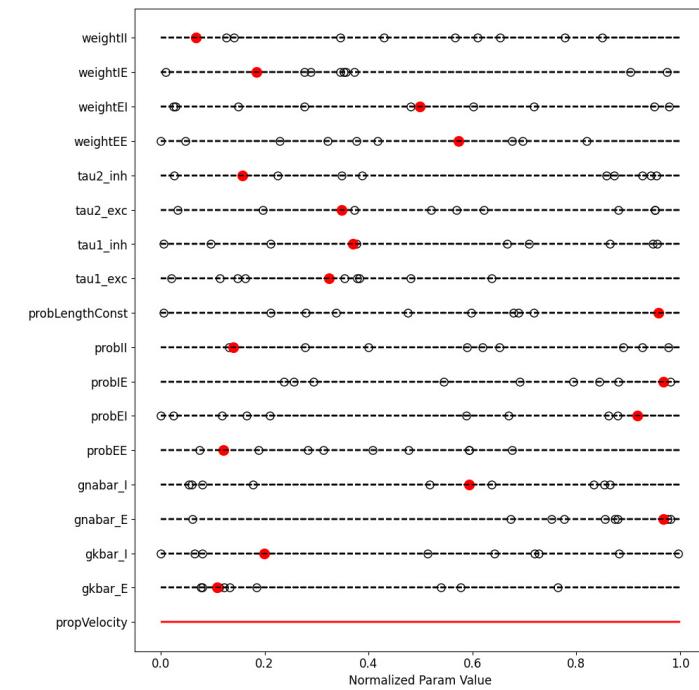
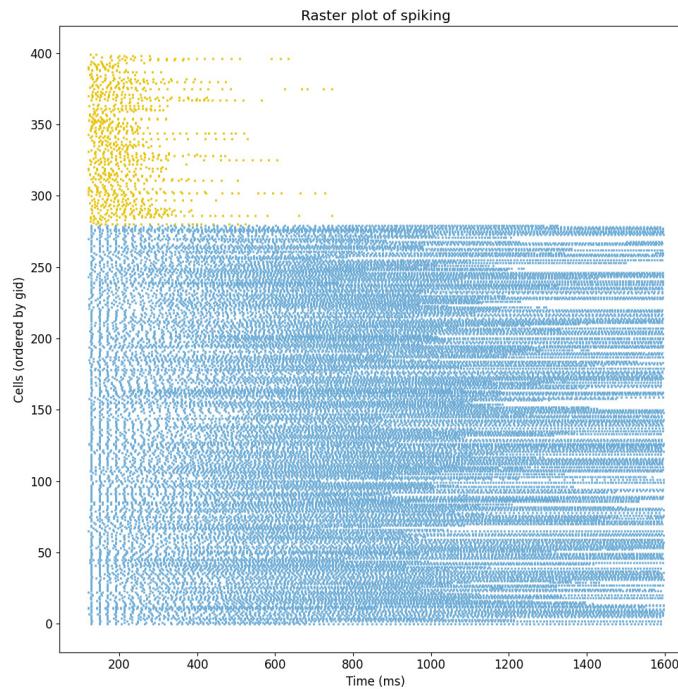
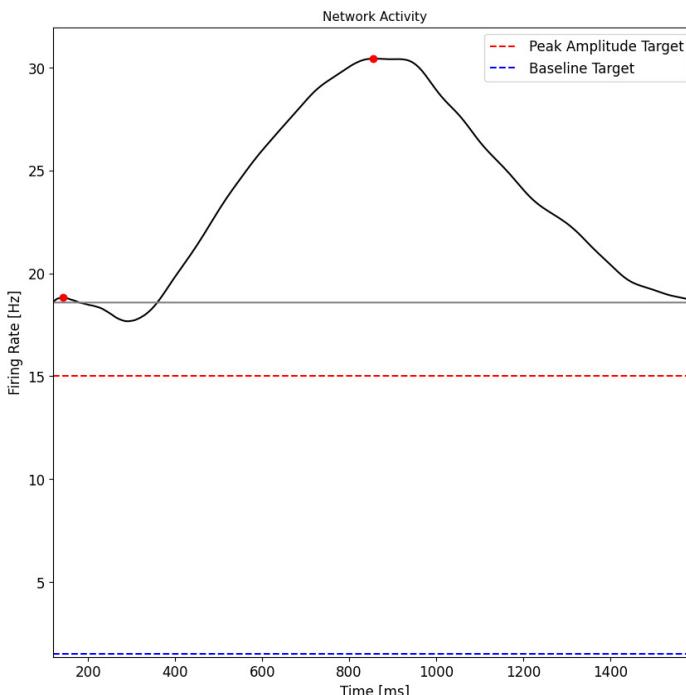
SimLabel: gen_1_cand_12

Generation Rank: 0/10

```
rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 6.051251217378827, 'Fit': 502.4081997292304}
burst_peak_frequency_fitness: {'Value': 1.2519561815336464, 'Fit': 247.5808237243463}
IBI_fitness: {'Value': 712.5, 'Fit': 3.1385157591528174}
baseline_fitness: {'Value': 23.658192835921653, 'Fit': 1000}
slopeFitness: {'Value': 0.008291728281899908, 'Fit': 1.0167217253469596}
thresh: {'Value': 18.577976535369523, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 14.831460674157304, 'Fit': 1000}
E_rate_fitness: {'Value': 82.45238095238095, 'Fit': 1000}
I_rate_fitness: {'Value': 9.87962962962963, 'Fit': 7.478535896286319}
maxFitness: 1000
average_fitness: 529.0691996482625
average_scaled_fitness: 528.5899067649226
```

```
binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0
```



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

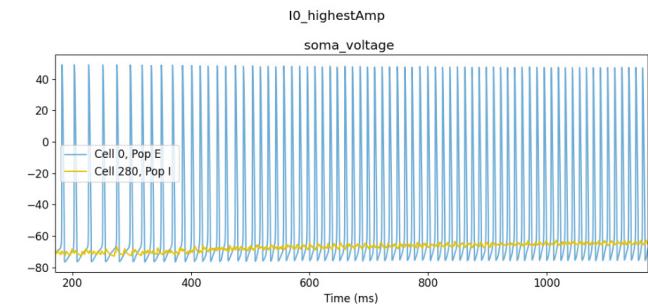
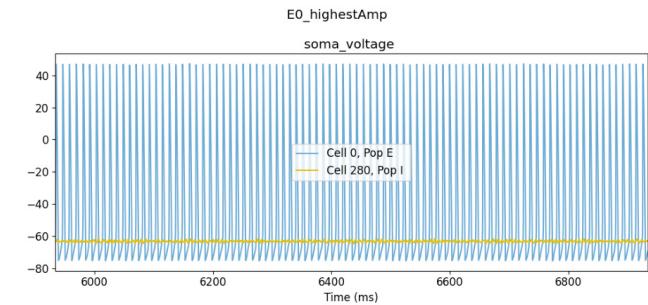
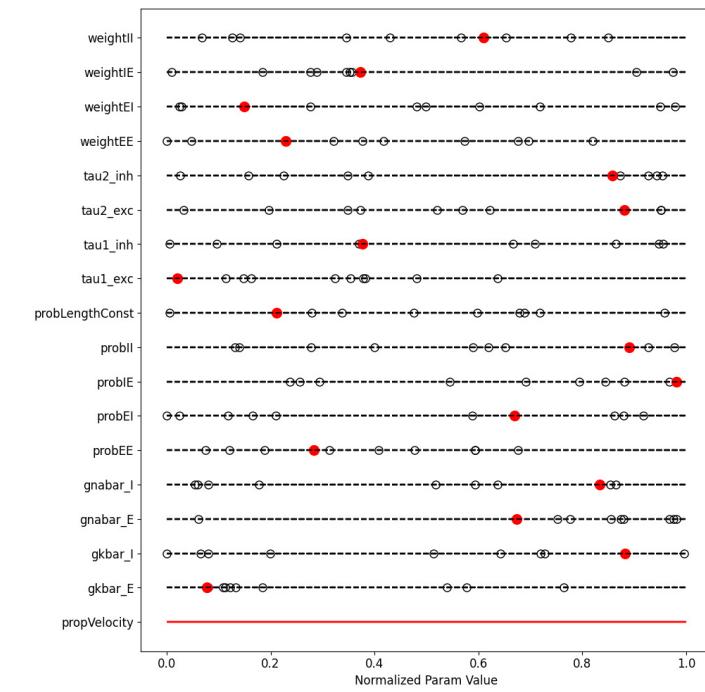
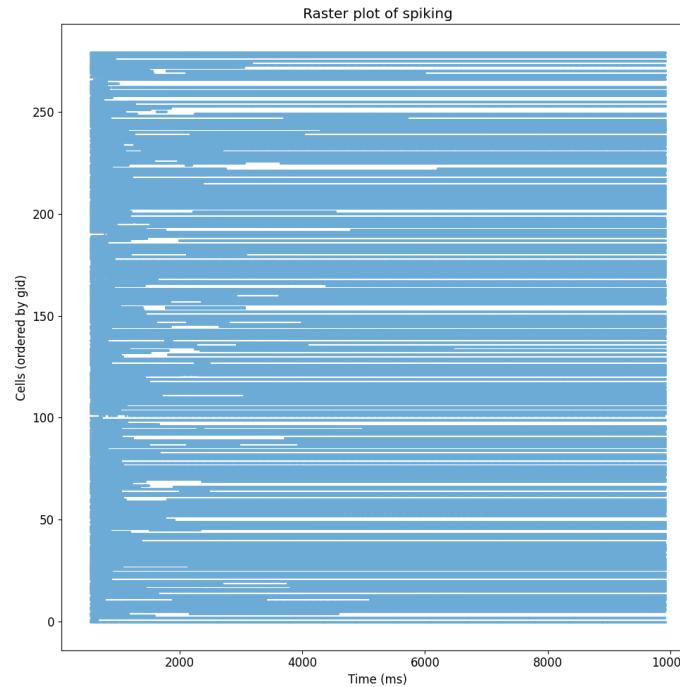
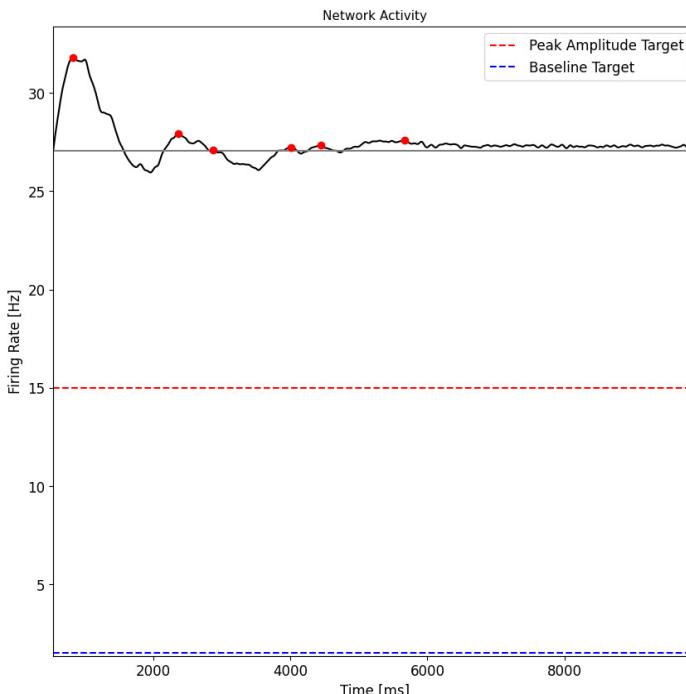
```

```

burstAmp_Fitness: {'Value': 1.1069873756393847, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.6046863189720333, 'Fit': 5.094277820454233}
IBI_fitness: {'Value': 967.5, 'Fit': 2.8272793630799016}
baseline_fitness: {'Value': 27.45610576891555, 'Fit': 1000}
slopeFitness: {'Value': -0.0008995390380236297, 'Fit': 1.001800697387953}
thresh: {'Value': 27.057584221504445, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.78277153558052, 'Fit': 3.467540984972371}
E_rate_fitness: {'Value': 91.01190476190477, 'Fit': 1000}
I_rate_fitness: {'Value': 1.9907407407407407, 'Fit': 1000}
maxFitness: 1000
average_fitness: 556.9323220962106
average_scaled_fitness: 556.488011476808

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

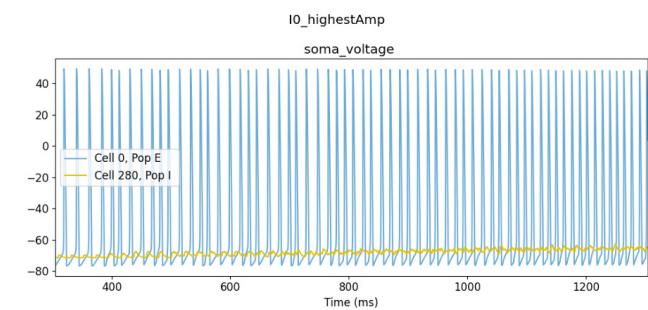
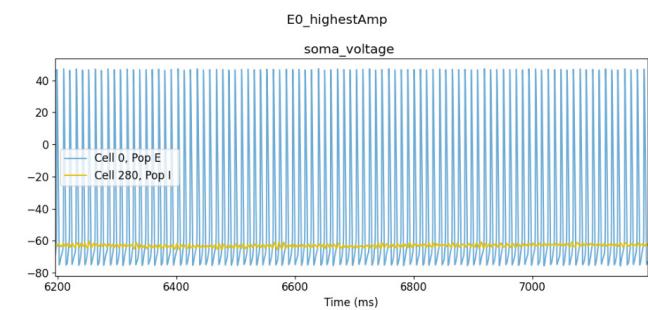
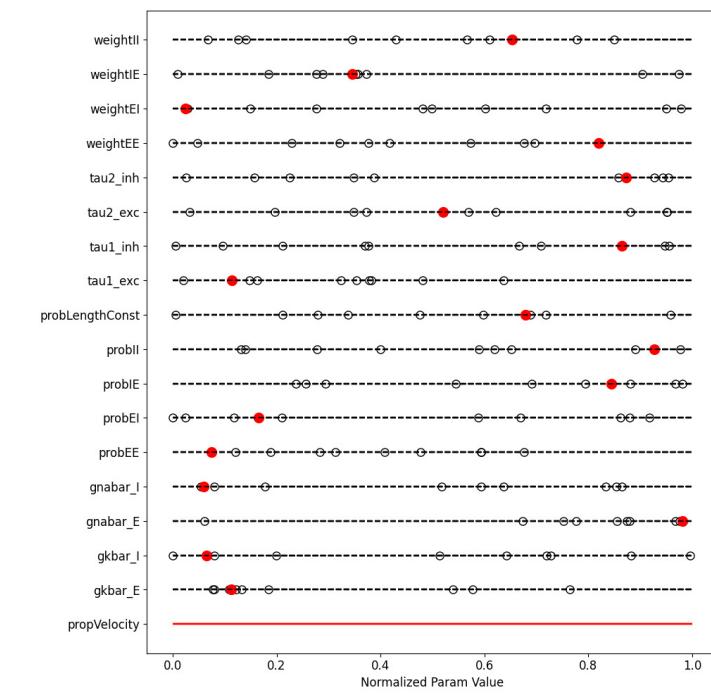
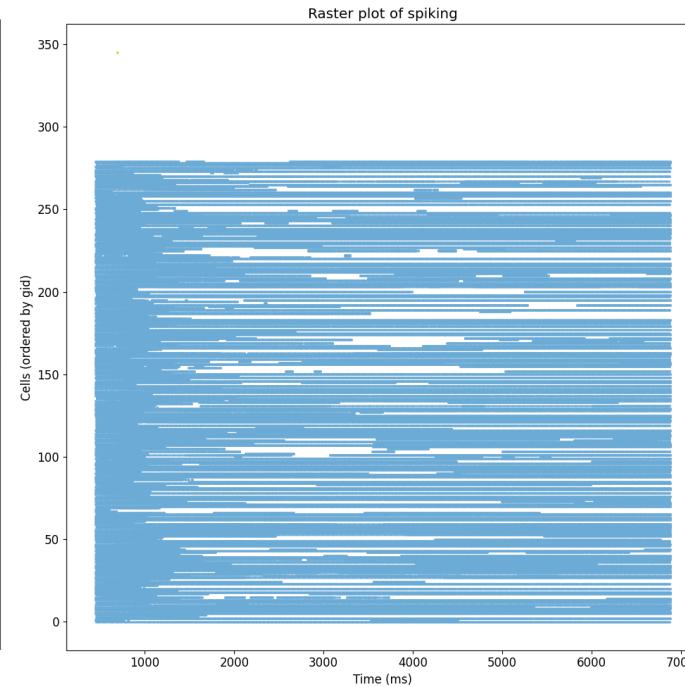
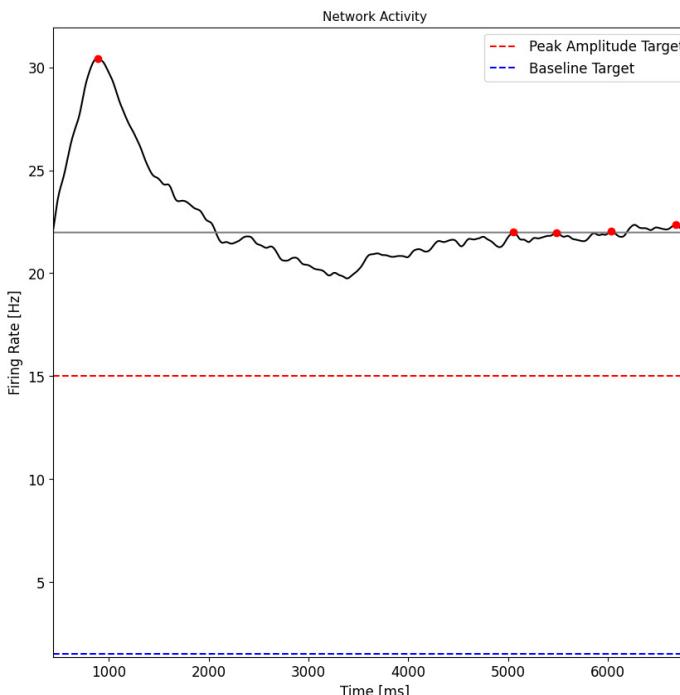
```

```

burstAmp_Fitness: {'Value': 1.4848321476696373, 'Fit': 837.7436136285029}
burst_peak_frequency_fitness: {'Value': 0.8714596949891068, 'Fit': 25.24828341723739}
IBI_fitness: {'Value': 1197.0, 'Fit': 202.86834563558048}
baseline_fitness: {'Value': 22.511758195701436, 'Fit': 1000}
slopeFitness: {'Value': -0.0053747194729081805, 'Fit': 1.0108074217392313}
thresh: {'Value': 21.98048845912233, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 64.41947565543072, 'Fit': 1000}
E_rate_fitness: {'Value': 85.59920634920634, 'Fit': 1000}
I_rate_fitness: {'Value': 0.06481481481481, 'Fit': 1000}
maxFitness: 1000
average_fitness: 674.0967833447844
average_scaled_fitness: 673.7670246320664

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

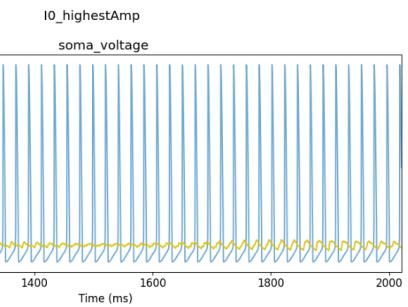
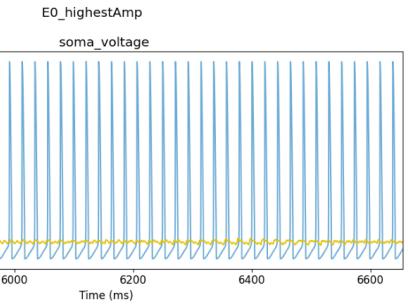
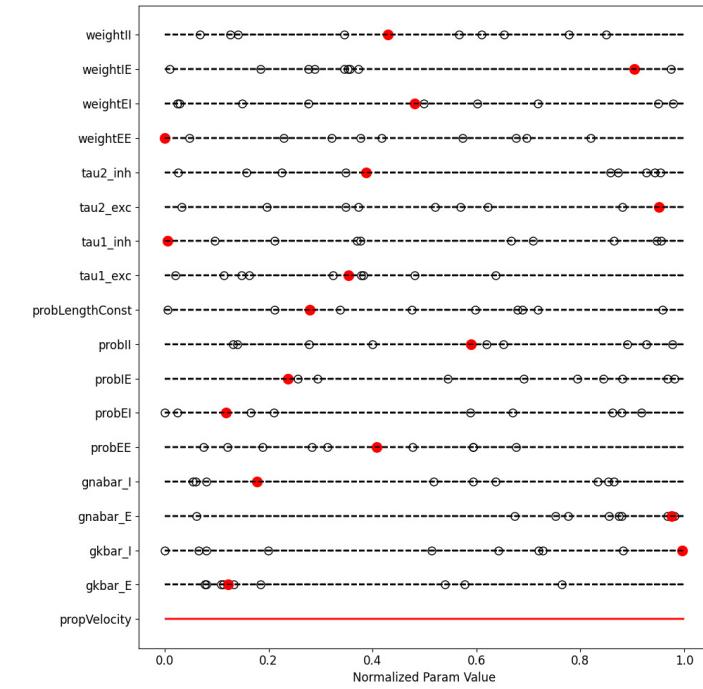
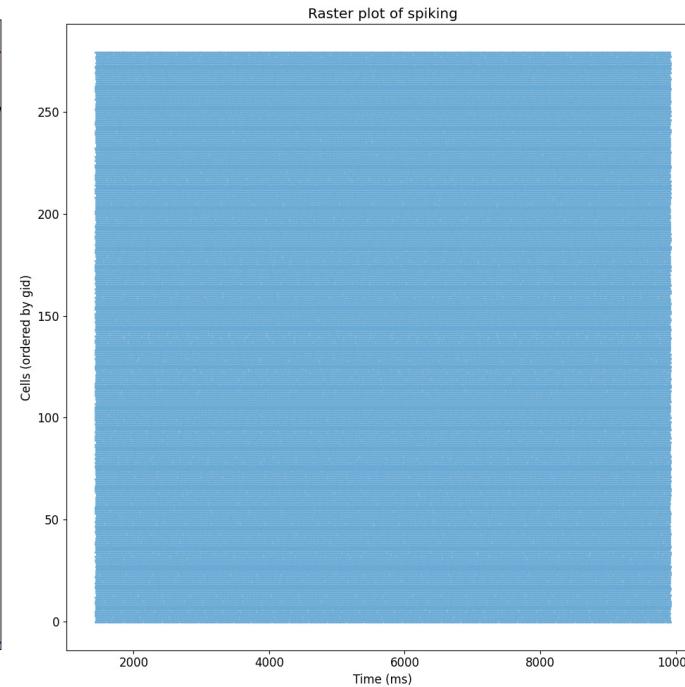
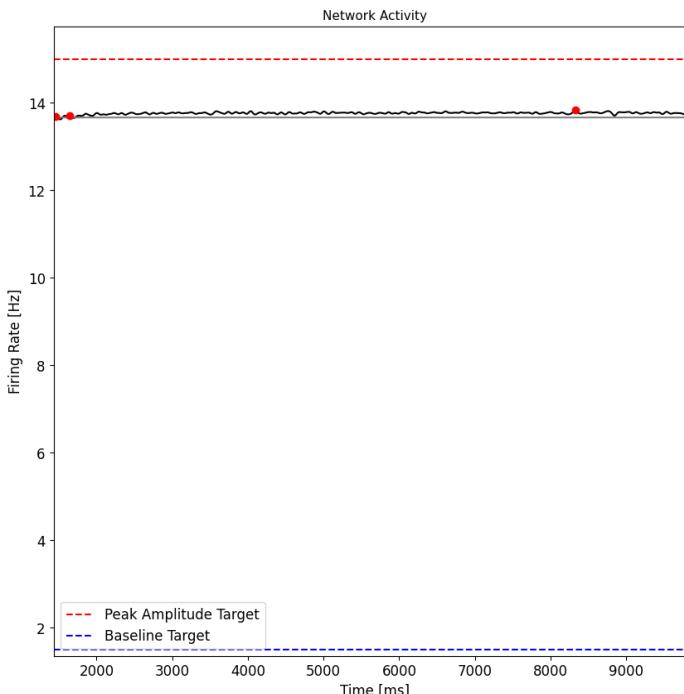
```

