

```

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}

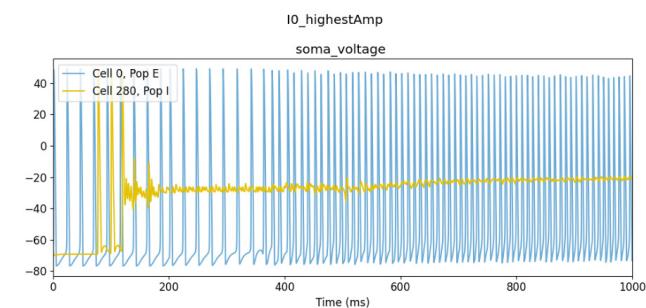
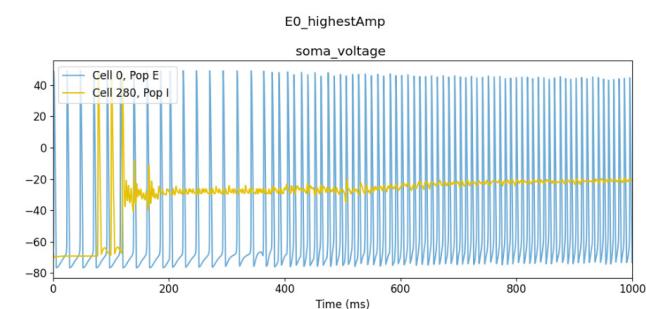
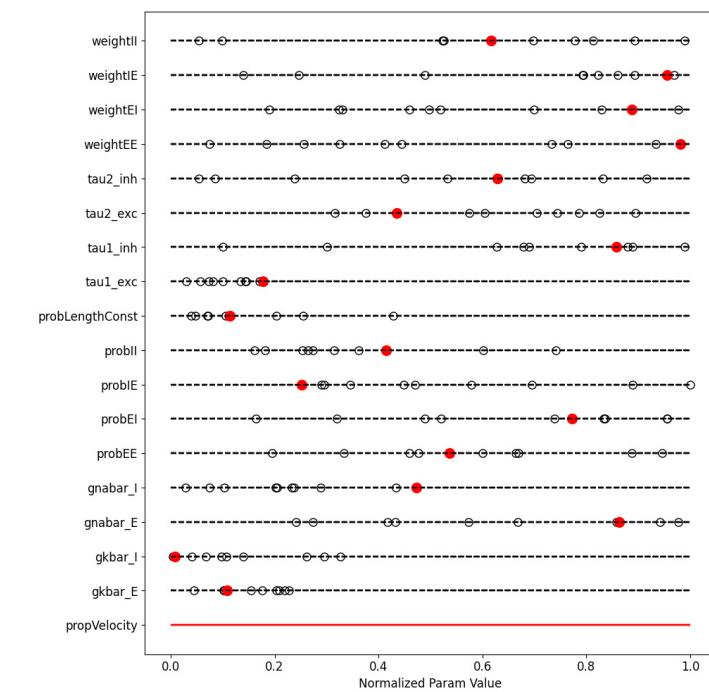
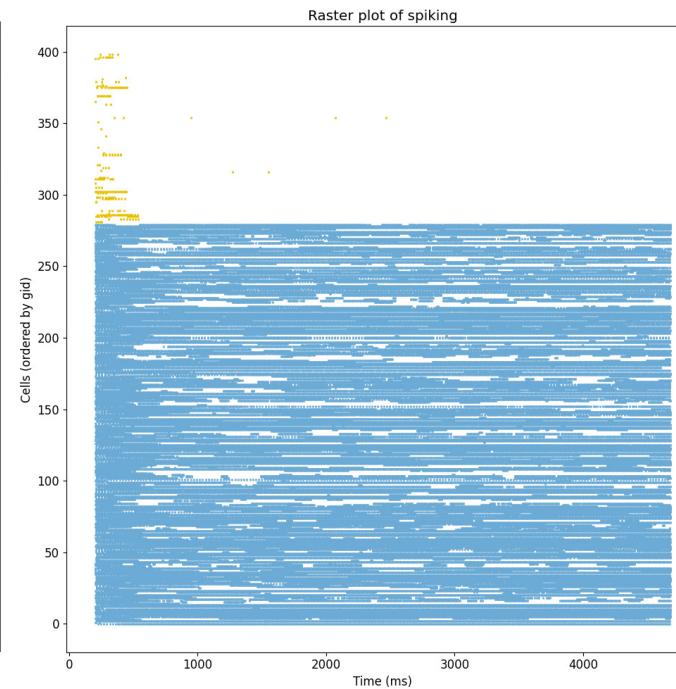
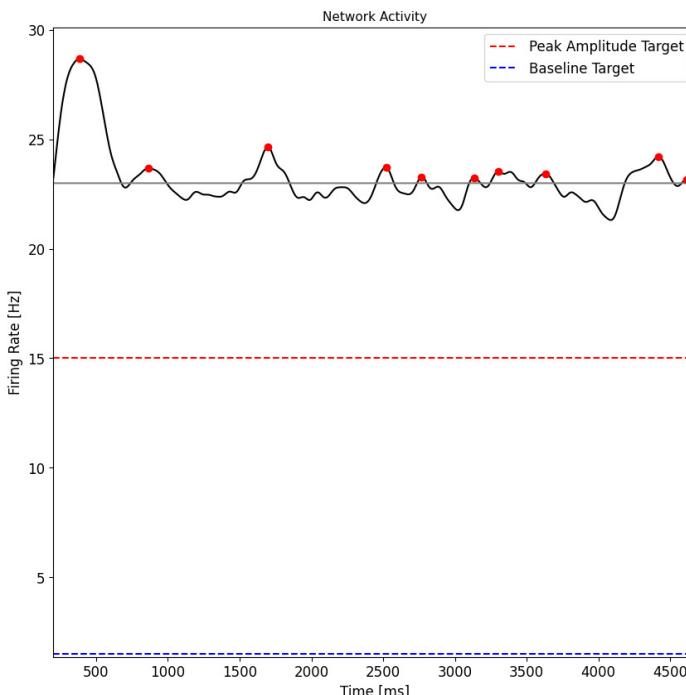
```

```

burstAmp_Fitness: {'Value': 1.1612944694112408, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.1367521367521367, 'Fit': 1000}
IBI_fitness: {'Value': 470.0, 'Fit': 3.5725092776810285}
baseline_fitness: {'Value': 23.277926460904744, 'Fit': 1000}
slopeFitness: {'Value': -0.003596031100731402, 'Fit': 1.007217987213757}
thresh: {'Value': 22.994294641264336, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 89.52095808383234, 'Fit': 8.13201209609415}
E_rate_fitness: {'Value': 86.87301587301587, 'Fit': 1000}
I_rate_fitness: {'Value': 3.2777777777777777, 'Fit': 14.472093693901481}
maxFitness: 1000
average_fitness: 558.5759814505433
average_scaled_fitness: 558.1309229681633

```

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}

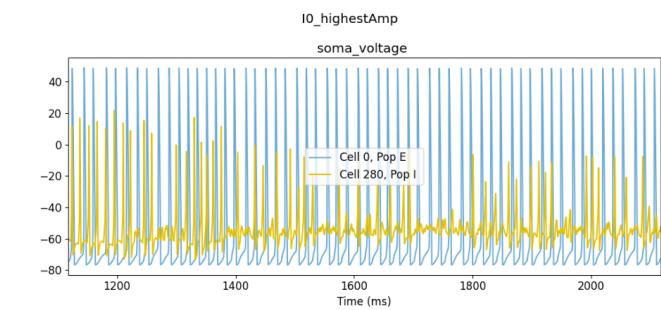
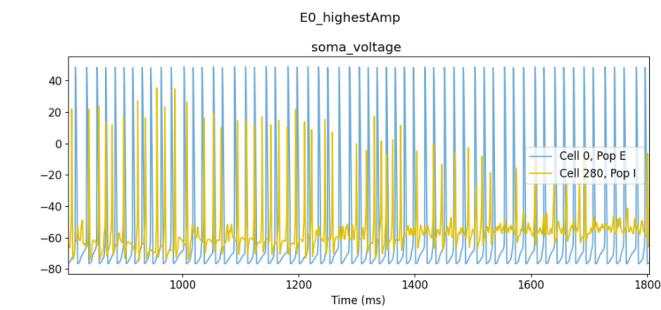
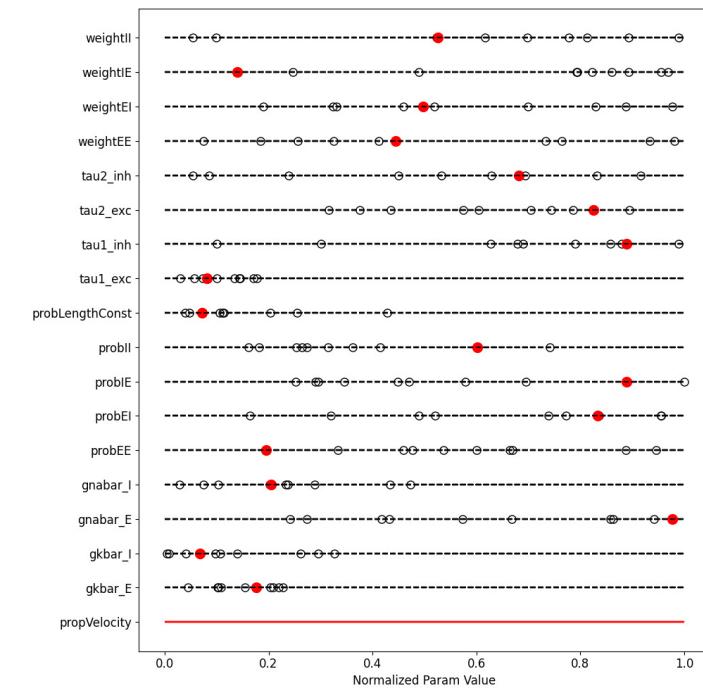
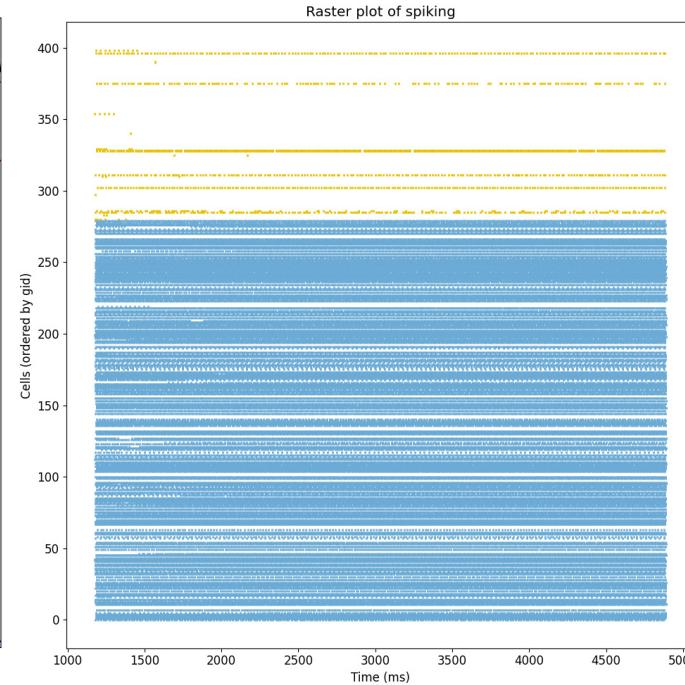
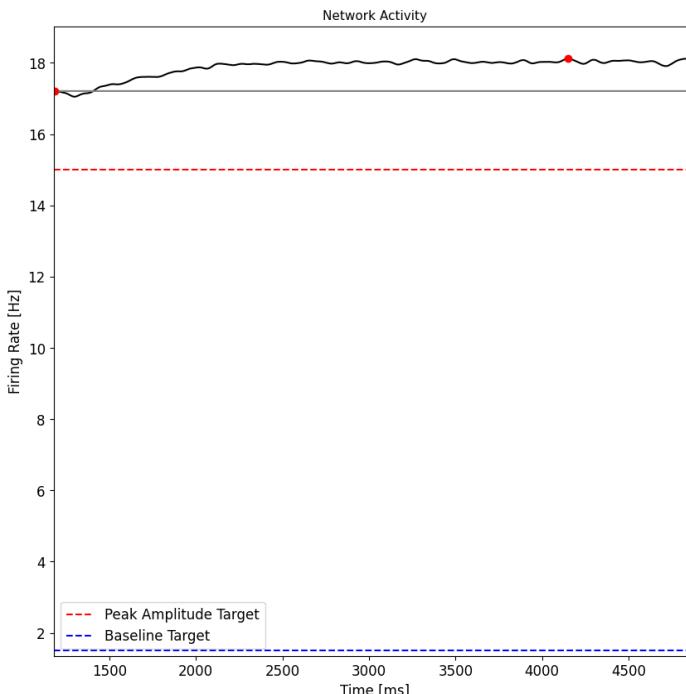
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```

burstAmp_Fitness: {'Value': 0.45990156590772635, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.40899795501022496, 'Fit': 1.5745786773727195}
IBI_fitness: {'Value': 2962.5, 'Fit': 1.0189268850520263}
baseline_fitness: {'Value': 17.886306221296863, 'Fit': 1000}
slopeFitness: {'Value': 0.0013393010727889188, 'Fit': 1.0026821928055725}
thresh: {'Value': 17.20933944387663, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 74.92447129909365, 'Fit': 1000}
E_rate_fitness: {'Value': 48.82142857142857, 'Fit': 1000}
I_rate_fitness: {'Value': 10.37962962962963, 'Fit': 7.113803396732368}
maxFitness: 1000
average_fitness: 556.7455545724404
average_scaled_fitness: 556.300665150427

```

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}

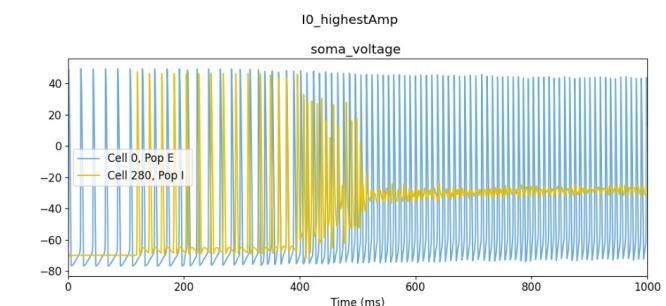
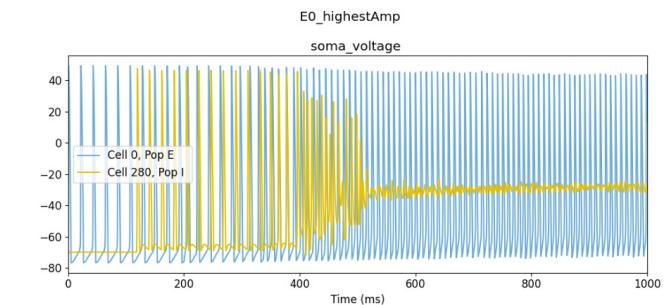
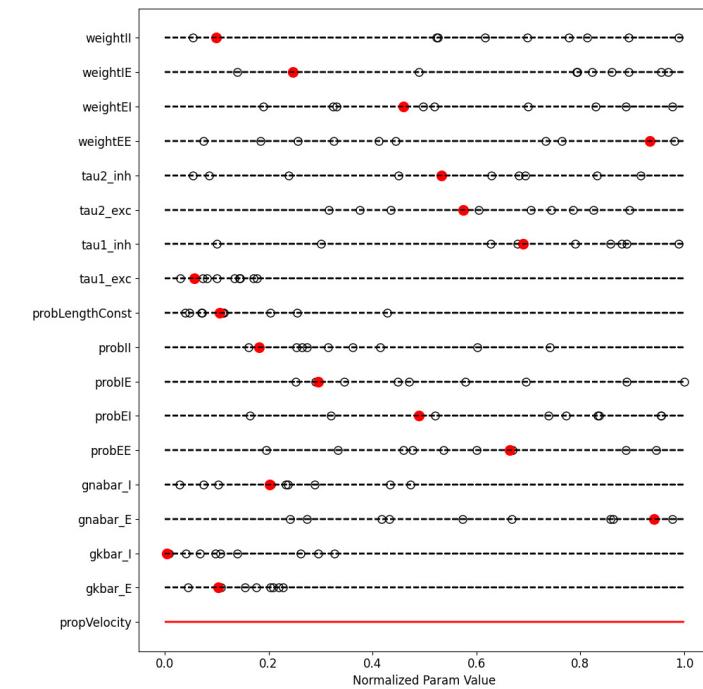
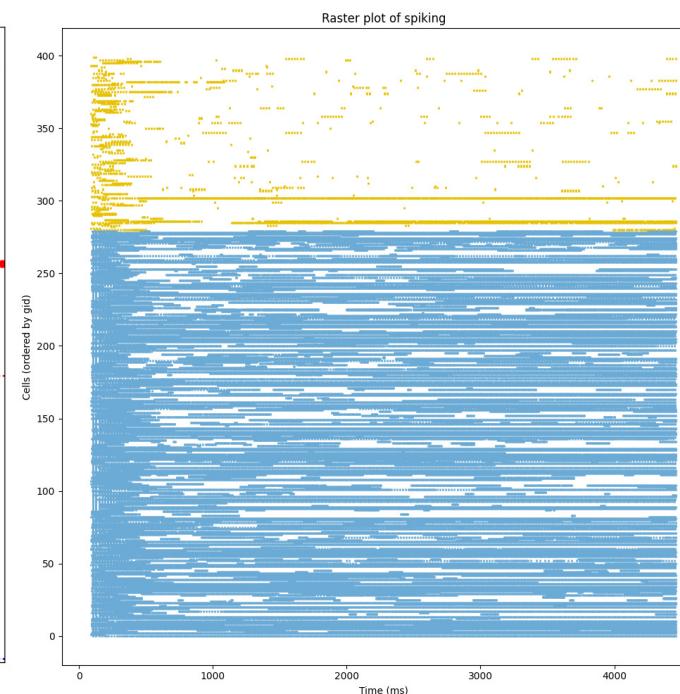
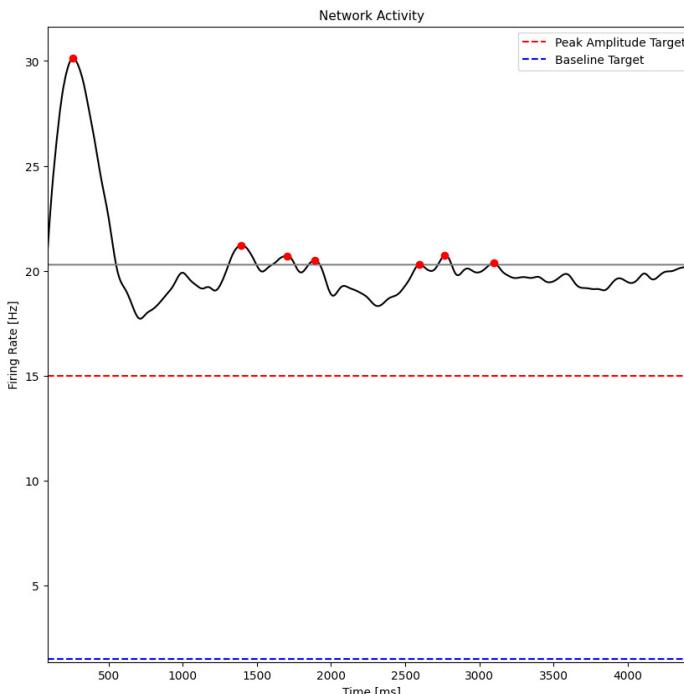
```

```

burstAmp_Fitness: {'Value': 1.4929819401362052, 'Fit': 876.6453801213011}
burst_peak_frequency_fitness: {'Value': 1.7927170868347337, 'Fit': 1000}
IBI_fitness: {'Value': 597.8571428571429, 'Fit': 3.4015958730839317}
baseline_fitness: {'Value': 20.340184289421906, 'Fit': 1000}
slopeFitness: {'Value': -0.005974178280521322, 'Fit': 1.0120200233222052}
thresh: {'Value': 20.290300271076504, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 87.42514970059881, 'Fit': 12.366238526907026}
E_rate_fitness: {'Value': 77.0, 'Fit': 1000}
I_rate_fitness: {'Value': 9.731481481481, 'Fit': 7.590153778330142}
maxFitness: 1000
average_fitness: 544.5572653692161
average_scaled_fitness: 544.0958812723486

```

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}

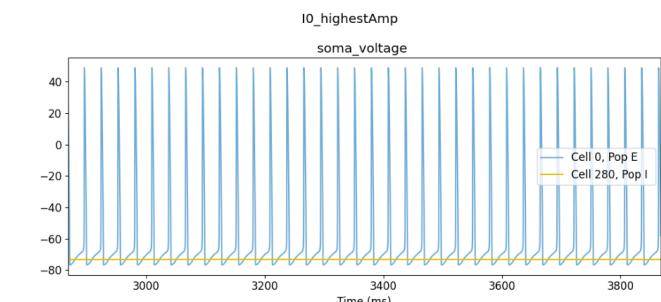
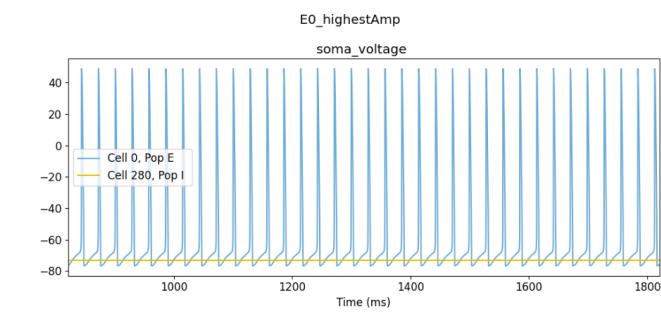
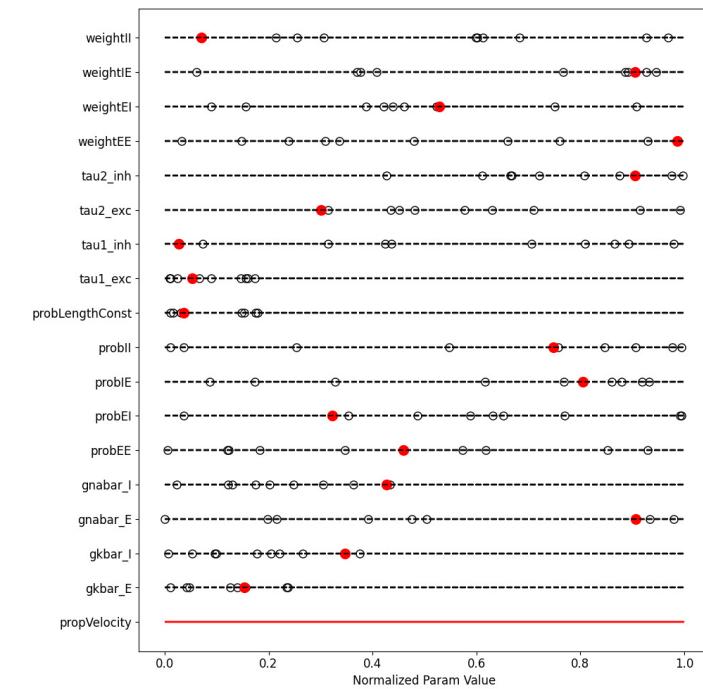
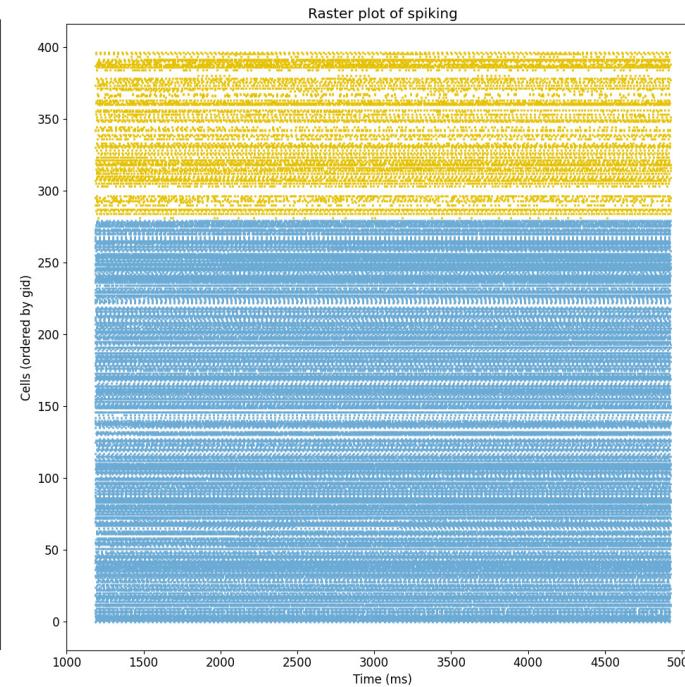
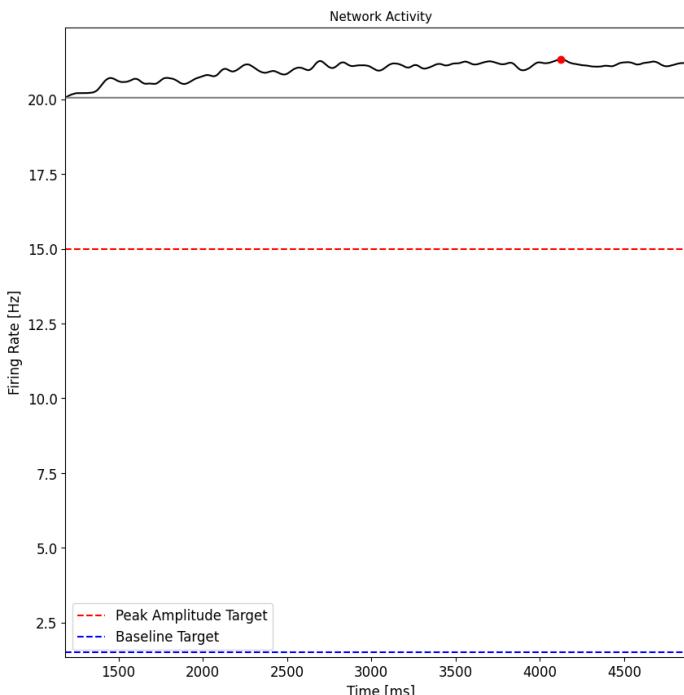
```

```

burstAmp_Fitness: {'Value': 1.2867012124281416, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 20.978085713809488, 'Fit': 1000}
slopeFitness: {'Value': 0.0015791853519438394, 'Fit': 1.00316336361174}
thresh: {'Value': 20.050567686243696, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 75.07507507507508, 'Fit': 146.20137979376366}
E_rate_fitness: {'Value': 48.916666666666664, 'Fit': 1000}
I_rate_fitness: {'Value': 25.694444444444443, 'Fit': 1.5381117927808456}
maxFitness: 1000
average_fitness: 683.1936283277951
average_scaled_fitness: 682.8755006483418

```

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}

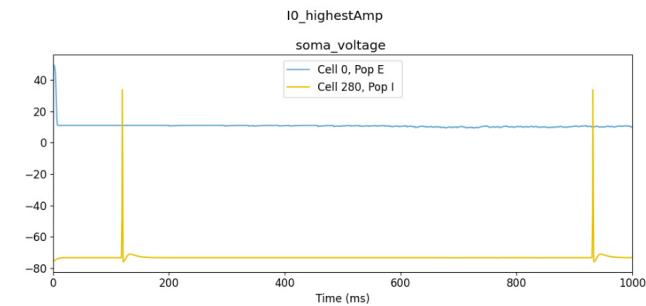
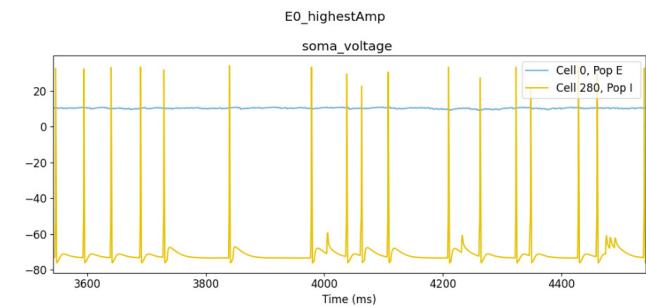
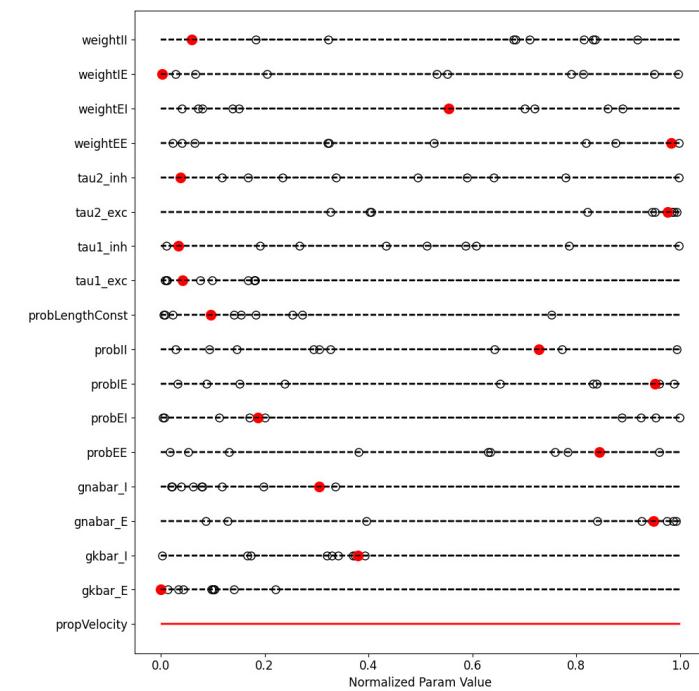
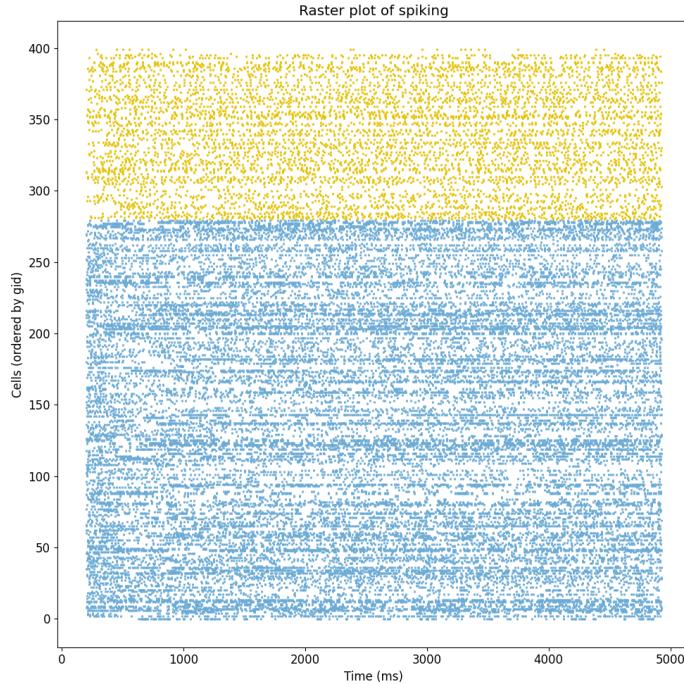
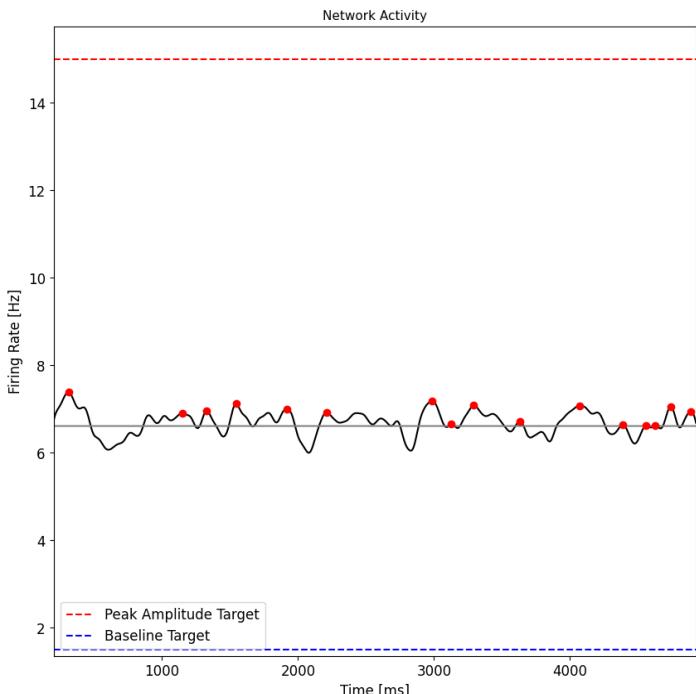
```

```

burstAmp_Fitness: {'Value': 0.31985713624859125, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 3.2470826991374935, 'Fit': 1000}
IBI_fitness: {'Value': 305.0, 'Fit': 3.870013369620602}
baseline_fitness: {'Value': 6.69193739562785, 'Fit': 1000}
slopeFitness: {'Value': -3.996106867422769e-05, 'Fit': 1.0000799253312076}
thresh: {'Value': 6.609985161087215, 'Fit': 0.1998905802120237}
sustain_oscillation_fitness: {'Value': 94.46107784431138, 'Fit': 3.0276430064092956}
E_rate_fitness: {'Value': 19.46825396825397, 'Fit': 119.97718351175384}
I_rate_fitness: {'Value': 8.916666666666666, 'Fit': 8.234505665347891}
maxFitness: 1000
average_fitness: 348.47881289540834
average_scaled_fitness: 348.3485539097534