```

burstAmp_Fitness: {'Value': 0.07562163005678062, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.30234315948601664, 'Fit': 1.204351253448671}
IBI_fitness: {'Value': 3435.0, 'Fit': 502.03267532491435}
baseline_fitness: {'Value': 13.763134773217592, 'Fit': 1000}
slopeFitness: {'Value': 3.503192568367863e-05, 'Fit': 1.0000700663058963}
thresh: {'Value': 13.665186727293559, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 84.86891385767791, 'Fit': 20.6190875826224}
E_rate_fitness: {'Value': 47.15873015873016, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 613.8729093585879
average_scaled_fitness: 613.4863686456513

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_1/gen_1_cand_75_data.json

SimLabel: gen_1_cand_75

Generation Rank: 5/10

```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

```

```

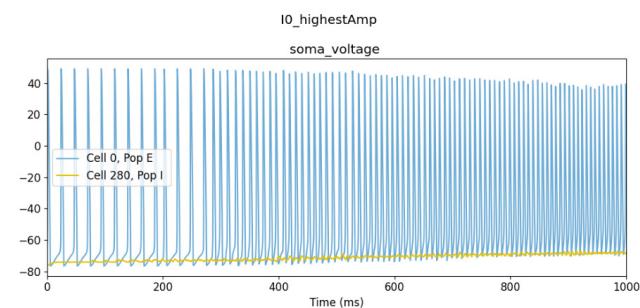
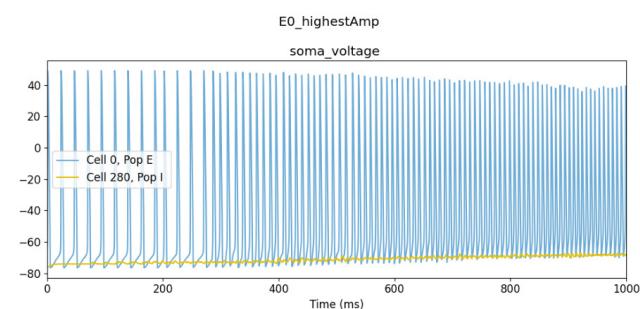
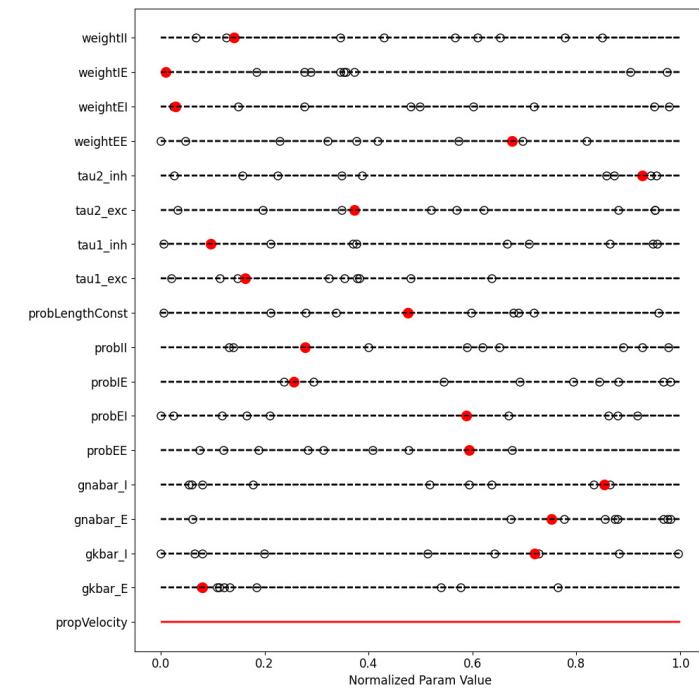
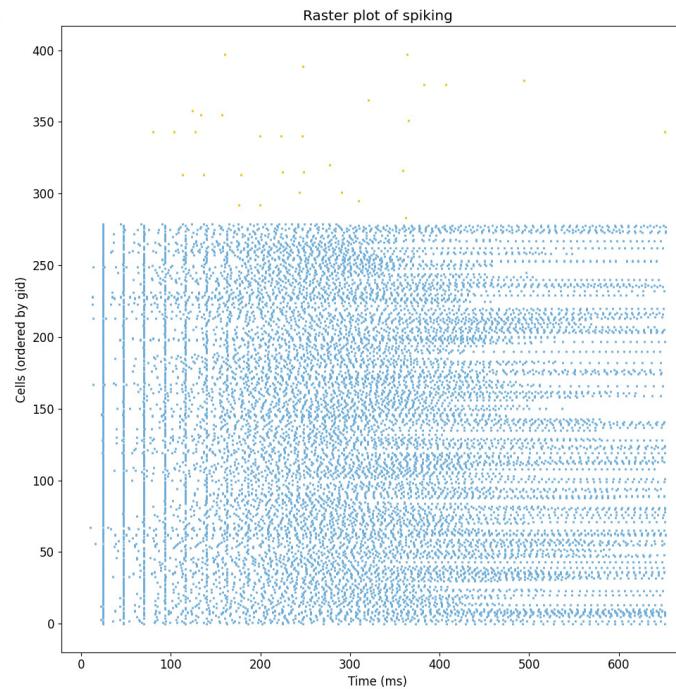
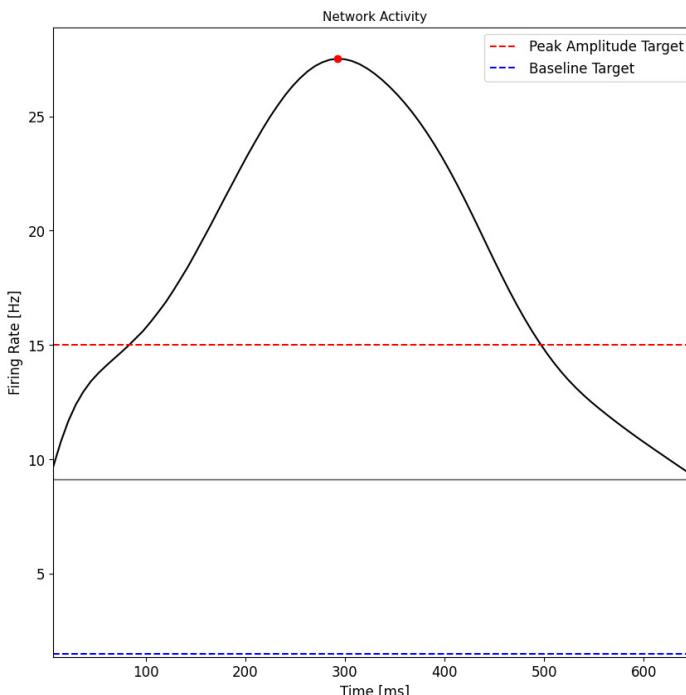
burstAmp_Fitness: {'Value': 18.427692234469983, 'Fit': 5.550267458039679}
burst_peak_frequency_fitness: {'Value': 1.5325670498084292, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 18.503780807389678, 'Fit': 1000}
slopeFitness: {'Value': -0.06195526004204276, 'Fit': 1.1319145828459196}
thresh: {'Value': 9.095743944596784, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 6.51685393258427, 'Fit': 1000}
E_rate_fitness: {'Value': 52.01190476190476, 'Fit': 1000}
I_rate_fitness: {'Value': 0.28703703703703703, 'Fit': 1000}
maxFitness: 1000
average_fitness: 778.5202424489873
average_scaled_fitness: 778.2692621933988

```

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

```



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_1/gen_1_cand_86_data.json

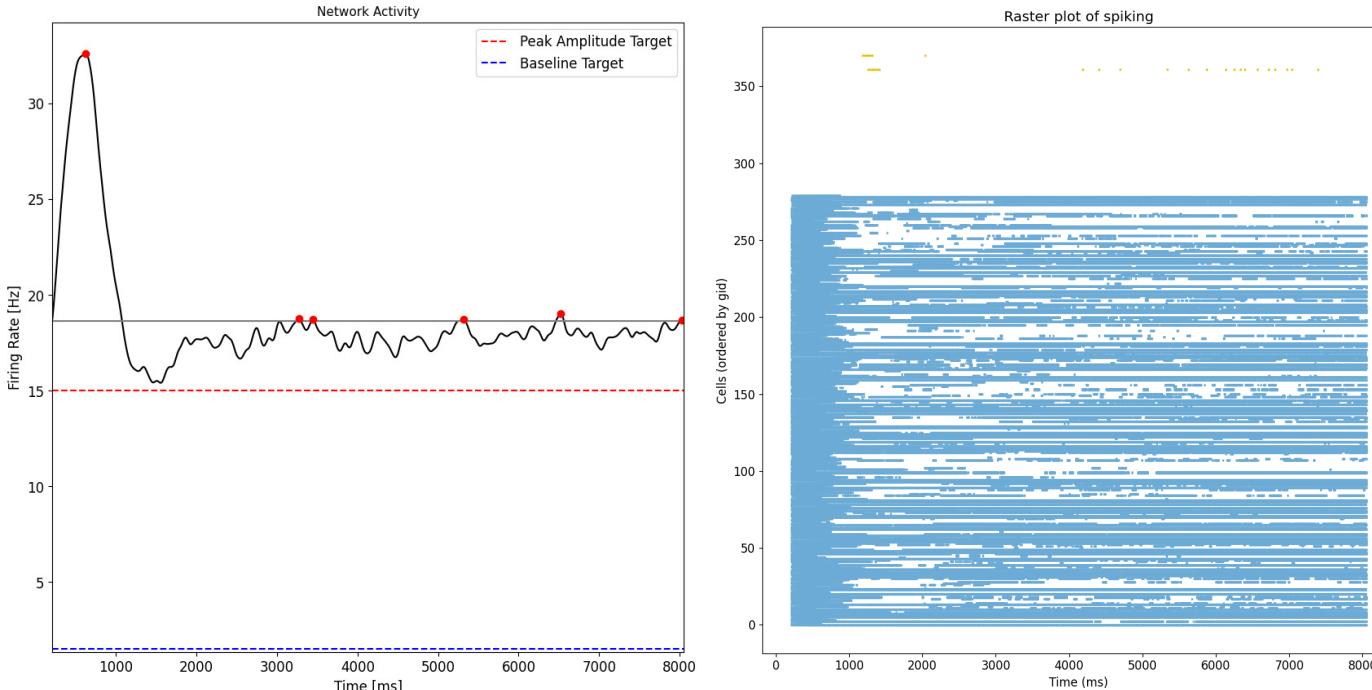
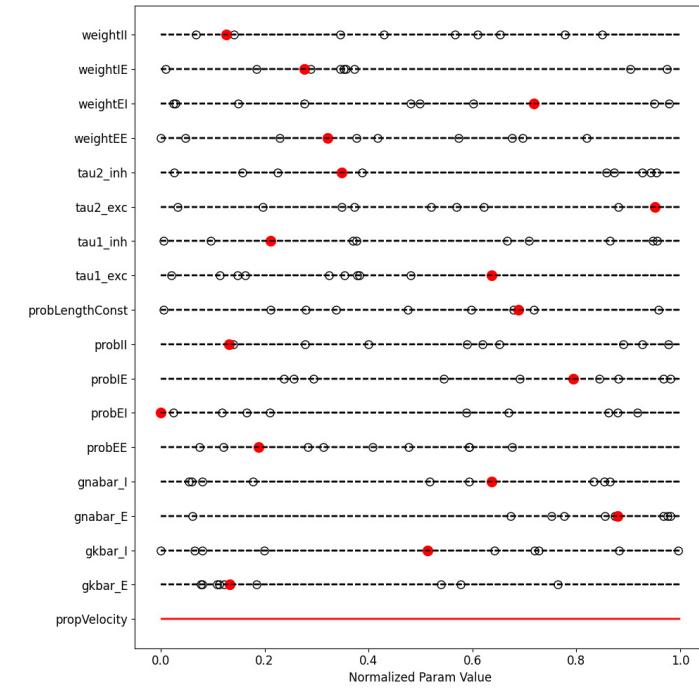
SimLabel: gen_1_cand_86

Generation Rank: 1/10

```
rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 2.438944083227895, 'Fit': 833.6129716034435}
burst_peak_frequency_fitness: {'Value': 0.74487895716946, 'Fit': 11.813863834176814}
IBI_fitness: {'Value': 1482.0, 'Fit': 2.3237215880087096}
baseline_fitness: {'Value': 18.64655135080631, 'Fit': 1000}
slopeFitness: {'Value': -0.004132200358690027, 'Fit': 1.0082986451485505}
thresh: {'Value': 18.6281184118134, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 78.54463615903975, 'Fit': 73.0447866072018}
E_rate_fitness: {'Value': 92.4563492063492, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 546.8670713642199
average_scaled_fitness: 546.409716896314
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_2/gen_2_cand_4_data.json

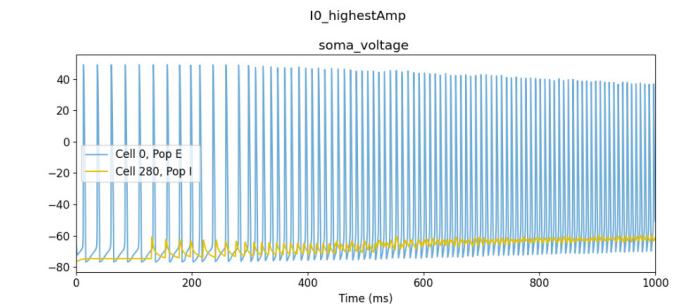
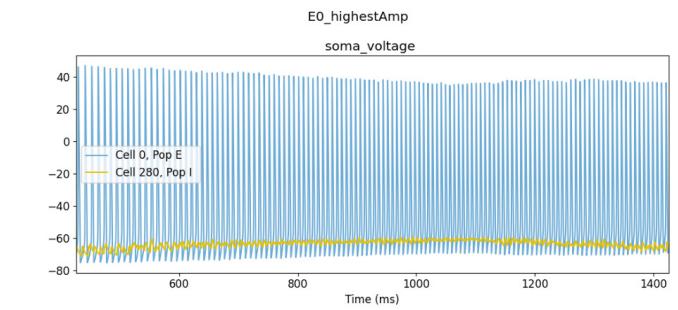
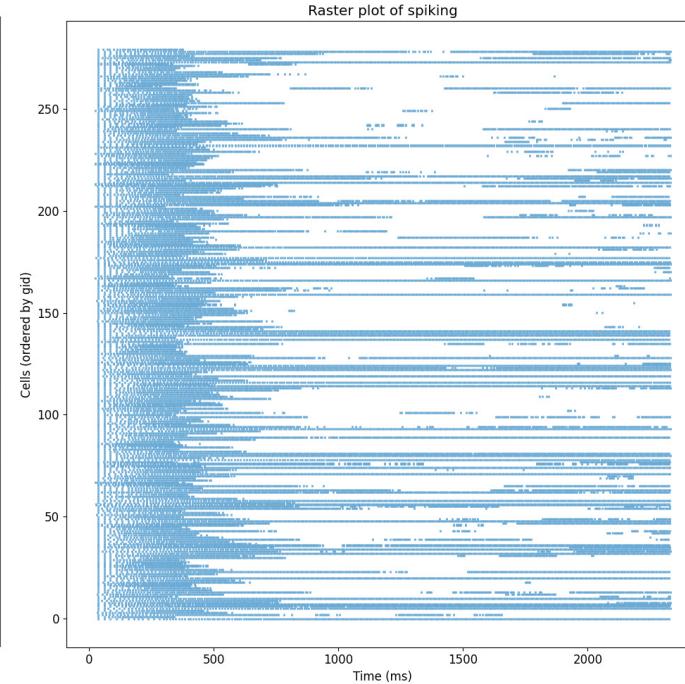
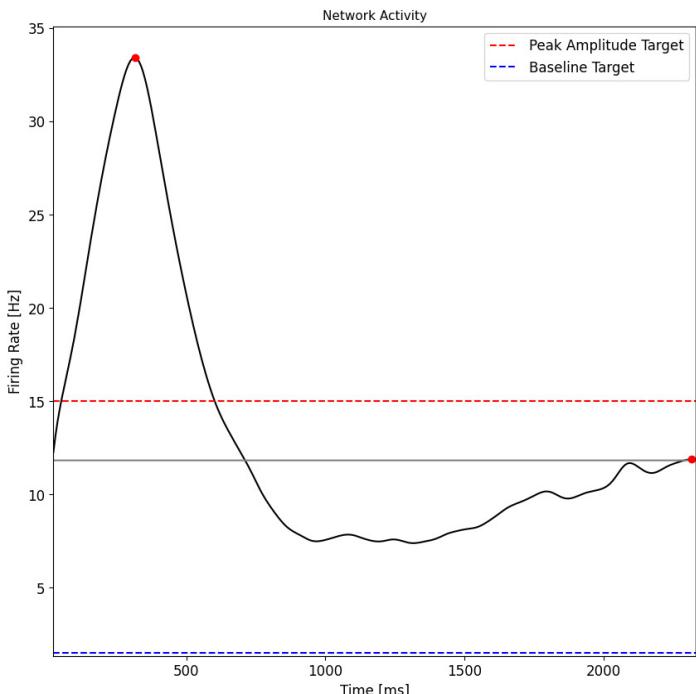
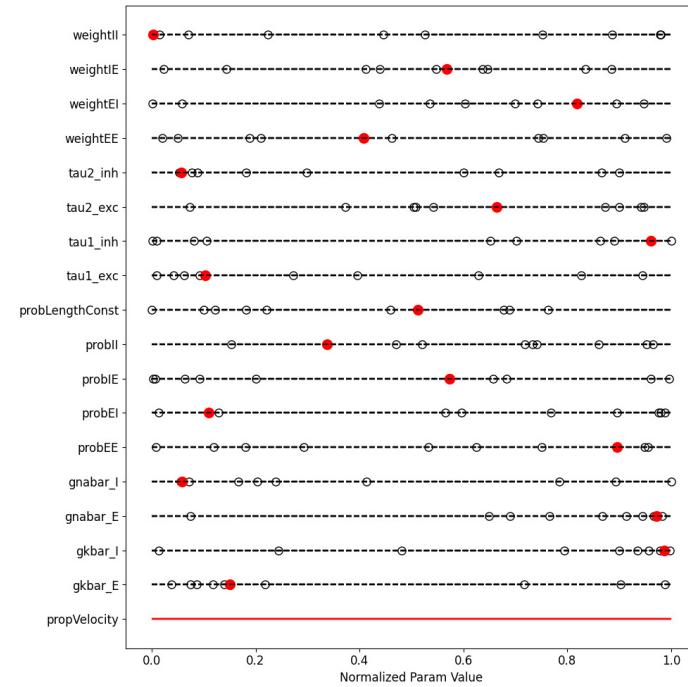
SimLabel: gen_2_cand_4