```

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}

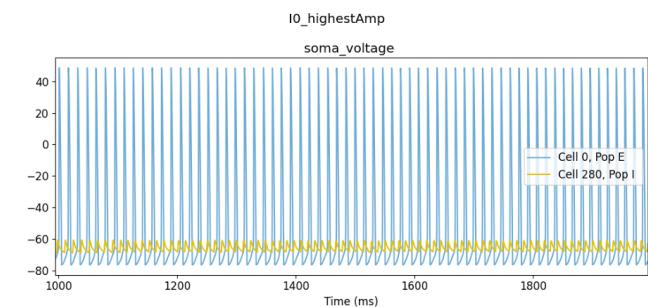
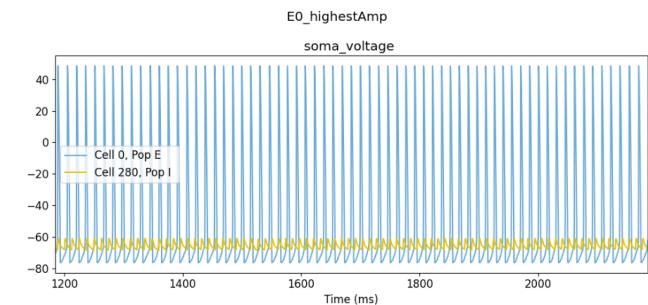
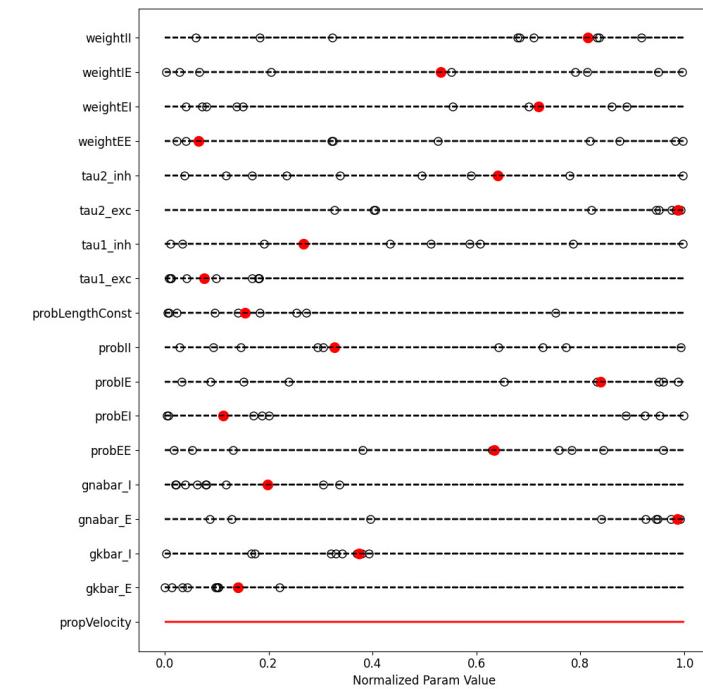
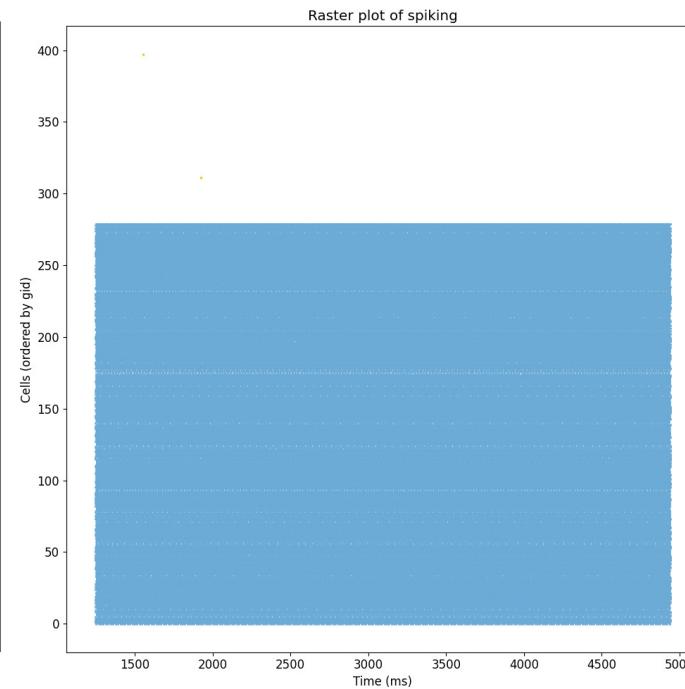
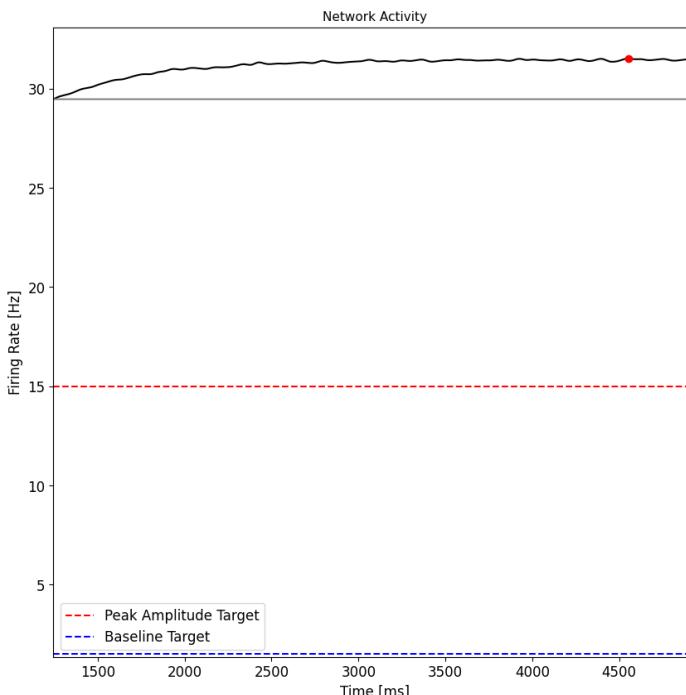
```

```

burstAmp_Fitness: {'Value': 2.0477325377430695, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20232675771370764, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 31.154990859860362, 'Fit': 1000}
slopeFitness: {'Value': 0.0024592165159567944, 'Fit': 1.0049305483783546}
thresh: {'Value': 29.467333830769334, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 73.95209580838323, 'Fit': 1000}
E_rate_fitness: {'Value': 82.76984126984128, 'Fit': 1000}
I_rate_fitness: {'Value': 0.8148148148148148, 'Fit': 1000}
maxFitness: 1000
average_fitness: 889.0005478387088
average_scaled_fitness: 888.8888888888889

```

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}

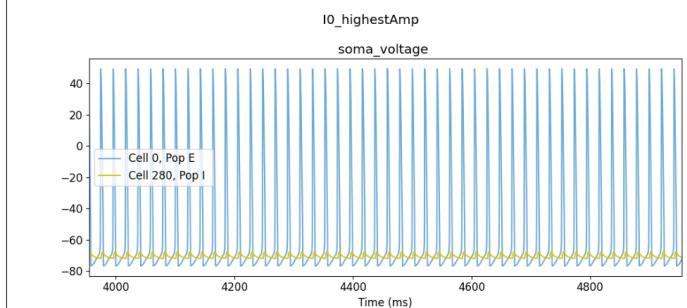
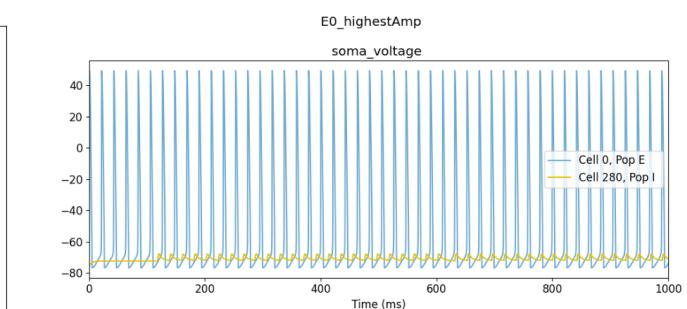
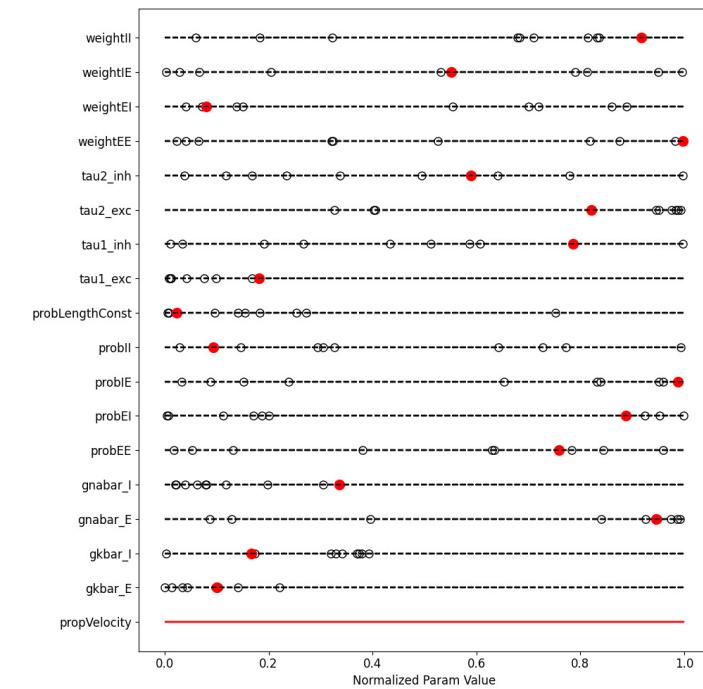
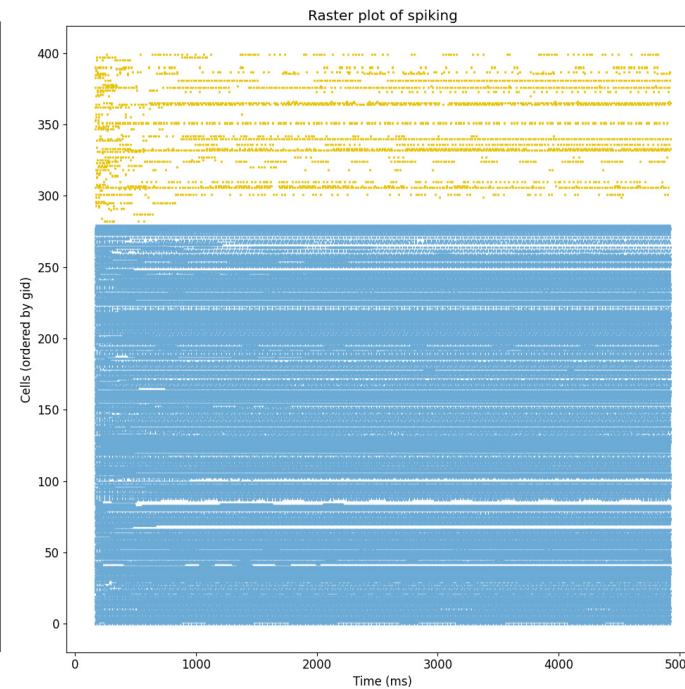
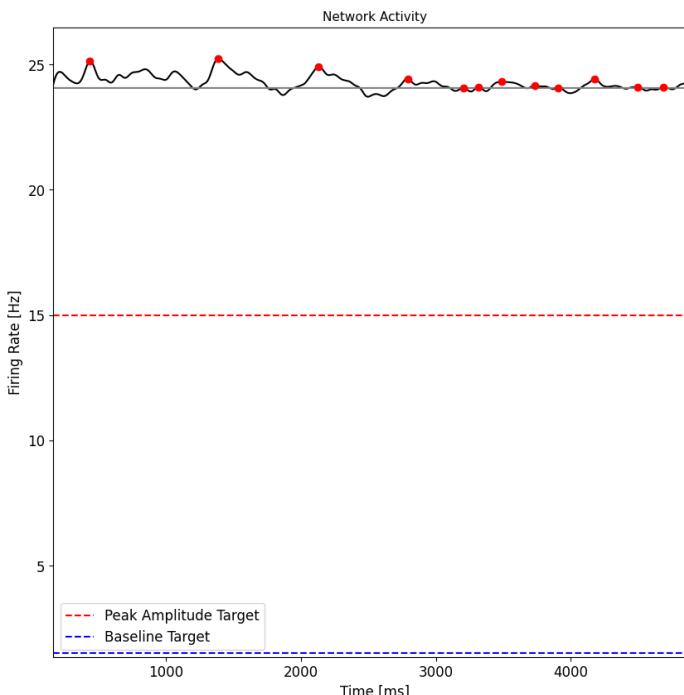
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```

burstAmp_Fitness: {'Value': 0.3566348212475204, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.6382546930492135, 'Fit': 1000}
IBI_fitness: {'Value': 372.5, 'Fit': 3.7493870243999896}
baseline_fitness: {'Value': 24.275087945759115, 'Fit': 1000}
slopeFitness: {'Value': -0.0009422315962132643, 'Fit': 1.0018862399090653}
thresh: {'Value': 24.057384981510886, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 95.20958083832335, 'Fit': 2.6066968167108455}
E_rate_fitness: {'Value': 84.48809523809523, 'Fit': 1000}
I_rate_fitness: {'Value': 7.22222222222222, 'Fit': 9.754978575143397}
maxFitness: 1000
average_fitness: 557.4569942951293
average_scaled_fitness: 557.0131718875825

```

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}

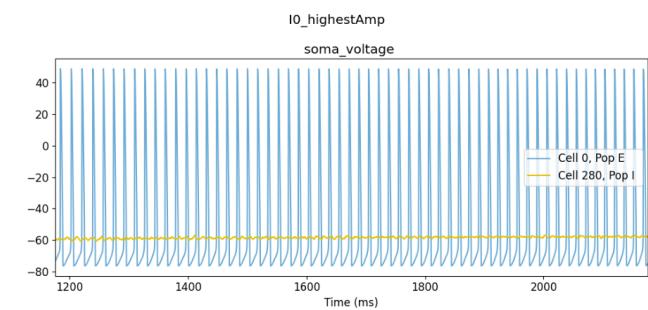
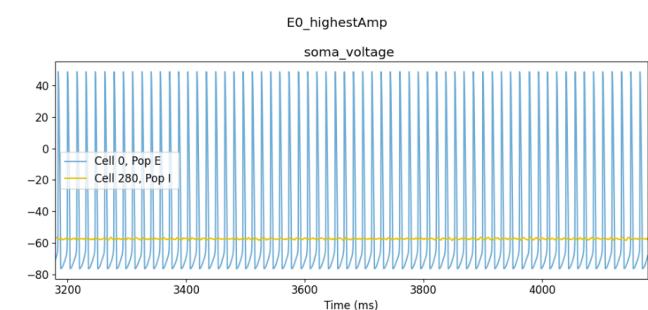
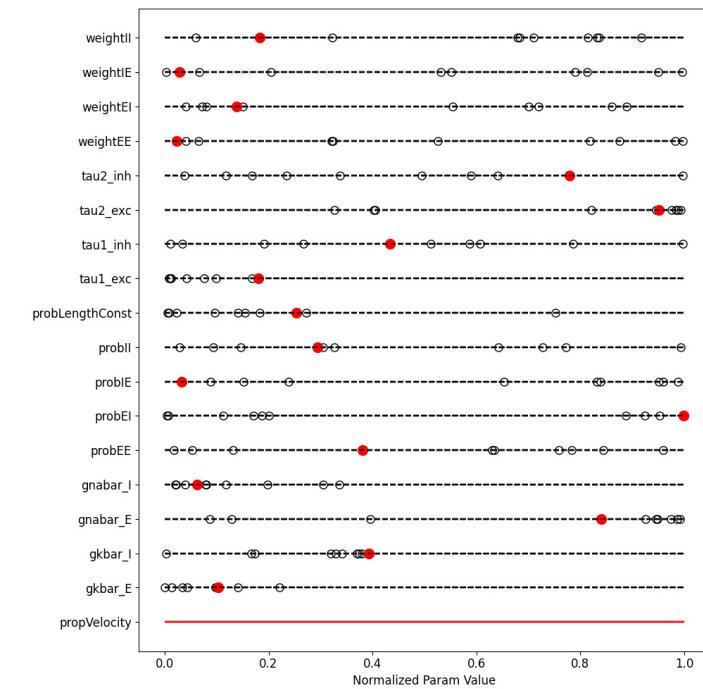
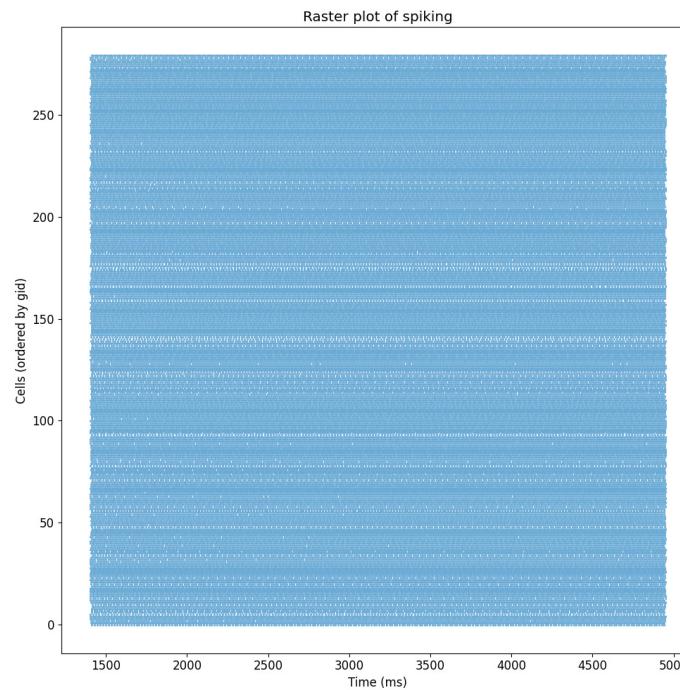
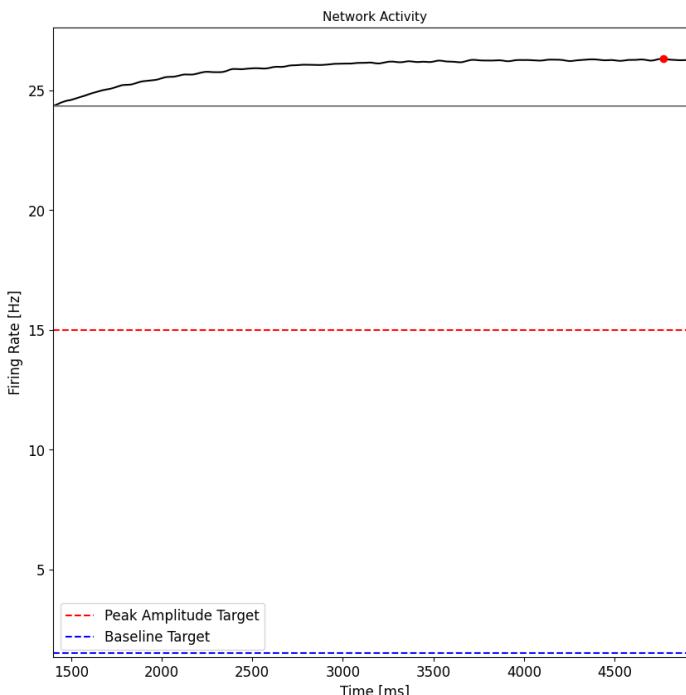
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```

burstAmp_Fitness: {'Value': 1.971883394334494, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20202020202020202, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 25.917413431804516, 'Fit': 1000}
slopeFitness: {'Value': 0.00281145716116358, 'Fit': 1.0056387525768662}
thresh: {'Value': 24.34445926656314, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 70.95808383233533, 'Fit': 1000}
E_rate_fitness: {'Value': 66.89682539682539, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 889.000626528064
average_scaled_fitness: 888.8888888888889

```

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}

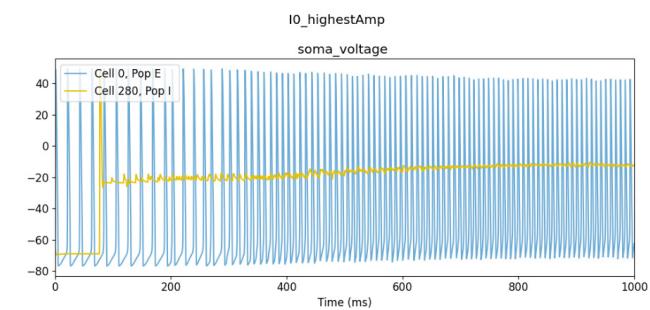
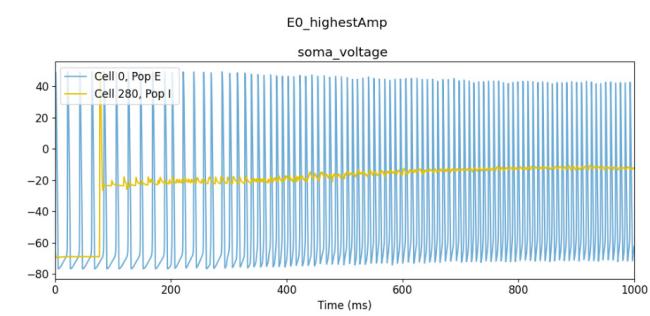
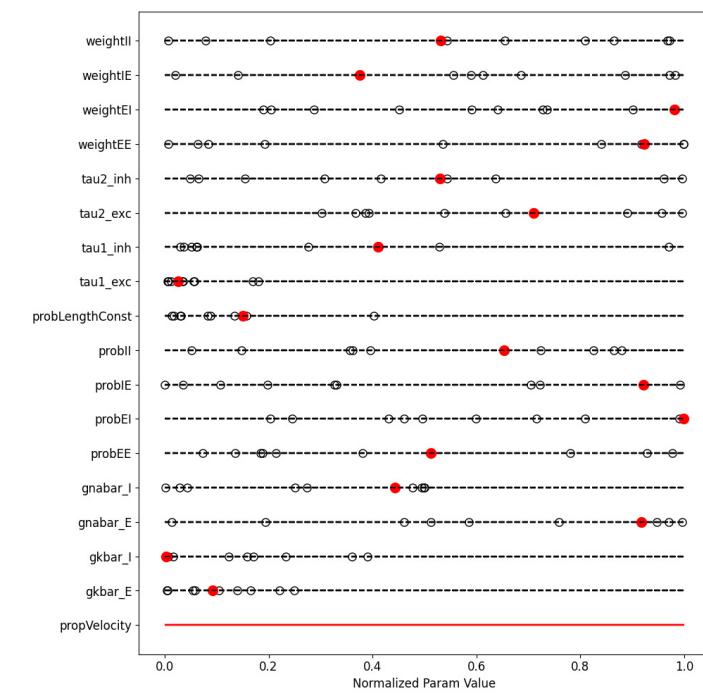
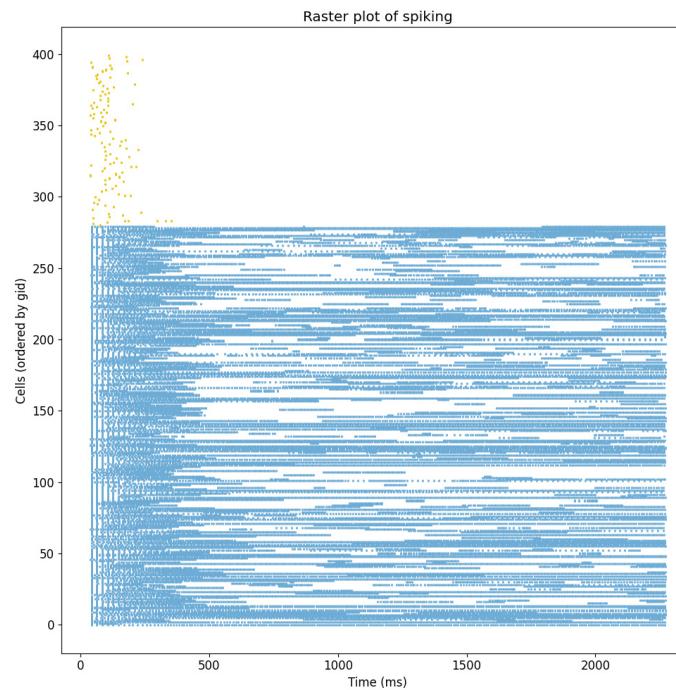
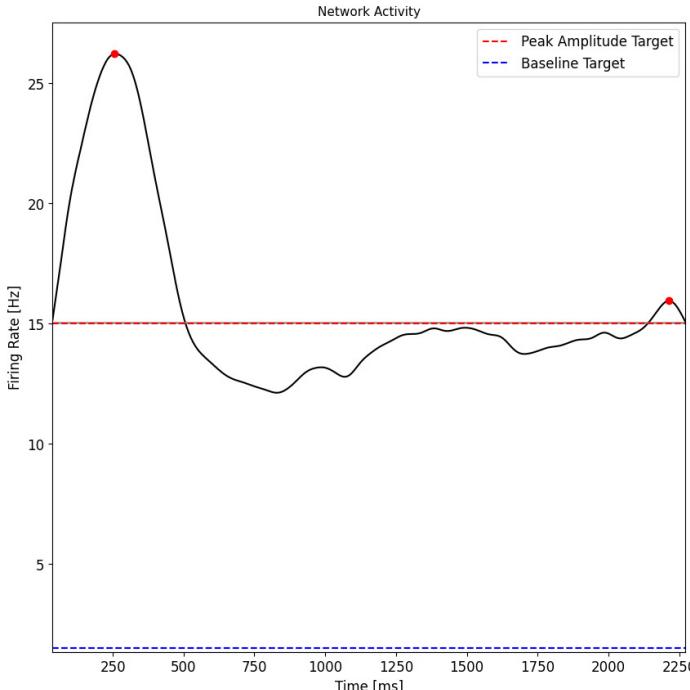
```

```

burstAmp_Fitness: {'Value': 6.053085495719183, 'Fit': 503.36760654478763}
burst_peak_frequency_fitness: {'Value': 0.8800880088008801, 'Fit': 26.589809817044}
IBI_fitness: {'Value': 1957.5, 'Fit': 1.6841314988928175}
baseline_fitness: {'Value': 15.620209020961978, 'Fit': 1000}
slopeFitness: {'Value': -0.021533652336925956, 'Fit': 1.0440081591146773}
thresh: {'Value': 15.026332099599141, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 44.76047904191617, 'Fit': 1000}
E_rate_fitness: {'Value': 61.90873015873016, 'Fit': 1000}
I_rate_fitness: {'Value': 0.5185185185185185, 'Fit': 1000}
maxFitness: 1000
average_fitness: 614.7428395577599
average_scaled_fitness: 614.3402075878391

```

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}

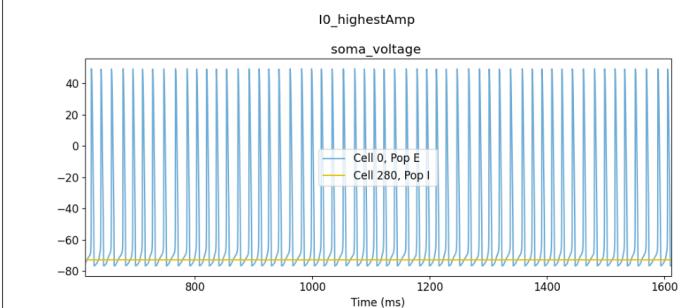
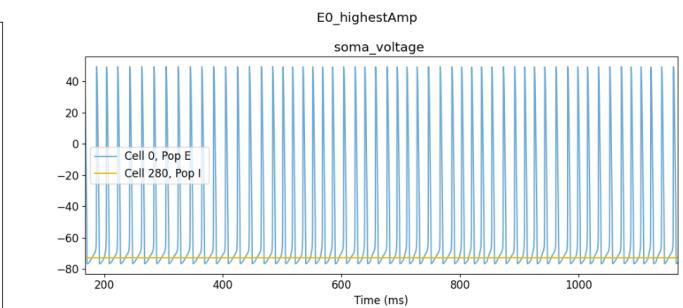
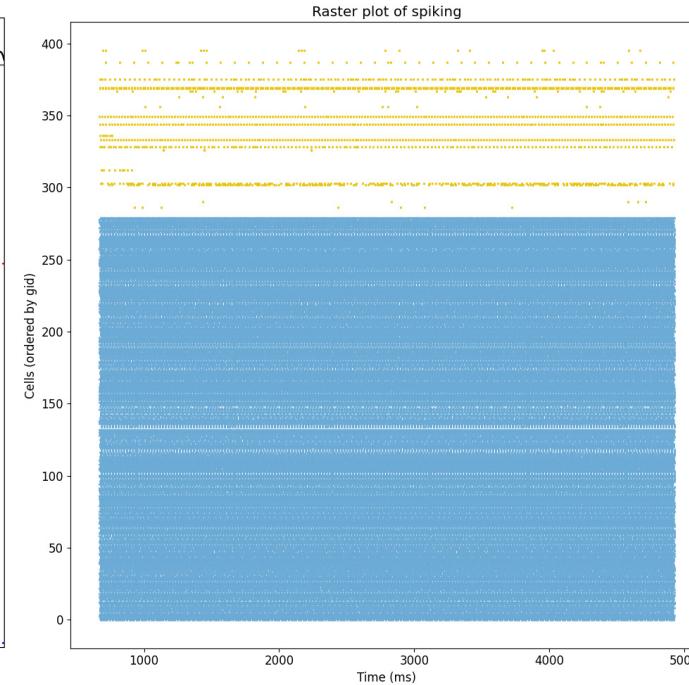
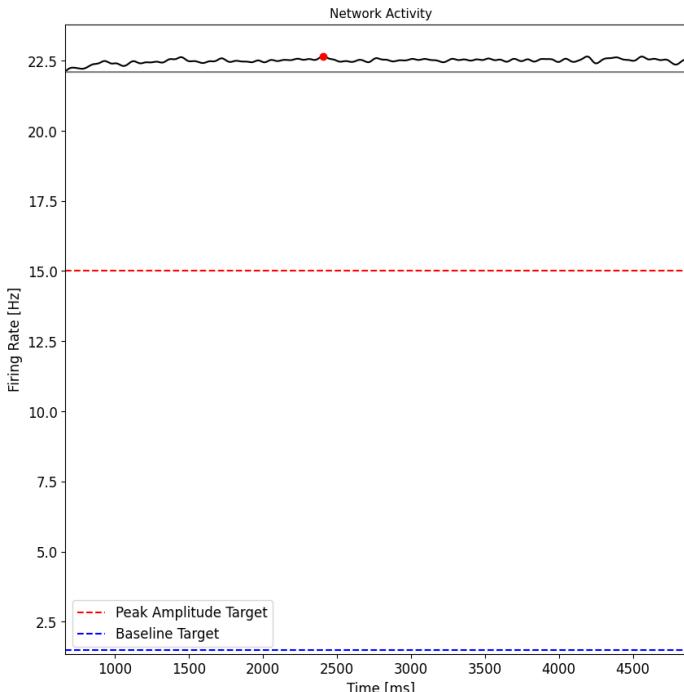
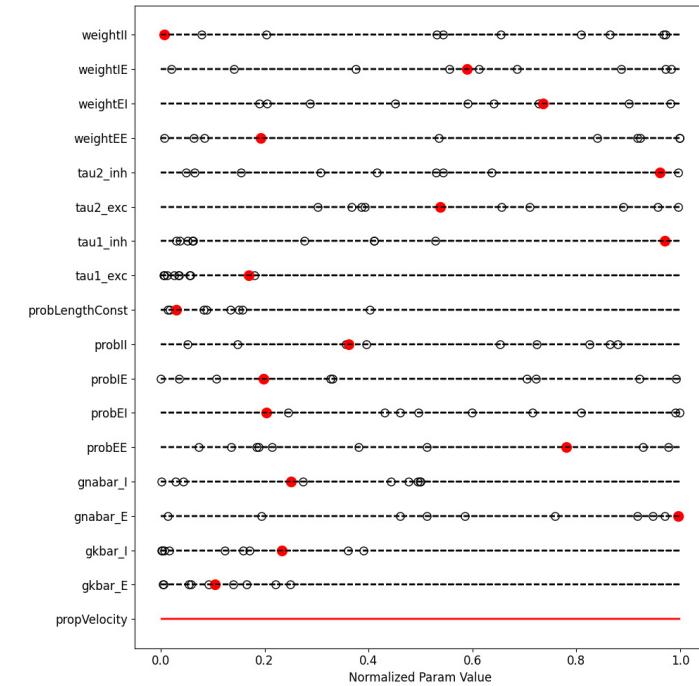
```

```

burstAmp_Fitness: {'Value': 0.568430522204121, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 22.494449795268128, 'Fit': 1000}
slopeFitness: {'Value': 0.00024939402914378364, 'Fit': 1.0004989124737358}
thresh: {'Value': 22.092918542662385, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 85.17964071856288, 'Fit': 19.376710520807436}
E_rate_fitness: {'Value': 73.69444444444444, 'Fit': 1000}
I_rate_fitness: {'Value': 5.898148148148148, 'Fit': 11.136023180645125}
maxFitness: 1000
average_fitness: 670.1681369571029
average_scaled_fitness: 669.8378100451132

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_3/gen_3_cand_28_data.json

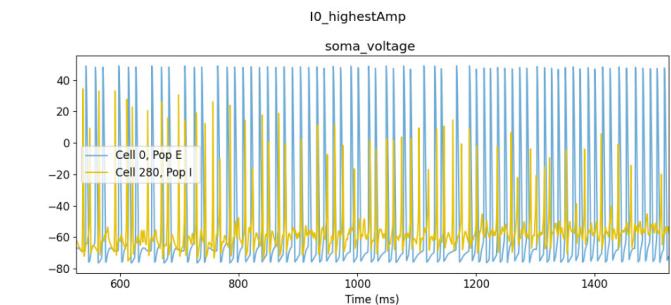
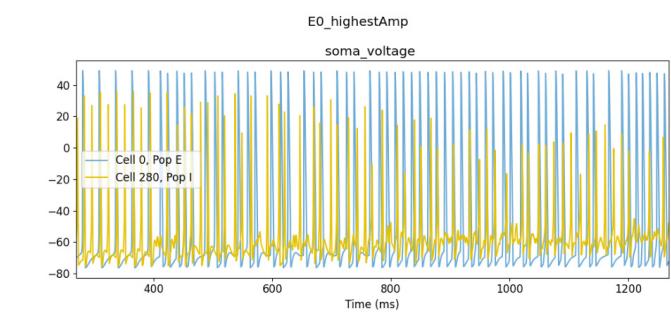
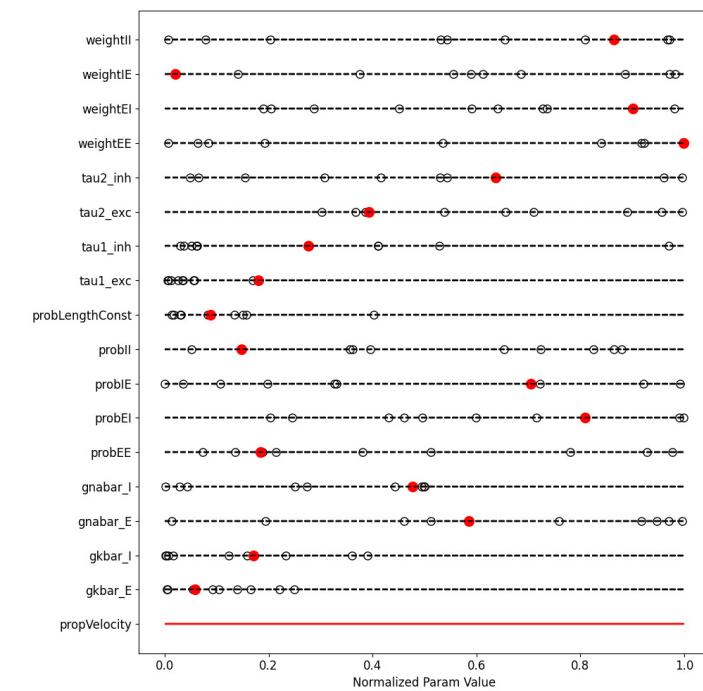
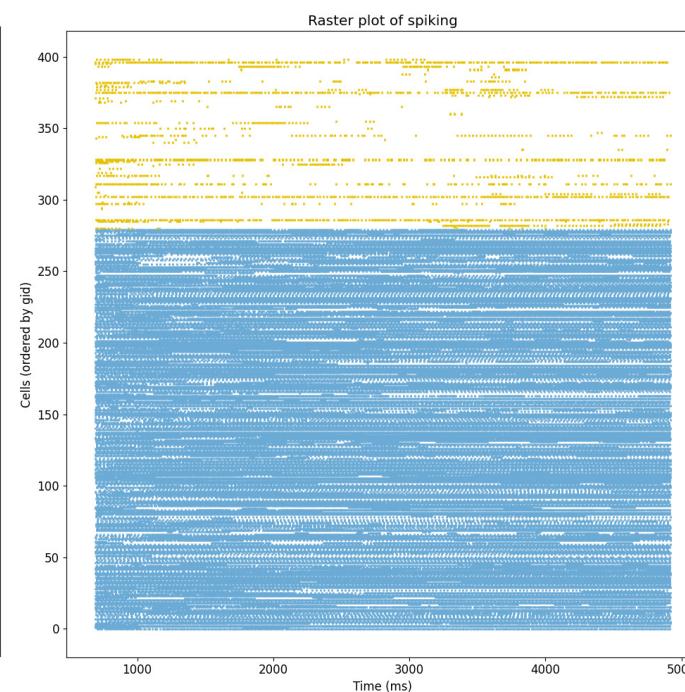
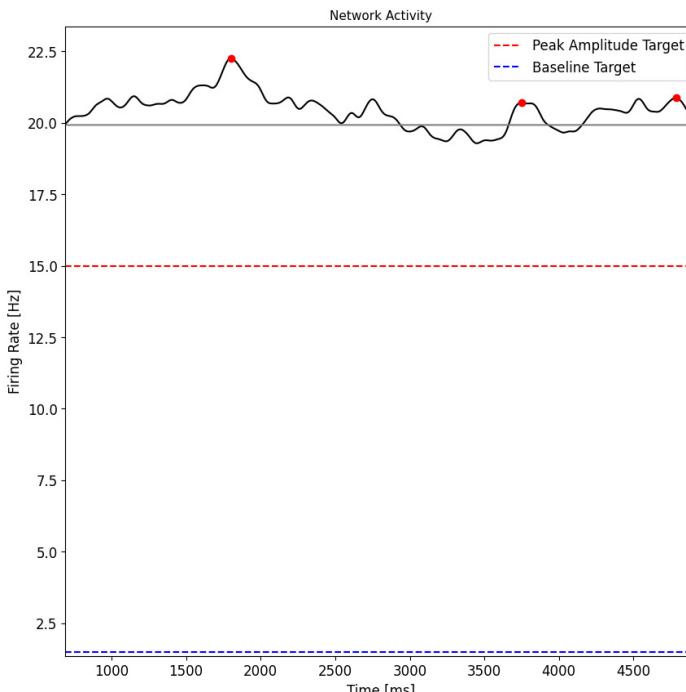
SimLabel: gen_3_cand_28

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_osci: {'target': 100, 'width': 5, 'min': 75}
```

```
burstAmp_Fitness: {'Value': 1.3532718068838168, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.6097560975609756, 'Fit': 5.2516199208692305}
IBI_fitness: {'Value': 1492.5, 'Fit': 2.1807922821410575}
baseline_fitness: {'Value': 20.432898282150195, 'Fit': 1000}
slopeFitness: {'Value': -0.0015034495251713962, 'Fit': 1.0030114243058177}
thresh: {'Value': 19.92293560740566, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 84.58083832335329, 'Fit': 21.841947875304406}
E_rate_fitness: {'Value': 58.285714285714285, 'Fit': 1000}
I_rate_fitness: {'Value': 18.907407407407405, 'Fit': 3.0321115538168377}
maxFitness: 1000
average_fitness: 448.1454981173819
average_scaled_fitness: 447.5914260067823
```

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}

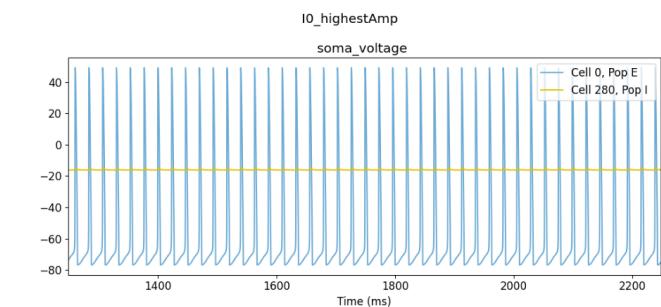
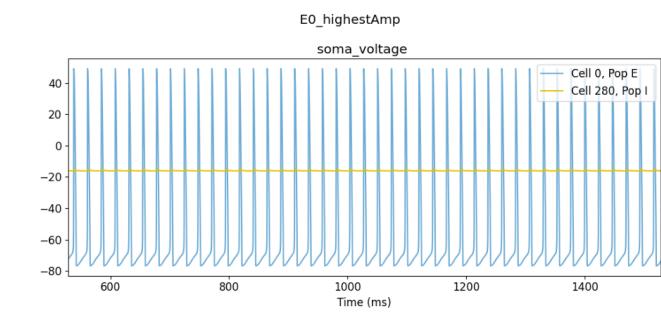
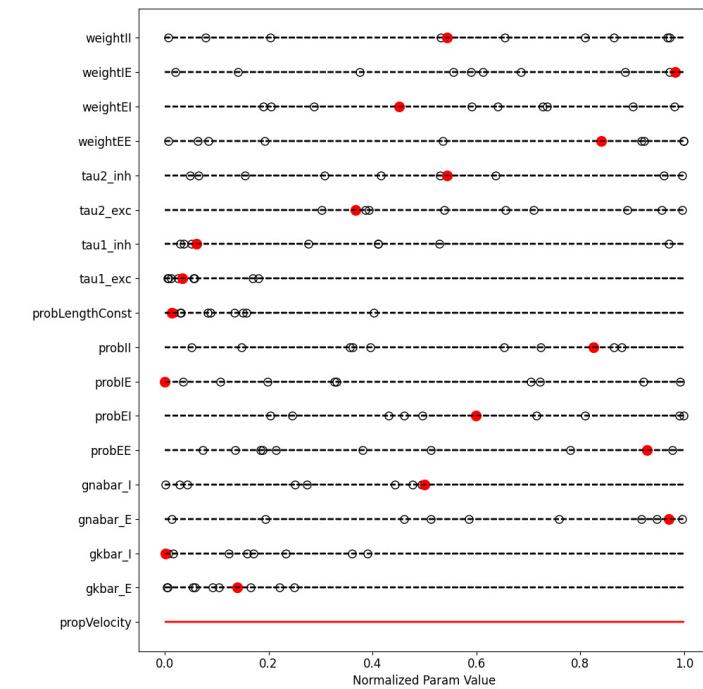
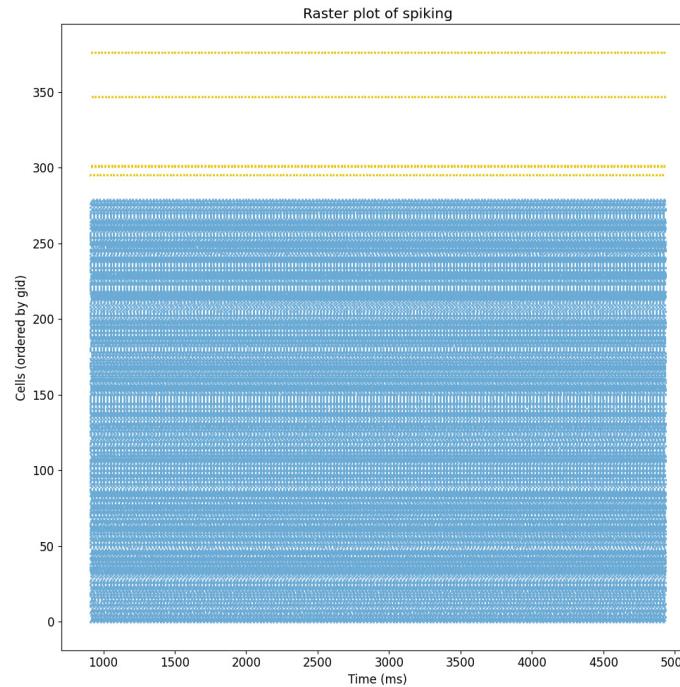
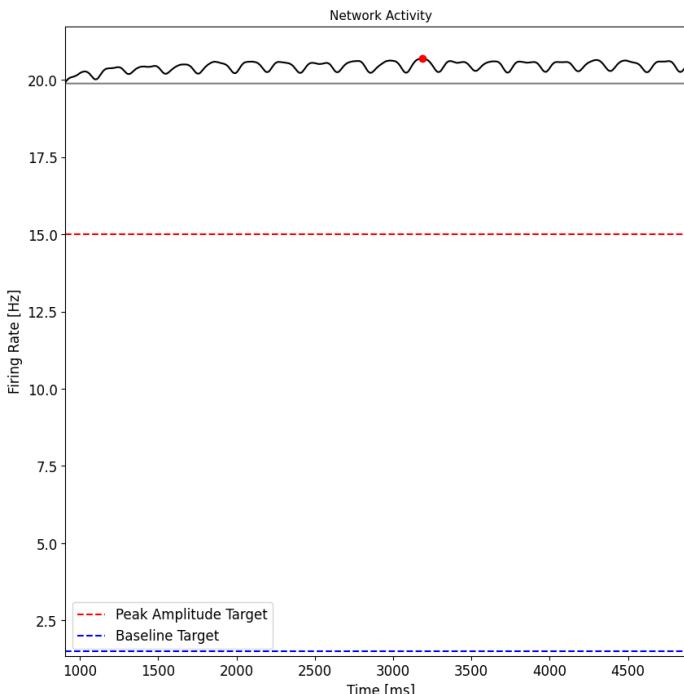
```

```

burstAmp_Fitness: {'Value': 0.816017261183628, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2026342451874367, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 20.4342164902611, 'Fit': 1000}
slopeFitness: {'Value': 0.00038602888169470196, 'Fit': 1.0007723558766997}
thresh: {'Value': 19.87963037782597, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 80.53892215568862, 'Fit': 49.01937209518987}
E_rate_fitness: {'Value': 64.03571428571429, 'Fit': 1000}
I_rate_fitness: {'Value': 1.4907407407407407, 'Fit': 1000}
maxFitness: 1000
average_fitness: 783.3355716056741
average_scaled_fitness: 783.1185226186091

```

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}

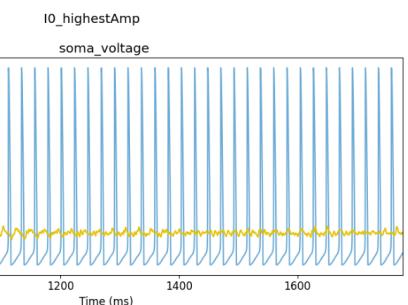
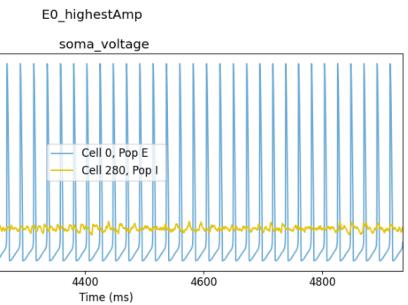
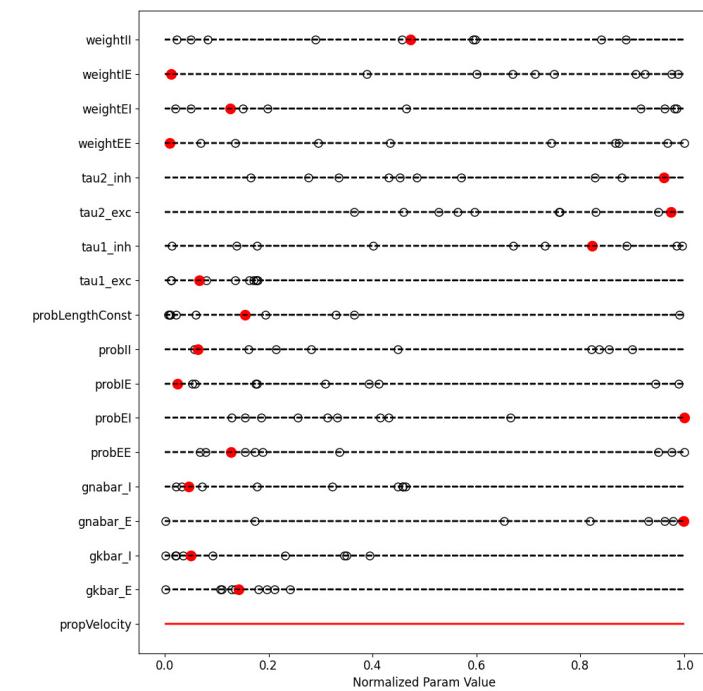
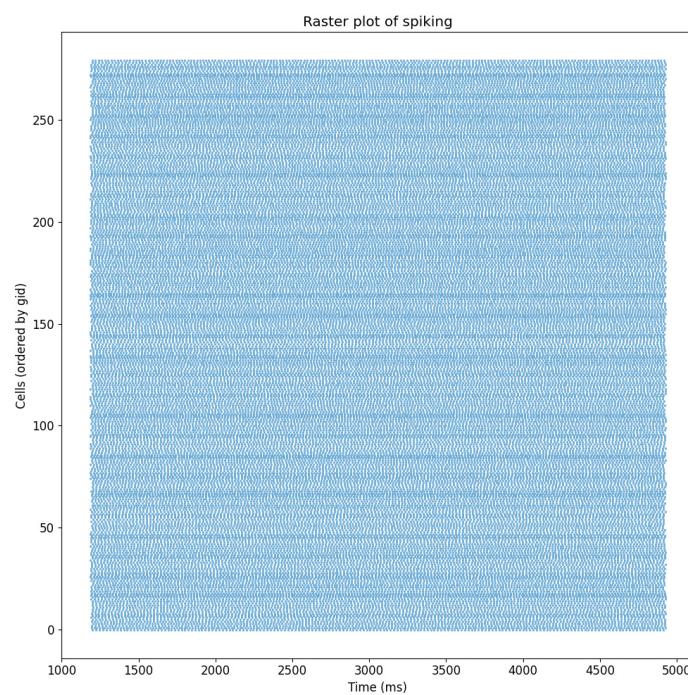
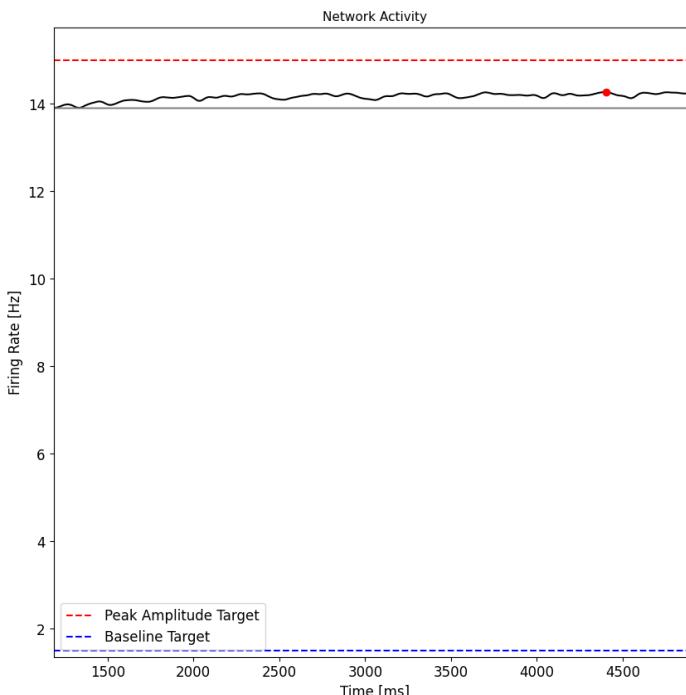
```

```

burstAmp_Fitness: {'Value': 0.3720017096377397, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 14.162666012763644, 'Fit': 1000}
slopeFitness: {'Value': 0.0004084469870925678, 'Fit': 1.0008172277229406}
thresh: {'Value': 13.900810335679413, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 74.8502994011976, 'Fit': 1000}
E_rate_fitness: {'Value': 46.742063492063494, 'Fit': 1000}
I_rate_fitness: {'Value': 0.39814814814814, 'Fit': 1000}
maxFitness: 1000
average_fitness: 889.0000908030803
average_scaled_fitness: 888.8888888888889

```

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}

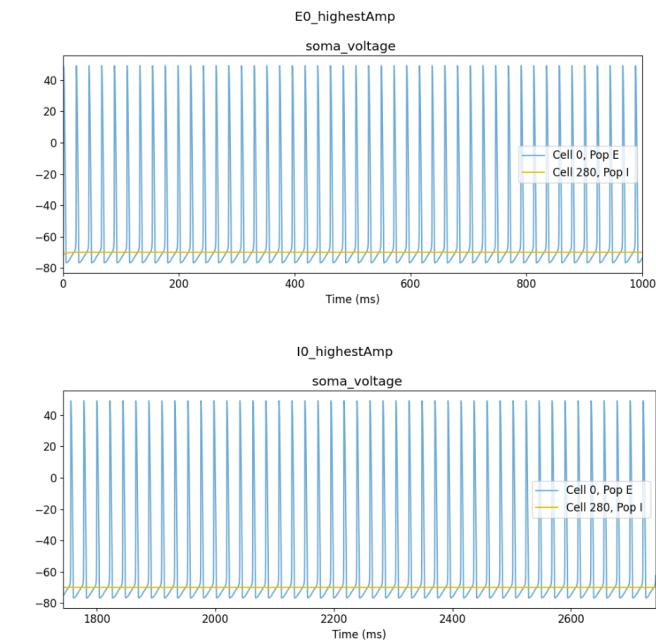
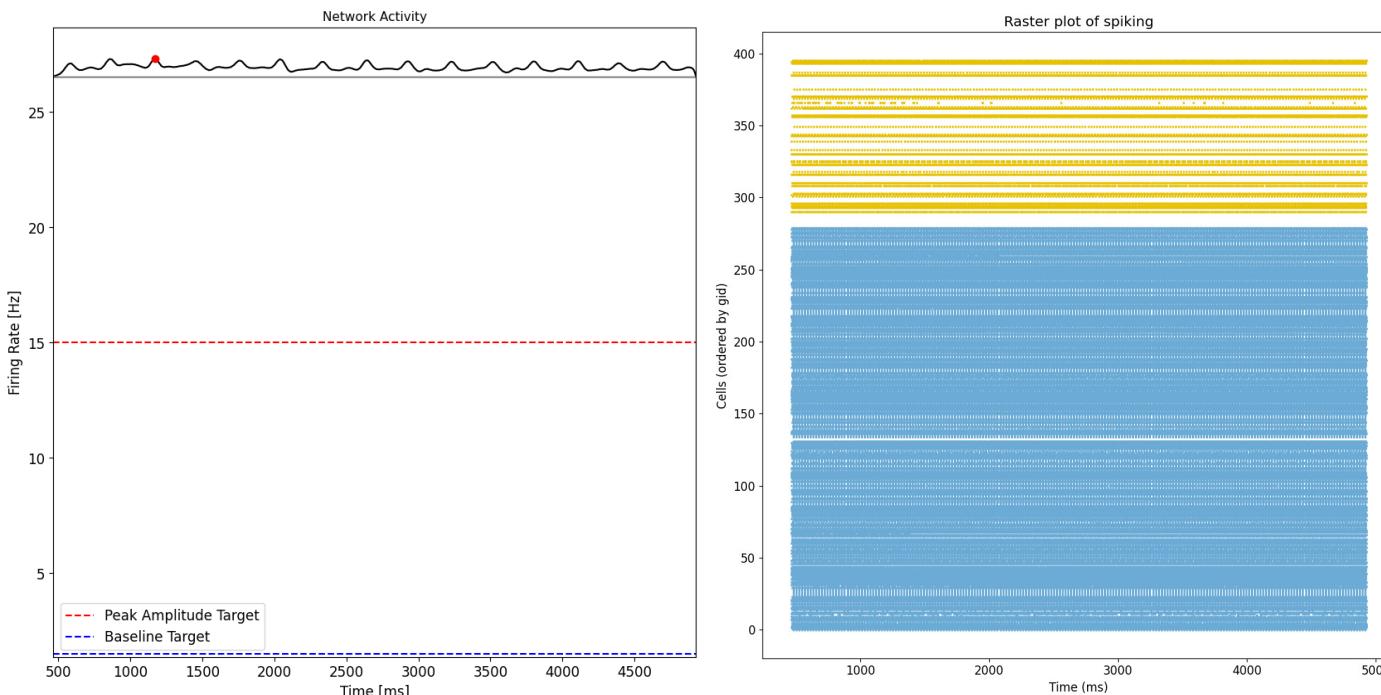
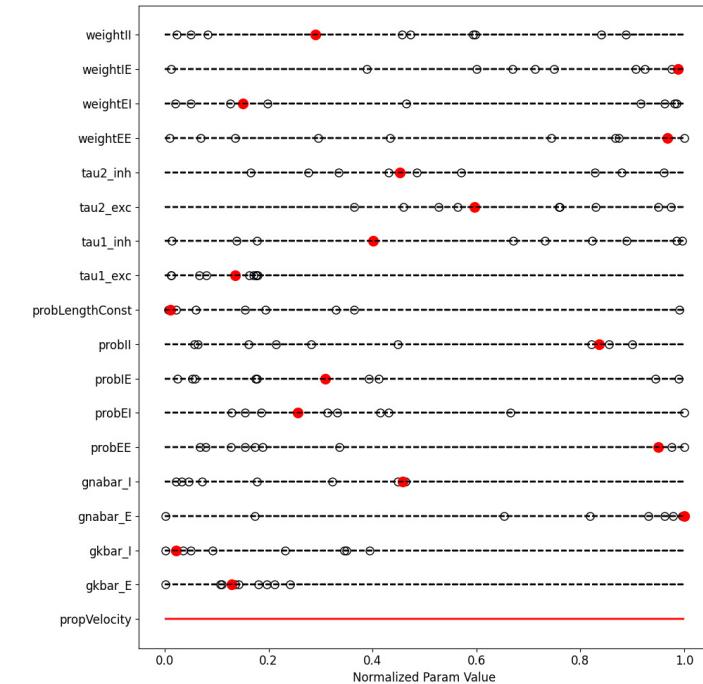
```

```

burstAmp_Fitness: {'Value': 0.797939553783543, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 26.944151655813325, 'Fit': 1000}
slopeFitness: {'Value': -0.00017023178565590908, 'Fit': 1.0003405215356116}
thresh: {'Value': 26.513753088494283, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 89.22155688622755, 'Fit': 8.633833586617246}
E_rate_fitness: {'Value': 84.17460317460316, 'Fit': 1000}
I_rate_fitness: {'Value': 20.47222222222222, 'Fit': 2.592902171122196}
maxFitness: 1000
average_fitness: 668.0252306976972
average_scaled_fitness: 667.6928103502929

```

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}

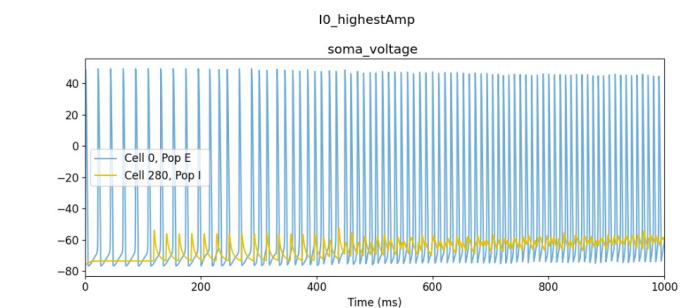
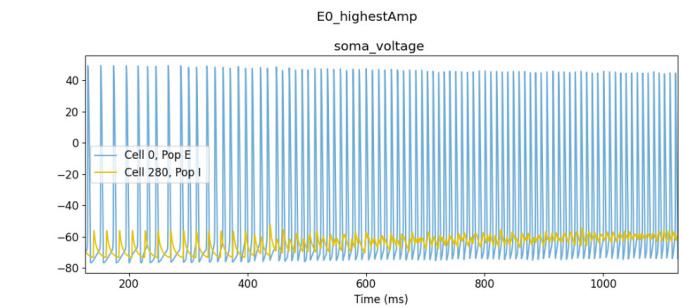
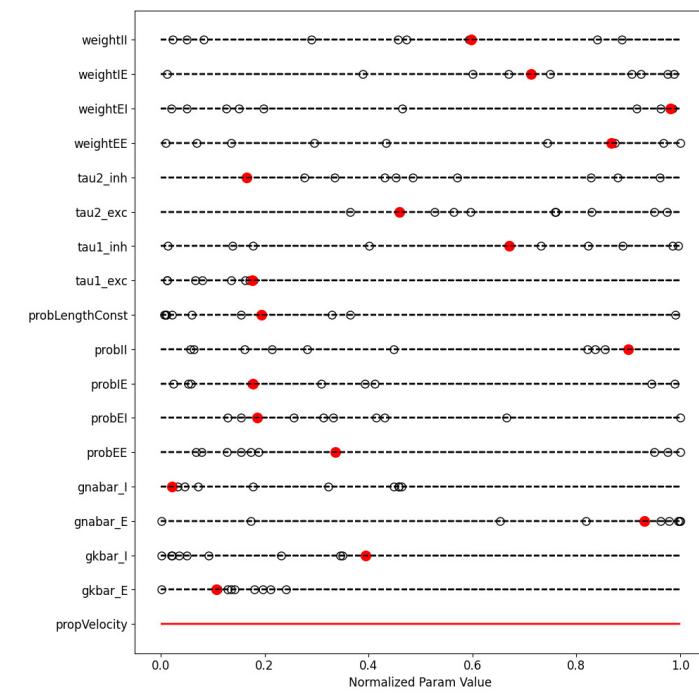
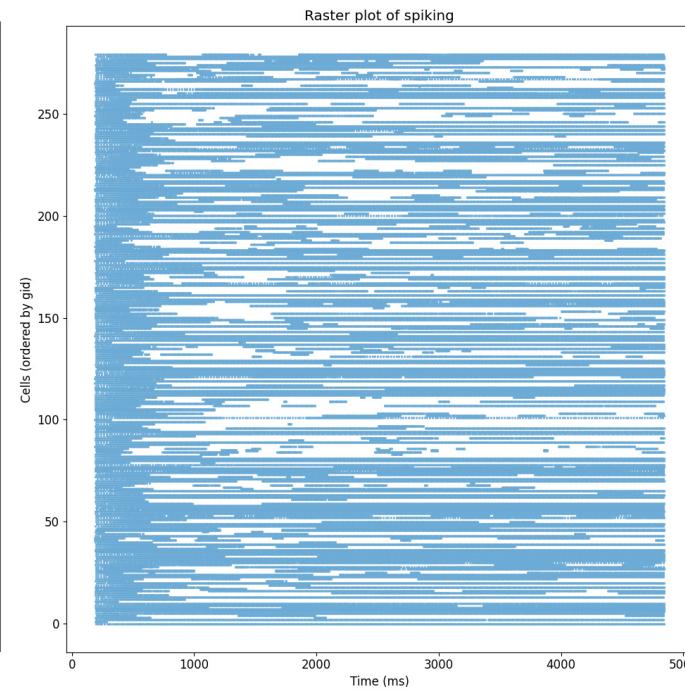
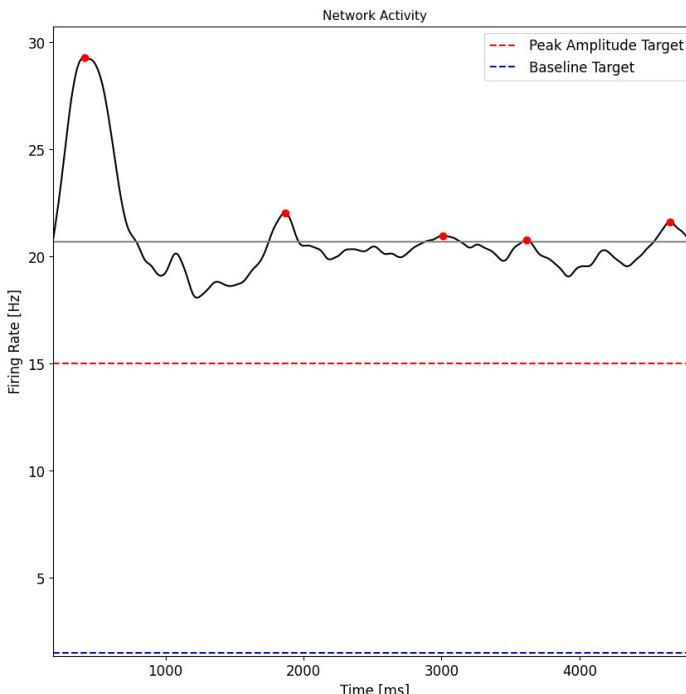
```