Generation Rank: 3/10

```
rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_osc: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 10.81887622875981, 'Fit': 513.4478535188213}
burst_peak_frequency_fitness: {'Value': 0.857449088960343, 'Fit': 23.212583729570586}
IBI_fitness: {'Value': 2002.5, 'Fit': 1.6466616566387202}
baseline_fitness: {'Value': 13.150850604828607, 'Fit': 1000}
slopeFitness: {'Value': -0.050055323585841256, 'Fit': 1.1052932088773995}
thresh: {'Value': 11.828551214953904, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 23.1807951987997, 'Fit': 1000}
E_rate_fitness: {'Value': 67.66666666666666, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 615.4902657904343
average_scaled_fitness: 615.0647995274942
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

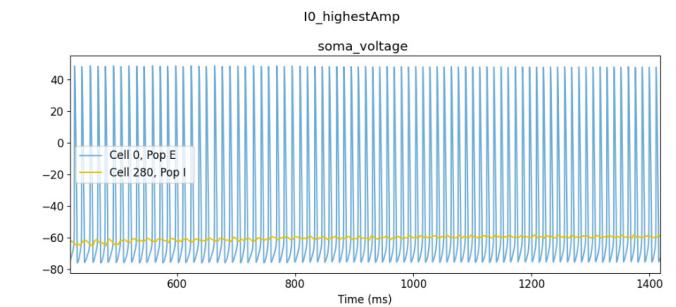
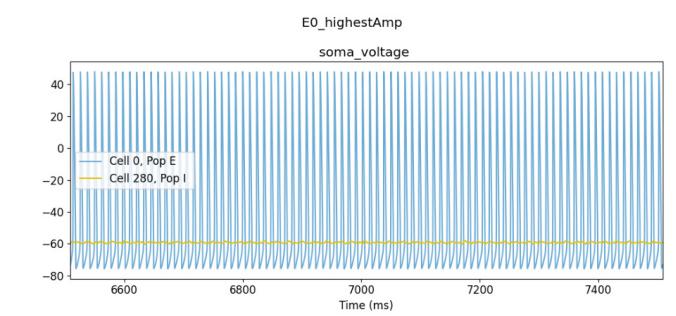
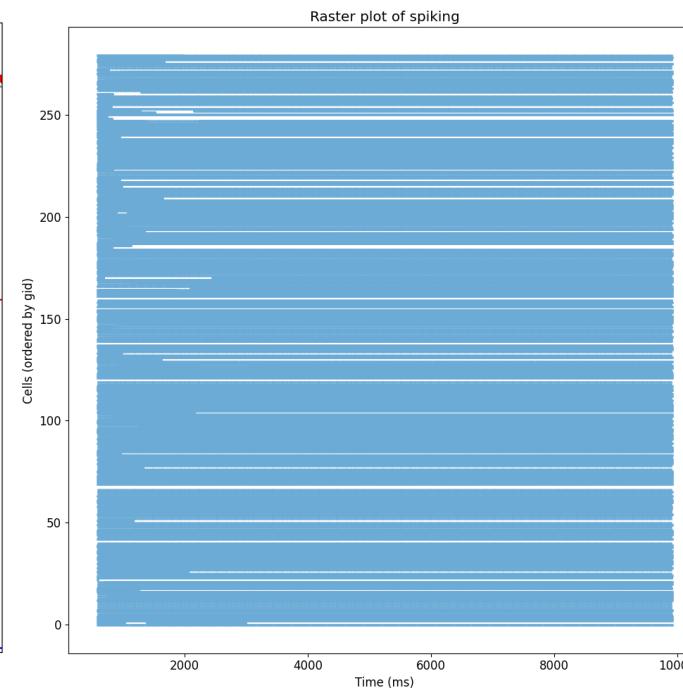
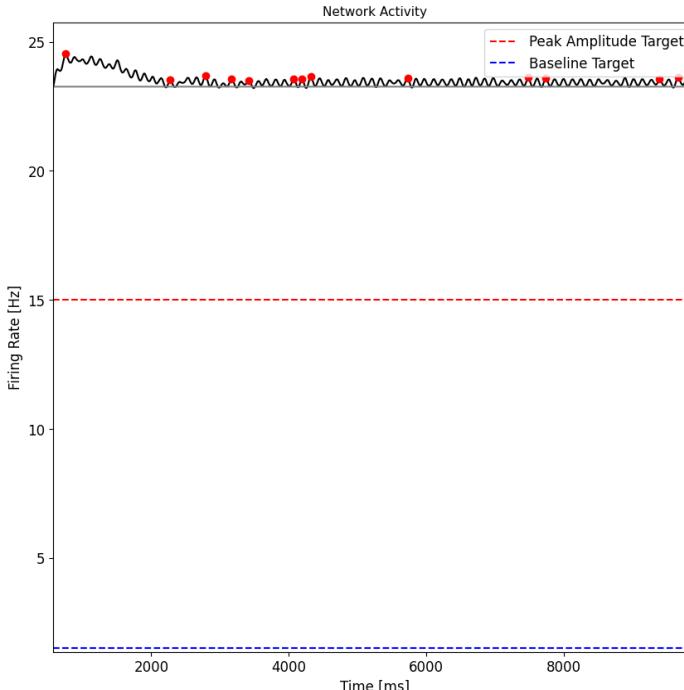
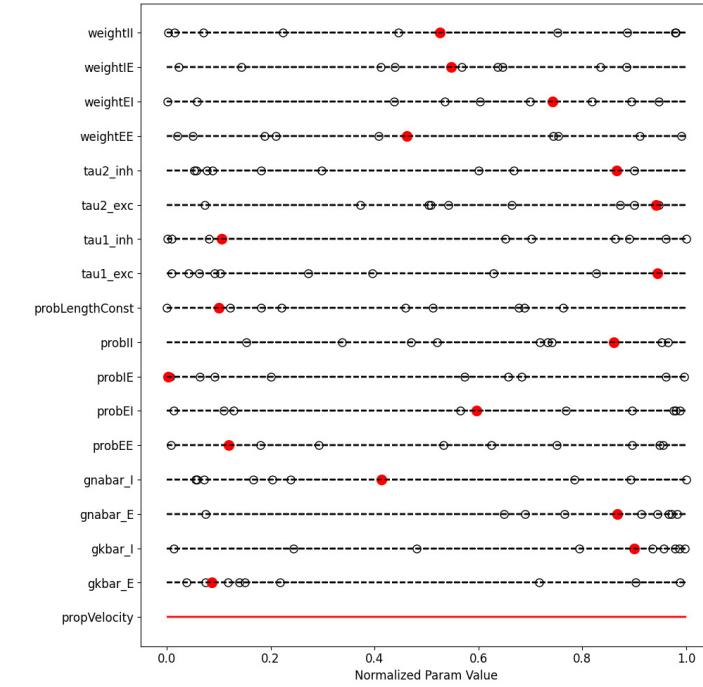
```

```

burstAmp_Fitness: {'Value': 0.3905569064028909, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.4109347442680777, 'Fit': 642.6552781397521}
IBI_fitness: {'Value': 703.2692307692307, 'Fit': 3.288582855788597}
baseline_fitness: {'Value': 23.511326279376366, 'Fit': 1000}
slopeFitness: {'Value': -0.0003826534231025252, 'Fit': 1.00076559976821}
thresh: {'Value': 23.26314840913939, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.40823970037452, 'Fit': 3.737257523381867}
E_rate_fitness: {'Value': 79.42063492063492, 'Fit': 1000}
I_rate_fitness: {'Value': 0.5462962962962963, 'Fit': 1000}
maxFitness: 1000
average_fitness: 627.8535426798545
average_scaled_fitness: 627.4807382174115

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_2/gen_2_cand_53_data.json

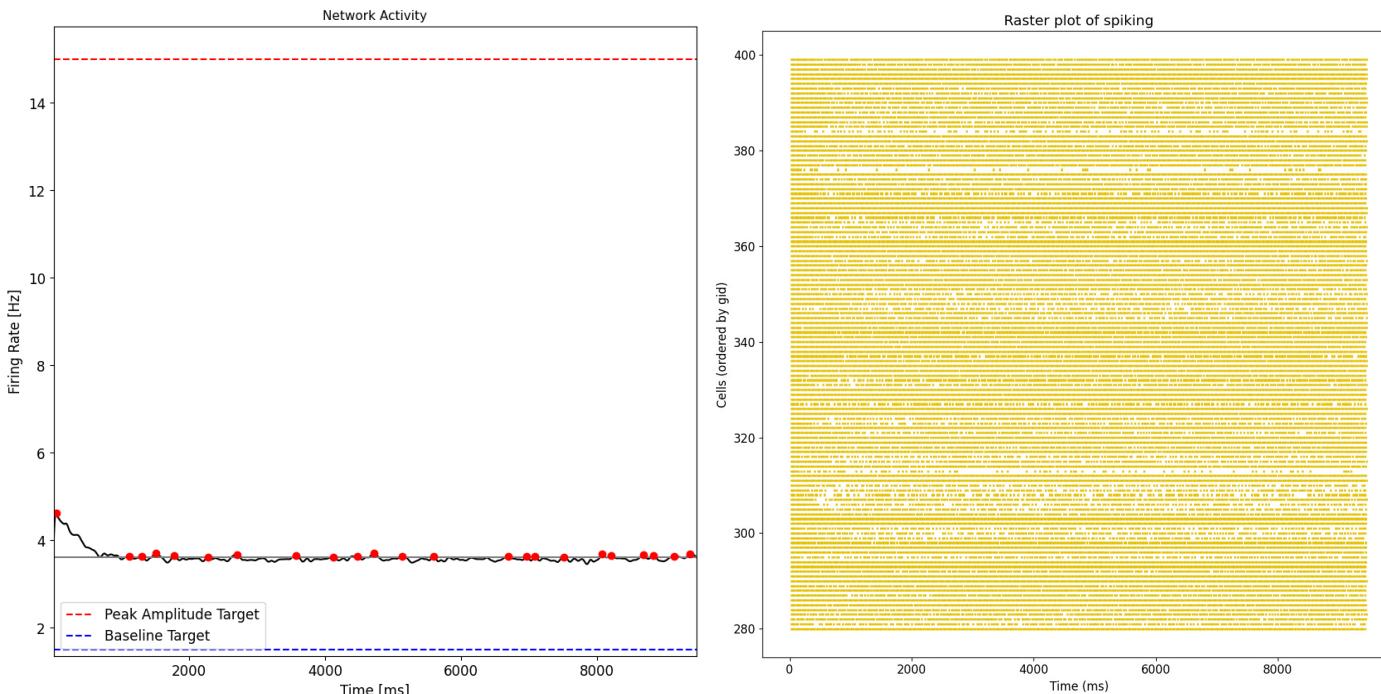
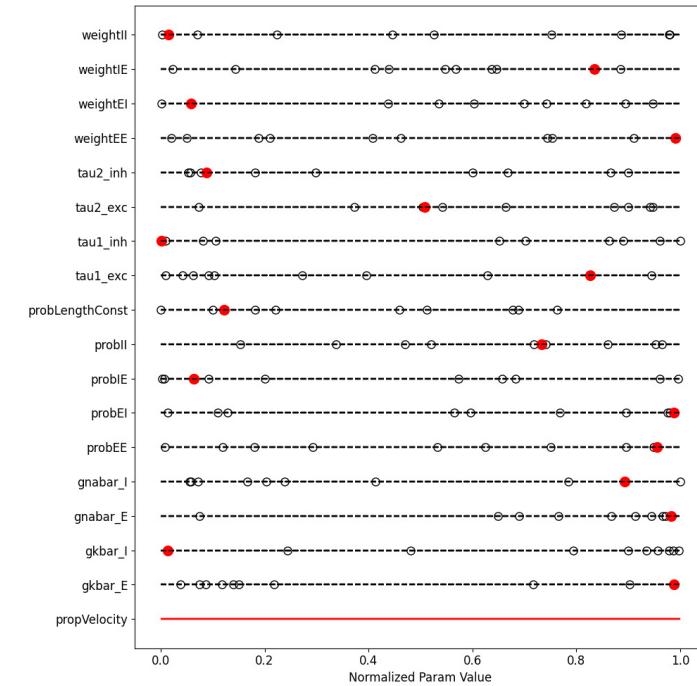
SimLabel: gen_2_cand_53

Generation Rank: 0/10

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

burstAmp_Fitness: {'Value': 0.07773663584517833, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.4319323288395456, 'Fit': 1000}
IBI_fitness: {'Value': 423.75, 'Fit': 3.6575369947486553}
baseline_fitness: {'Value': 3.615724213048618, 'Fit': 1000}
slopeFitness: {'Value': -0.00017643126343716608, 'Fit': 1.000352924790179}
thresh: {'Value': 3.609932930063488, 'Fit': 4.015119337762716}
sustain_oscillation_fitness: {'Value': 94.45692883895131, 'Fit': 3.0301563904818645}
E_rate_fitness: {'Value': 0.0, 'Fit': 1000}
I_rate_fitness: {'Value': 32.907407407407405, 'Fit': 1.337417801050218}
maxFitness: 1000
average_fitness: 445.8933981609815
average_scaled_fitness: 445.3385409481505

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

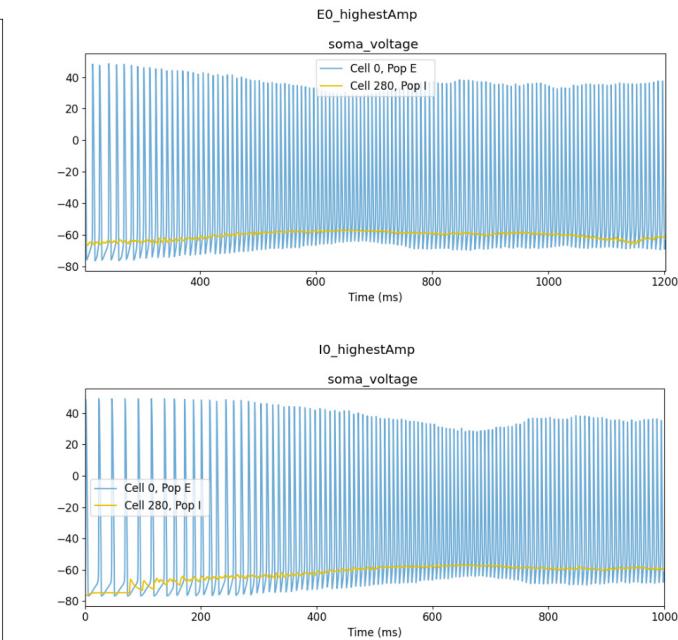
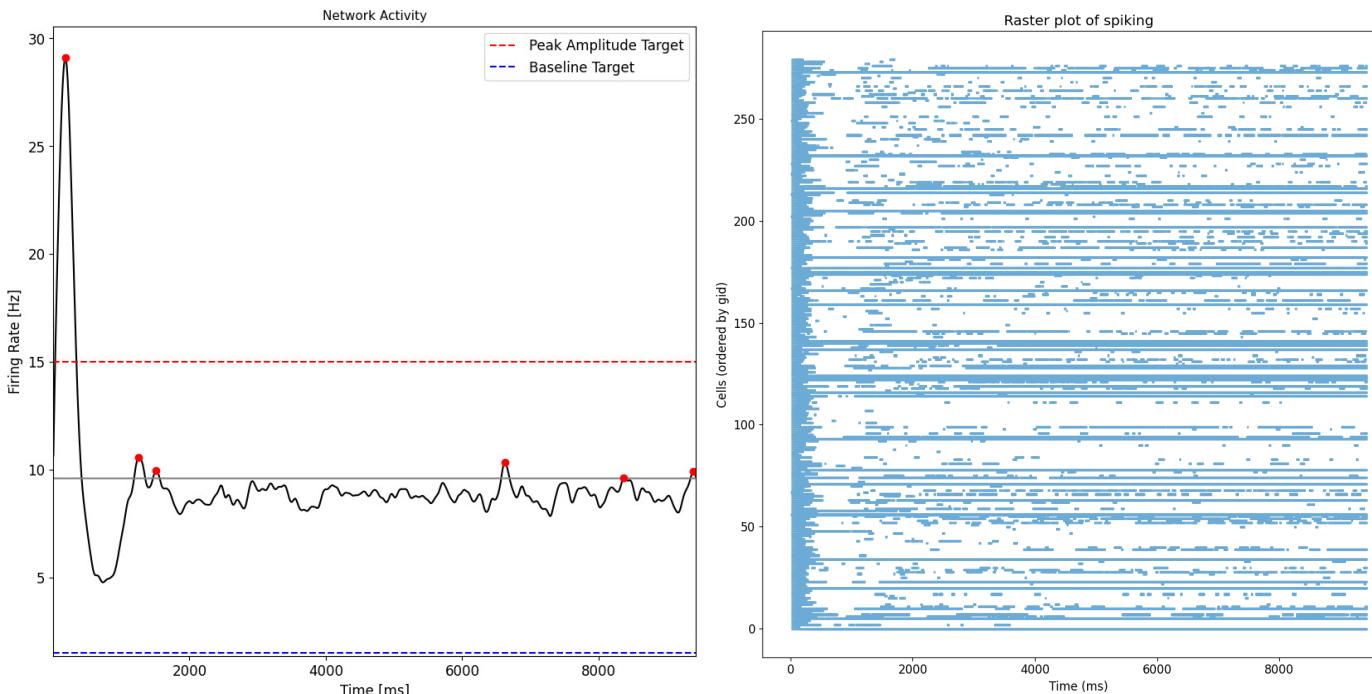
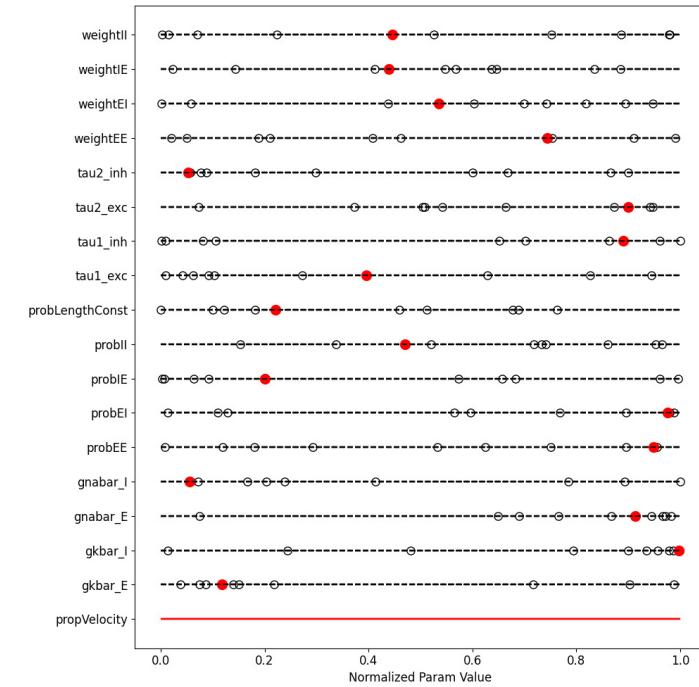
```

```

burstAmp_Fitness: {'Value': 3.660948534939299, 'Fit': 834.9185222597633}
burst_peak_frequency_fitness: {'Value': 0.6364359586316627, 'Fit': 6.163320976226348}
IBI_fitness: {'Value': 1842.0, 'Fit': 202.22374301025235}
baseline_fitness: {'Value': 9.172475426473422, 'Fit': 1000}
slopeFitness: {'Value': -0.0016552164103827776, 'Fit': 1.0033159183549898}
thresh: {'Value': 9.586165398928538, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 94.15730337078652, 'Fit': 3.2172897926452535}
E_rate_fitness: {'Value': 41.38492063492064, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 560.8362435508047
average_scaled_fitness: 560.3951810381548

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

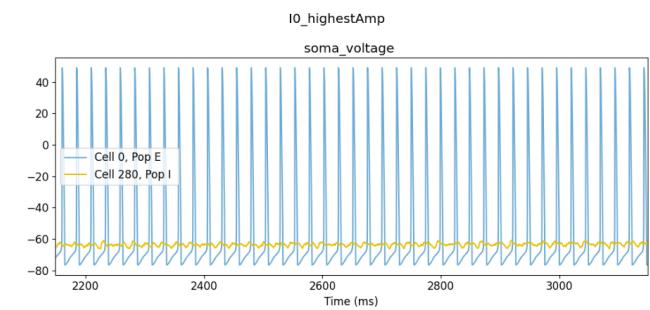
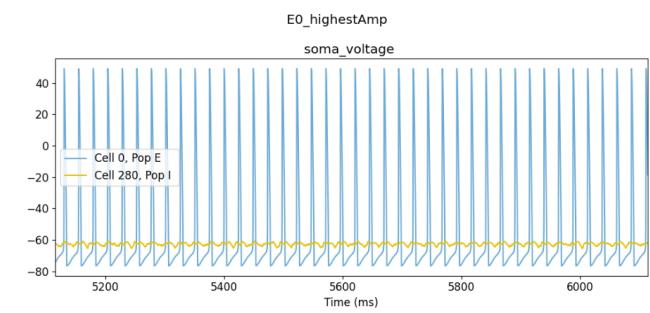
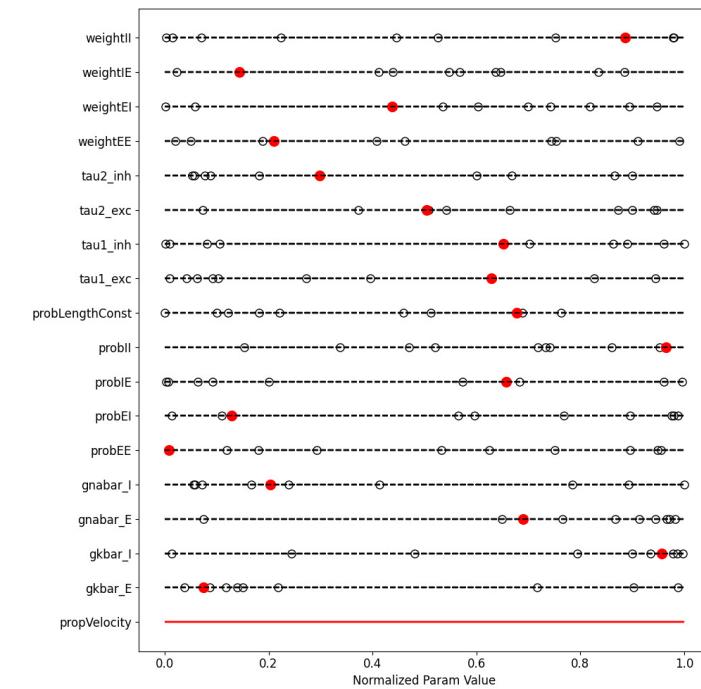
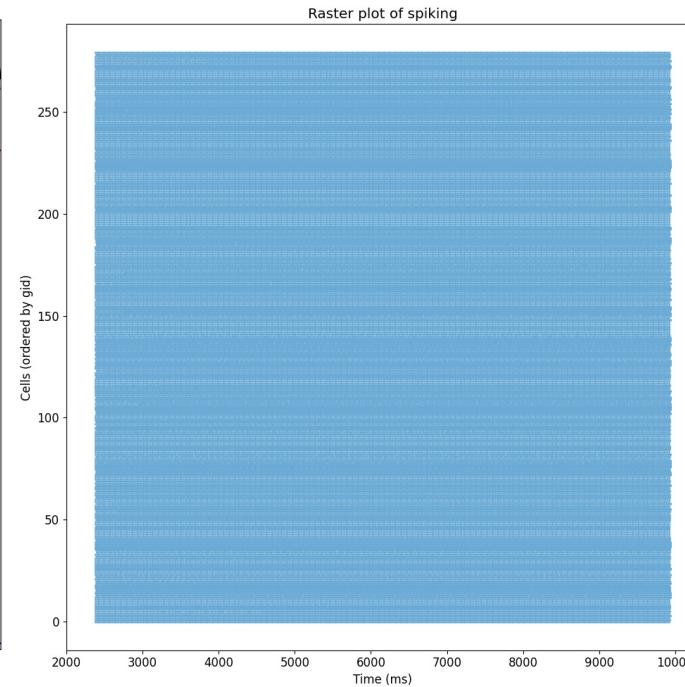
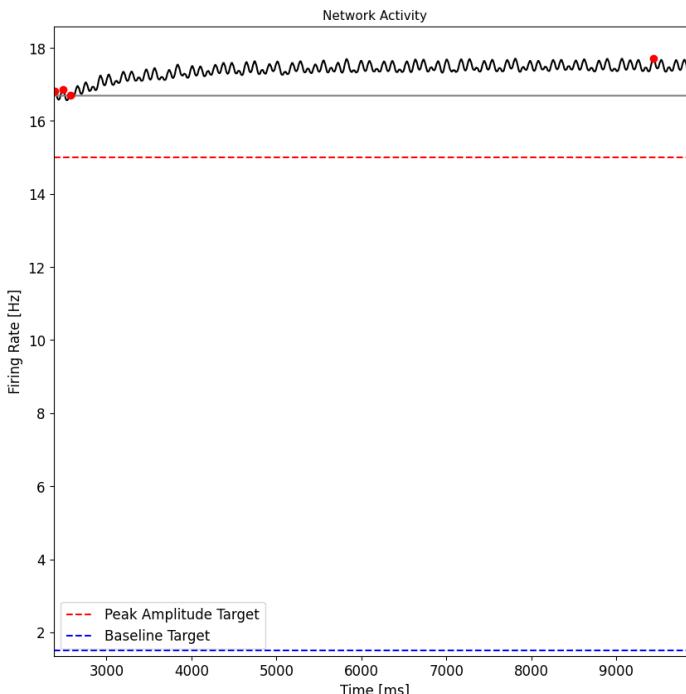
```

```

burstAmp_Fitness: {'Value': 0.3352378677103225, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.4025157232704403, 'Fit': 1.5145136125953995}
IBI_fitness: {'Value': 2347.5, 'Fit': 336.1843100686204}
baseline_fitness: {'Value': 17.383437071027142, 'Fit': 1000}
slopeFitness: {'Value': 0.0004860590358961773, 'Fit': 1.000972590731713}
thresh: {'Value': 16.691161962970142, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 75.58052434456928, 'Fit': 132.14438242763921}
E_rate_fitness: {'Value': 44.547619047619044, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 607.8715754110651
average_scaled_fitness: 607.4786723207807

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

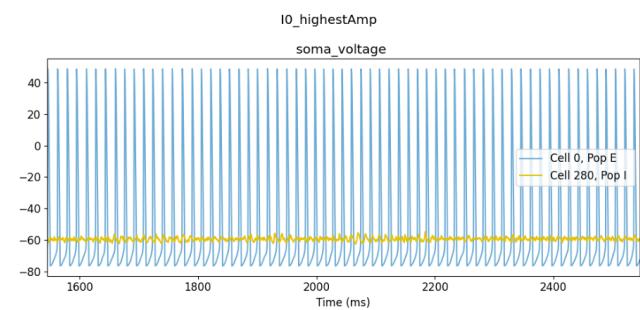
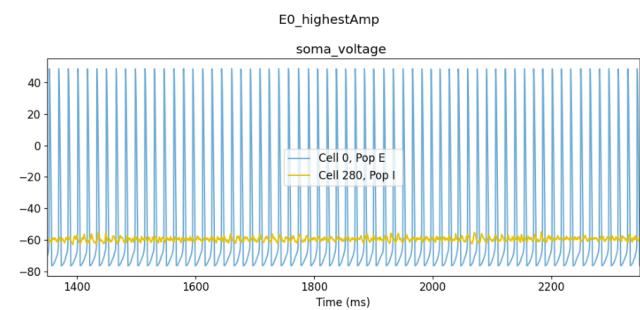
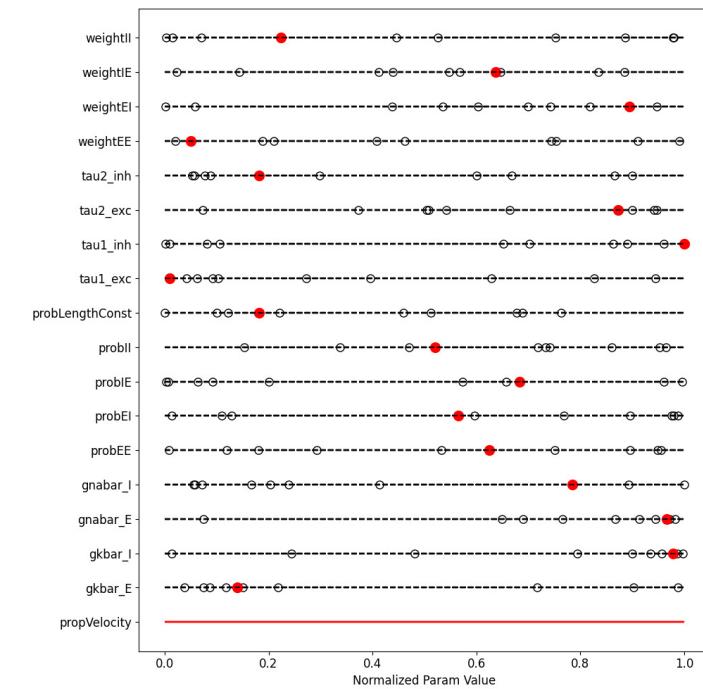
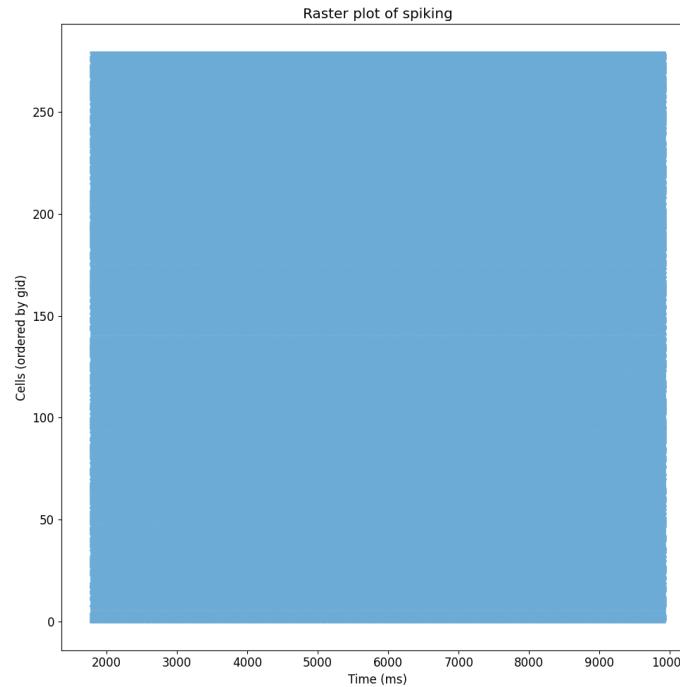
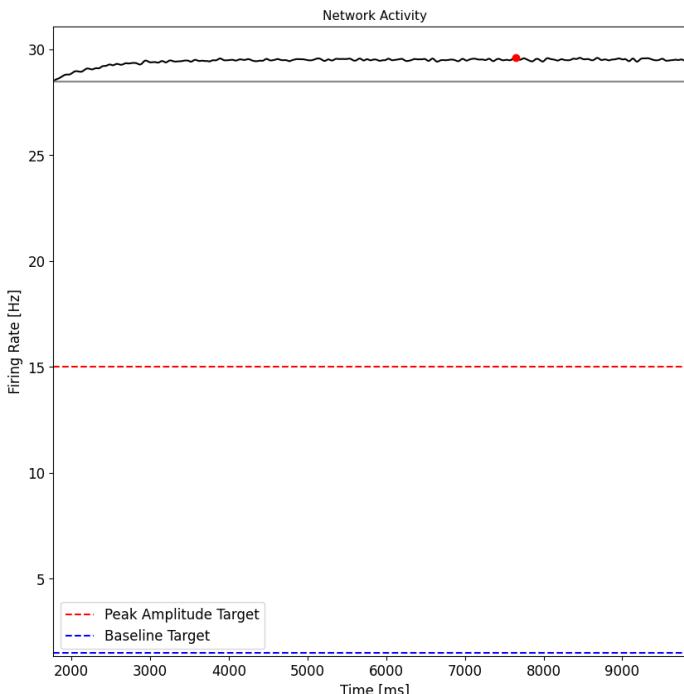
```

```

burstAmp_Fitness: {'Value': 1.1310247465091905, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.10062893081761007, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 29.430656798866433, 'Fit': 1000}
slopeFitness: {'Value': 0.000323128482262411, 'Fit': 1.0006464658335488}
thresh: {'Value': 28.46511698760203, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 81.64794007490637, 'Fit': 39.26808038907836}
E_rate_fitness: {'Value': 73.37301587301587, 'Fit': 1000}
I_rate_fitness: {'Value': 3.898148148148148, 'Fit': 13.60156942777554}
maxFitness: 1000
average_fitness: 672.6522551425209
average_scaled_fitness: 672.3243676790992

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_3/gen_3_cand_52_data.json

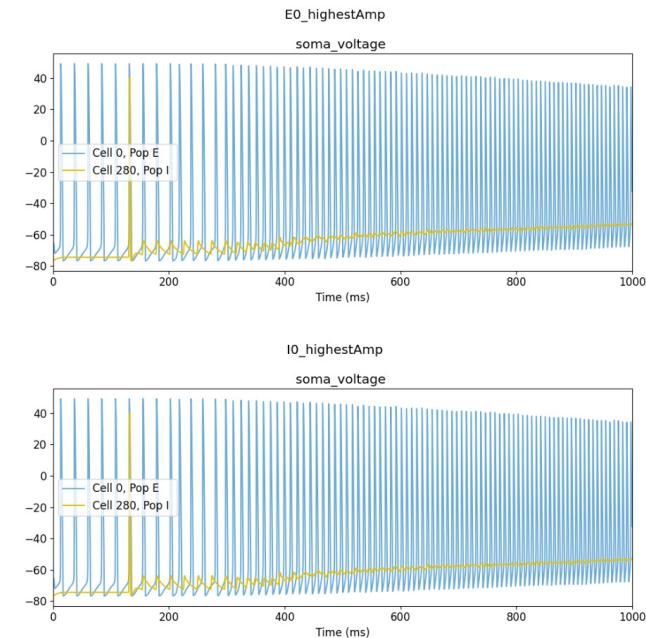
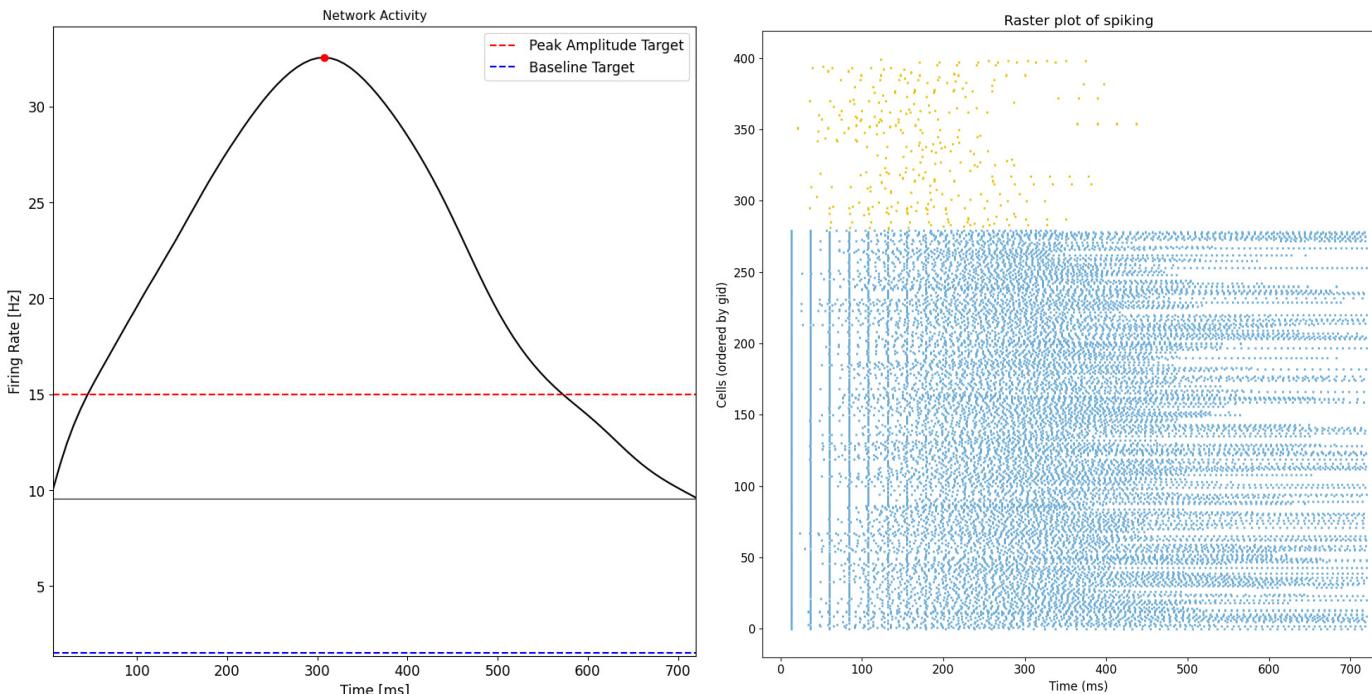
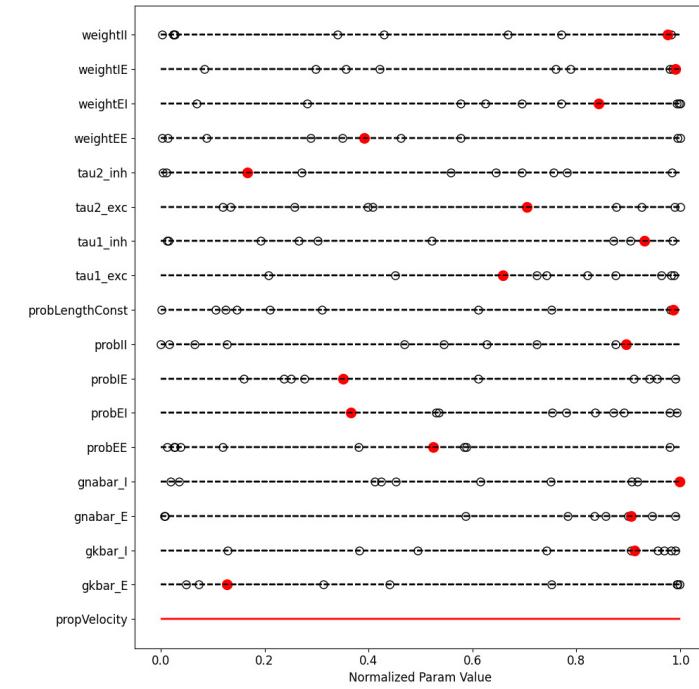
SimLabel: gen_3_cand_52

Generation Rank: 0/10