```

burstAmp_Fitness: {'Value': 2.2534198349499555, 'Fit': 804.9185761497234}
burst_peak_frequency_fitness: {'Value': 1.0319917440660475, 'Fit': 66.15169173083845}
IBI_fitness: {'Value': 1061.25, 'Fit': 2.6671247884990206}
baseline_fitness: {'Value': 20.820499897315287, 'Fit': 1000}
slopeFitness: {'Value': -0.004886530149651879, 'Fit': 1.0098209726092082}
thresh: {'Value': 20.689922018390643, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.11377245508982, 'Fit': 3.9639678620569456}
E_rate_fitness: {'Value': 84.31746031746032, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 542.0790201670808
average_scaled_fitness: 541.6161345262196

```

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}

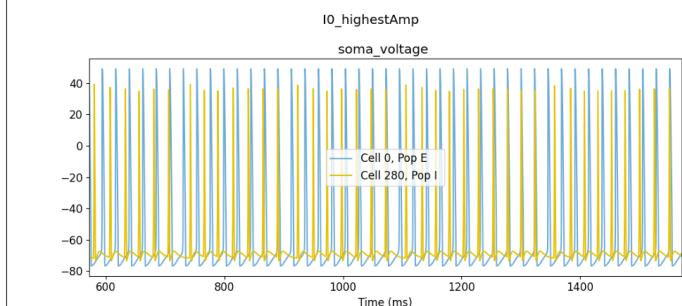
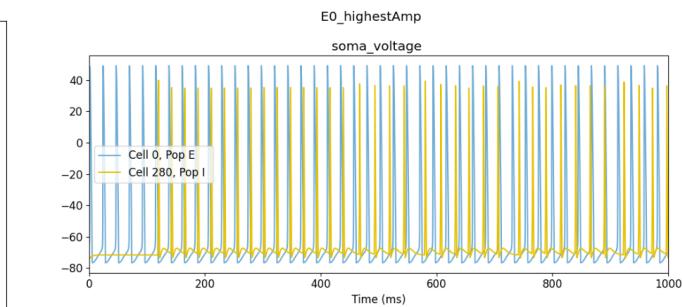
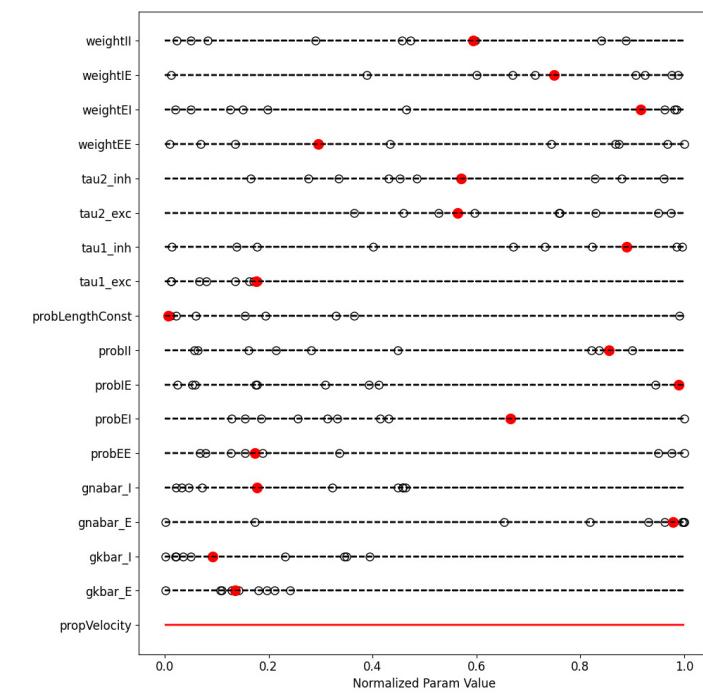
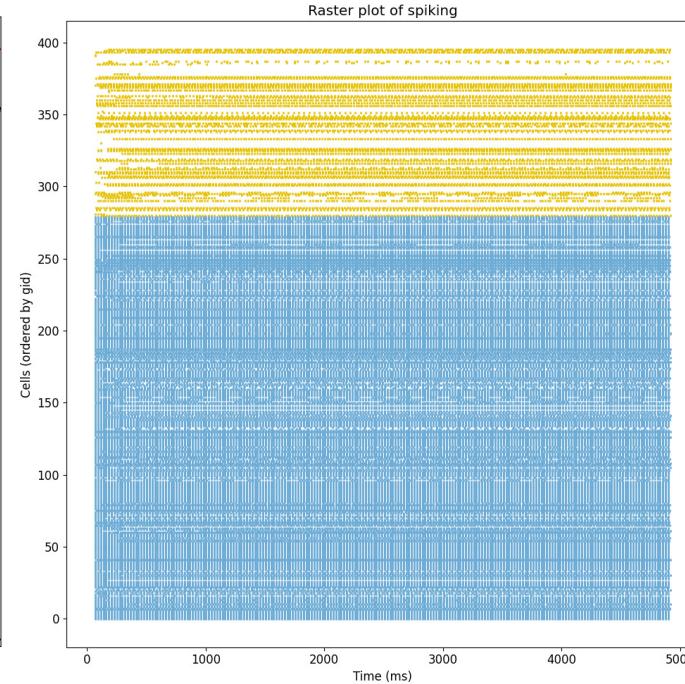
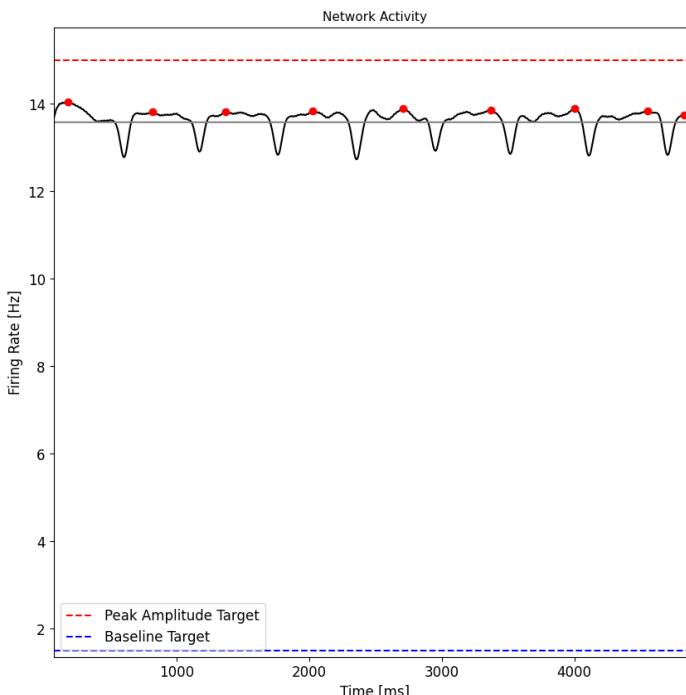
```

```

burstAmp_Fitness: {'Value': 0.2804752752403178, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.829268292682927, 'Fit': 1000}
IBI_fitness: {'Value': 581.25, 'Fit': 3.3580921933310286}
baseline_fitness: {'Value': 13.637603968026387, 'Fit': 1000}
slopeFitness: {'Value': -0.00013106585364120845, 'Fit': 1.0002621660668005}
thresh: {'Value': 13.579402424766844, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 97.0059880239521, 'Fit': 1.8199379283585044}
E_rate_fitness: {'Value': 42.039682539682545, 'Fit': 1000}
I_rate_fitness: {'Value': 15.009259259259258, 'Fit': 4.477541278806097}
maxFitness: 1000
average_fitness: 556.7395370629513
average_scaled_fitness: 556.2957164551997

```

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}

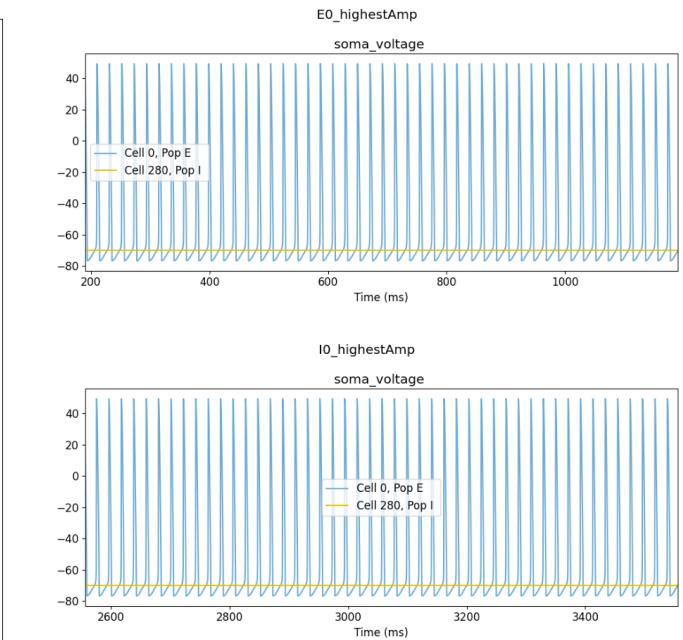
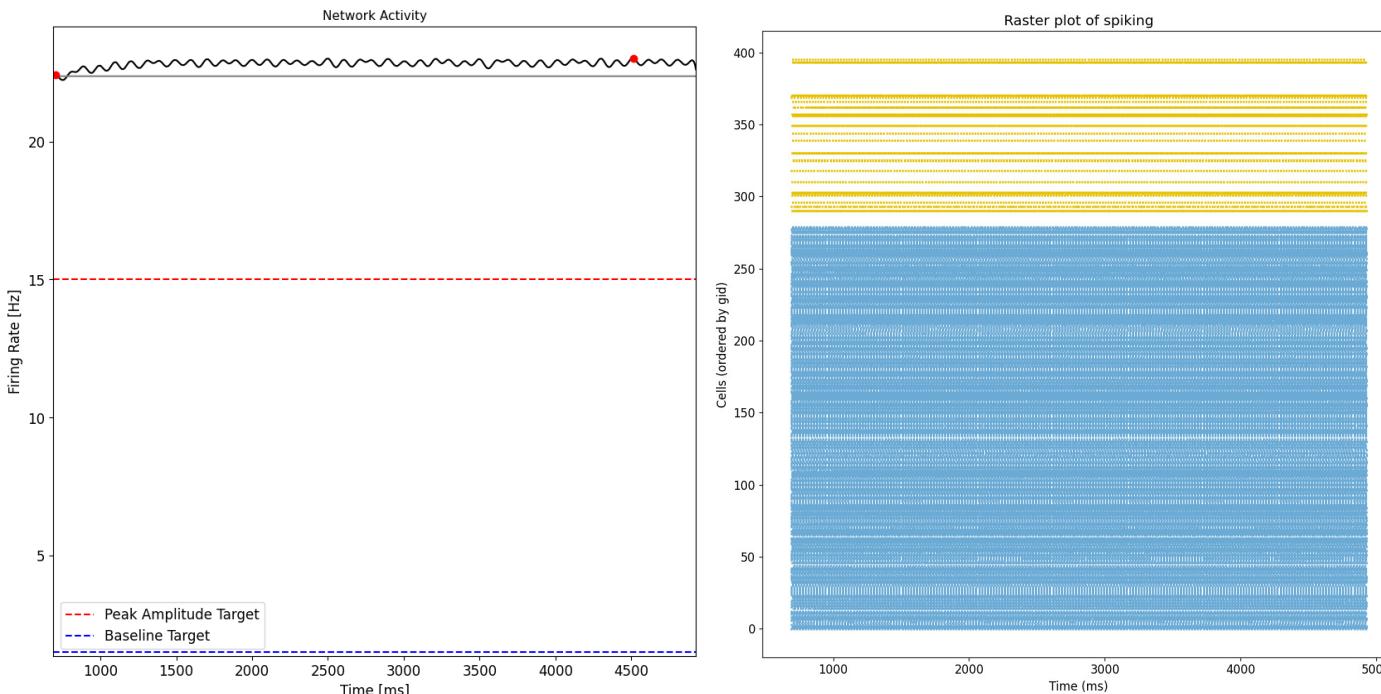
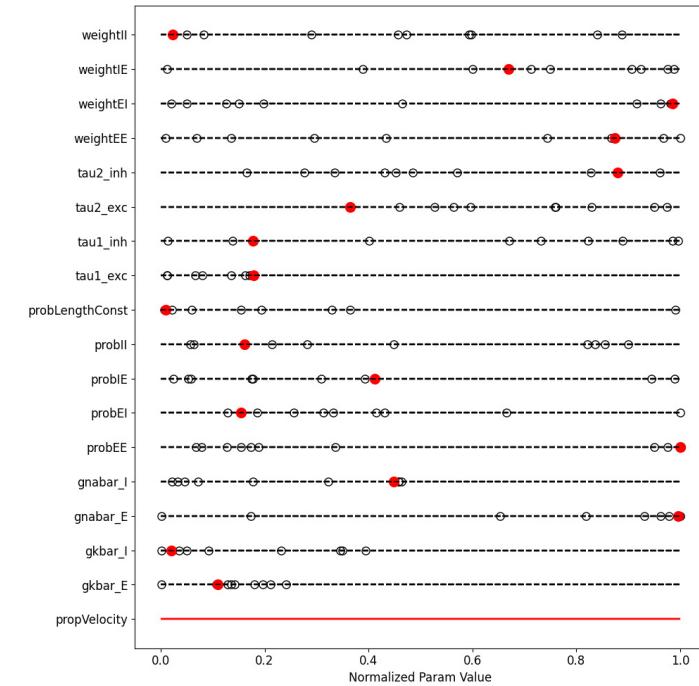
```

```

burstAmp_Fitness: {'Value': 0.3470723708658827, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.4058853373921867, 'Fit': 1.5454452002664065}
IBI_fitness: {'Value': 3810.0, 'Fit': 1.499302500056767}
baseline_fitness: {'Value': 22.821205872782397, 'Fit': 1000}
slopeFitness: {'Value': 0.0003310911636317119, 'Fit': 1.0006624016183816}
thresh: {'Value': 22.367425786628807, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 84.73053892215569, 'Fit': 21.197690044342718}
E_rate_fitness: {'Value': 71.23809523809524, 'Fit': 1000}
I_rate_fitness: {'Value': 11.324074074074074, 'Fit': 6.472695213213936}
maxFitness: 1000
average_fitness: 447.9684217066109
average_scaled_fitness: 447.41547114486957

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_5/gen_5_cand_31_data.json

SimLabel: gen_5_cand_31

Generation Rank: 7/10

```

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}

```

```

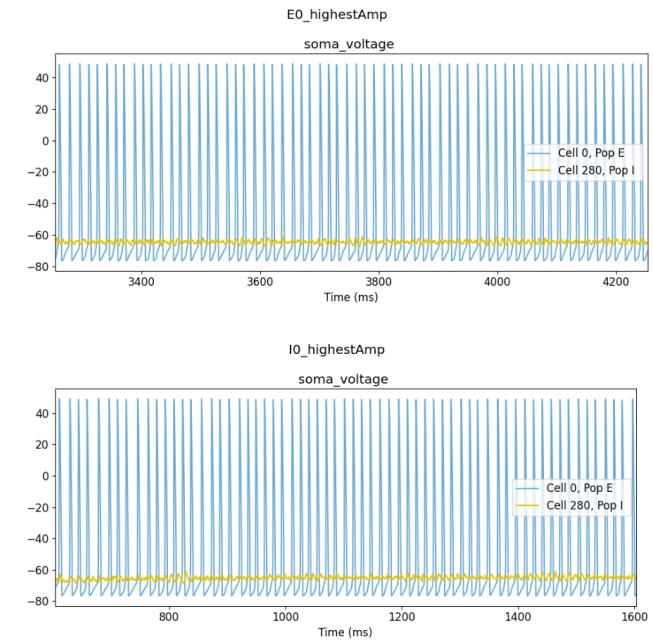
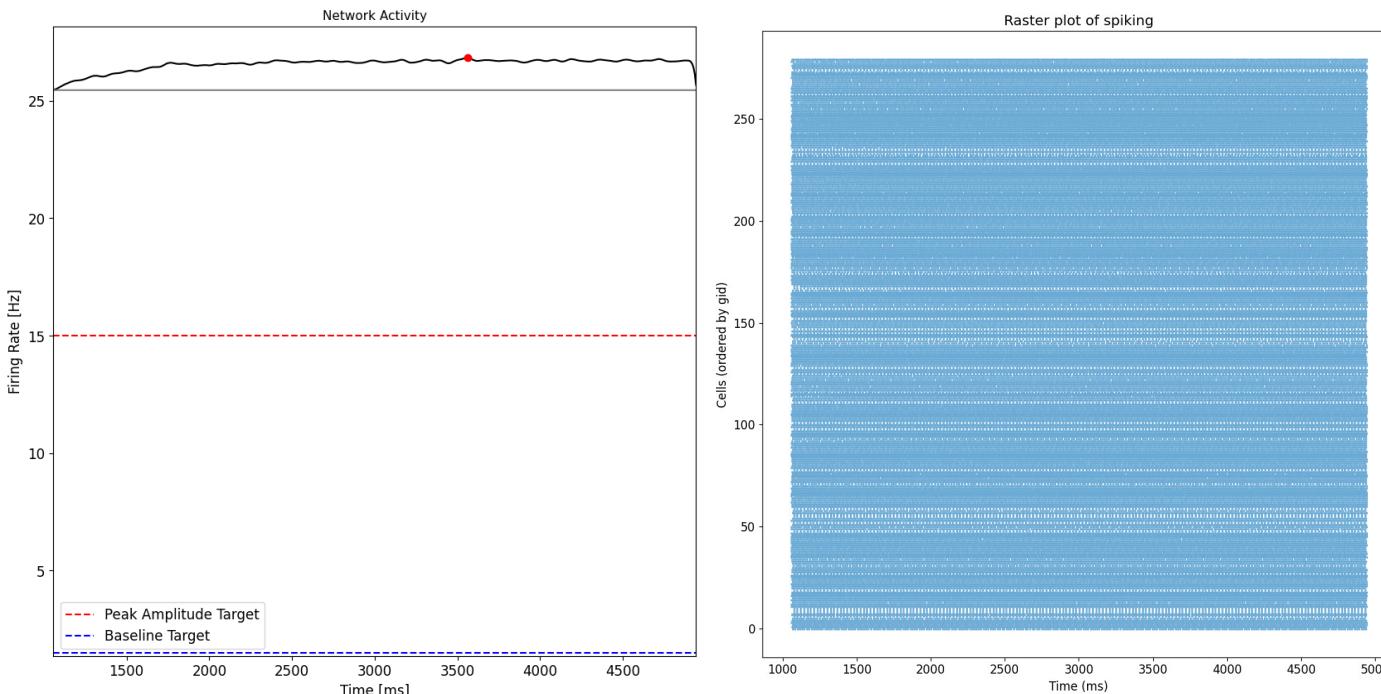
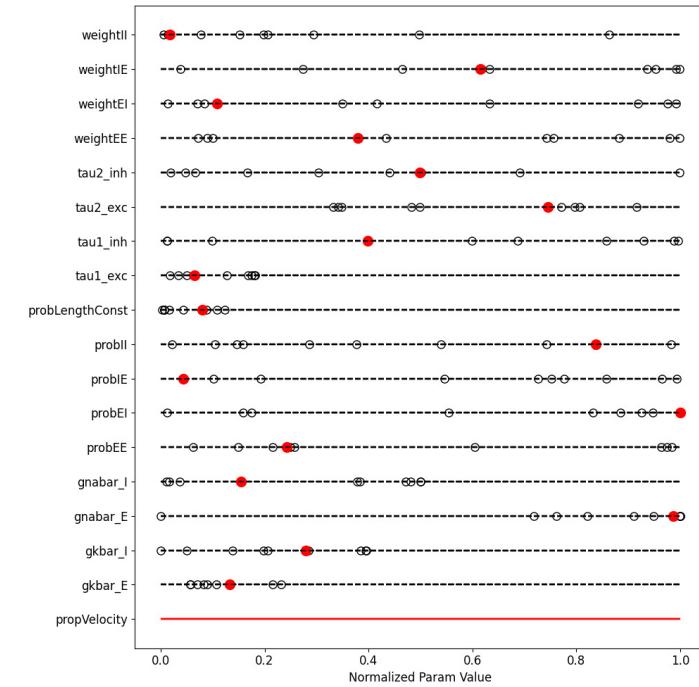
burstAmp_Fitness: {'Value': 1.3782775009791344, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20232675771370764, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 26.567902733174517, 'Fit': 1000}
slopeFitness: {'Value': 0.00119116630462048, 'Fit': 1.0023851726184059}
thresh: {'Value': 25.455435524284592, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 77.69461077844312, 'Fit': 86.58077942242943}
E_rate_fitness: {'Value': 76.47619047619047, 'Fit': 1000}
I_rate_fitness: {'Value': 0.3333333333333333, 'Fit': 1000}
maxFitness: 1000
average_fitness: 787.5092405105609
average_scaled_fitness: 787.296029204078

```

```

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}

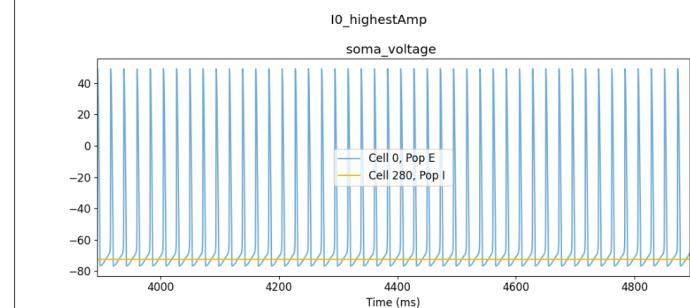
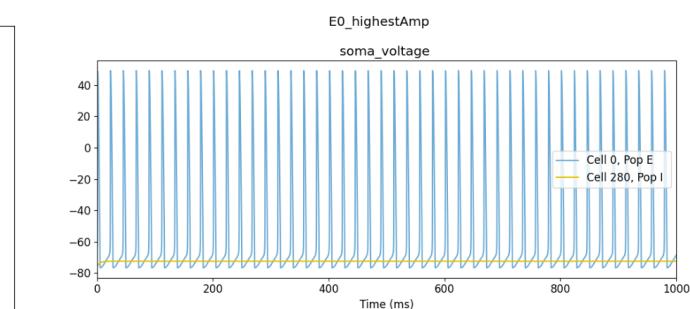
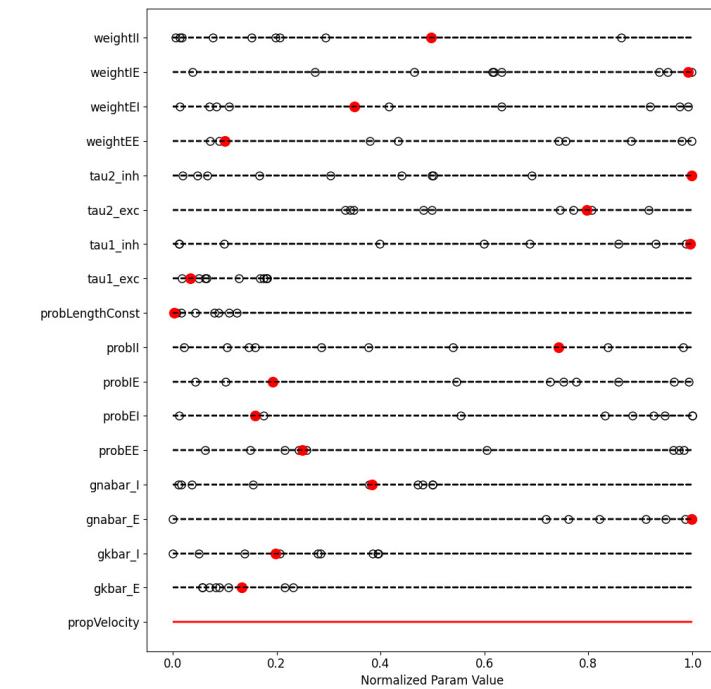
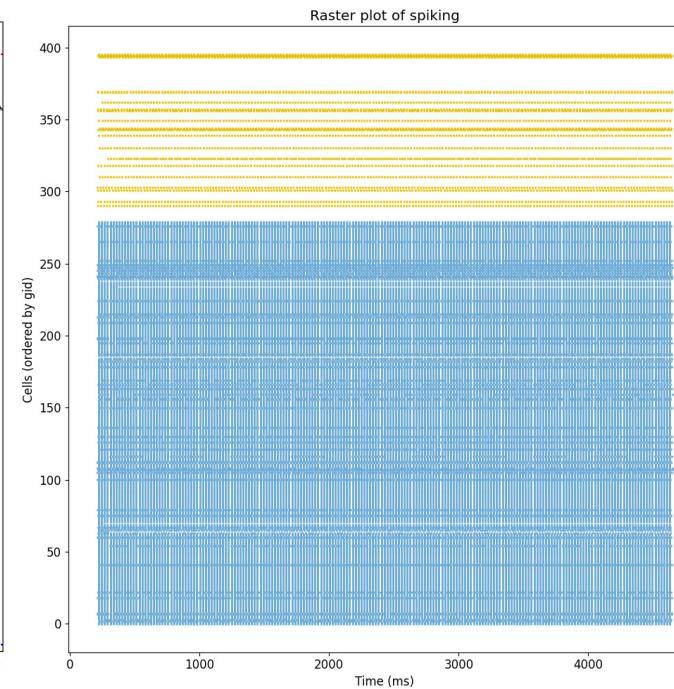
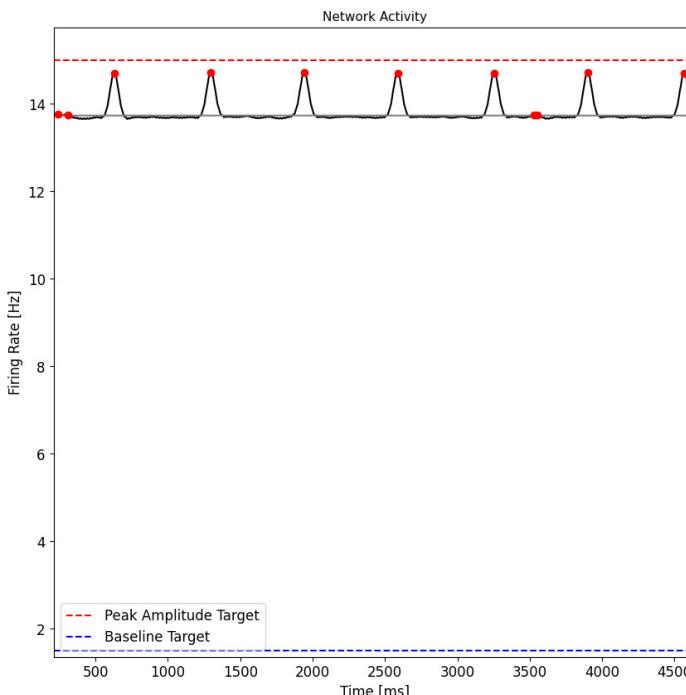
```

```

burstAmp_Fitness: {'Value': 0.6230167083667538, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.365591397849462, 'Fit': 1000}
IBI_fitness: {'Value': 432.75, 'Fit': 3.637374575837555}
baseline_fitness: {'Value': 13.812715487851316, 'Fit': 1000}
slopeFitness: {'Value': 9.77195116891993e-05, 'Fit': 1.0001954581228285}
thresh: {'Value': 13.73309323183863, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 88.77245508982035, 'Fit': 9.445221781427623}
E_rate_fitness: {'Value': 45.69444444444444, 'Fit': 1000}
I_rate_fitness: {'Value': 7.527777777777778, 'Fit': 9.46141758464099}
maxFitness: 1000
average_fitness: 558.1715788222255
average_scaled_fitness: 557.7292215984077

```

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}

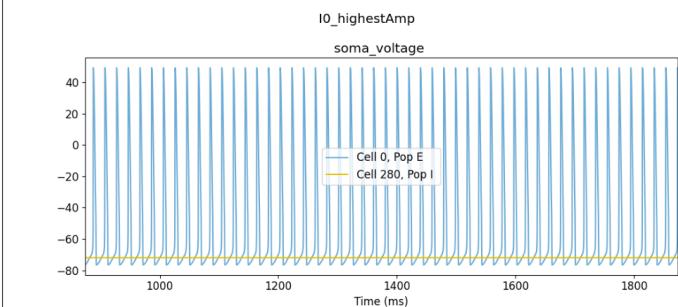
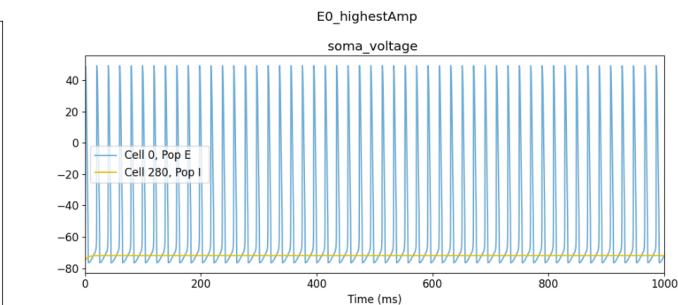
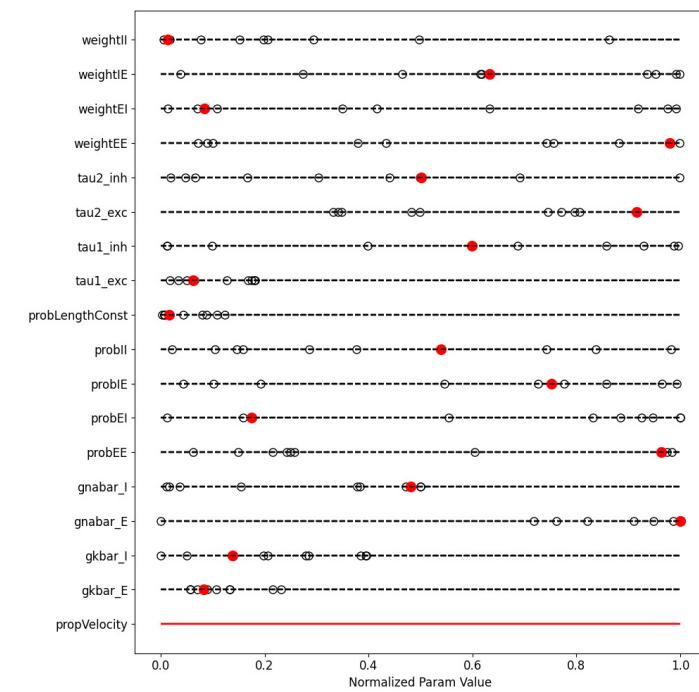
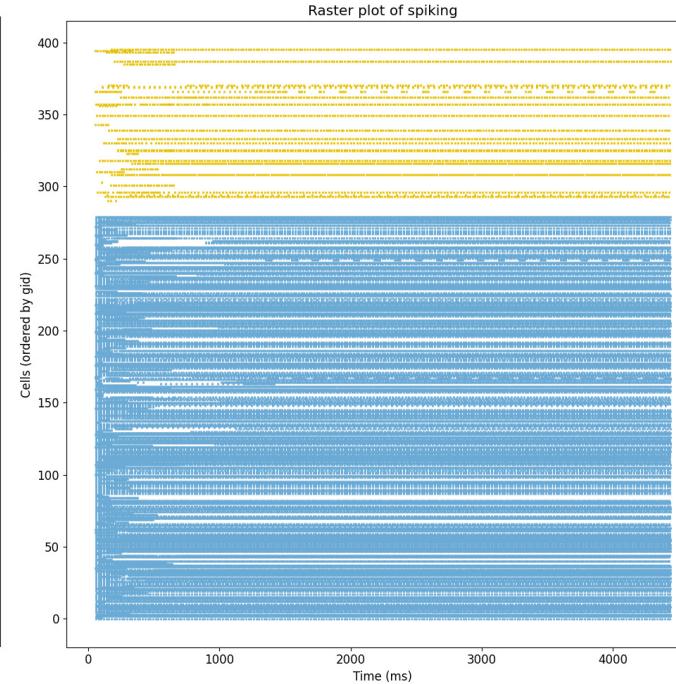
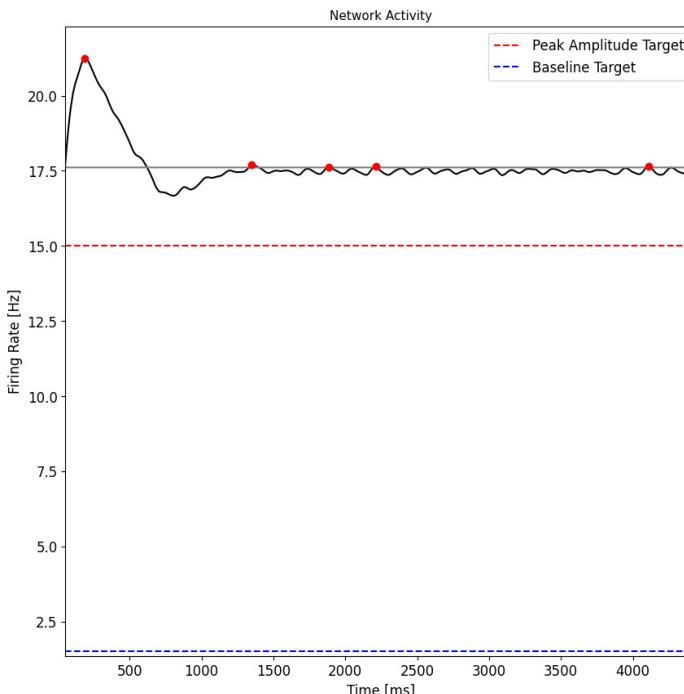
```

```

burstAmp_Fitness: {'Value': 0.638948029531137, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.3513513513513513, 'Fit': 449.4875284343146}
IBI_fitness: {'Value': 847.5, 'Fit': 3.060851782600725}
baseline_fitness: {'Value': 17.699671256637114, 'Fit': 1000}
slopeFitness: {'Value': -0.002079252532219845, 'Fit': 1.0041671636447147}
thresh: {'Value': 17.610301215761638, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 87.72455089820359, 'Fit': 11.64747968270654}
E_rate_fitness: {'Value': 62.67857142857142, 'Fit': 1000}
I_rate_fitness: {'Value': 7.425925925925926, 'Fit': 9.558276299502785}
maxFitness: 1000
average_fitness: 497.19536704030776
average_scaled_fitness: 496.68995962463003

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_5/gen_5_cand_48_data.json

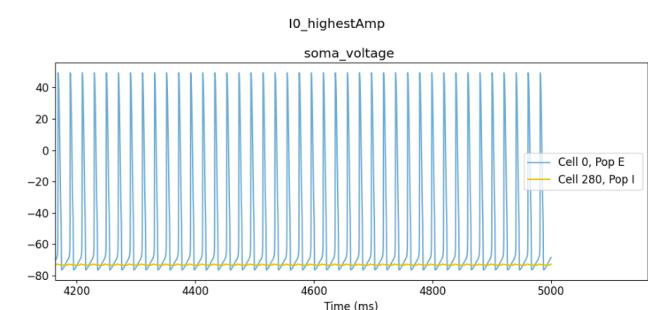
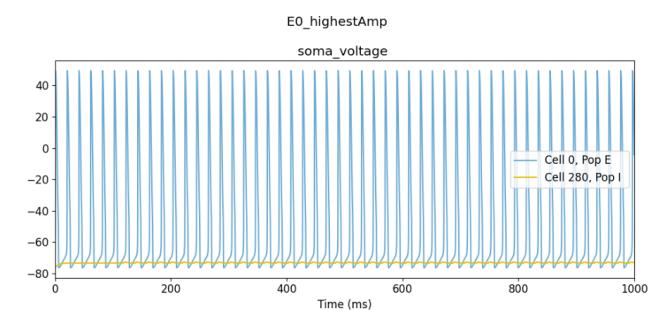
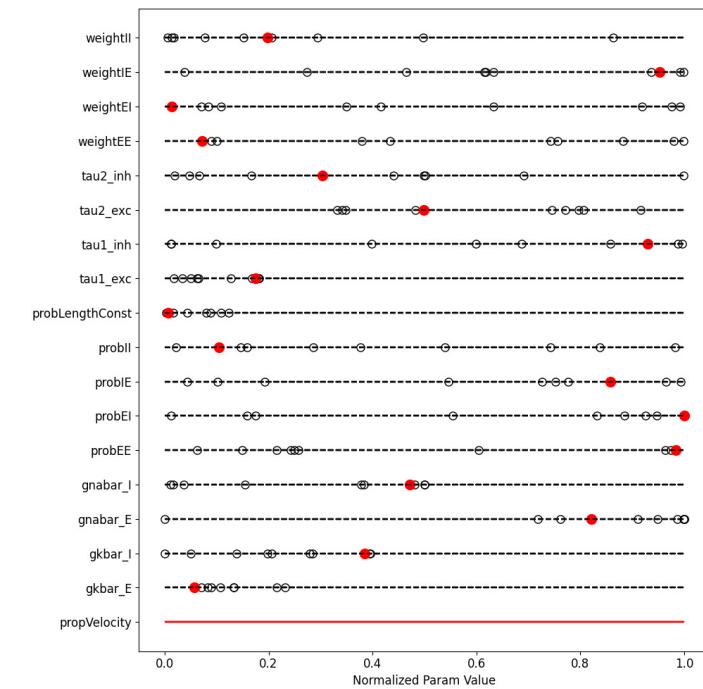
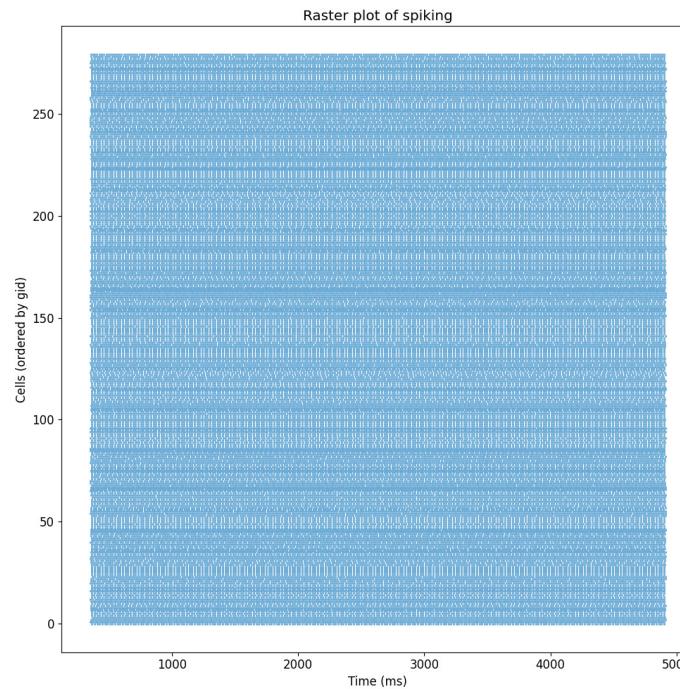
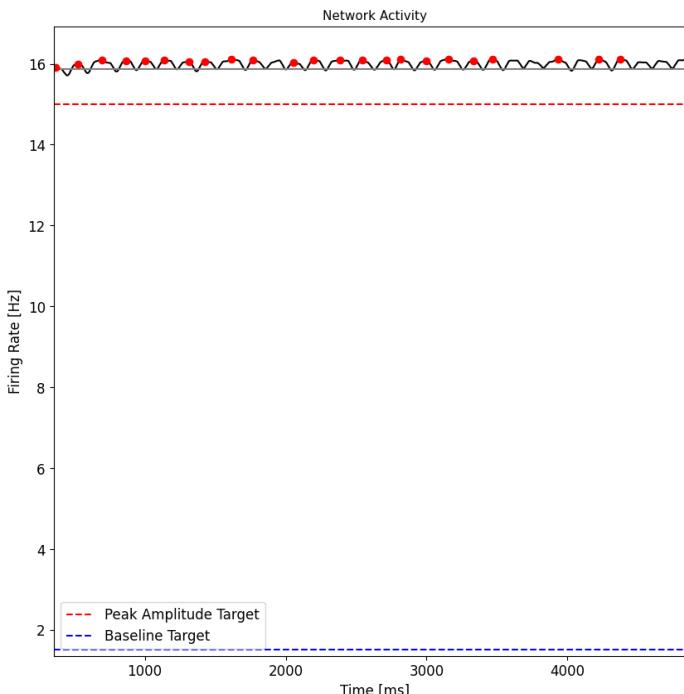
SimLabel: gen_5_cand_48

Generation Rank: 4/10

```
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': 0.20617528654174738, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 4.681933842239186, 'Fit': 1000}
IBI_fitness: {'Value': 182.04545454545453, 'Fit': 4.0946332756041235}
baseline_fitness: {'Value': 15.995693397864306, 'Fit': 1000}
slopeFitness: {'Value': 0.00010656187032877964, 'Fit': 1.0002131464531354}
thresh: {'Value': 15.871078665602589, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 91.1676646706587, 'Fit': 5.850148618941097}
E_rate_fitness: {'Value': 56.90873015873016, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.8827772267775
average_scaled_fitness: 667.5502566229168
```

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}

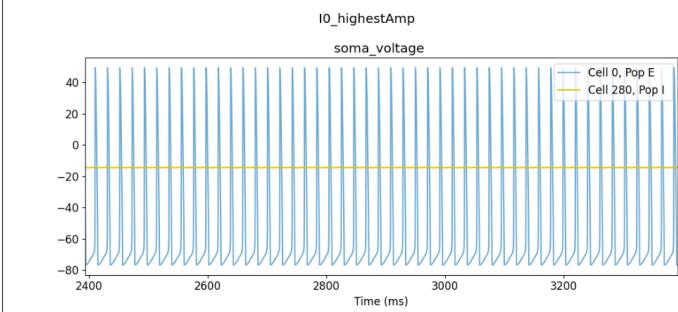
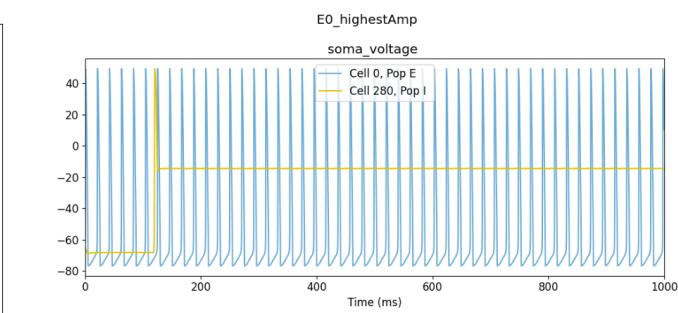
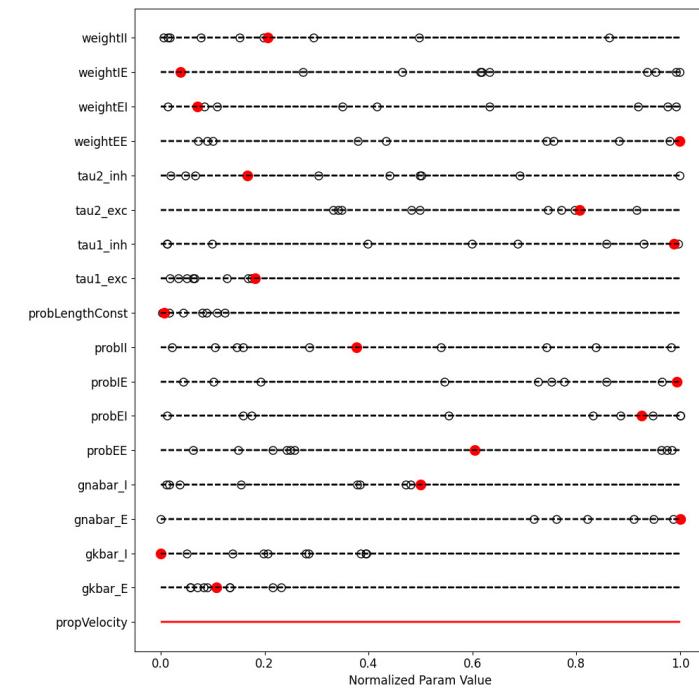
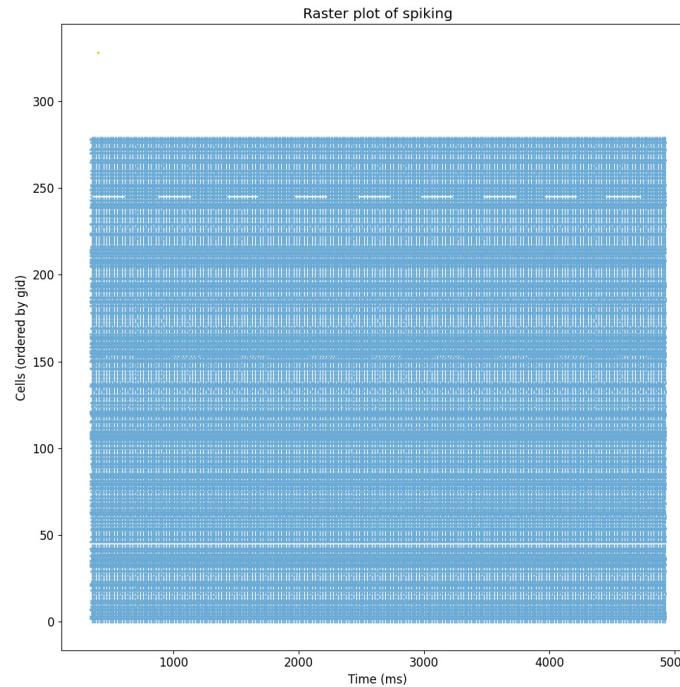
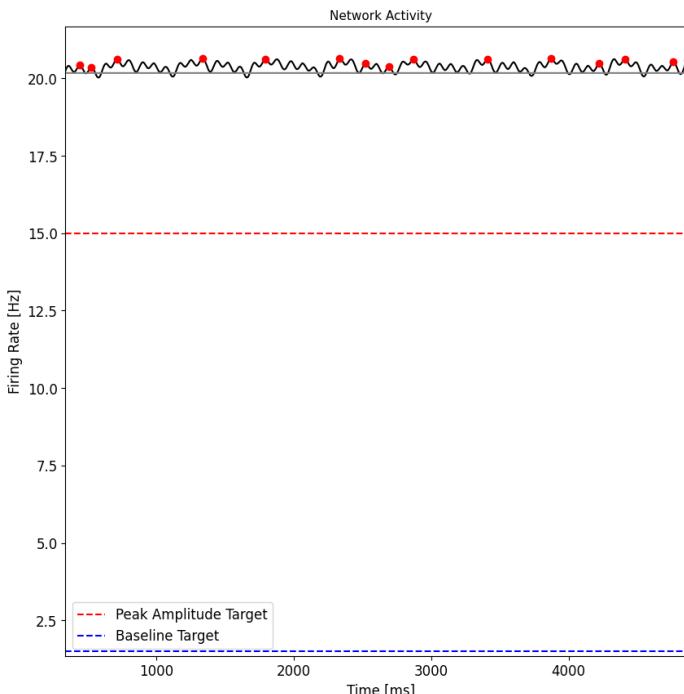
```

```

burstAmp_Fitness: {'Value': 0.3823156960694199, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 3.0441400304414, 'Fit': 1000}
IBI_fitness: {'Value': 316.07142857142856, 'Fit': 3.8409457788251586}
baseline_fitness: {'Value': 20.374995691382715, 'Fit': 1000}
slopeFitness: {'Value': 1.4933194157035238e-05, 'Fit': 1.000029866834319}
thresh: {'Value': 20.170094641982654, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 91.76646706586826, 'Fit': 5.189859299183215}
E_rate_fitness: {'Value': 72.17460317460318, 'Fit': 1000}
I_rate_fitness: {'Value': 0.28703703703703703, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.7812038827602
average_scaled_fitness: 667.448642593097

```

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}

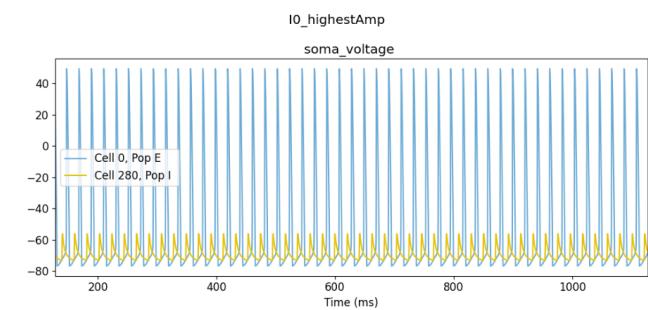
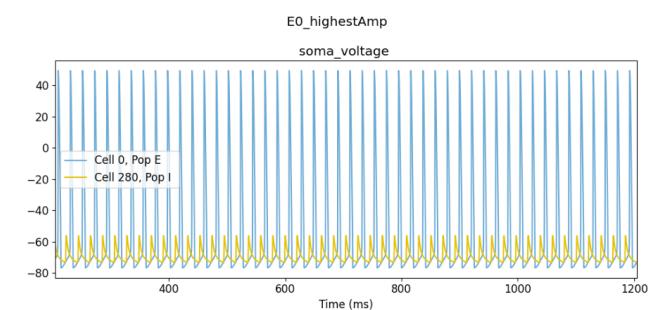
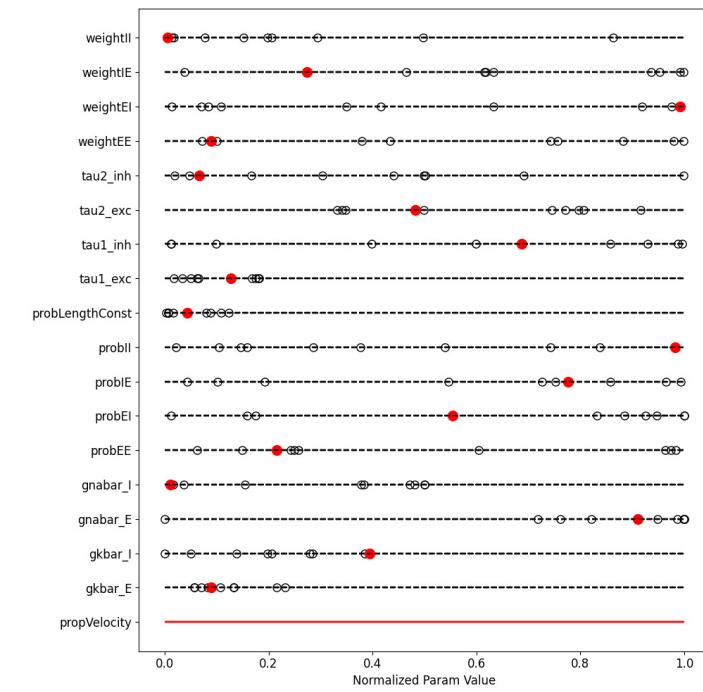
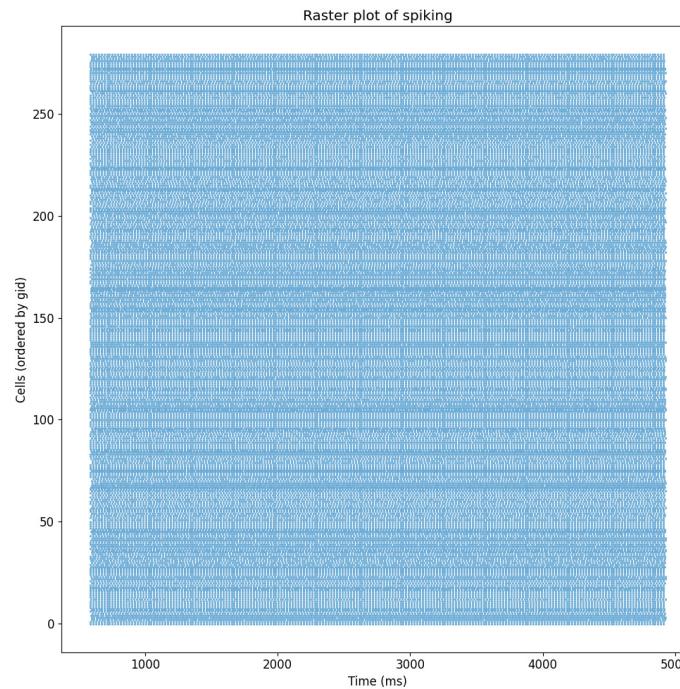
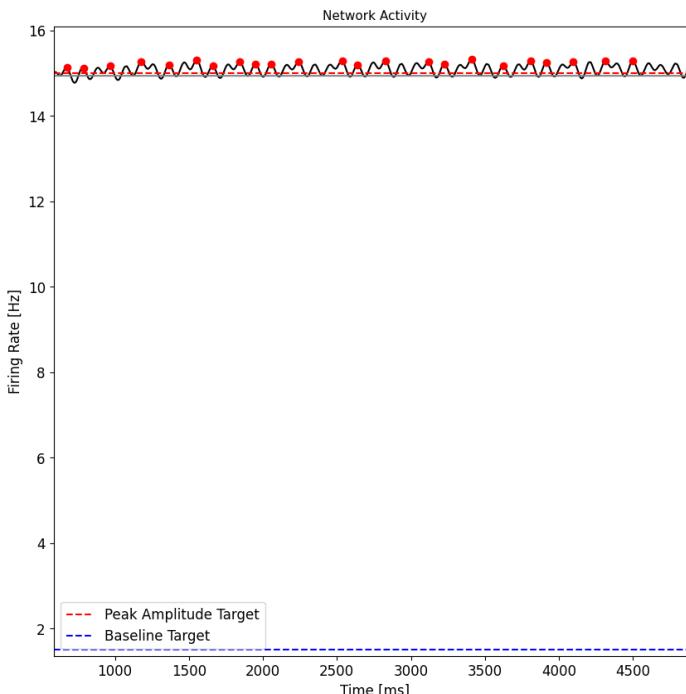
```

```

burstAmp_Fitness: {'Value': 0.30243530750908315, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 4.87062404870624, 'Fit': 1000}
IBI_fitness: {'Value': 183.58695652173913, 'Fit': 4.091097224292215}
baseline_fitness: {'Value': 15.088577610509498, 'Fit': 1000}
slopeFitness: {'Value': 0.00012894541695043373, 'Fit': 1.0002579240906009}
thresh: {'Value': 14.937275799418147, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 86.82634730538922, 'Fit': 13.939555789319245}
E_rate_fitness: {'Value': 52.53174603174603, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 668.7812123264114
average_scaled_fitness: 668.4495763879578

```

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}

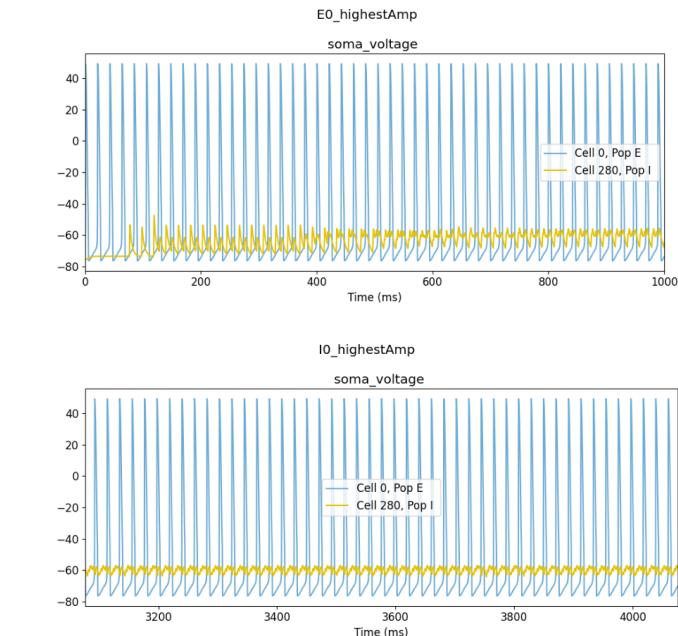
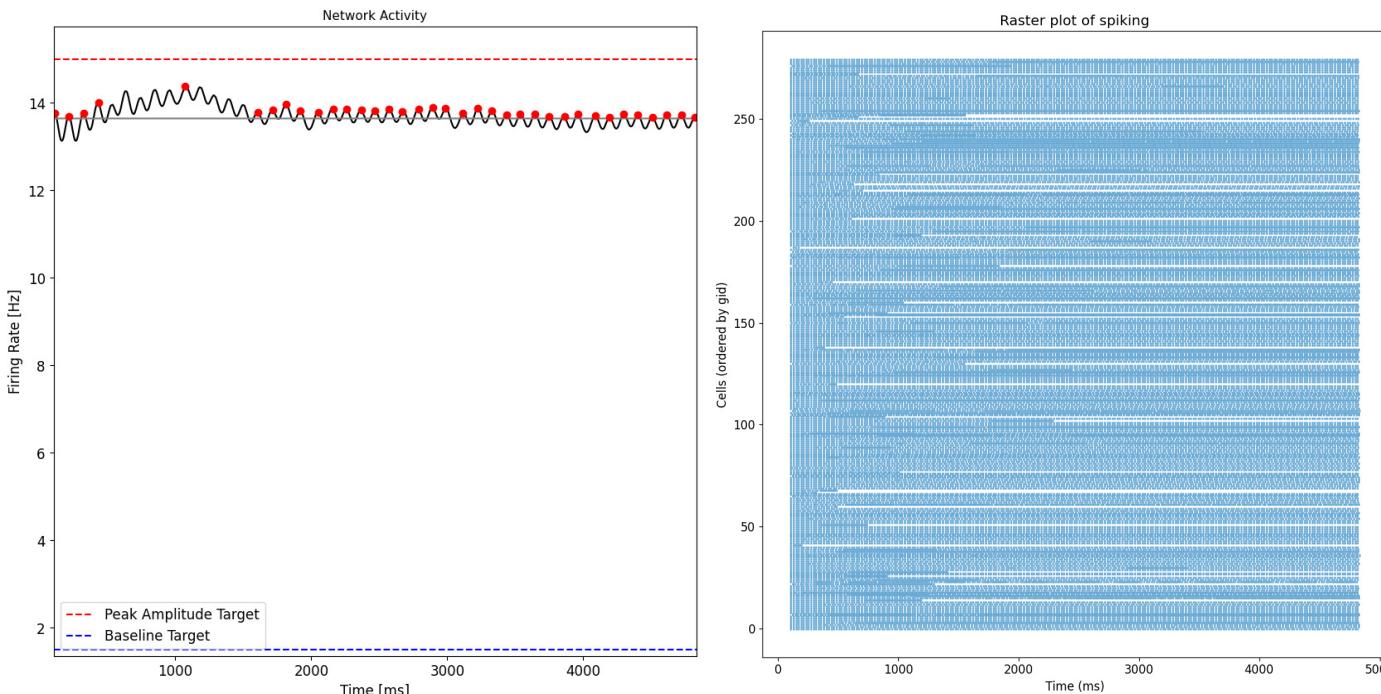
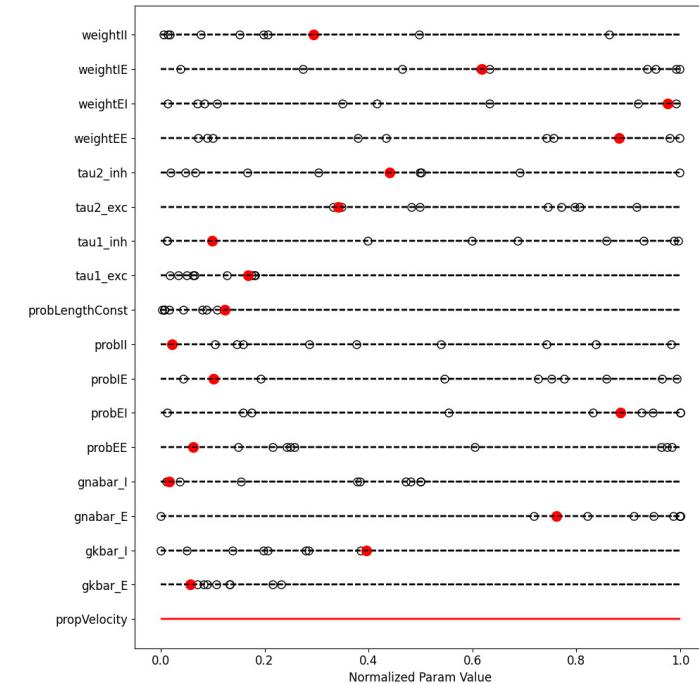
```