```
rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 23.010717674954222, 'Fit': 54.89151799929151}
burst_peak_frequency_fitness: {'Value': 1.3888888888888888, 'Fit': 563.0302368359517}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 21.46205448193332, 'Fit': 1000}
slopeFitness: {'Value': -0.10229538484522104, 'Fit': 1.2270228272733044}
thresh: {'Value': 9.543153168670422, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 7.201800450112527, 'Fit': 1000}
E_rate_fitness: {'Value': 63.61904761904762, 'Fit': 1000}
I_rate_fitness: {'Value': 2.5185185185185186, 'Fit': 15.61369085288756}
maxFitness: 1000
average_fitness: 626.0847187239337
average_scaled_fitness: 625.6253524854811
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

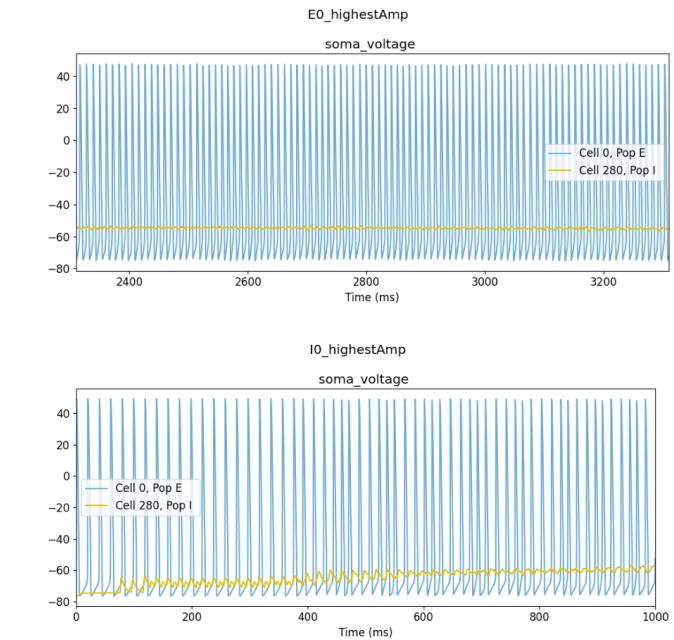
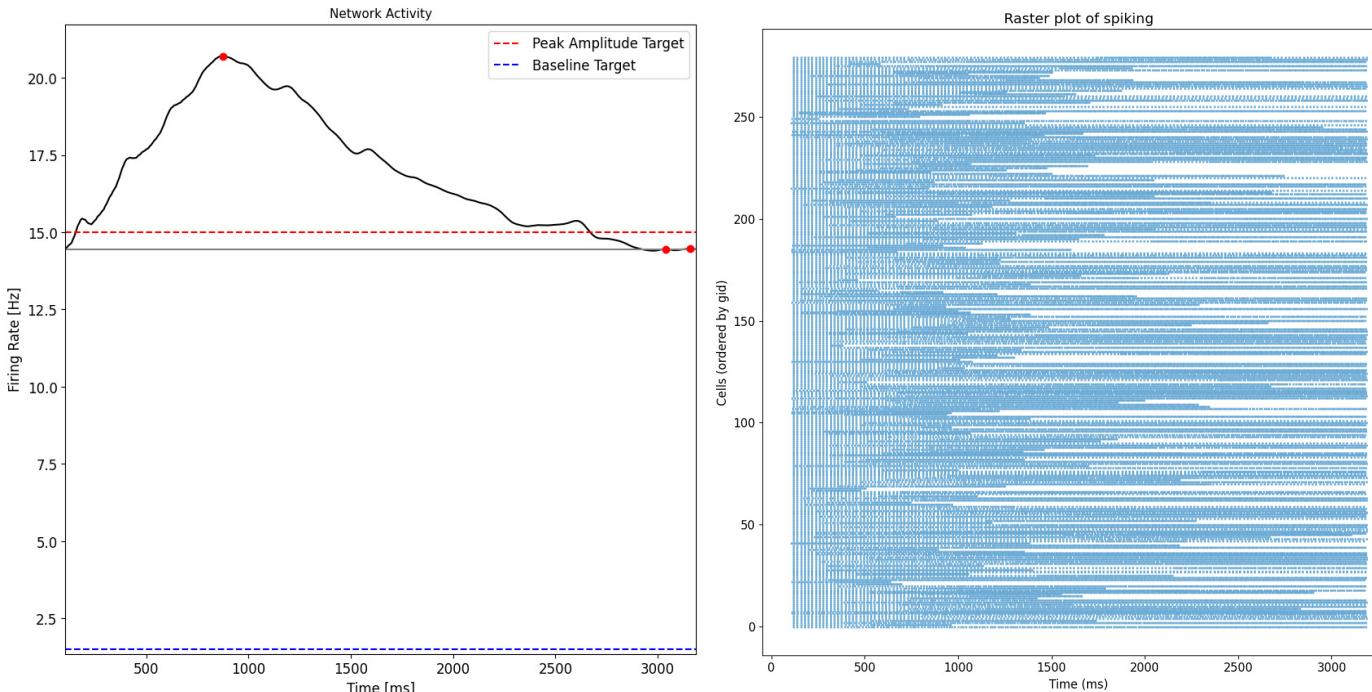
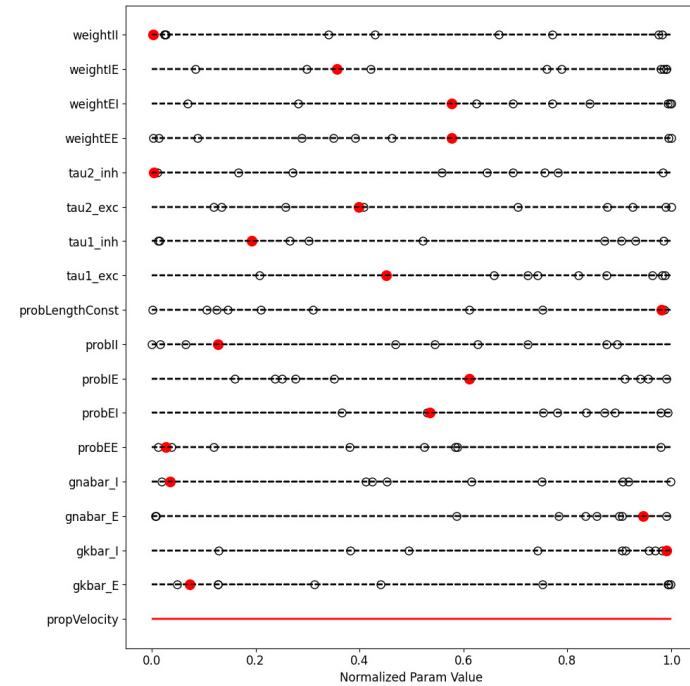
```