```

burstAmp_Fitness: {'Value': 0.15764008527122242, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 7.453416149068323, 'Fit': 1000}
IBI_fitness: {'Value': 134.57142857142858, 'Fit': 4.196178333056926}
baseline_fitness: {'Value': 13.712345054352303, 'Fit': 1000}
slopeFitness: {'Value': -0.0005695324130725882, 'Fit': 1.0011397138068712}
thresh: {'Value': 13.642502261766031, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 94.46107784431138, 'Fit': 3.0276430064092956}
E_rate_fitness: {'Value': 49.51587301587302, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.5805512281414
average_scaled_fitness: 667.2474194048359

```

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}

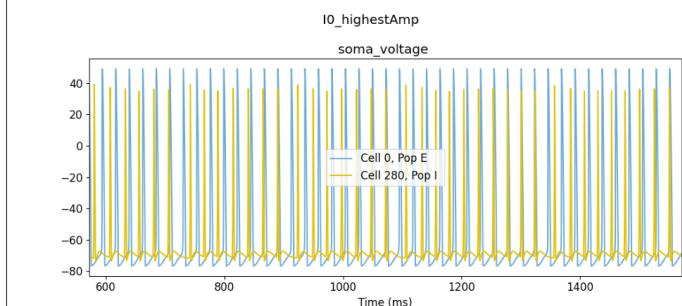
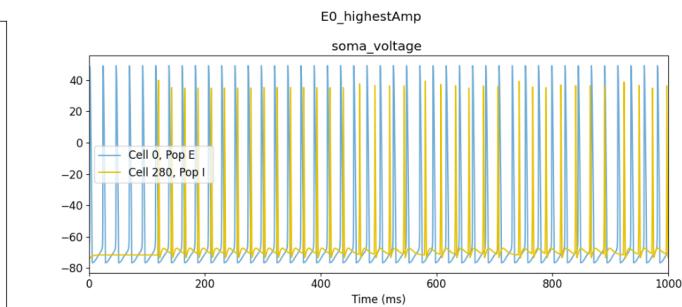
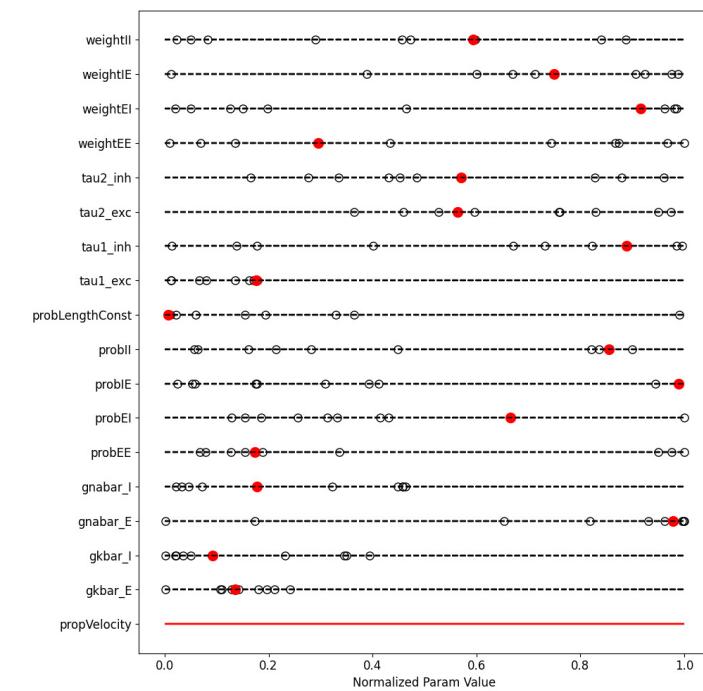
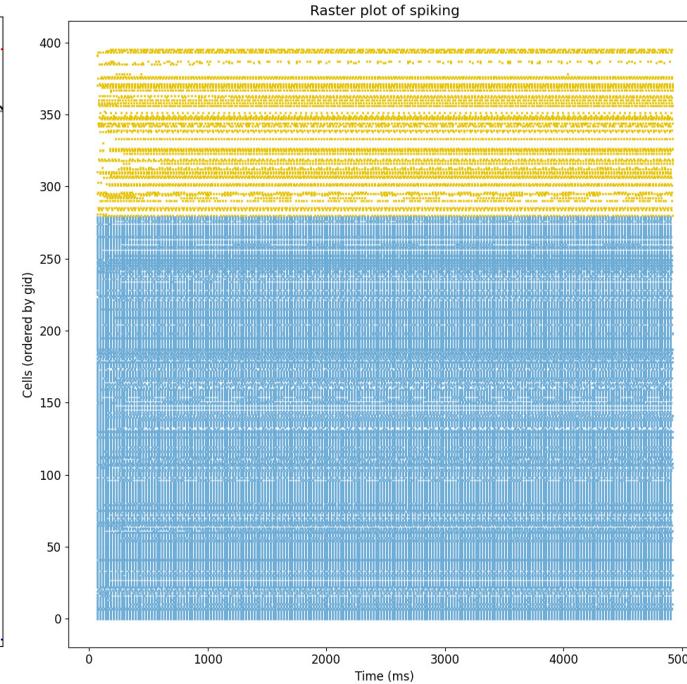
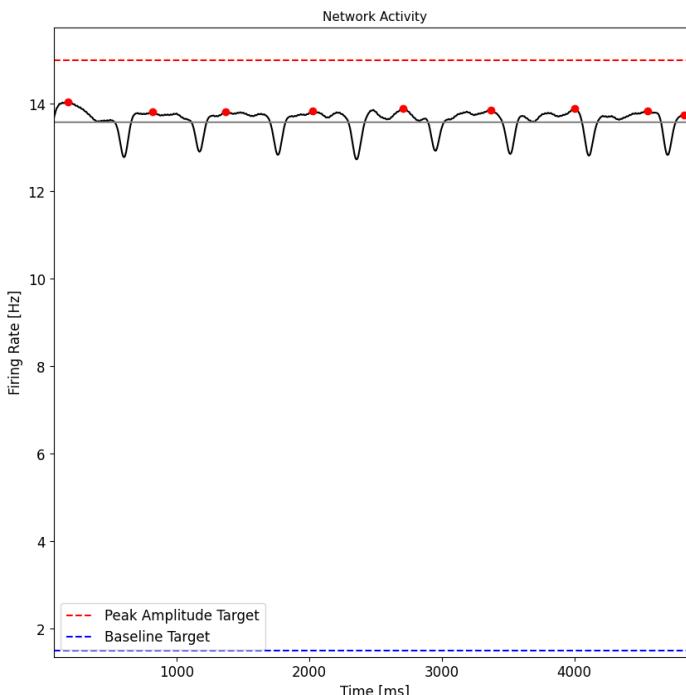
```

```

burstAmp_Fitness: {'Value': 0.2804752752403178, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.829268292682927, 'Fit': 1000}
IBI_fitness: {'Value': 581.25, 'Fit': 3.3580921933310286}
baseline_fitness: {'Value': 13.637603968026387, 'Fit': 1000}
slopeFitness: {'Value': -0.00013106585364120845, 'Fit': 1.0002621660668005}
thresh: {'Value': 13.579402424766844, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 97.0059880239521, 'Fit': 1.8199379283585044}
E_rate_fitness: {'Value': 42.039682539682545, 'Fit': 1000}
I_rate_fitness: {'Value': 15.009259259259258, 'Fit': 4.477541278806097}
maxFitness: 1000
average_fitness: 556.7395370629513
average_scaled_fitness: 556.2957164551997

```

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}

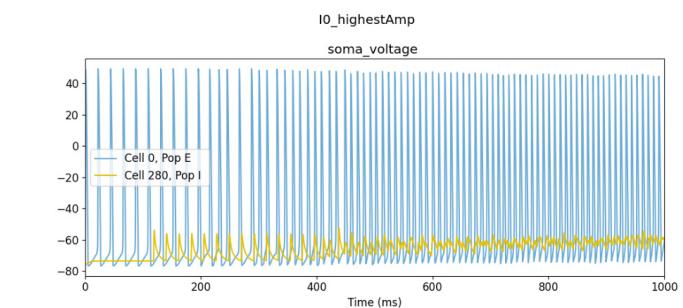
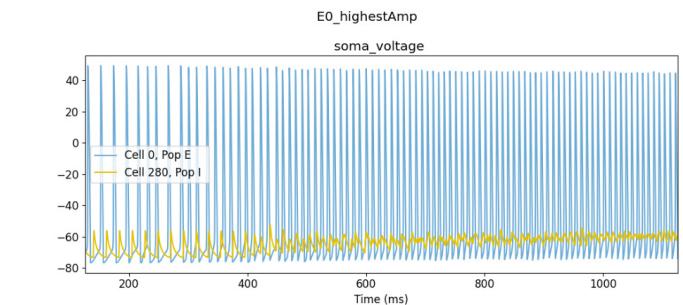
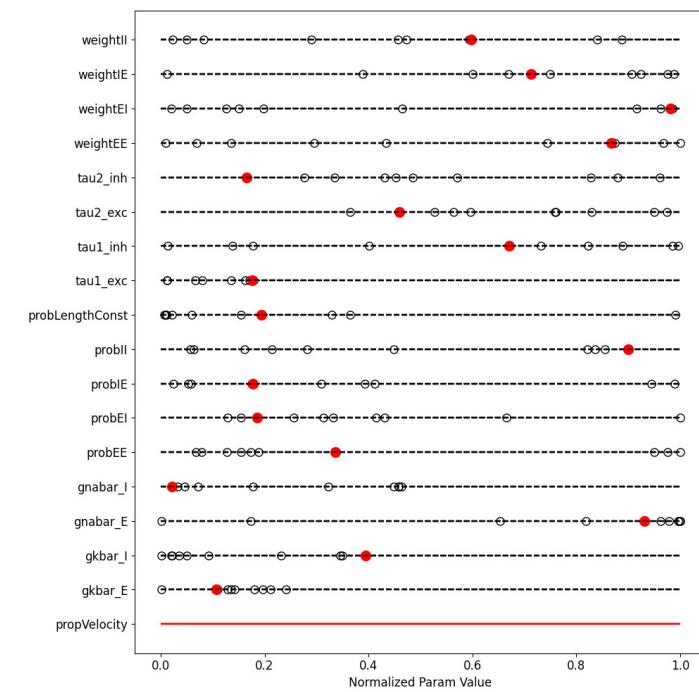
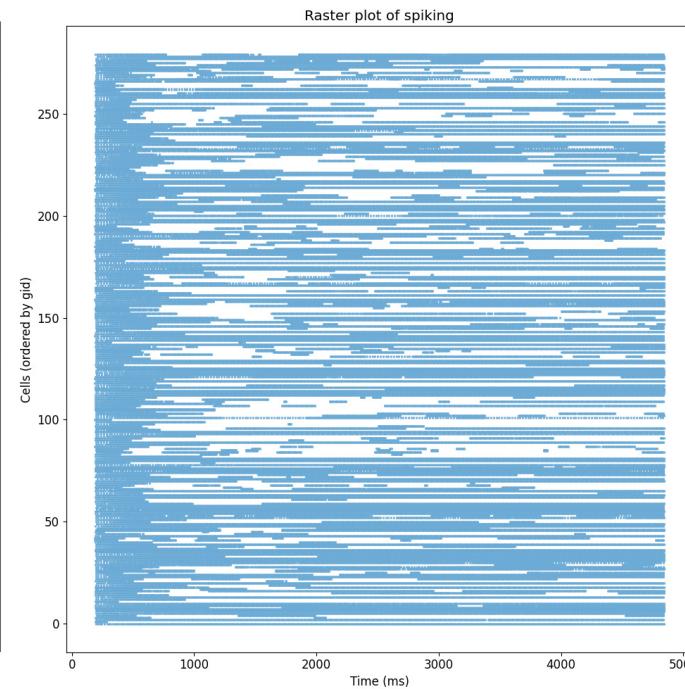
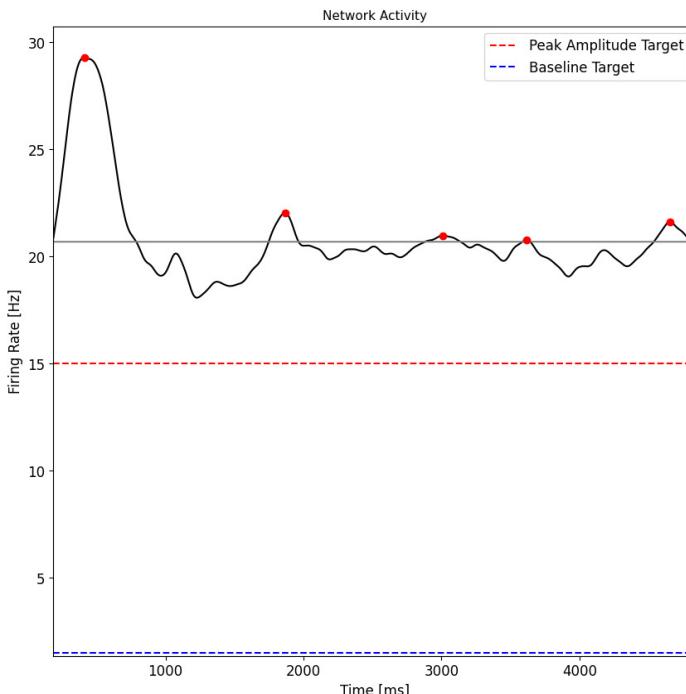
```

```

burstAmp_Fitness: {'Value': 2.2534198349499555, 'Fit': 804.9185761497234}
burst_peak_frequency_fitness: {'Value': 1.0319917440660475, 'Fit': 66.15169173083845}
IBI_fitness: {'Value': 1061.25, 'Fit': 2.6671247884990206}
baseline_fitness: {'Value': 20.820499897315287, 'Fit': 1000}
slopeFitness: {'Value': -0.004886530149651879, 'Fit': 1.0098209726092082}
thresh: {'Value': 20.689922018390643, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.11377245508982, 'Fit': 3.9639678620569456}
E_rate_fitness: {'Value': 84.31746031746032, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 542.0790201670808
average_scaled_fitness: 541.6161345262196

```

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}

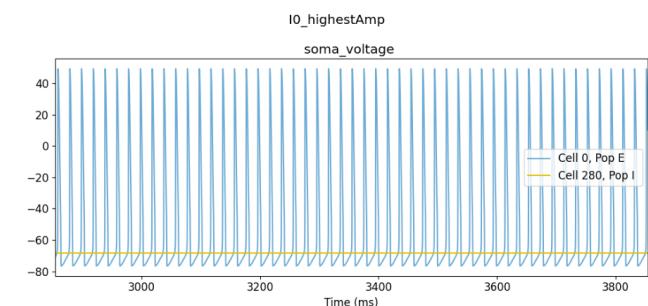
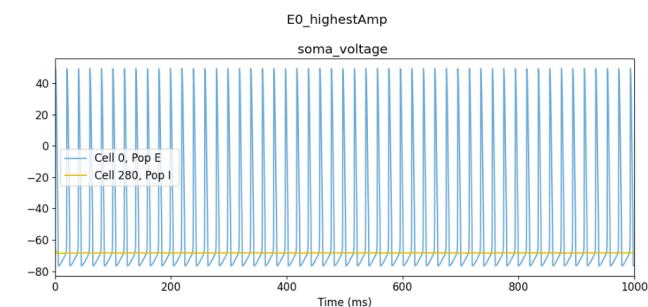
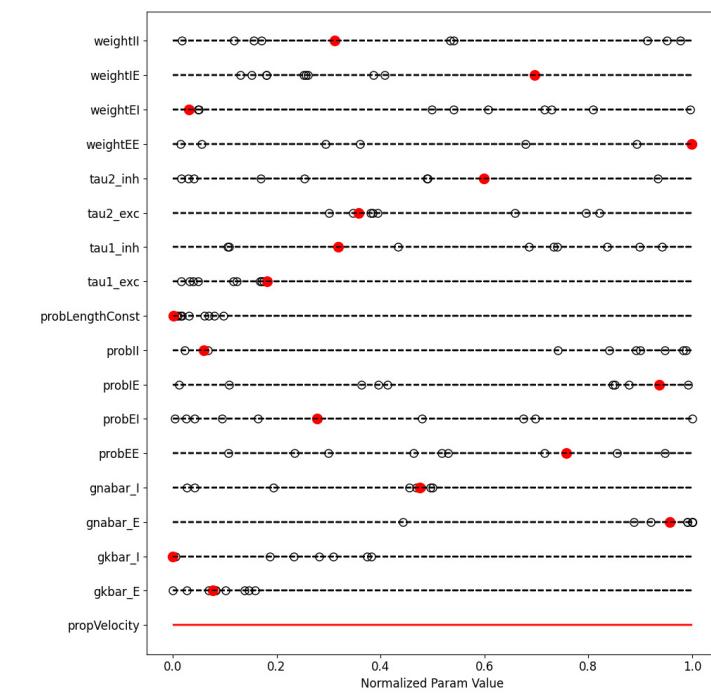
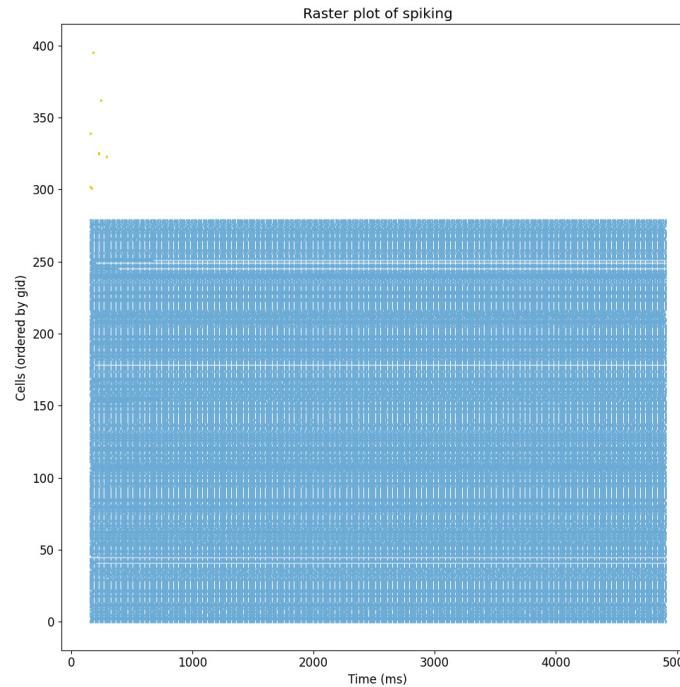
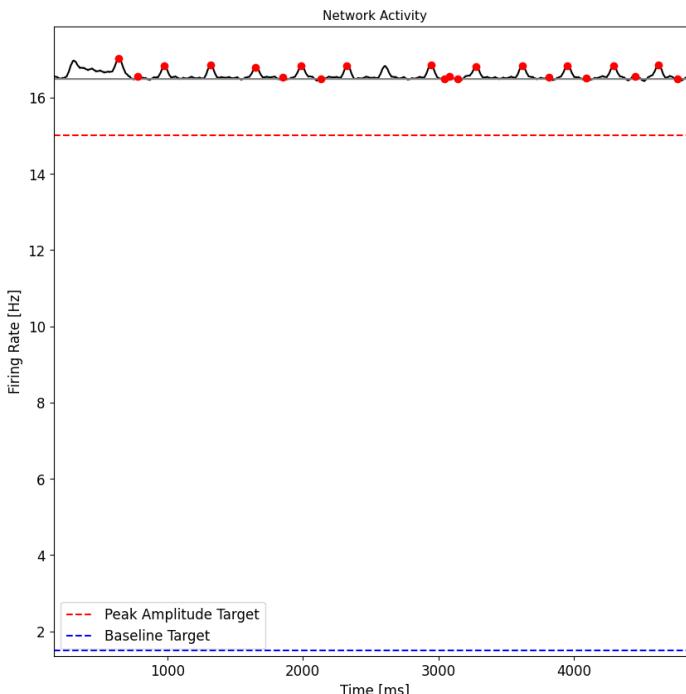
```

```

burstAmp_Fitness: {'Value': 0.20577656020414142, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 4.689092762487258, 'Fit': 1000}
IBI_fitness: {'Value': 193.29545454545453, 'Fit': 4.076106670461938}
baseline_fitness: {'Value': 16.582357866501784, 'Fit': 1000}
slopeFitness: {'Value': -0.00015103894288637576, 'Fit': 1.0003021235158918}
thresh: {'Value': 16.486483177379085, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 94.91017964071857, 'Fit': 2.767554482248735}
E_rate_fitness: {'Value': 59.18253968253968, 'Fit': 1000}
I_rate_fitness: {'Value': 0.12962962962962962, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.5382181418029
average_scaled_fitness: 667.2053229196247

```

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}

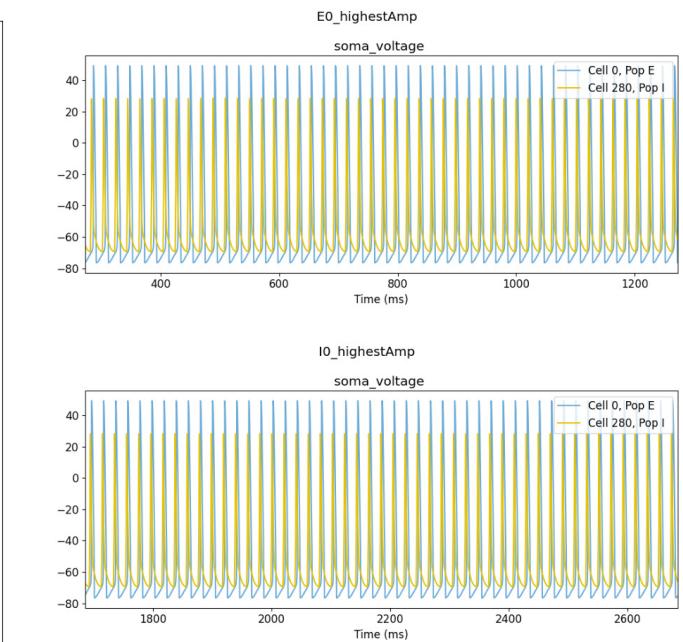
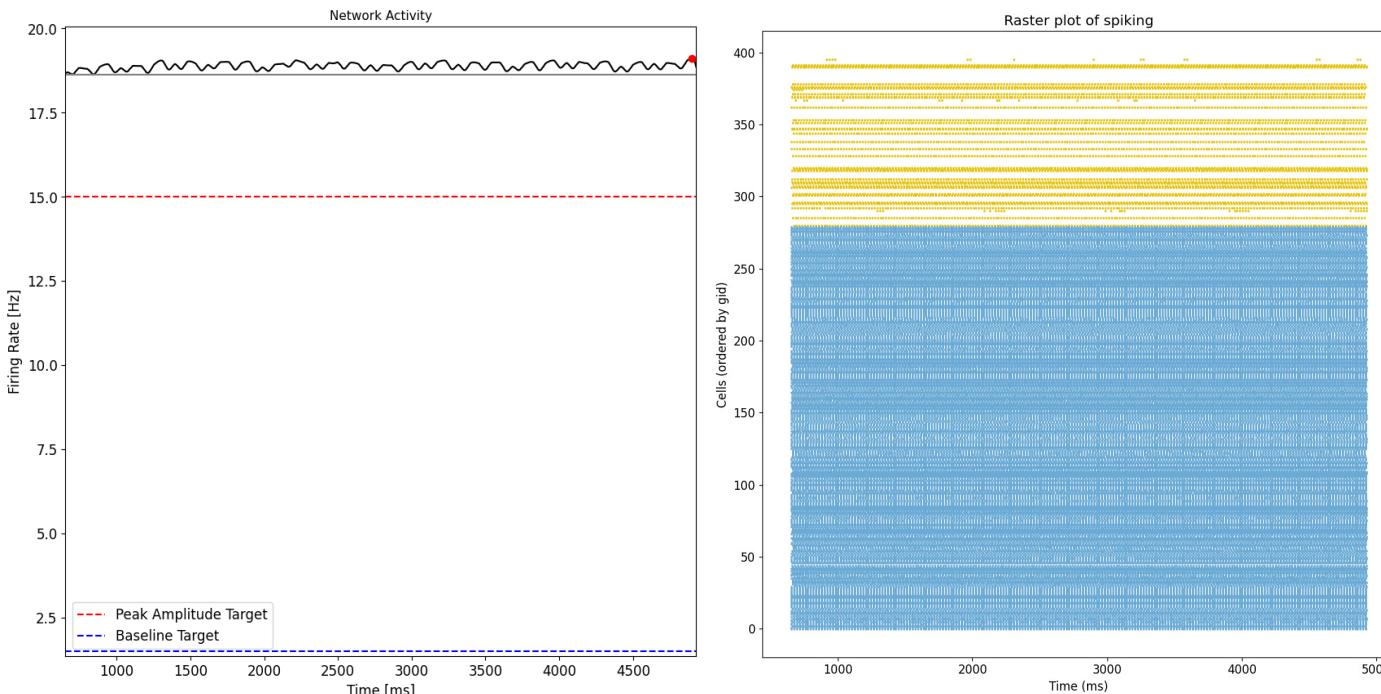
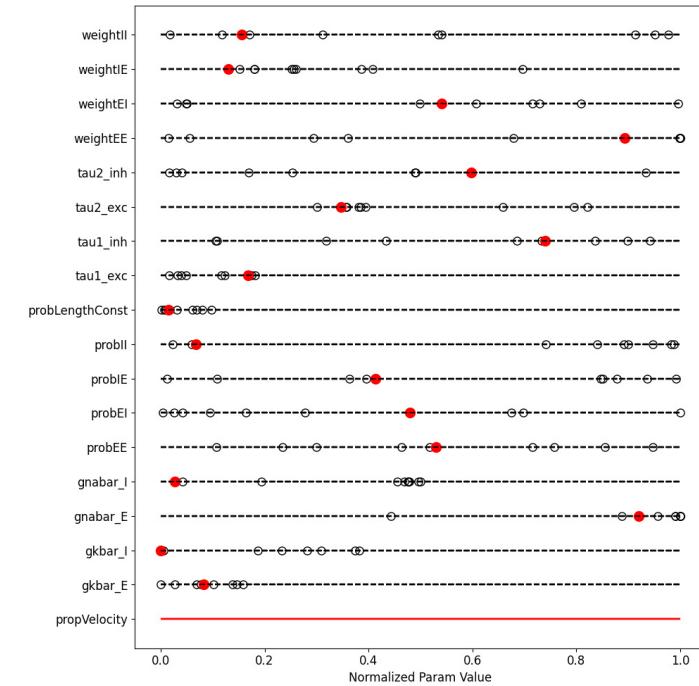
```

```

burstAmp_Fitness: {'Value': 0.4805578004689828, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 18.878437240845045, 'Fit': 1000}
slopeFitness: {'Value': 0.00015872977838997122, 'Fit': 1.0003175099523978}
thresh: {'Value': 18.62272997474161, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 85.47904191616766, 'Fit': 18.250484301893778}
E_rate_fitness: {'Value': 59.44047619047619, 'Fit': 1000}
I_rate_fitness: {'Value': 13.101851851851, 'Fit': 5.418477190514107}
maxFitness: 1000
average_fitness: 669.4076976669289
average_scaled_fitness: 669.0766692647427

```

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}

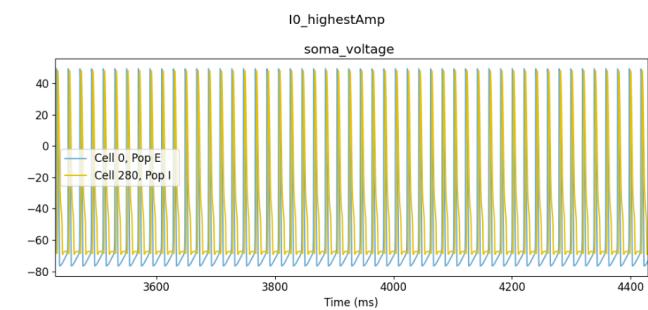
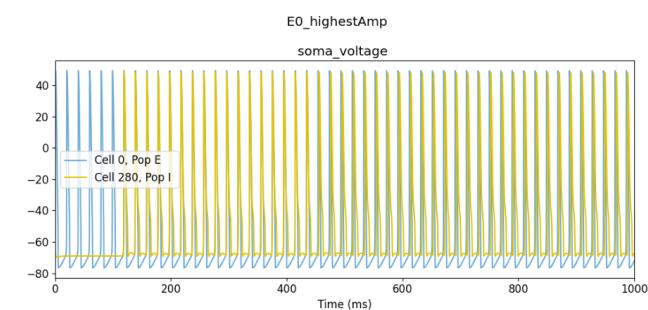
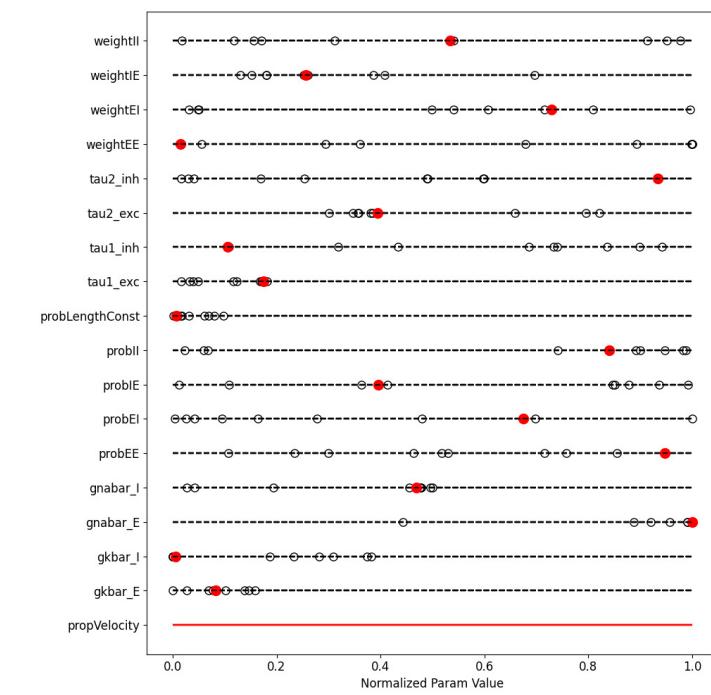
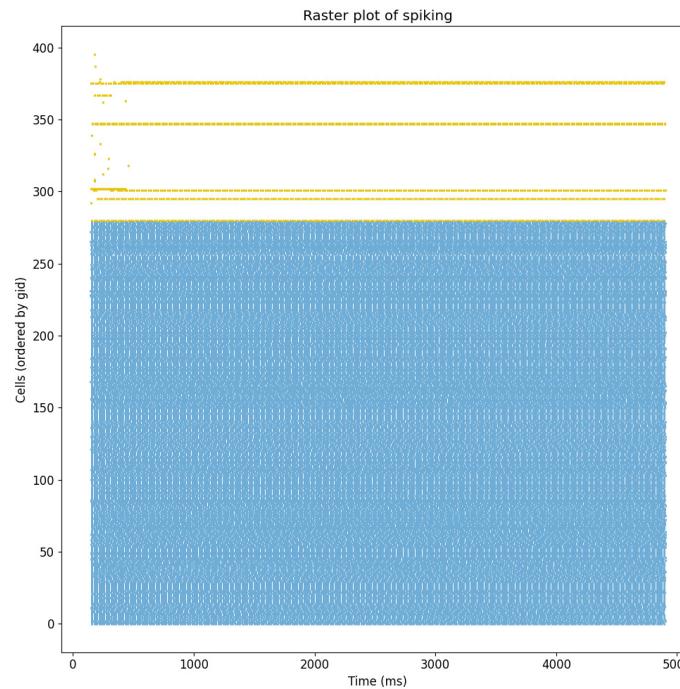
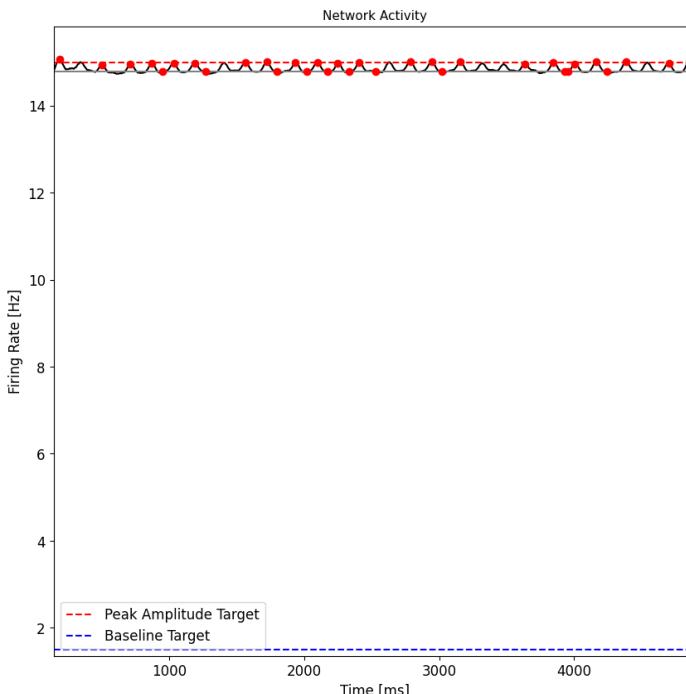
```

```

burstAmp_Fitness: {'Value': 0.13700492675363027, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 6.727828746177369, 'Fit': 1000}
IBI_fitness: {'Value': 146.015625, 'Fit': 4.170884958981821}
baseline_fitness: {'Value': 14.851754305519048, 'Fit': 1000}
slopeFitness: {'Value': 1.3052819658547388e-05, 'Fit': 1.0000261059800724}
thresh: {'Value': 14.78620188123169, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 95.20958083832335, 'Fit': 2.6066968167108455}
E_rate_fitness: {'Value': 51.329365079365076, 'Fit': 1000}
I_rate_fitness: {'Value': 2.824074074074074, 'Fit': 15.143820979072418}
maxFitness: 1000
average_fitness: 558.1023809845273
average_scaled_fitness: 557.660029466275

```

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}

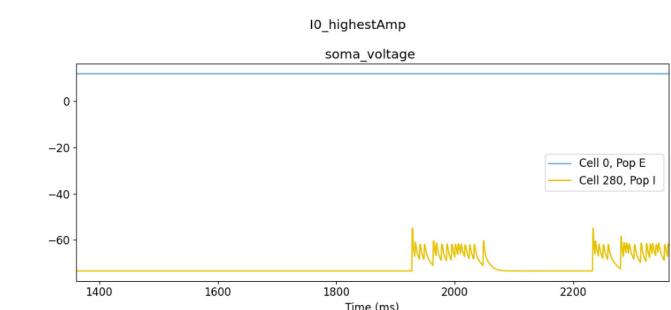
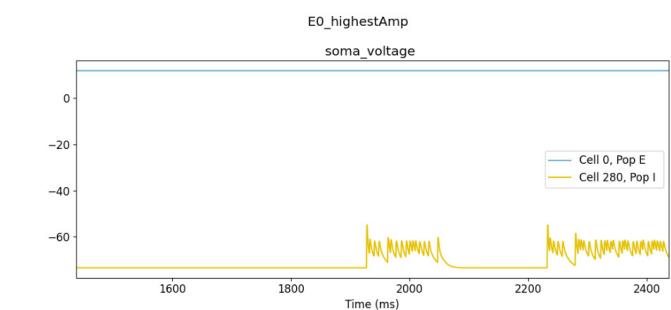
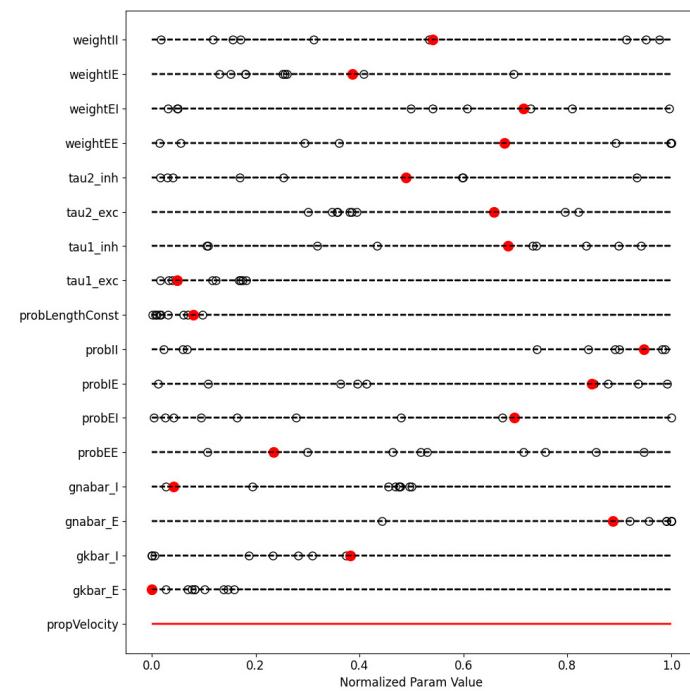
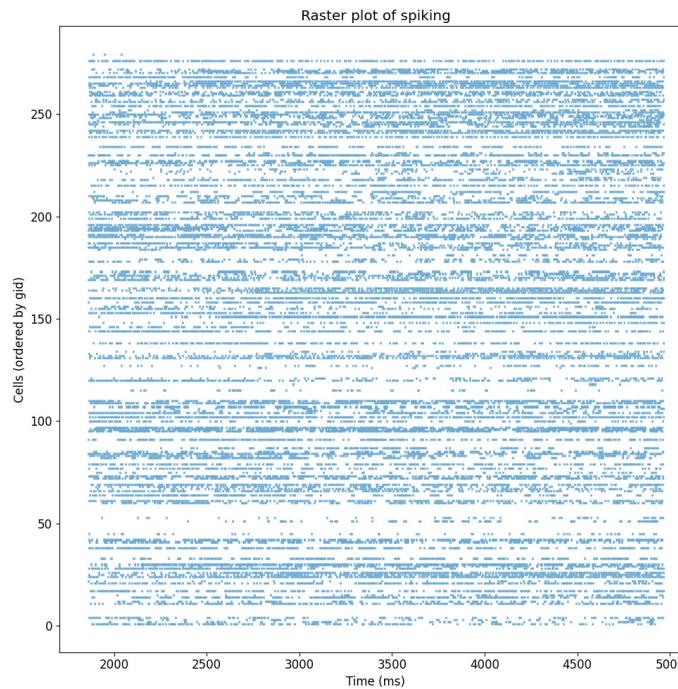
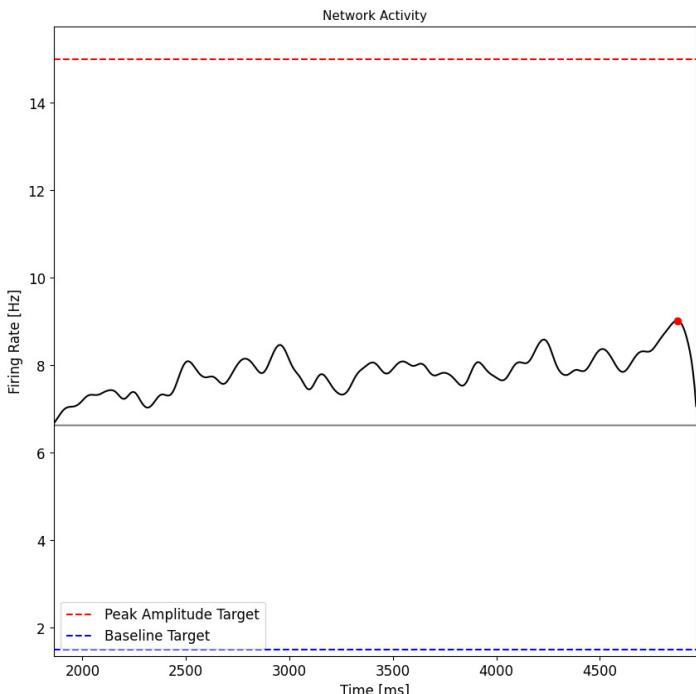
```

```

burstAmp_Fitness: {'Value': 2.3960404288156036, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2014098690835851, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 7.834840297006292, 'Fit': 1000}
slopeFitness: {'Value': 0.0026150661274491897, 'Fit': 1.0052438332722302}
thresh: {'Value': 6.625967587849254, 'Fit': 0.19672123800710692}
sustain_oscillation_fitness: {'Value': 62.125748502994014, 'Fit': 1000}
E_rate_fitness: {'Value': 6.444444444444444, 'Fit': 1.5253474531238636}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 666.9697013916003
average_scaled_fitness: 666.904174368407

```

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}

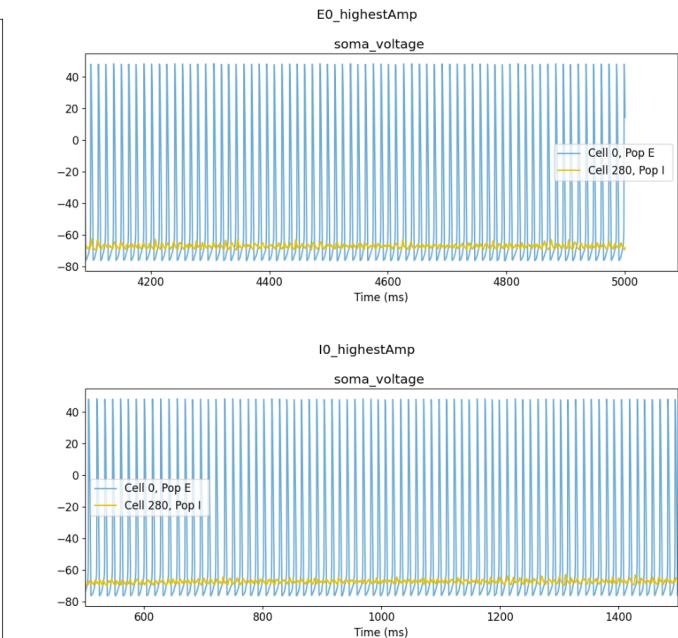
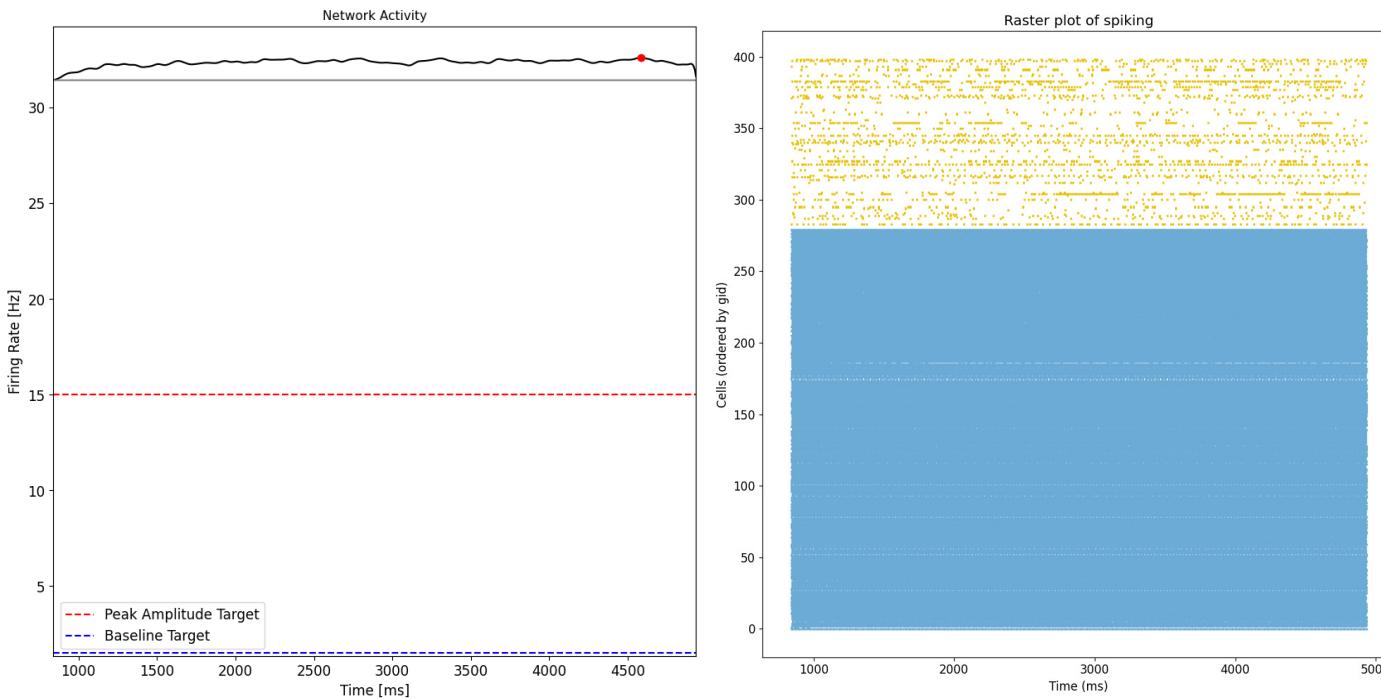
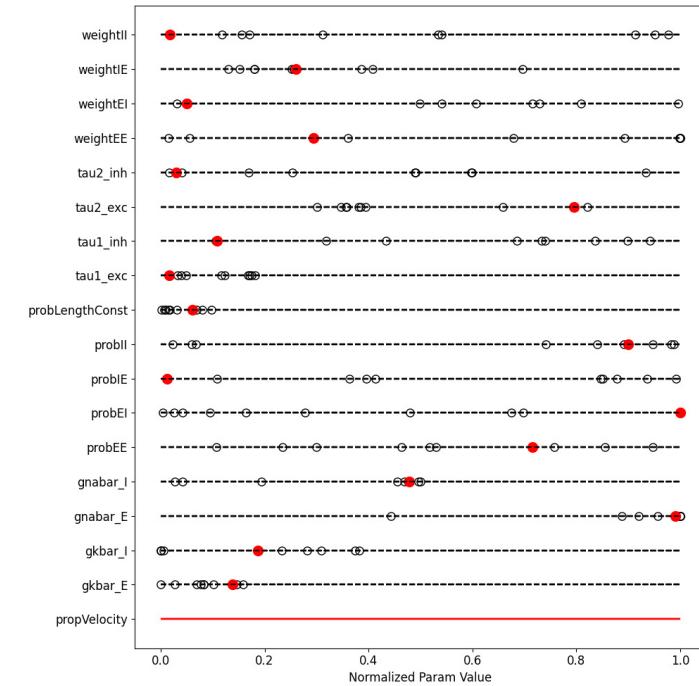
```

```

burstAmp_Fitness: {'Value': 1.1845931906202445, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2026342451874367, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 32.32521688379122, 'Fit': 1000}
slopeFitness: {'Value': 0.0006265416436832012, 'Fit': 1.0012538687242674}
thresh: {'Value': 31.409169417650904, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 81.88622754491018, 'Fit': 37.44055559157925}
E_rate_fitness: {'Value': 96.09523809523809, 'Fit': 1000}
I_rate_fitness: {'Value': 15.62962962962963, 'Fit': 4.208208560387903}
maxFitness: 1000
average_fitness: 671.4055575578545
average_scaled_fitness: 671.0762213519679

```

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}

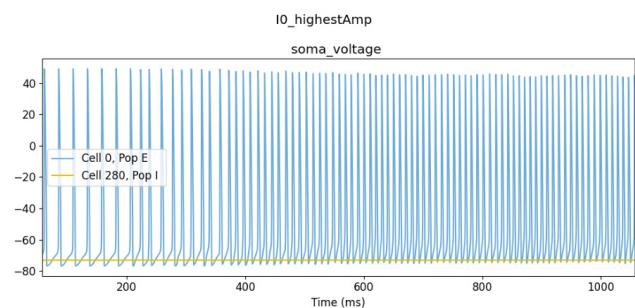
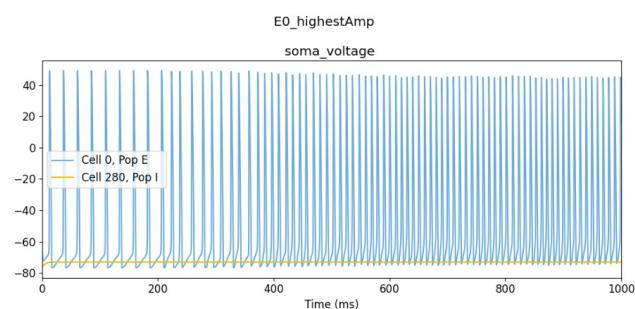
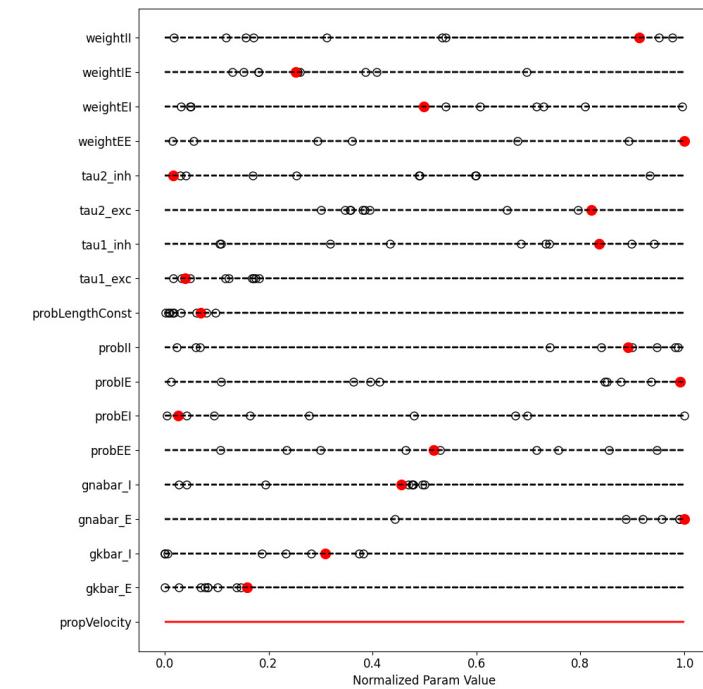
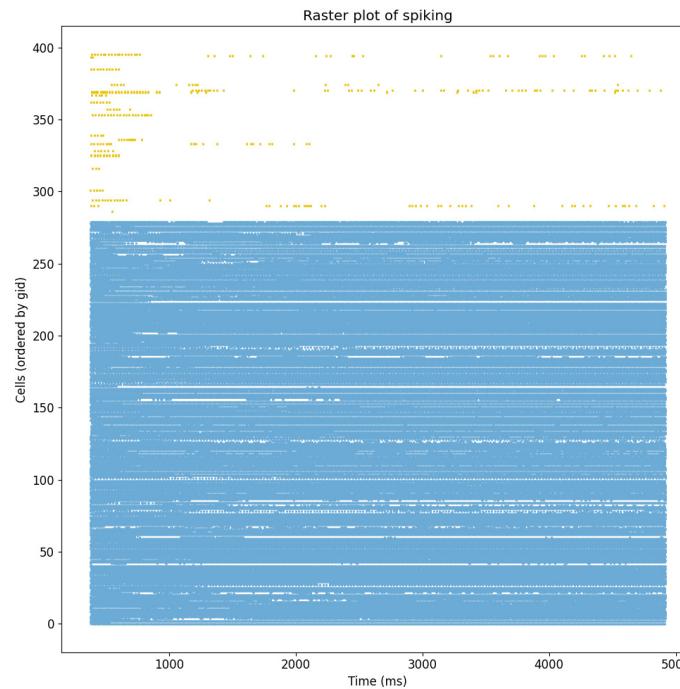
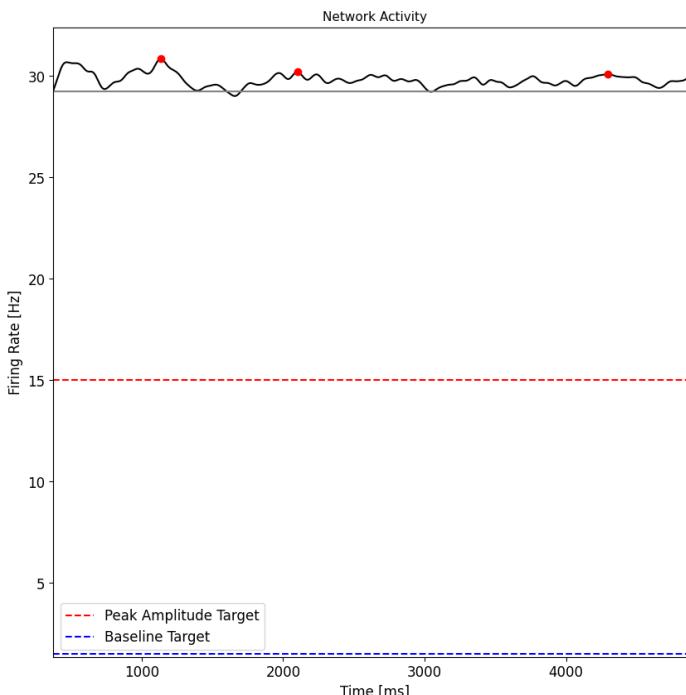
```

```

burstAmp_Fitness: {'Value': 1.1475649988700265, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.6097560975609756, 'Fit': 5.2516199208692305}
IBI_fitness: {'Value': 1582.5, 'Fit': 2.128252701380653}
baseline_fitness: {'Value': 29.820699666810956, 'Fit': 1000}
slopeFitness: {'Value': -0.0005317857451449961, 'Fit': 1.0010641372830167}
thresh: {'Value': 29.247363950317308, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 91.14114114114115, 'Fit': 5.881264393907769}
E_rate_fitness: {'Value': 99.83730158730158, 'Fit': 1000}
I_rate_fitness: {'Value': 2.740740740740741, 'Fit': 15.270546778027624}
maxFitness: 1000
average_fitness: 447.72586088127423
average_scaled_fitness: 447.17244504190387

```

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}

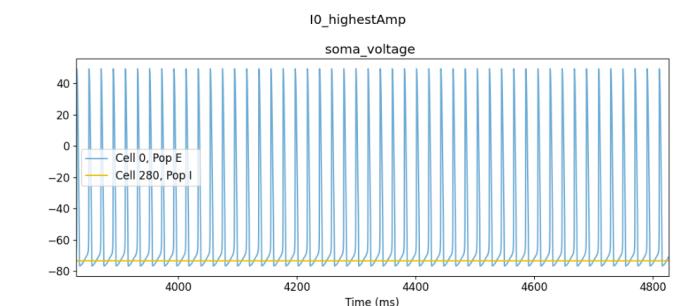
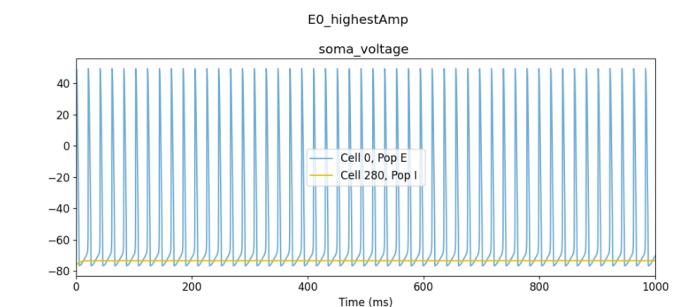
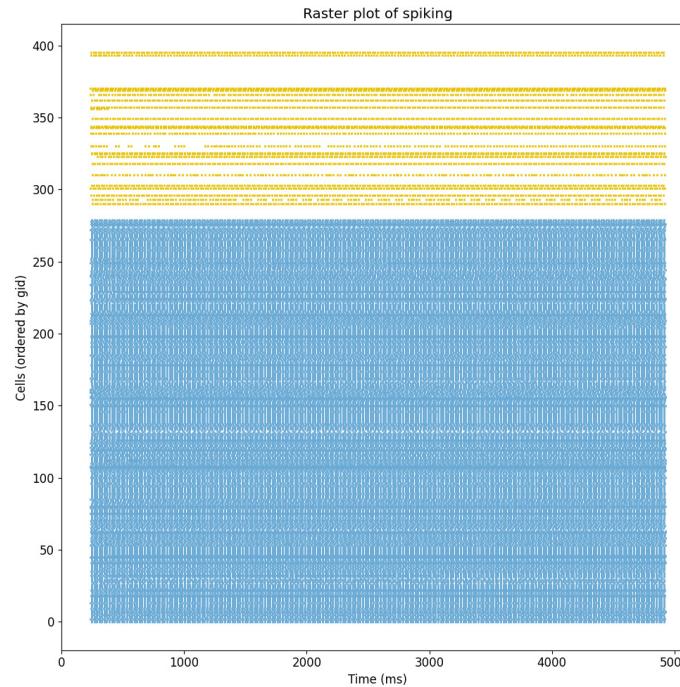
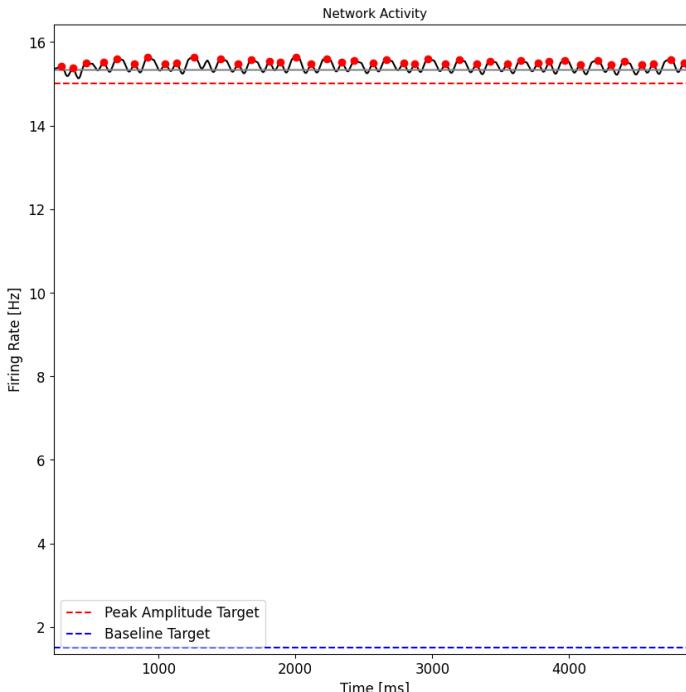
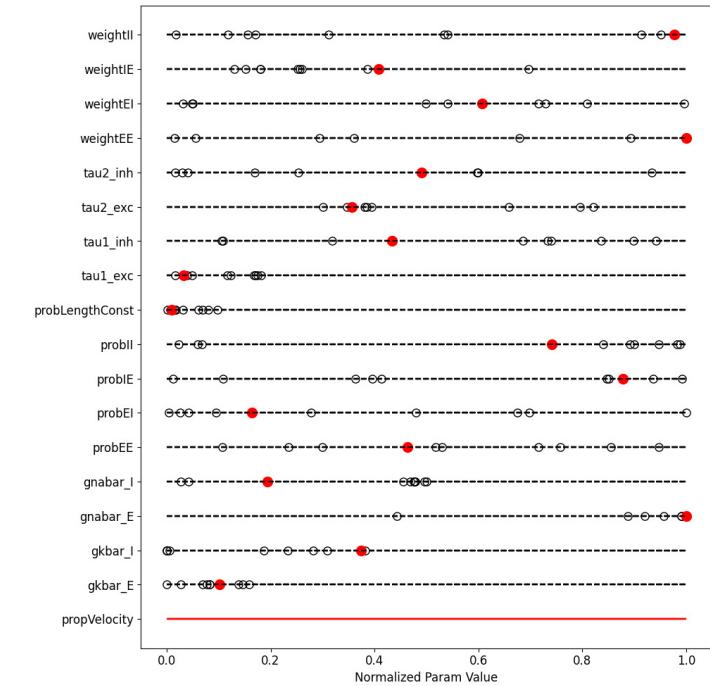
```

```

burstAmp_Fitness: {'Value': 0.19005795390751548, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 8.726534753932015, 'Fit': 1000}
IBI_fitness: {'Value': 110.17857142857143, 'Fit': 4.241721566748014}
baseline_fitness: {'Value': 15.421236705994875, 'Fit': 1000}
slopeFitness: {'Value': -3.523503595053636e-05, 'Fit': 1.000070472554975}
thresh: {'Value': 15.33186321629512, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.8622754491018, 'Fit': 3.412840412721712}
E_rate_fitness: {'Value': 51.61111111111114, 'Fit': 1000}
I_rate_fitness: {'Value': 7.898148148148, 'Fit': 9.117404644983445}
maxFitness: 1000
average_fitness: 557.5302263441121
average_scaled_fitness: 557.0872824133345

```

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}

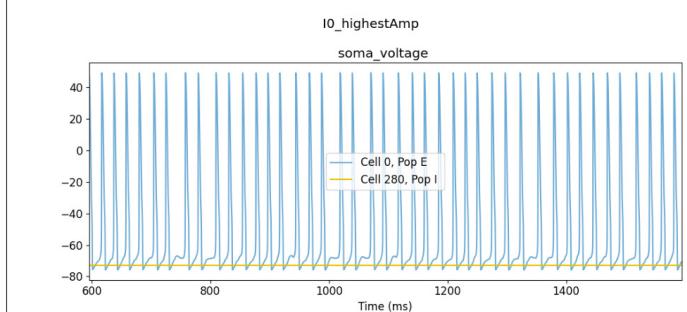
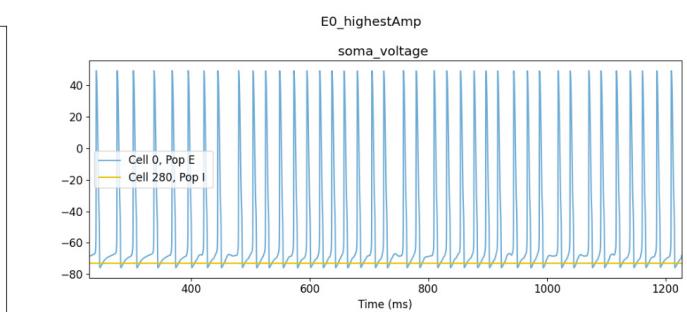
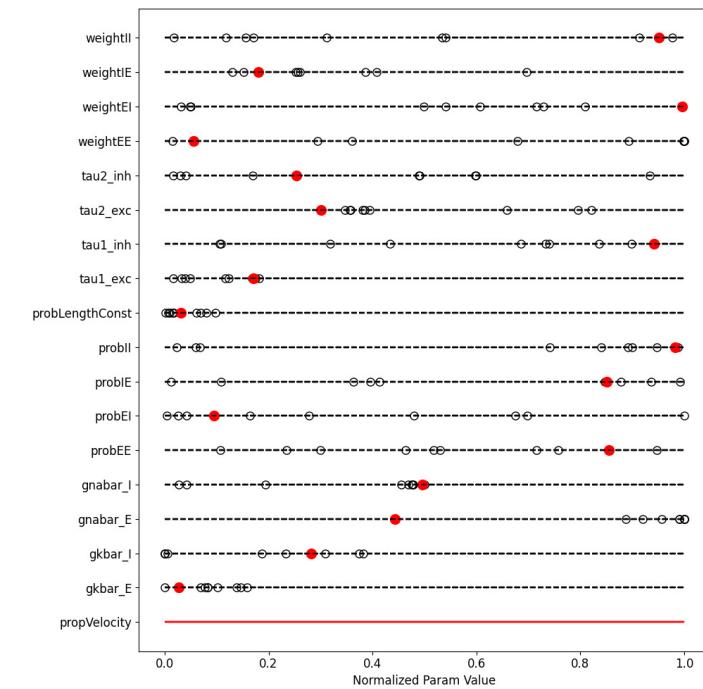
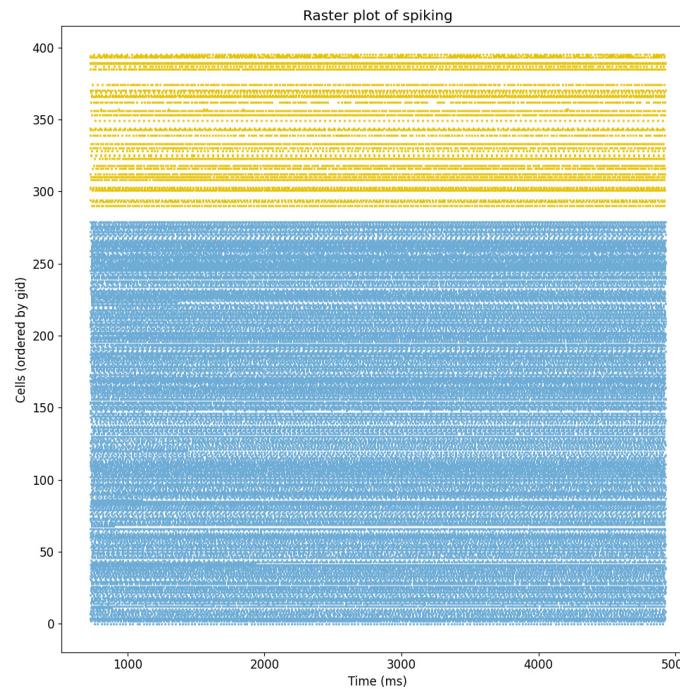
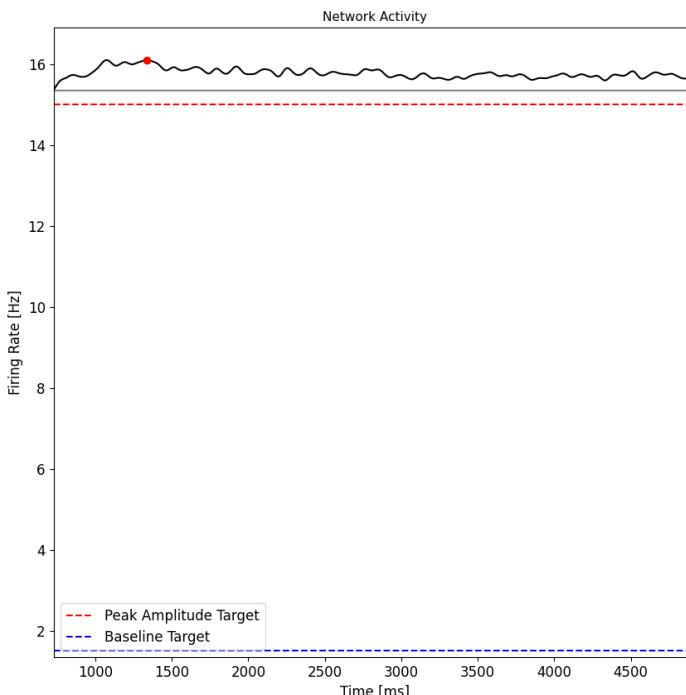
```