```

burstAmp_Fitness: {'Value': 2.091876360729589, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.9411764705882353, 'Fit': 38.3616715164204}
IBI_fitness: {'Value': 1140.0, 'Fit': 2.871328686307593}
baseline_fitness: {'Value': 16.926867967646416, 'Fit': 1000}
slopeFitness: {'Value': -0.010581367381430958, 'Fit': 1.021388253488974}
thresh: {'Value': 14.444512253029488, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 30.861423220973784, 'Fit': 1000}
E_rate_fitness: {'Value': 63.99603174603174, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 671.3615987173574
average_scaled_fitness: 671.0255881173621

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

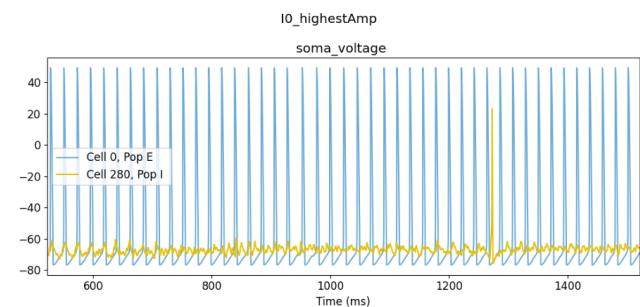
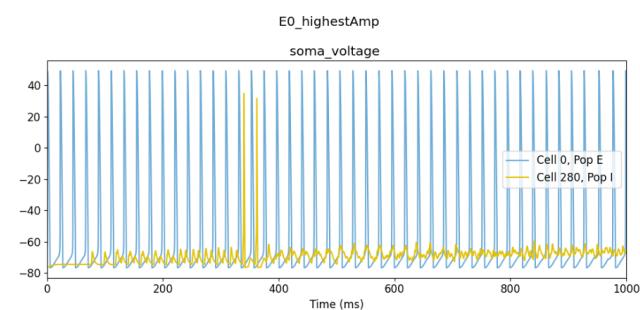
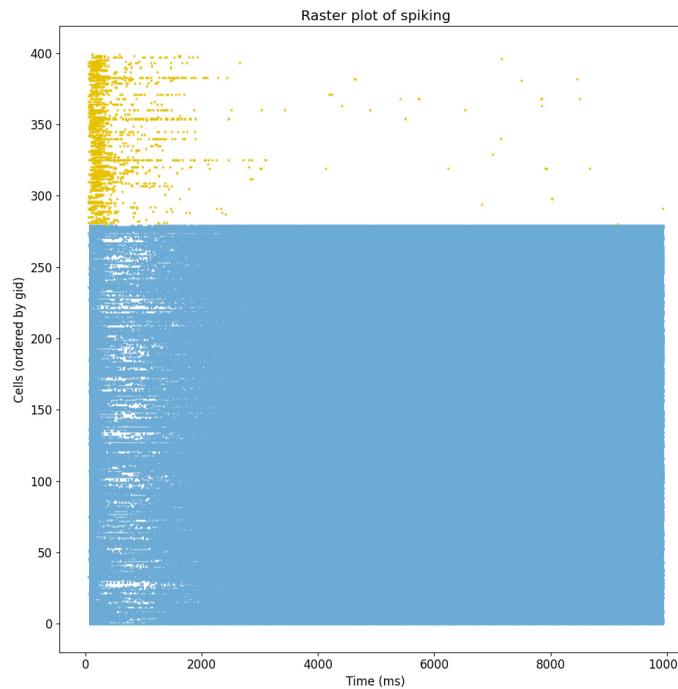
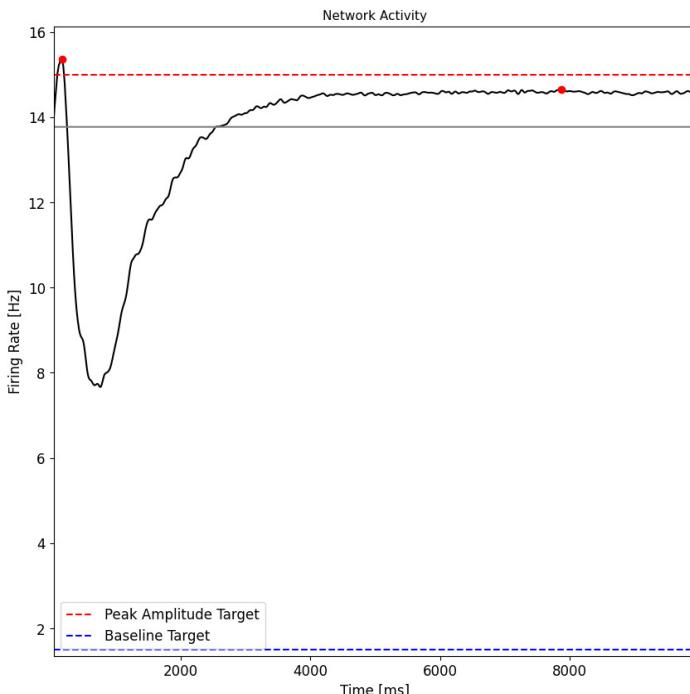
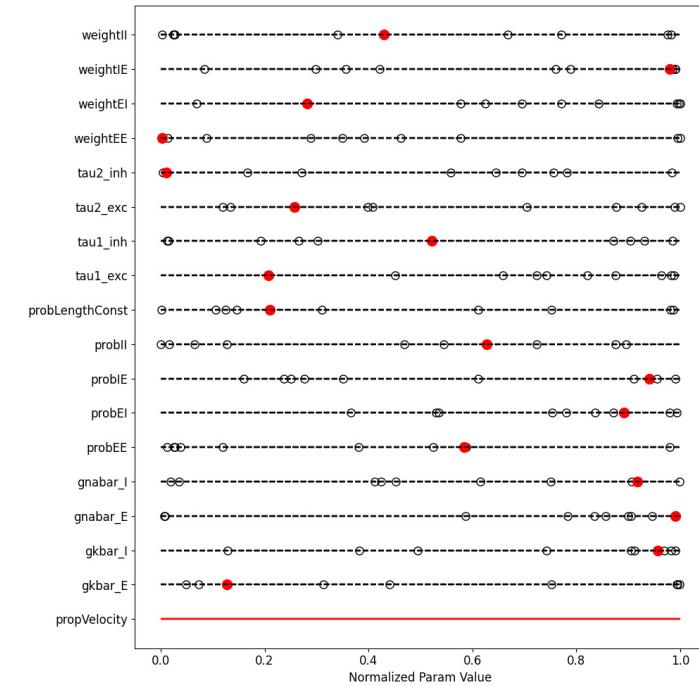
```

```

burstAmp_Fitness: {'Value': 1.2330694197655143, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20110608345902464, 'Fit': 1000}
IBI_fitness: {'Value': 7695.0, 'Fit': 1000.0}
baseline_fitness: {'Value': 13.676955819670596, 'Fit': 1000}
slopeFitness: {'Value': 0.0030999403233872734, 'Fit': 1.006219139687471}
thresh: {'Value': 13.770675389267508, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 98.95131086142322, 'Fit': 1.2333546661555466}
E_rate_fitness: {'Value': 30.97222222222222, 'Fit': 1000}
I_rate_fitness: {'Value': 10.527777777777777, 'Fit': 7.009190540180455}
maxFitness: 1000
average_fitness: 667.6943071495582
average_scaled_fitness: 667.3595980104429

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

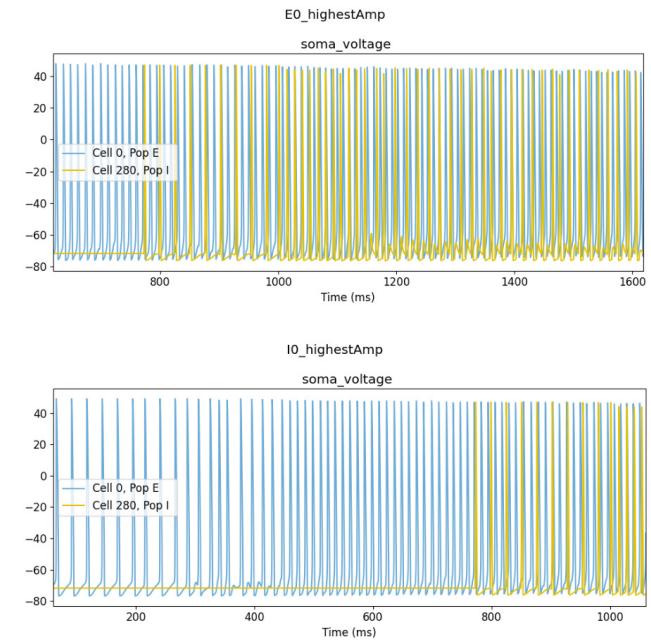
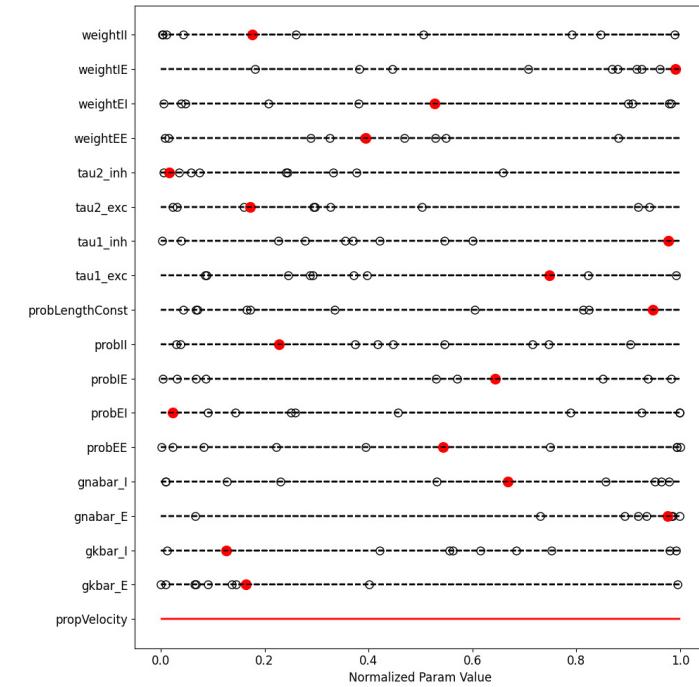
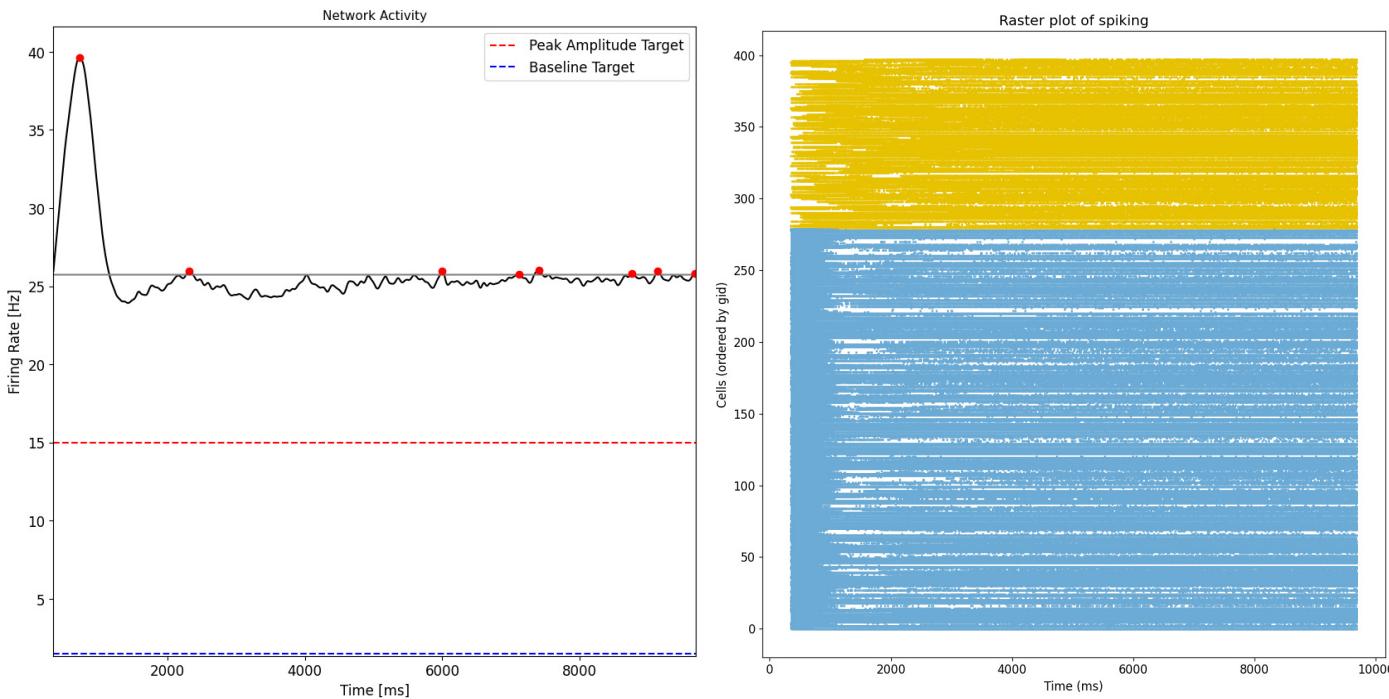
```

```

burstAmp_Fitness: {'Value': 1.8963437111472032, 'Fit': 875.2156307718808}
burst_peak_frequency_fitness: {'Value': 0.825593395252838, 'Fit': 19.17409926141321}
IBI_fitness: {'Value': 1277.142857142857, 'Fit': 2.757581949354183}
baseline_fitness: {'Value': 25.904298871574614, 'Fit': 1000}
slopeFitness: {'Value': -0.002574231896084454, 'Fit': 1.0051617399059638}
thresh: {'Value': 25.739166807821405, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.54838709677419, 'Fit': 3.63395861141477}
E_rate_fitness: {'Value': 94.40079365079366, 'Fit': 1000}
I_rate_fitness: {'Value': 32.157407407407405, 'Fit': 1.240780653424196}
maxFitness: 1000
average_fitness: 433.66969033193266
average_scaled_fitness: 433.0998640048828

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

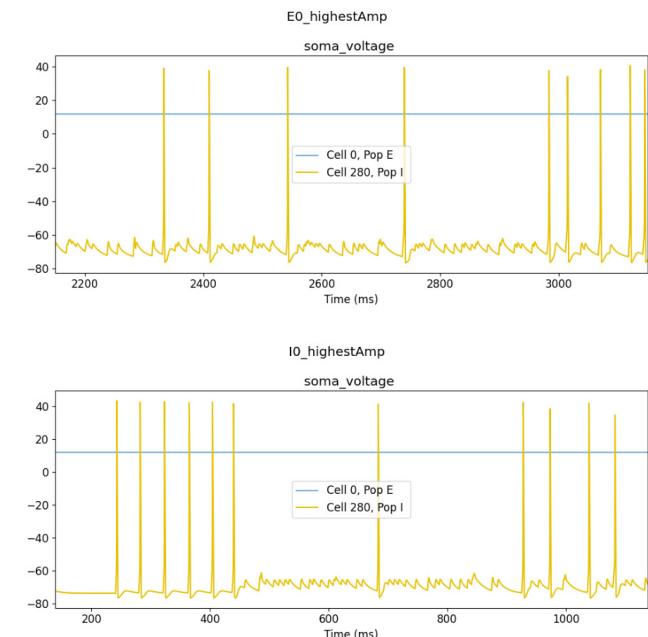
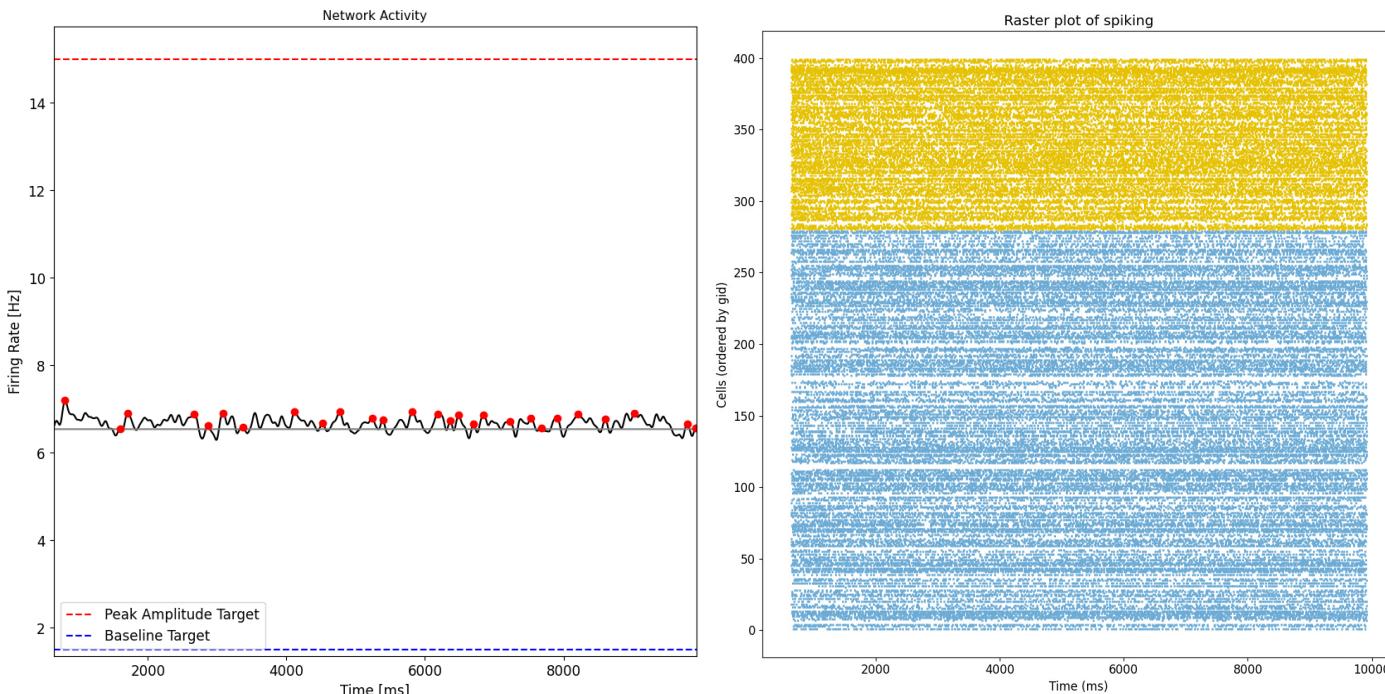
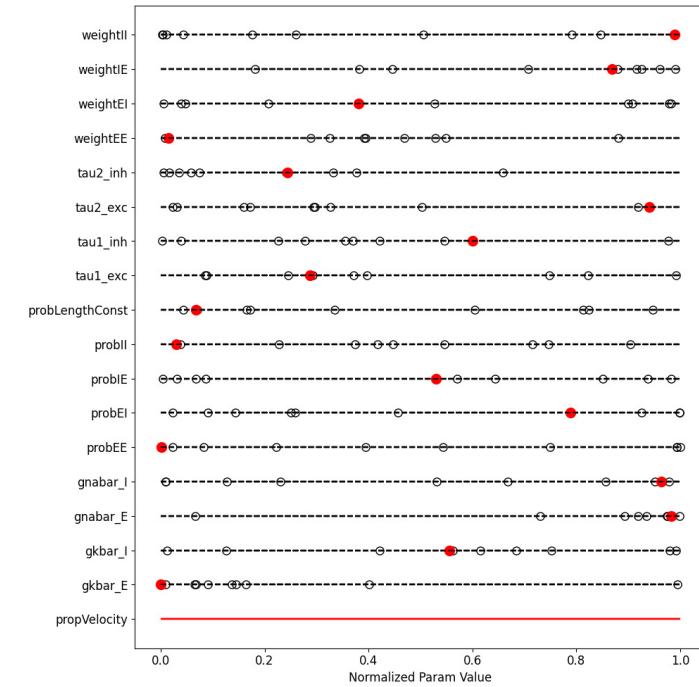
```

```

burstAmp_Fitness: {'Value': 0.25302672192277836, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.7231467473524966, 'Fit': 1000}
IBI_fitness: {'Value': 350.1923076923077, 'Fit': 3.7849078093128794}
baseline_fitness: {'Value': 6.667180877196933, 'Fit': 1000}
slopeFitness: {'Value': -7.127852679241457e-05, 'Fit': 1.0001425672153244}
thresh: {'Value': 6.5386317858151095, 'Fit': 0.21467462144425903}
sustain_oscillation_fitness: {'Value': 92.73408239700375, 'Fit': 4.276707853901273}
E_rate_fitness: {'Value': 11.0515873015873, 'Fit': 4.13974801745128}
I_rate_fitness: {'Value': 19.342592592592595, 'Fit': 2.9029885497145944}
maxFitness: 1000
average_fitness: 335.14657437989337
average_scaled_fitness: 335.0038165759549

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

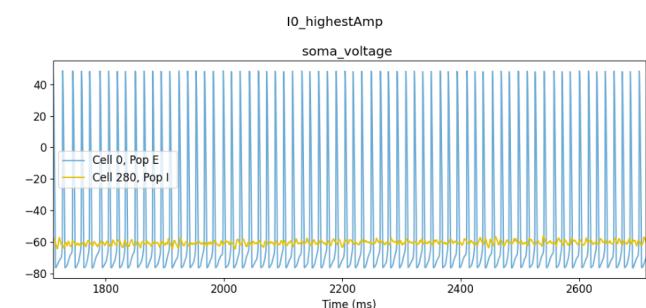
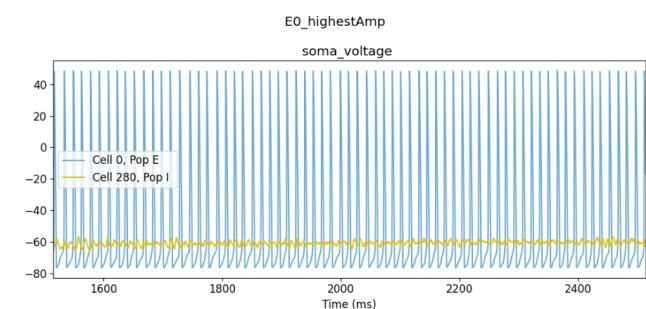
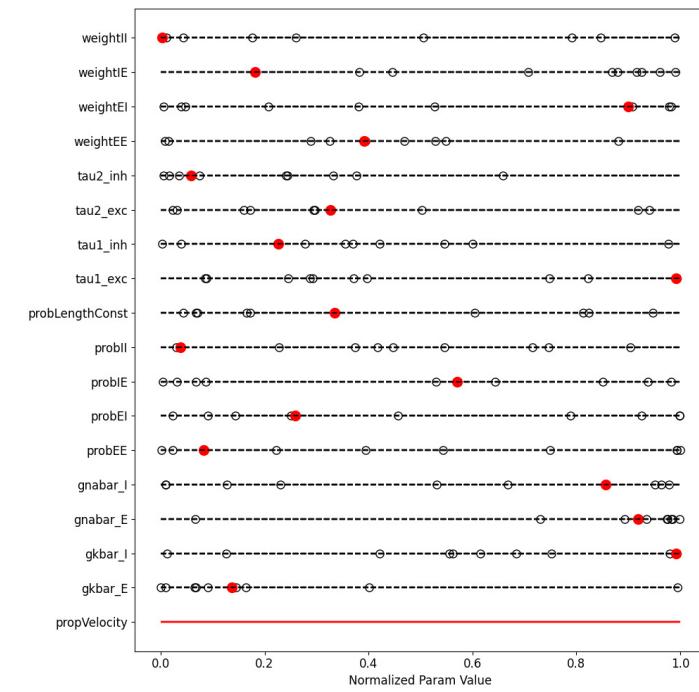
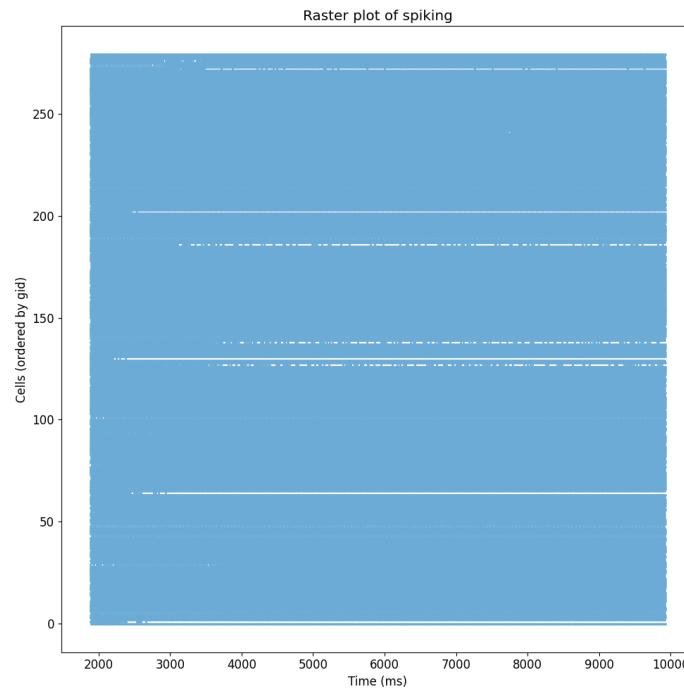
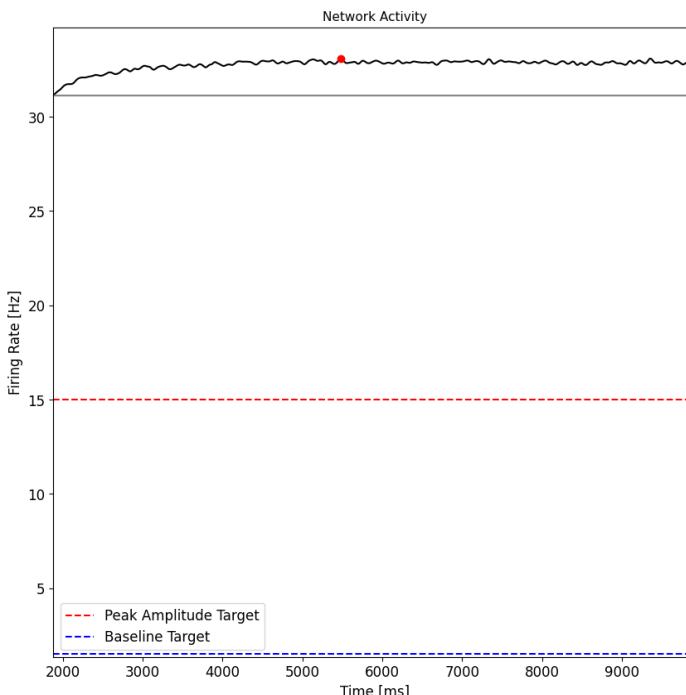
```

```

burstAmp_Fitness: {'Value': 1.964406521938912, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.10070493454179255, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 32.74313491805466, 'Fit': 1000}
slopeFitness: {'Value': 0.0006071517513102248, 'Fit': 1.001215041067631}
thresh: {'Value': 31.11437160607393, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 80.5701425356339, 'Fit': 48.71424502058131}
E_rate_fitness: {'Value': 59.36904761904762, 'Fit': 1000}
I_rate_fitness: {'Value': 9.703703703703702, 'Fit': 7.611266848958921}
maxFitness: 1000
average_fitness: 673.0363029900675
average_scaled_fitness: 672.7086139315238

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_osc: {'target': 100, 'width': 5, 'min': 75}

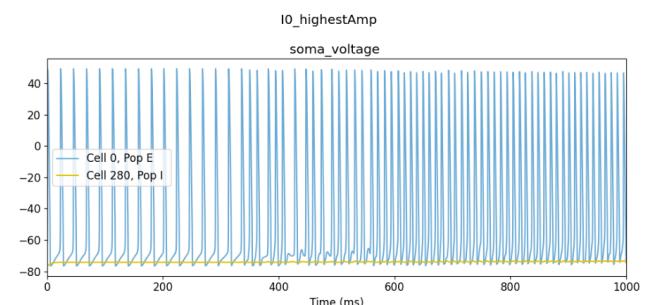
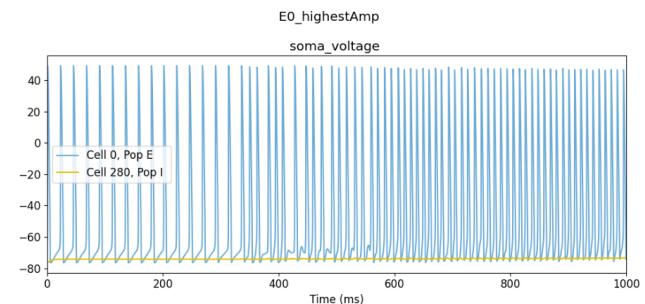
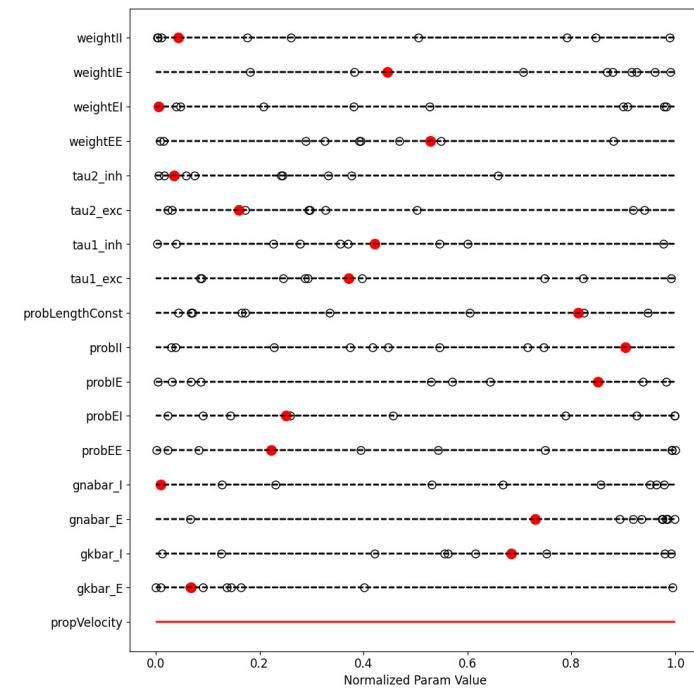
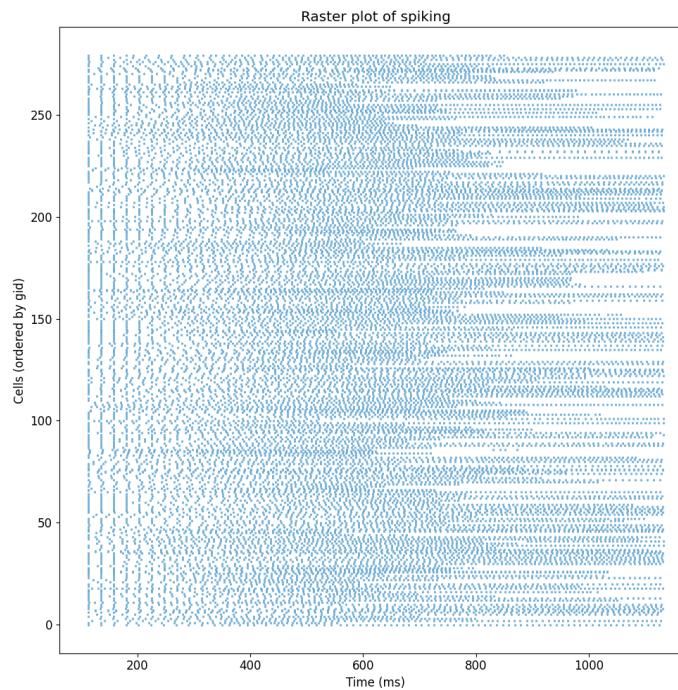
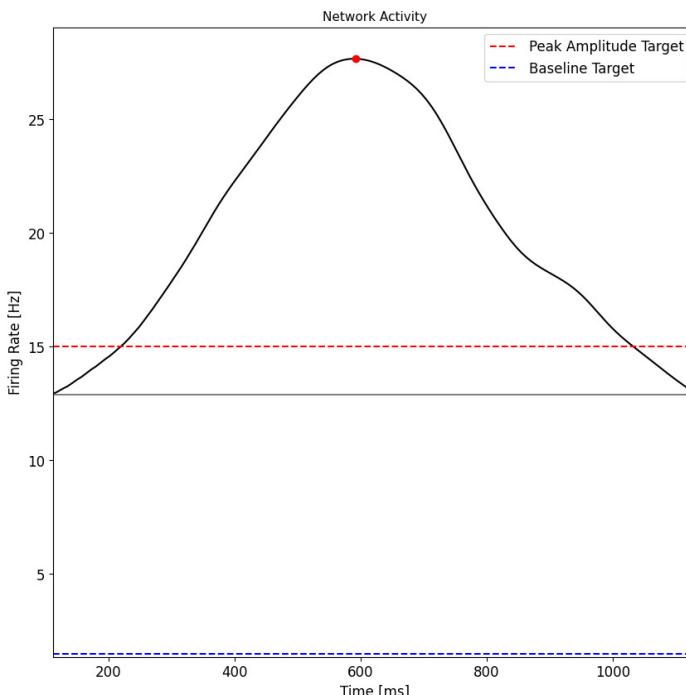
```

```

burstAmp_Fitness: {'Value': 14.755532943153243, 'Fit': 1.130017962282777}
burst_peak_frequency_fitness: {'Value': 0.8830022075055187, 'Fit': 27.05882622463815}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 20.109495489886033, 'Fit': 1000}
slopeFitness: {'Value': -0.007962553681585523, 'Fit': 1.0160525876991018}
thresh: {'Value': 12.89875884656218, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 10.262172284644194, 'Fit': 1000}
E_rate_fitness: {'Value': 74.96031746031746, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 669.9116551971799
average_scaled_fitness: 669.5759269627324

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_4/gen_4_cand_17_data.json

SimLabel: gen_4_cand_17

Generation Rank: 6/10

```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

```

```

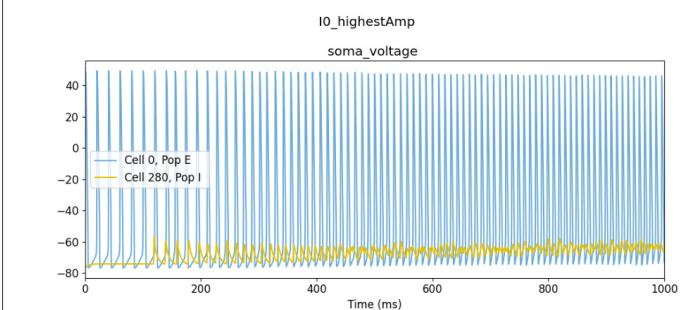
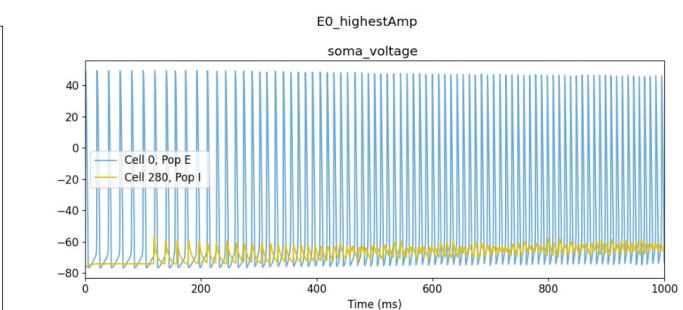
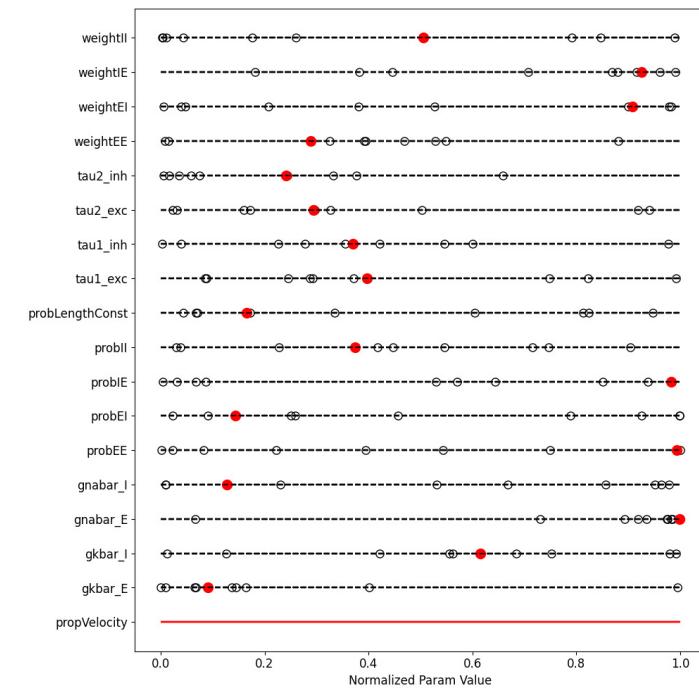
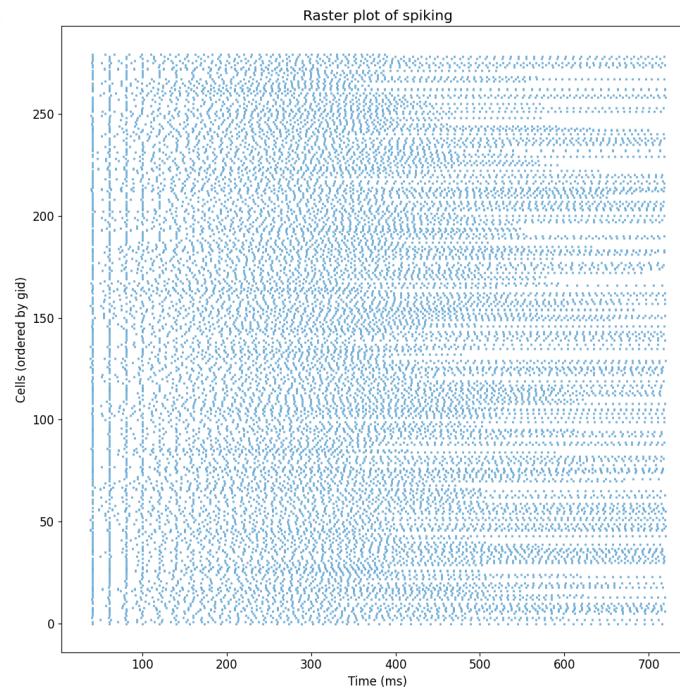
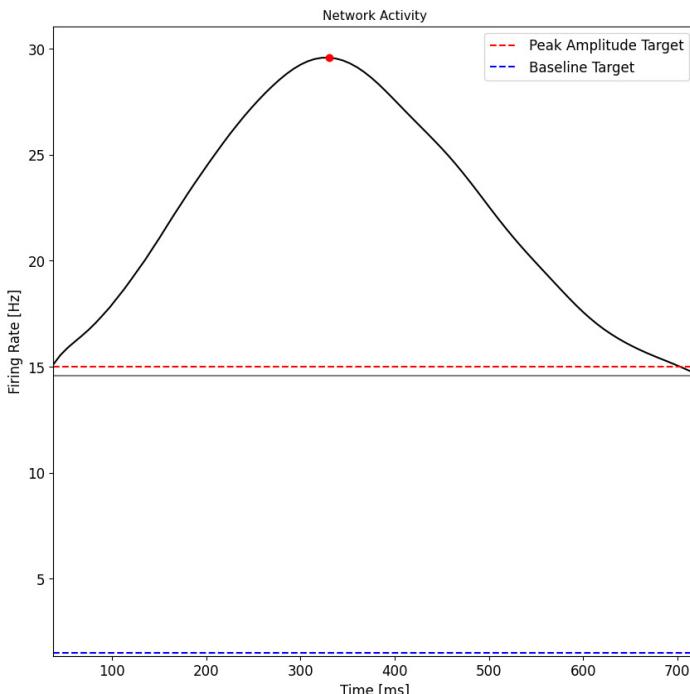
burstAmp_Fitness: {'Value': 14.991394825828888, 'Fit': 1.004311856502761}
burst_peak_frequency_fitness: {'Value': 1.3888888888888888, 'Fit': 563.0302368359517}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 22.178663721837914, 'Fit': 1000}
slopeFitness: {'Value': -0.04973885655894838, 'Fit': 1.1045938525126593}
thresh: {'Value': 14.593591365636485, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 6.891385767790262, 'Fit': 1000}
E_rate_fitness: {'Value': 71.2420634920635, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 729.4599047272186
average_scaled_fitness: 729.1879249493611

```

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

```



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_4/gen_4_cand_70_data.json

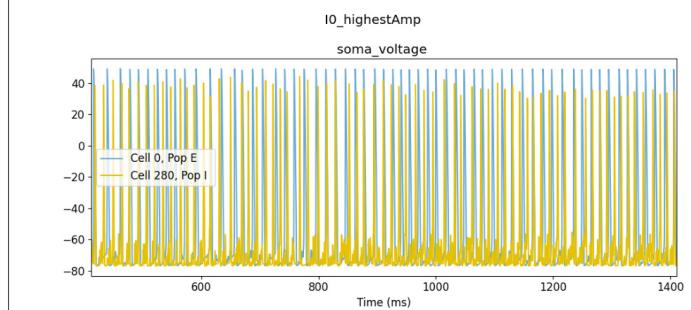
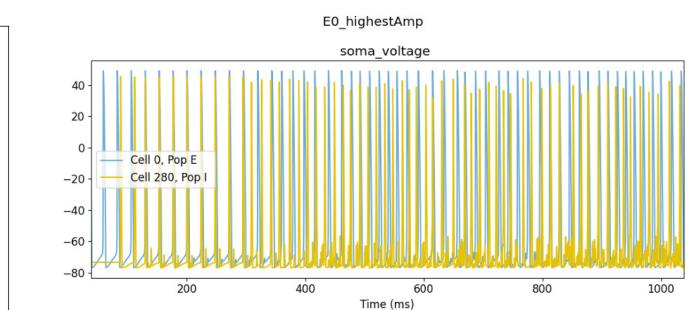
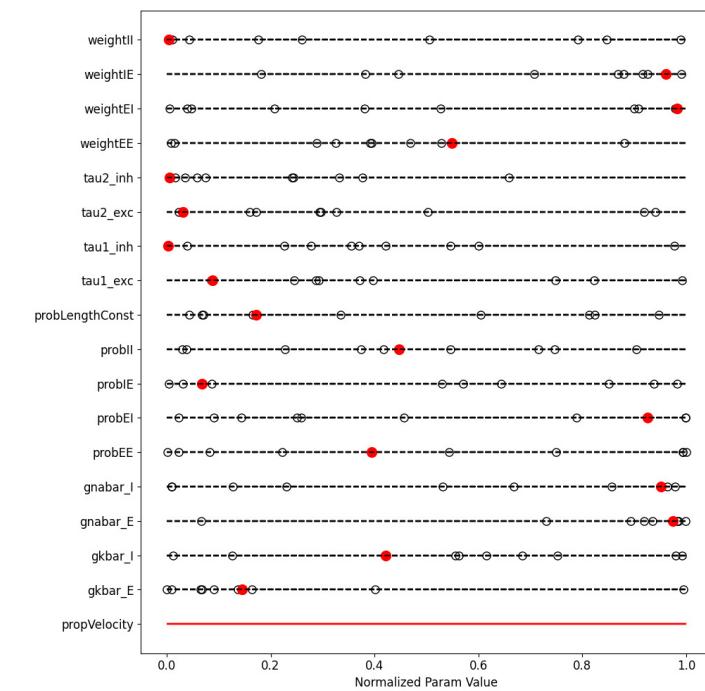
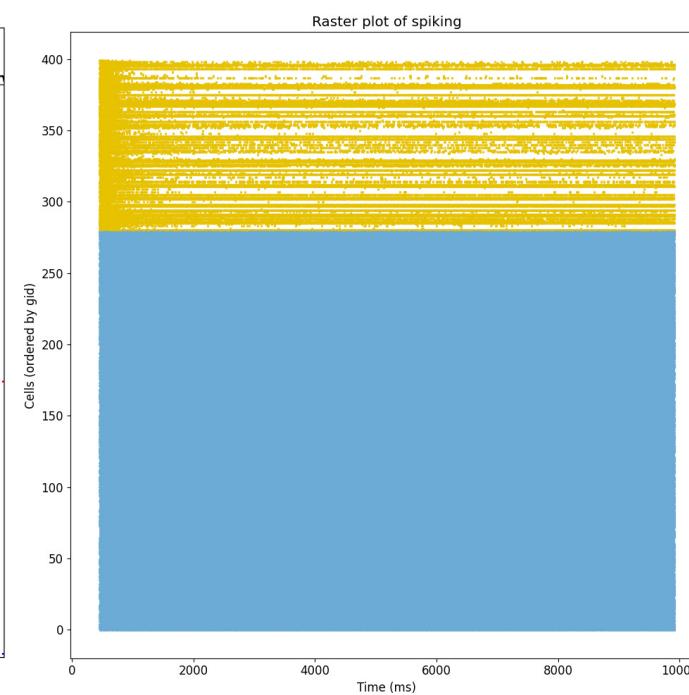
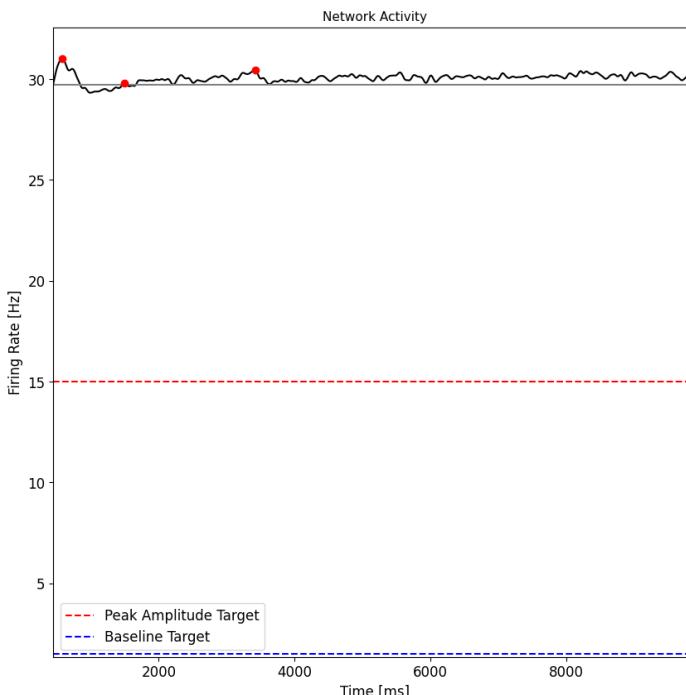
SimLabel: gen_4_cand_70

Generation Rank: 2/10

```
rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 0.6920138998605646, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.30257186081694404, 'Fit': 1.2026997663922674}
IBI_fitness: {'Value': 1421.25, 'Fit': 2.2708447823367948}
baseline_fitness: {'Value': 30.05185056006901, 'Fit': 1000}
slopeFitness: {'Value': 0.00024719852783787303, 'Fit': 1.0004945192900434}
thresh: {'Value': 29.72300779556521, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 94.74868717179294, 'Fit': 2.8584015375747898}
E_rate_fitness: {'Value': 71.09126984126983, 'Fit': 1000}
I_rate_fitness: {'Value': 66.82407407407408, 'Fit': 39.74195407511653}
maxFitness: 1000
average_fitness: 449.67493274230117
average_scaled_fitness: 449.12378410749346
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

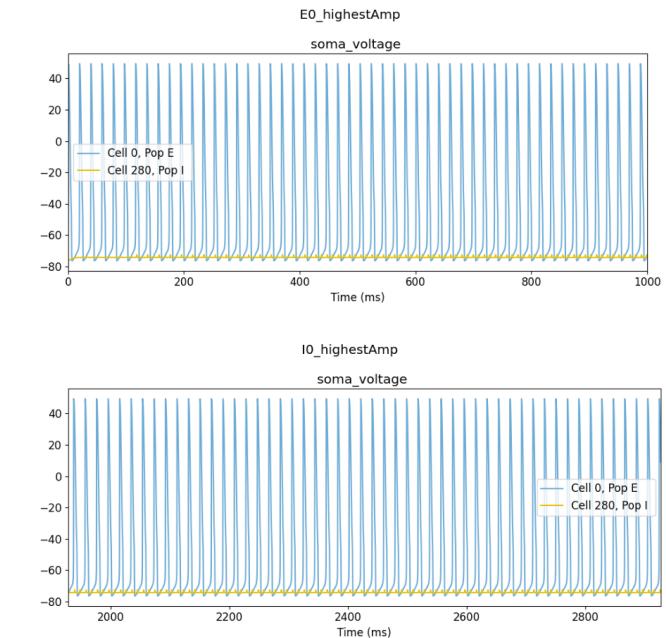
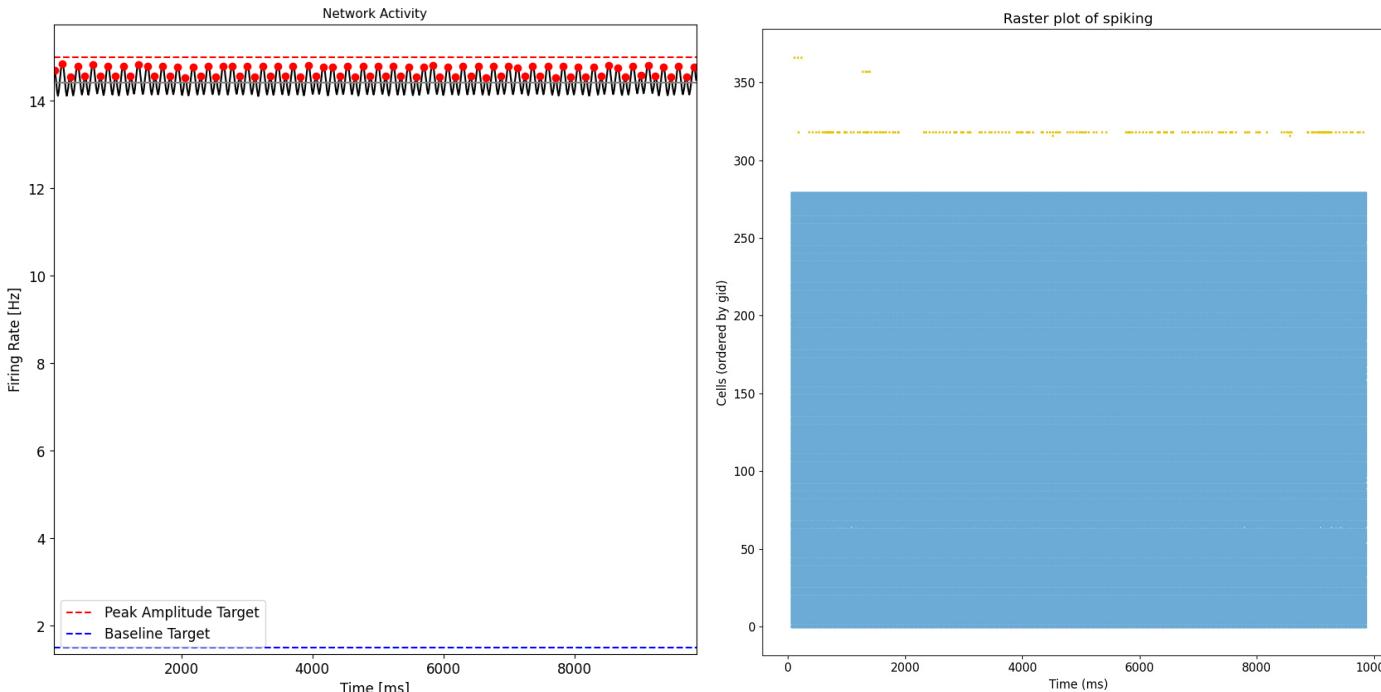
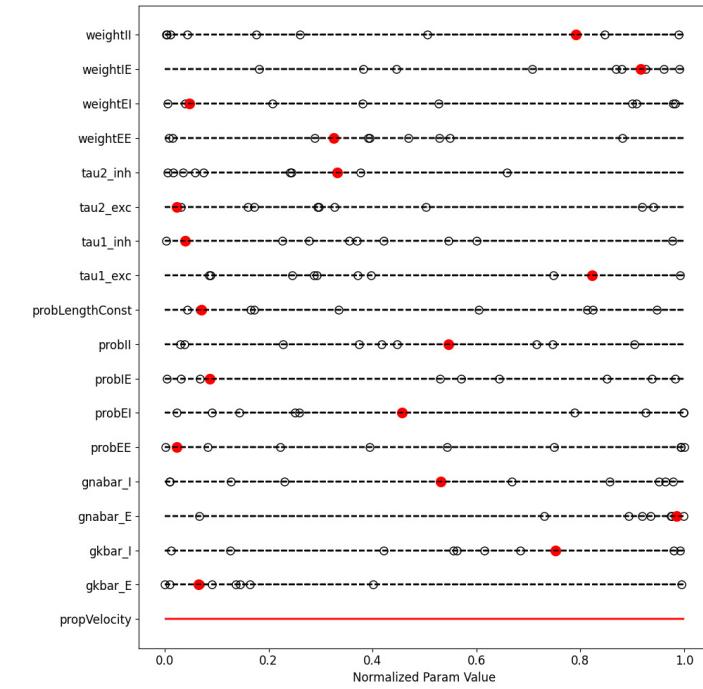
```

```

burstAmp_Fitness: {'Value': 0.26790569192041636, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 8.517110266159696, 'Fit': 1000}
IBI_fitness: {'Value': 117.65060240963855, 'Fit': 4.225676027062053}
baseline_fitness: {'Value': 14.443880922178872, 'Fit': 1000}
slopeFitness: {'Value': -6.866829268501029e-07, 'Fit': 1.0000013733667967}
thresh: {'Value': 14.416221917296275, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 98.12734082397003, 'Fit': 1.4543103982886696}
E_rate_fitness: {'Value': 51.079365079365076, 'Fit': 1000}
I_rate_fitness: {'Value': 0.21296296296296297, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4088875331909
average_scaled_fitness: 667.075963039003

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240430_Run1_interactive_node_run/gen_5/gen_5_cand_0_data.json

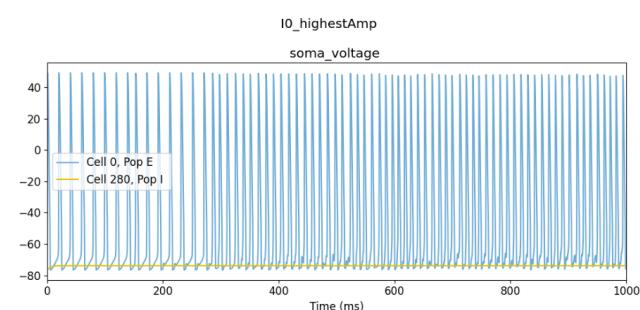
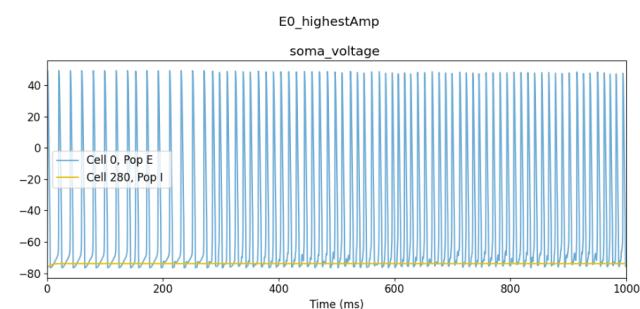
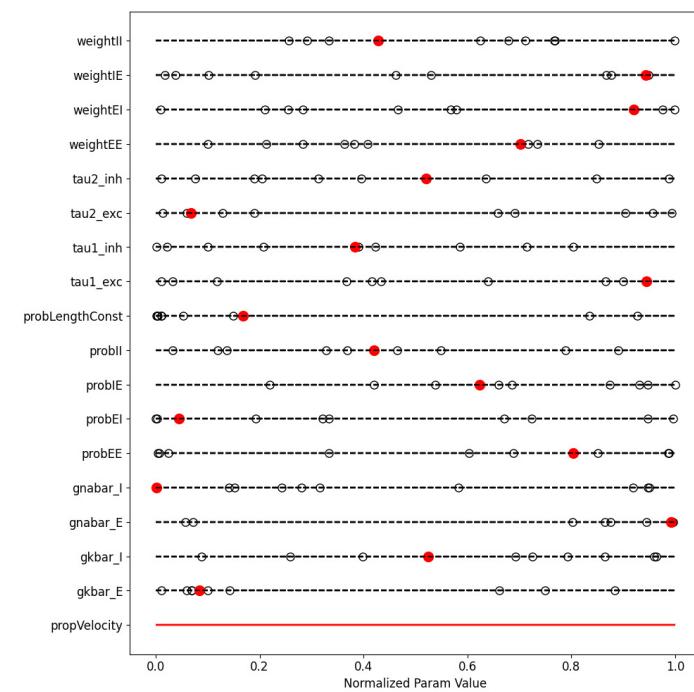
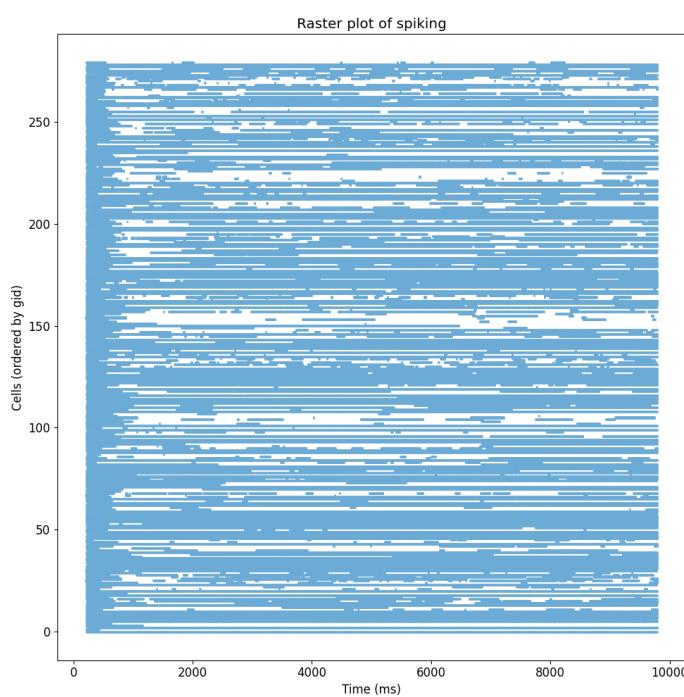
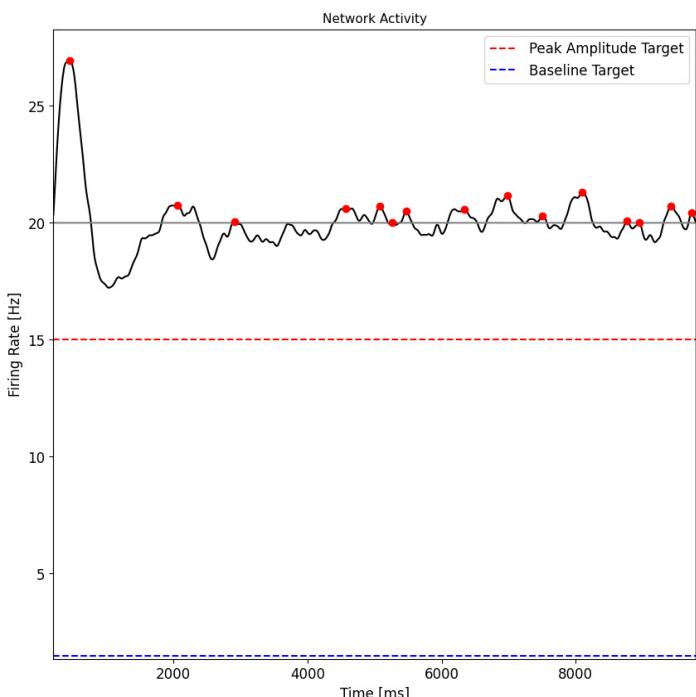
SimLabel: gen_5_cand_0

Generation Rank: 1/10

```
rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_osc: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 0.9463391483624732, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.5313935681470139, 'Fit': 1000}
IBI_fitness: {'Value': 662.6785714285714, 'Fit': 3.292762721651016}
baseline_fitness: {'Value': 20.054258125637766, 'Fit': 1000}
slopeFitness: {'Value': -0.0002640685686959783, 'Fit': 1.0005282766263652}
thresh: {'Value': 19.992147064322243, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 95.8052434456929, 'Fit': 2.313939101157481}
E_rate_fitness: {'Value': 78.14682539682539, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4008033443816
average_scaled_fitness: 667.0676951591861
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

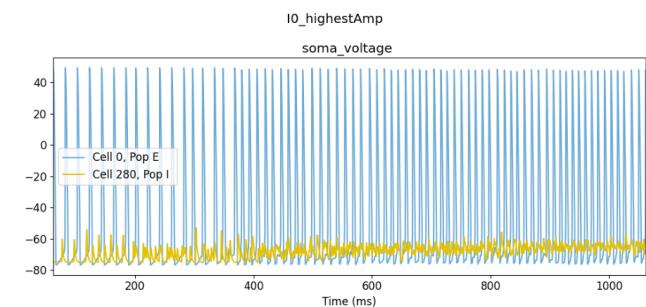
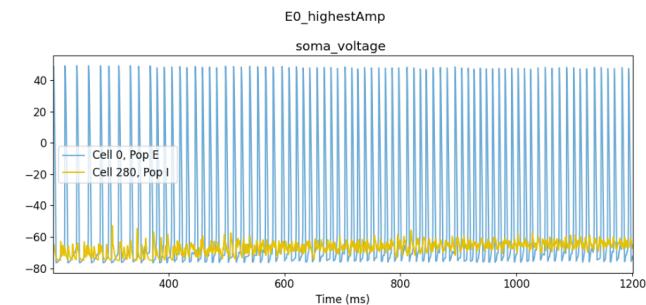
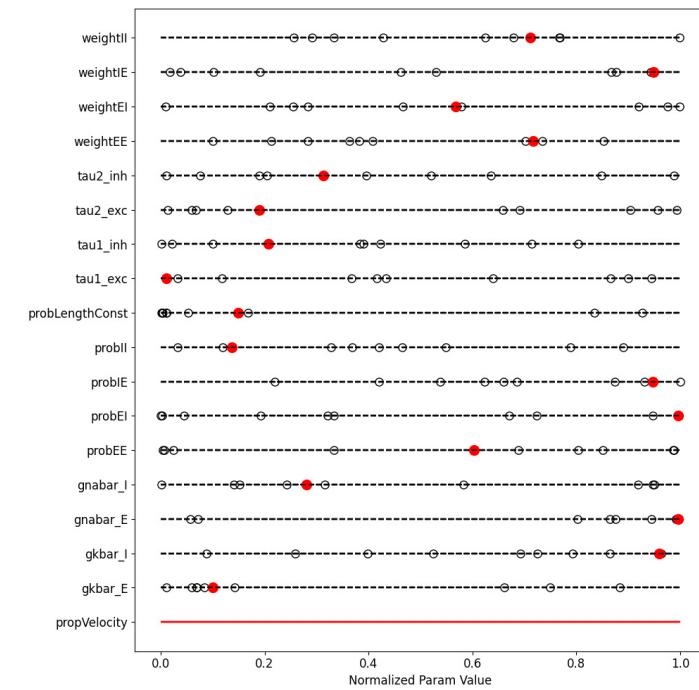
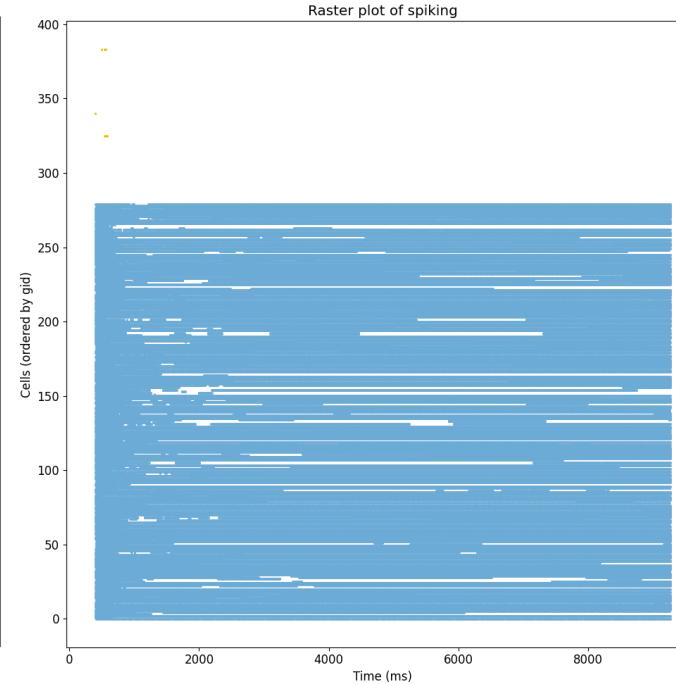
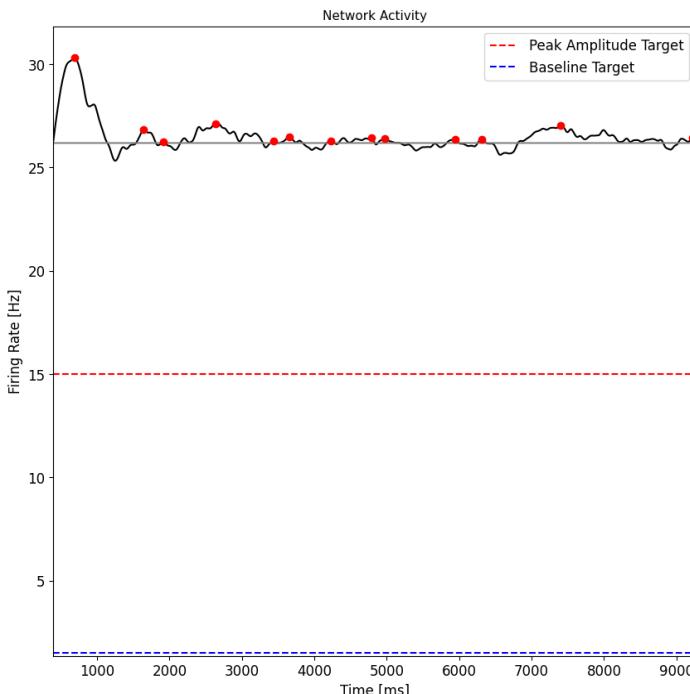
```

```

burstAmp_Fitness: {'Value': 0.6279996859788525, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.4023732470334414, 'Fit': 610.4763061305558}
IBI_fitness: {'Value': 710.625, 'Fit': 3.2145115672949767}
baseline_fitness: {'Value': 26.497526716184662, 'Fit': 1000}
slopeFitness: {'Value': -0.00082948443859949, 'Fit': 1.0016603457273454}
thresh: {'Value': 26.18715733248486, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 88.68913857677903, 'Fit': 9.603928991025448}
E_rate_fitness: {'Value': 93.49603174603175, 'Fit': 1000}
I_rate_fitness: {'Value': 3.0, 'Fit': 14.879731724872837}
maxFitness: 1000
average_fitness: 515.4640154177196
average_scaled_fitness: 514.978188302129

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_osci: {'target': 100, 'width': 5, 'min': 75}

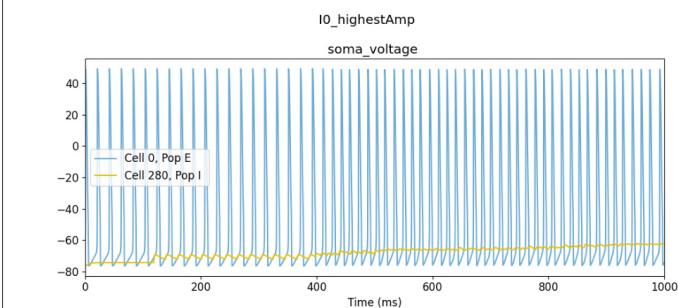
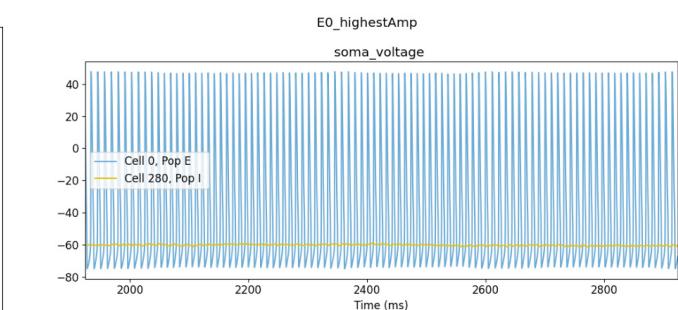
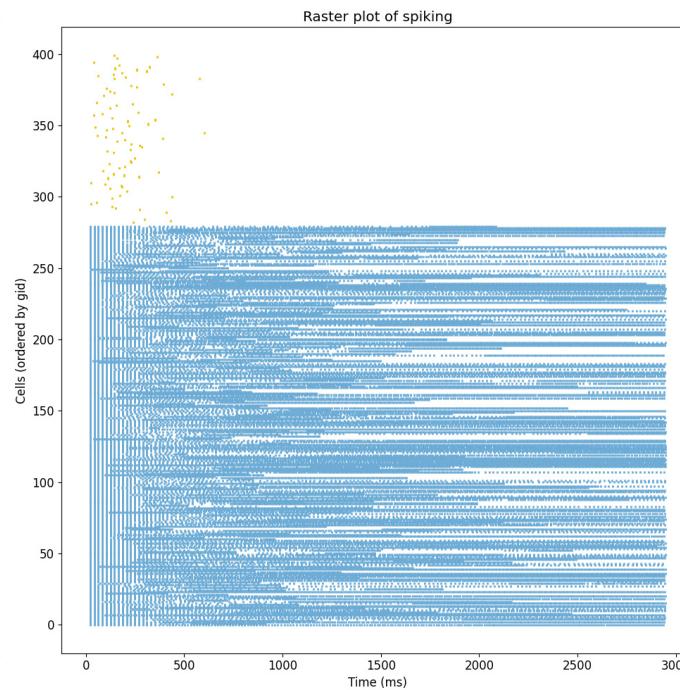
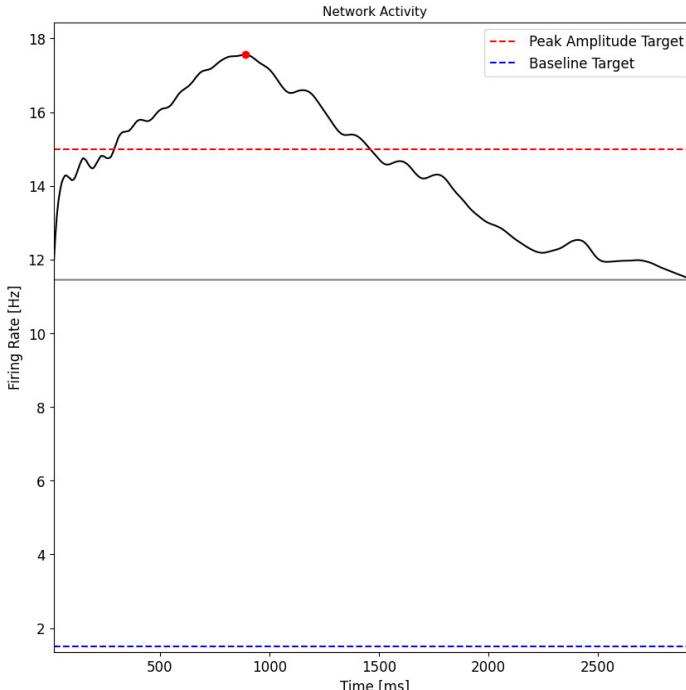
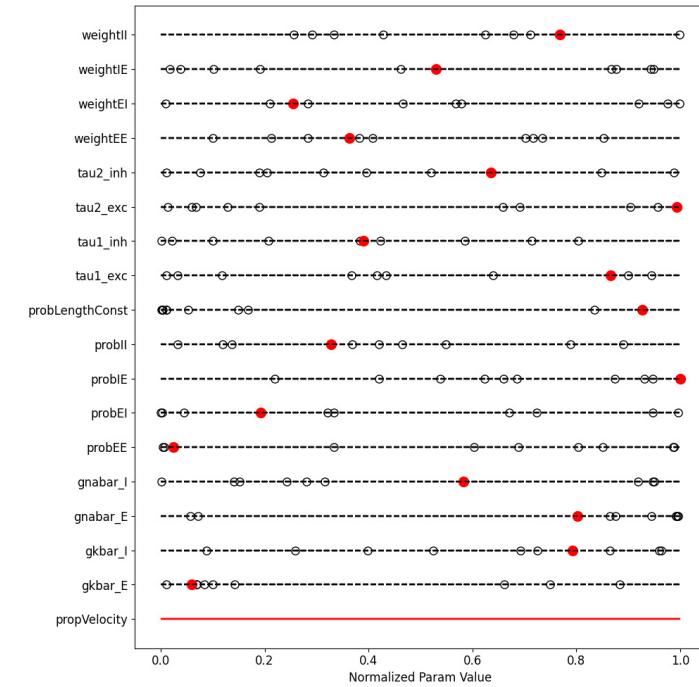
```

```

burstAmp_Fitness: {'Value': 6.109478803957979, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.3392705682782019, 'Fit': 1.036265525422963}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 14.416663323356905, 'Fit': 1000}
slopeFitness: {'Value': -0.01314266819009892, 'Fit': 1.0266338426692259}
thresh: {'Value': 11.45041576683821, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 29.363295880149813, 'Fit': 1000}
E_rate_fitness: {'Value': 58.09920634920634, 'Fit': 1000}
I_rate_fitness: {'Value': 0.6203703703703703, 'Fit': 1000}
maxFitness: 1000
average_fitness: 778.0069888186769
average_scaled_fitness: 777.7788490645697

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

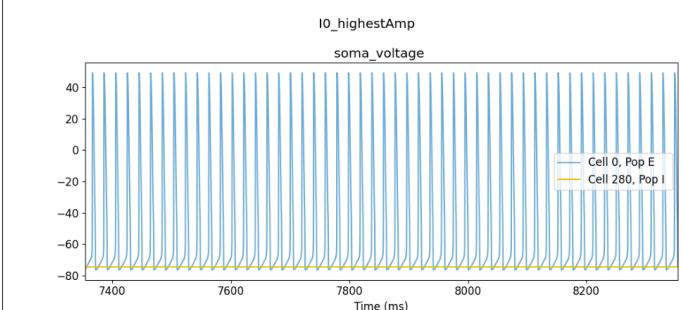
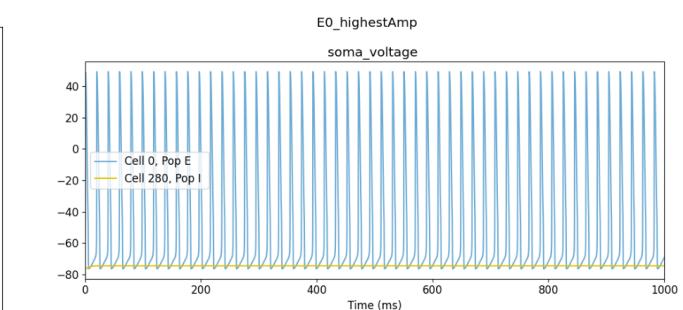
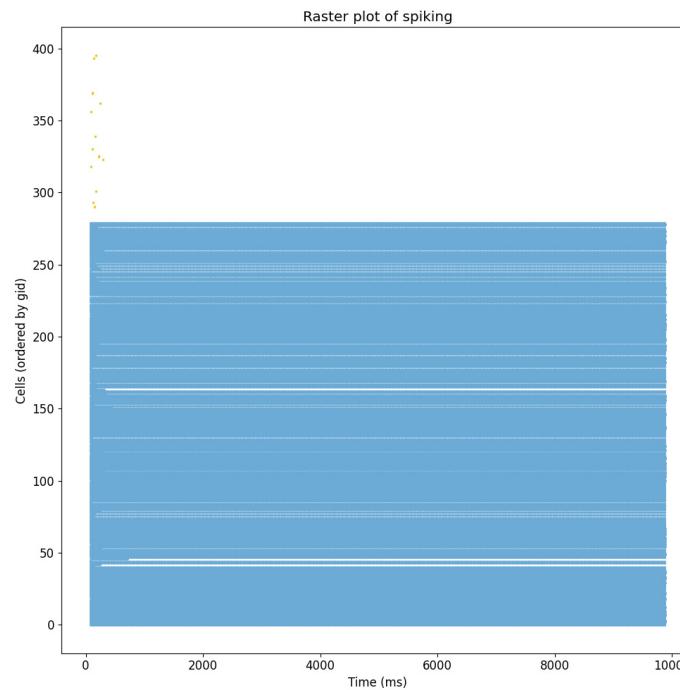
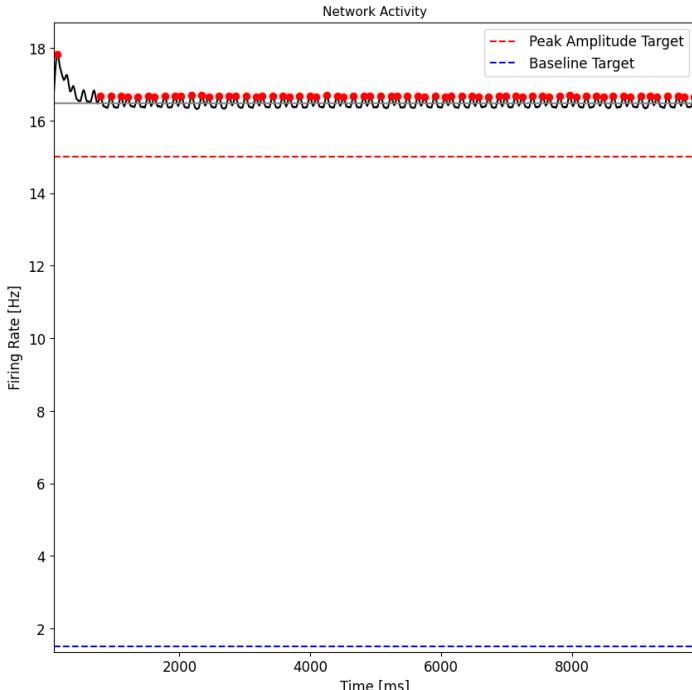
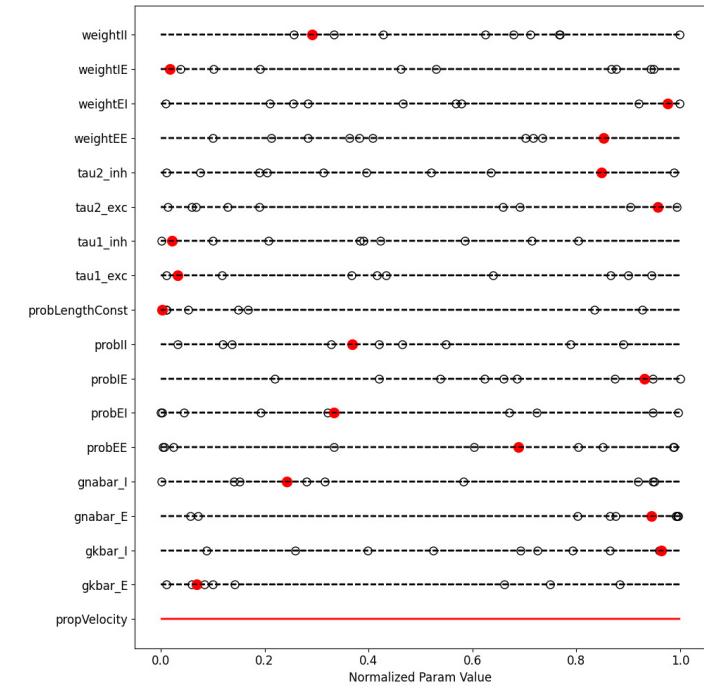
```

```

burstAmp_Fitness: {'Value': 0.2079556163167629, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 6.873894364417488, 'Fit': 1000}
IBI_fitness: {'Value': 145.29850746268656, 'Fit': 4.169989147716067}
baseline_fitness: {'Value': 16.51947448799796, 'Fit': 1000}
slopeFitness: {'Value': -0.00012692624211467707, 'Fit': 1.0002538847074978}
thresh: {'Value': 16.482038378311312, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 98.12734082397003, 'Fit': 1.4543103982886696}
E_rate_fitness: {'Value': 59.49999999999999, 'Fit': 1000}
I_rate_fitness: {'Value': 0.10185185185185, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4027281589681
average_scaled_fitness: 667.0697133464059

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.3333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_oscil: {'target': 100, 'width': 5, 'min': 75}

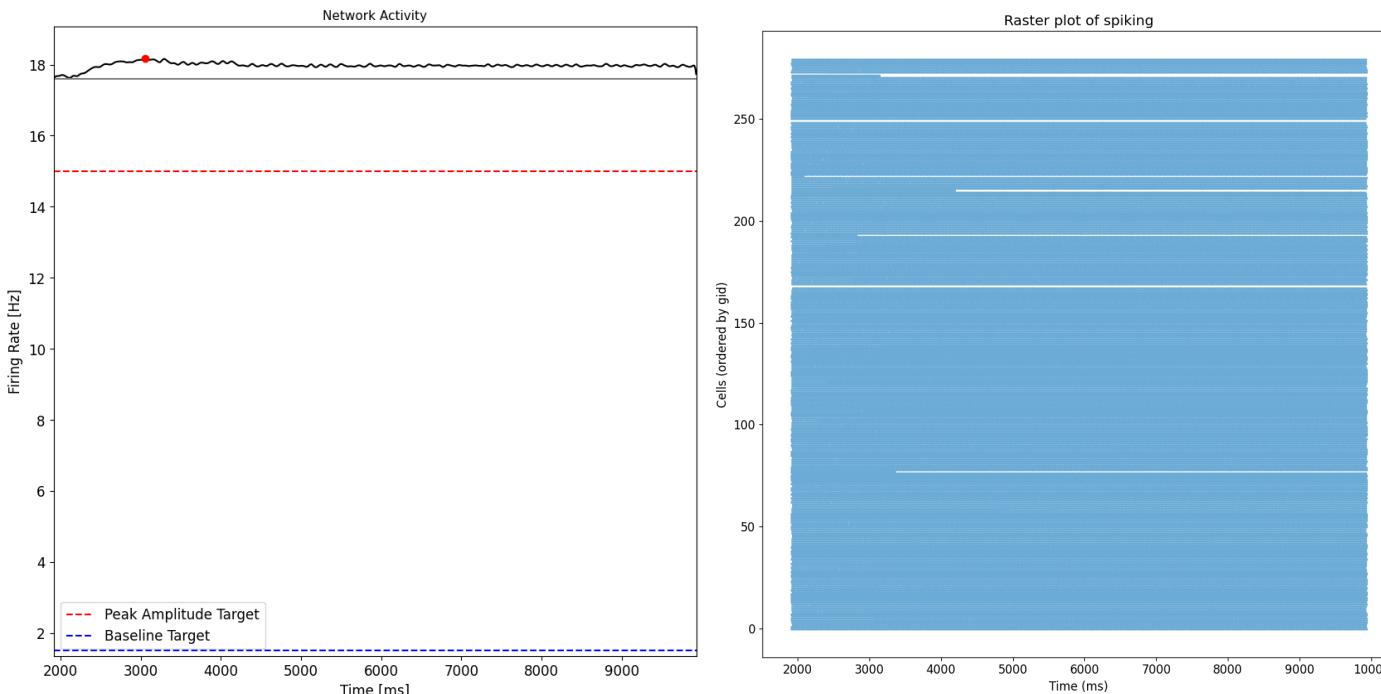
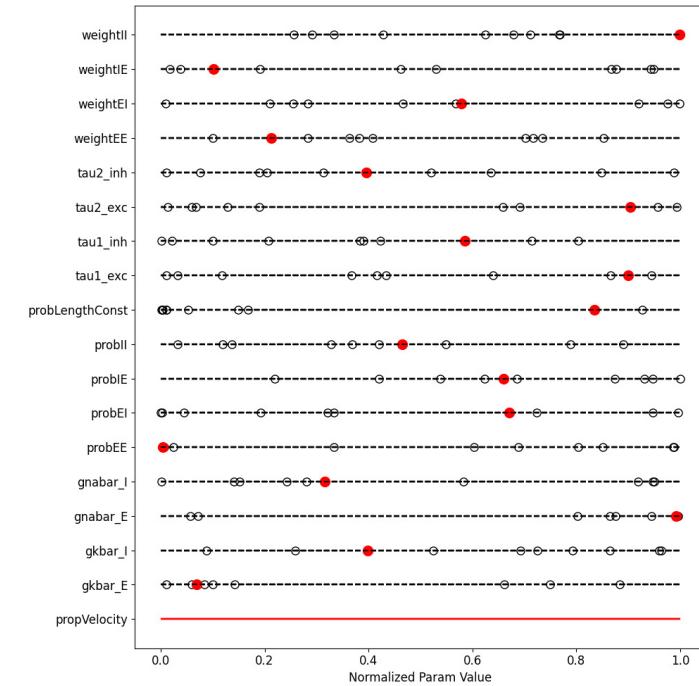
```

```

burstAmp_Fitness: {'Value': 0.5708344181736642, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.10070493454179255, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 17.975259007879178, 'Fit': 1000}
slopeFitness: {'Value': 8.887408189561944e-06, 'Fit': 1.0000177749743522}
thresh: {'Value': 17.599674419719605, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 80.14981273408239, 'Fit': 52.98651531619579}
E_rate_fitness: {'Value': 53.948412698412696, 'Fit': 1000}
I_rate_fitness: {'Value': 0.46296296296296297, 'Fit': 1000}
maxFitness: 1000
average_fitness: 783.7762814545745
average_scaled_fitness: 783.5598374448009

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



```

rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 1.5, 'width': 1, 'max': 3}
rate_slope: {'target': 0, 'width': 0.5, 'max': 0.5}
thresh_target: {'target': 5, 'width': 1, 'min': 3, 'max': 7}
burst_peak_frequency: {'target': 0.333333333333333, 'width': 0.1666666666666666, 'min': 0.25}
sustained_osci: {'target': 100, 'width': 5, 'min': 75}

```

```

burstAmp_Fitness: {'Value': 0.7524404977186379, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.10070493454179255, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 27.69340426528182, 'Fit': 1000}
slopeFitness: {'Value': 0.00014200017652947358, 'Fit': 1.0002840406849771}
thresh: {'Value': 27.13895282221814, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 86.66666666666667, 'Fit': 14.39191609514988}
E_rate_fitness: {'Value': 81.54761904761904, 'Fit': 1000}
I_rate_fitness: {'Value': 0.2777777777777778, 'Fit': 1000}
maxFitness: 1000
average_fitness: 779.488022237315
average_scaled_fitness: 779.2672267669939

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