```

burstAmp_Fitness: {'Value': 0.7565782209454319, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 15.771820702224069, 'Fit': 1000}
slopeFitness: {'Value': -0.0003942550054142457, 'Fit': 1.0007888209665723}
thresh: {'Value': 15.345146264291543, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 83.98203592814372, 'Fit': 24.62082955077525}
E_rate_fitness: {'Value': 45.62698412698413, 'Fit': 1000}
I_rate_fitness: {'Value': 11.268518518518519, 'Fit': 6.508754703570561}
maxFitness: 1000
average_fitness: 670.2367081194792
average_scaled_fitness: 669.9063540887792

```

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}

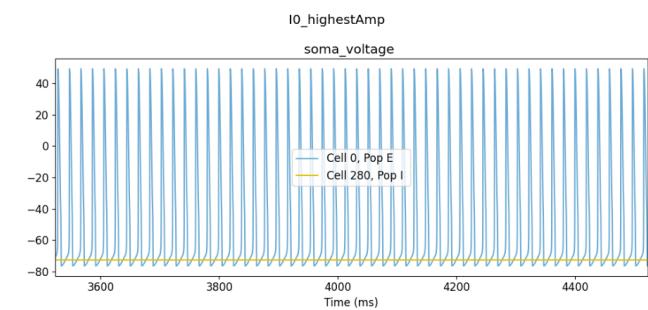
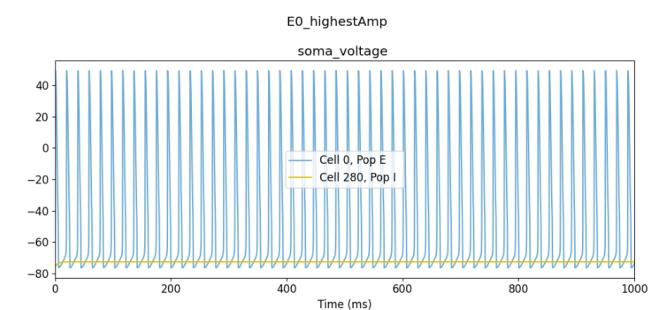
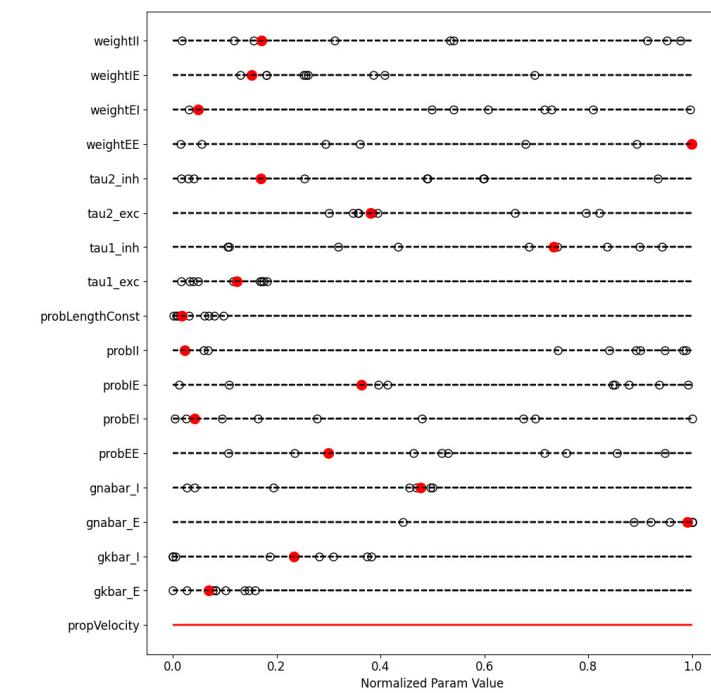
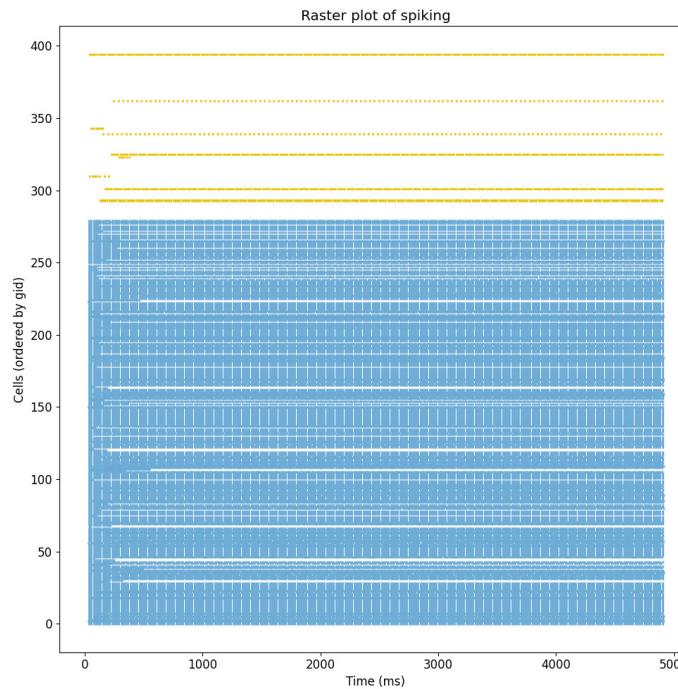
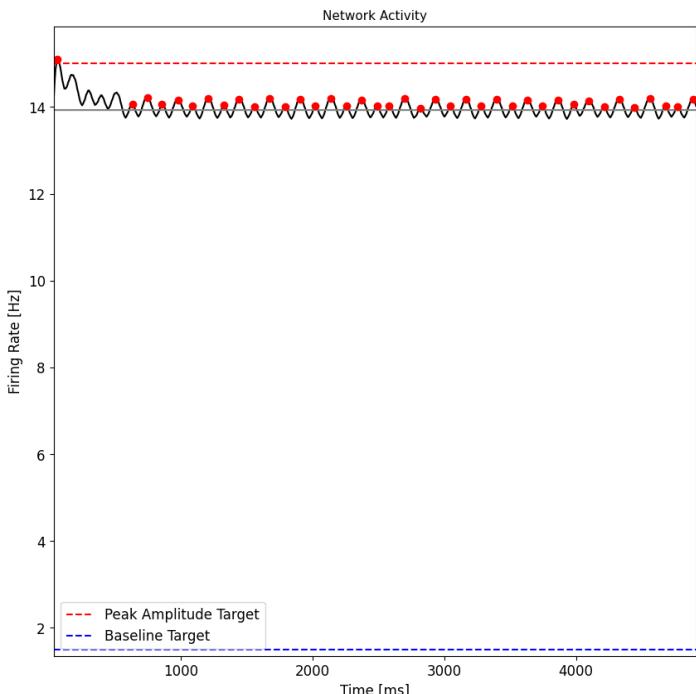
```

```

burstAmp_Fitness: {'Value': 0.19391475271549874, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 7.9389312977099245, 'Fit': 1000}
IBI_fitness: {'Value': 127.10526315789474, 'Fit': 4.208350835836751}
baseline_fitness: {'Value': 13.988819237542822, 'Fit': 1000}
slopeFitness: {'Value': -0.00037945443543600034, 'Fit': 1.0007591969150709}
thresh: {'Value': 13.928807667857546, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 97.60479041916167, 'Fit': 1.614526808916732}
E_rate_fitness: {'Value': 49.226190476190474, 'Fit': 1000}
I_rate_fitness: {'Value': 2.11111111111111, 'Fit': 16.262939826077467}
maxFitness: 1000
average_fitness: 558.1207307408607
average_scaled_fitness: 557.6780730044226

```

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}

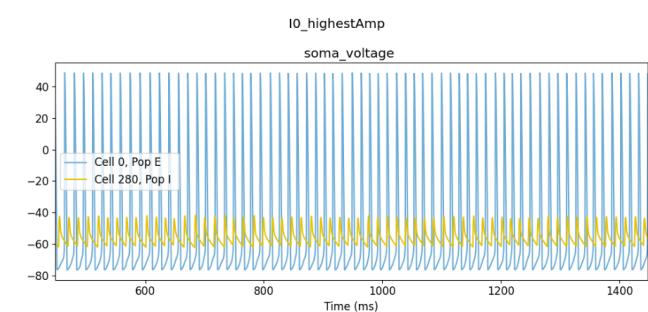
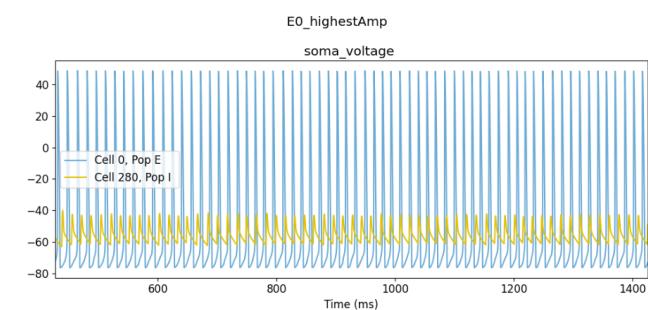
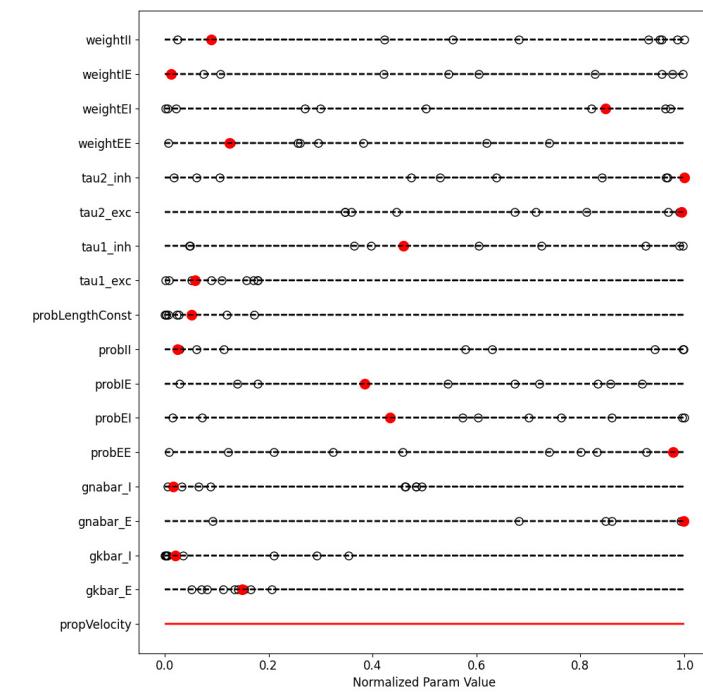
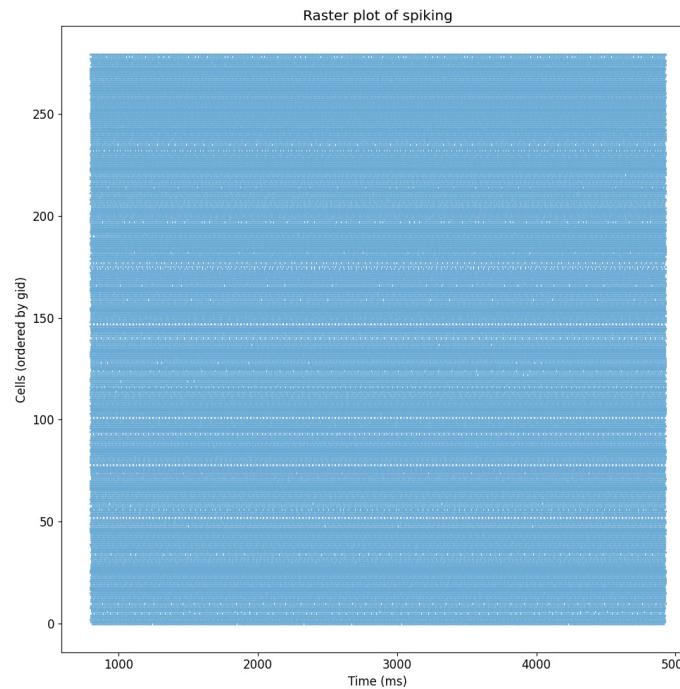
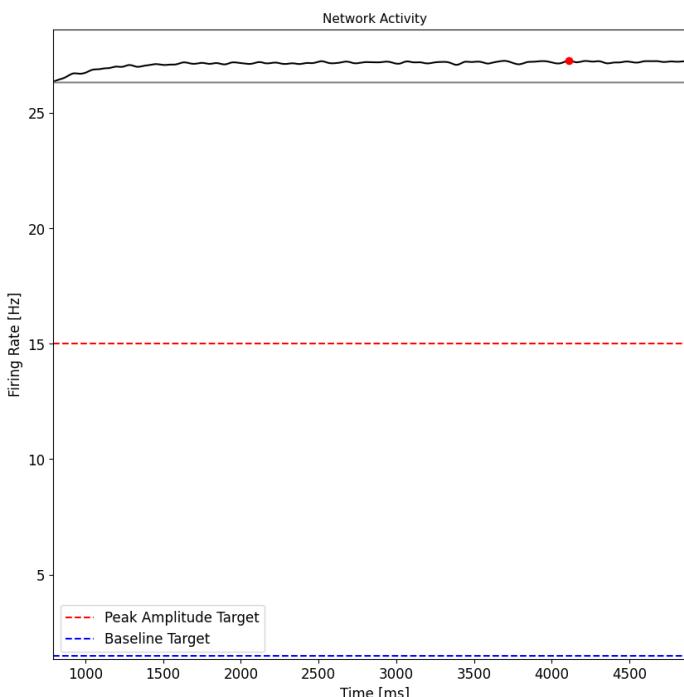
```

```

burstAmp_Fitness: {'Value': 0.9374586315021283, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 27.114348156567722, 'Fit': 1000}
slopeFitness: {'Value': 0.0005954302841433855, 'Fit': 1.0011915699242868}
thresh: {'Value': 26.308919596484806, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 82.75862068965517, 'Fit': 31.446128080475464}
E_rate_fitness: {'Value': 84.9563492063492, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 781.3830355167111
average_scaled_fitness: 781.163938696939

```

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}

```

```

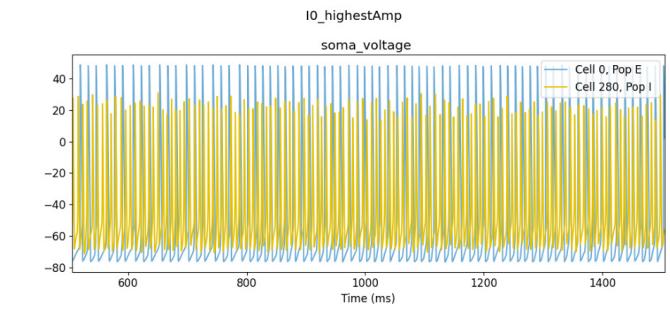
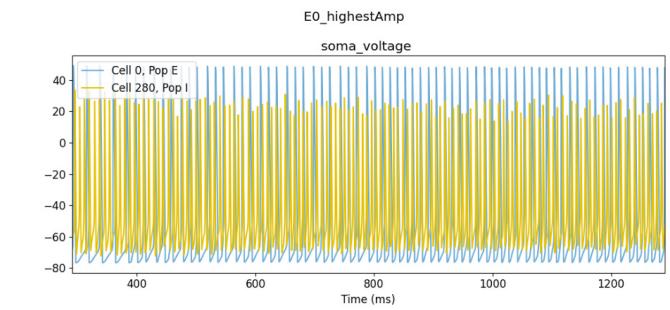
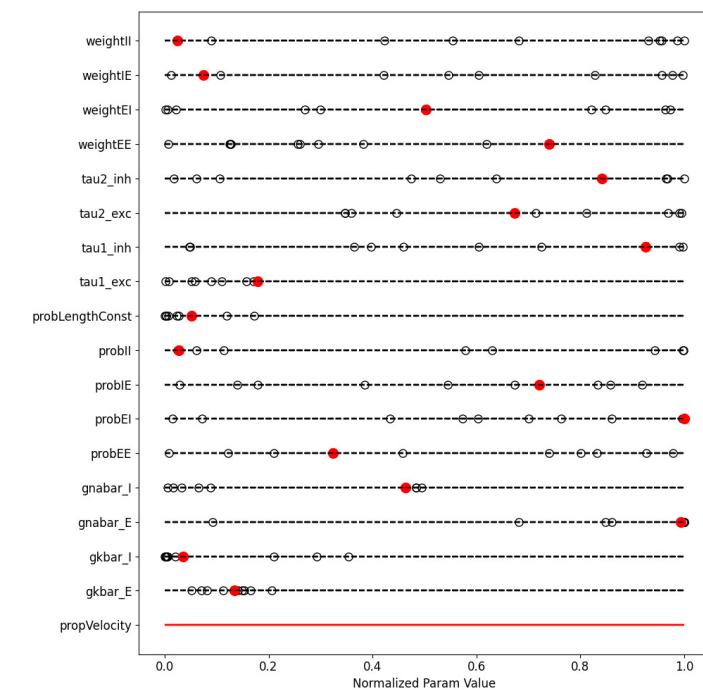
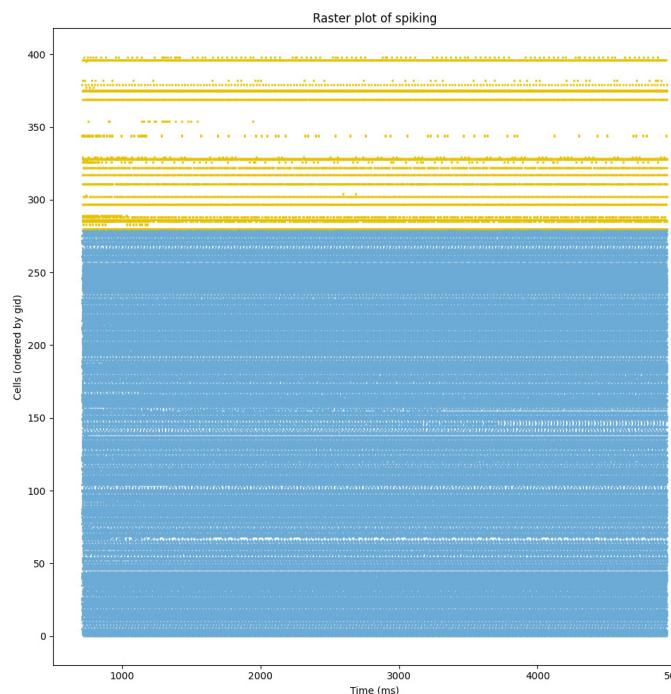
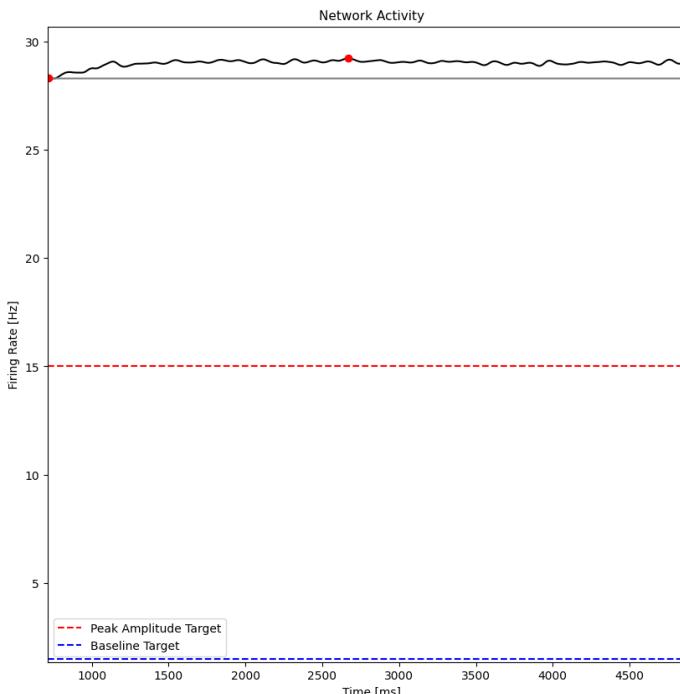
burstAmp_Fitness: {'Value': 0.4704567821807437, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.4052684903748734, 'Fit': 1.5397359524078207}
IBI_fitness: {'Value': 1950.0, 'Fit': 1.6904588483790914}
baseline_fitness: {'Value': 28.99137577846579, 'Fit': 1000}
slopeFitness: {'Value': 0.00033238957312323105, 'Fit': 1.0006650001608757}
thresh: {'Value': 28.2899334759249, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 84.4311377245509, 'Fit': 22.50578652624636}
E_rate_fitness: {'Value': 84.07936507936509, 'Fit': 1000}
I_rate_fitness: {'Value': 24.296296296296298, 'Fit': 1.7689220864517814}
maxFitness: 1000
average_fitness: 447.6117298237384
average_scaled_fitness: 447.0584205380372

```

```

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}

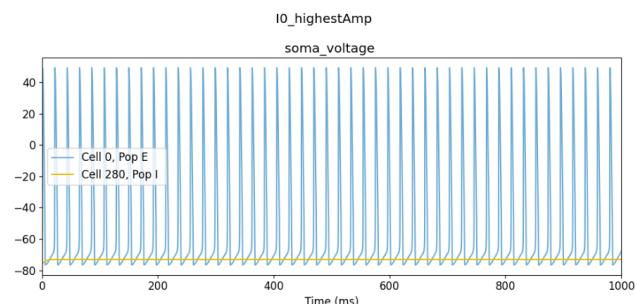
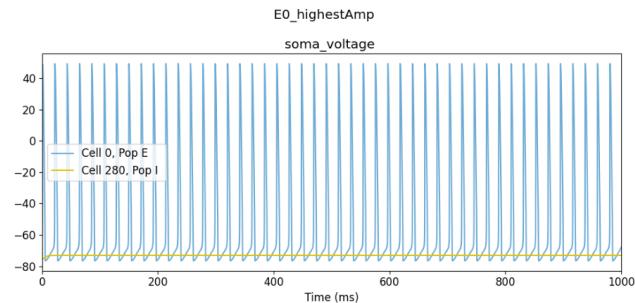
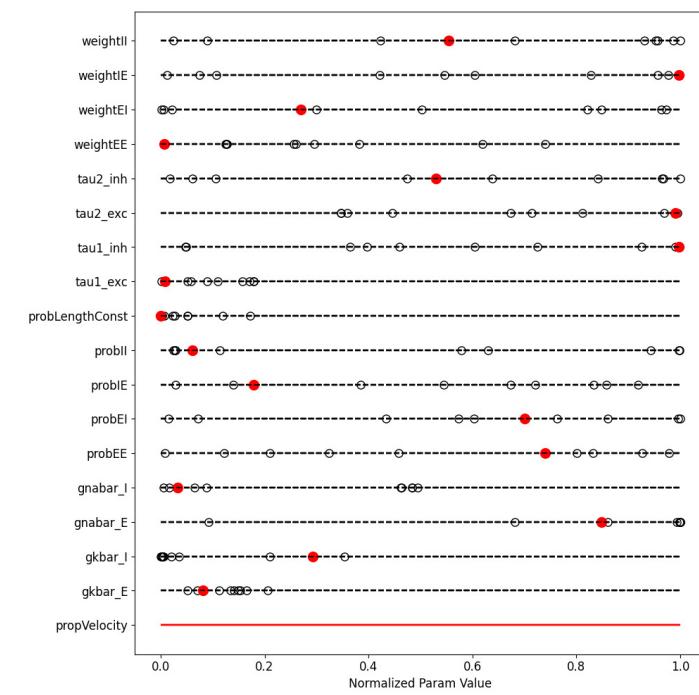
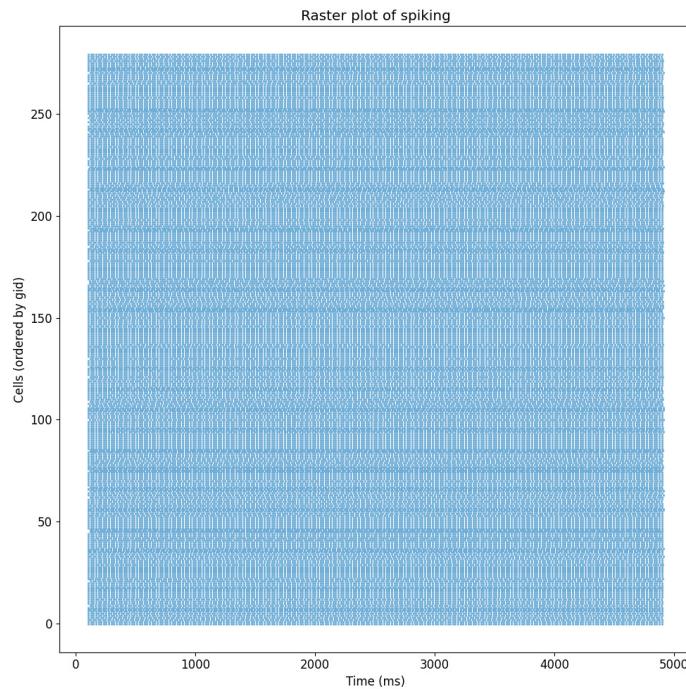
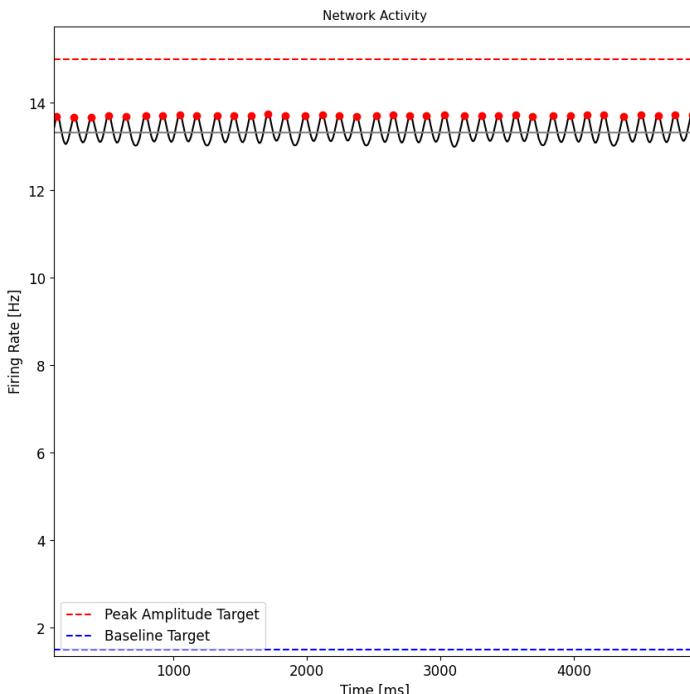
```

```

burstAmp_Fitness: {'Value': 0.3859839605146894, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 7.531806615776082, 'Fit': 1000}
IBI_fitness: {'Value': 132.0833333333334, 'Fit': 4.195317274952874}
baseline_fitness: {'Value': 13.386314077550596, 'Fit': 1000}
slopeFitness: {'Value': 2.743619054021437e-05, 'Fit': 1.000054873886597}
thresh: {'Value': 13.322060678245652, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 96.10778443113772, 'Fit': 2.178078603830325}
E_rate_fitness: {'Value': 47.757936507936506, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4859389725189
average_scaled_fitness: 667.1530737816961

```

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}

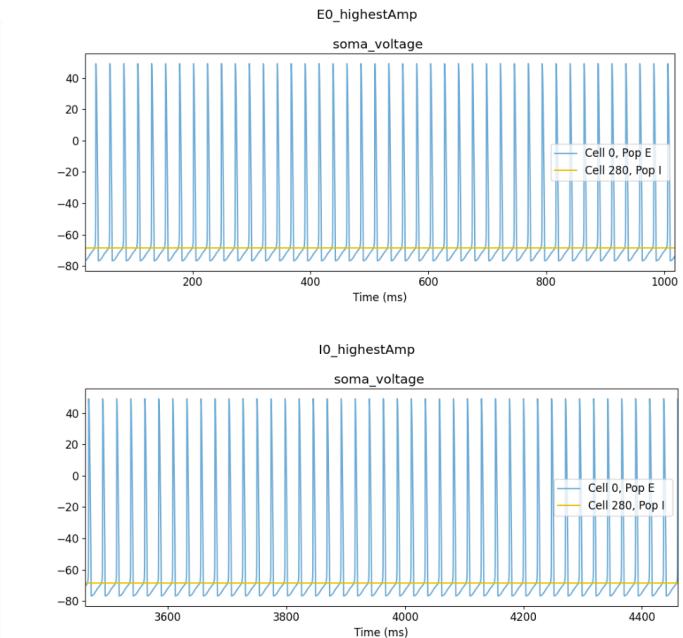
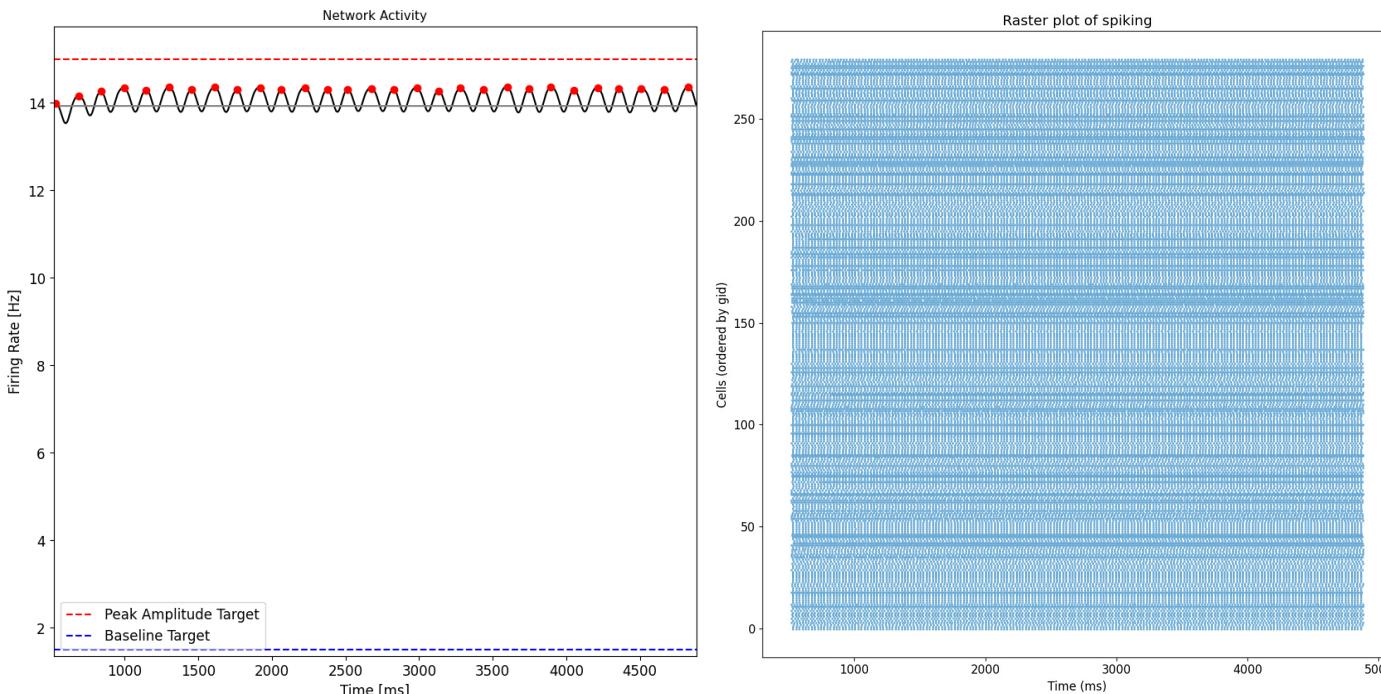
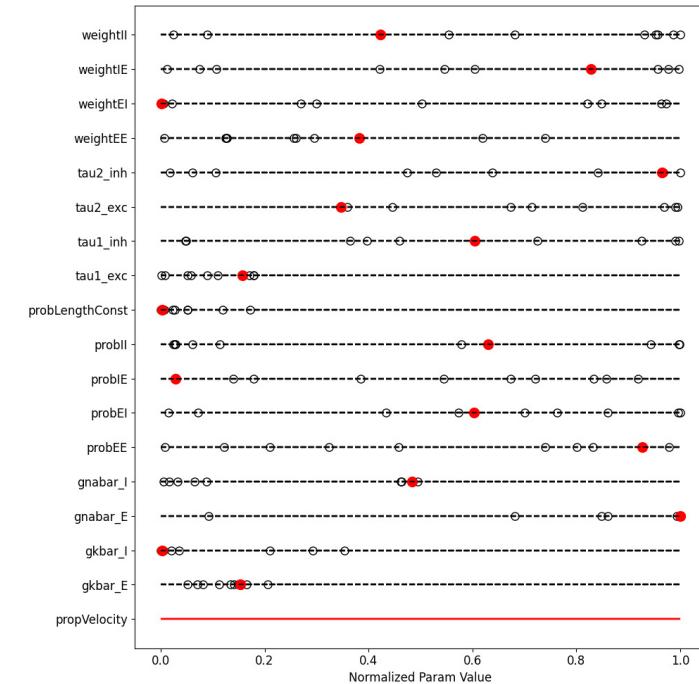
```

```

burstAmp_Fitness: {'Value': 0.3758152280579395, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 5.93958013312852, 'Fit': 1000}
IBI_fitness: {'Value': 153.48214285714286, 'Fit': 4.150657298987616}
baseline_fitness: {'Value': 14.078075654541612, 'Fit': 1000}
slopeFitness: {'Value': 0.00014961092960291355, 'Fit': 1.0002992666305317}
thresh: {'Value': 13.928455150093724, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 87.40629685157421, 'Fit': 12.412954309709757}
E_rate_fitness: {'Value': 48.88095238095238, 'Fit': 1000}
I_rate_fitness: {'Value': 0.046296296296296294, 'Fit': 1000}
maxFitness: 1000
average_fitness: 668.6182123194808
average_scaled_fitness: 668.2863994481174

```

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}

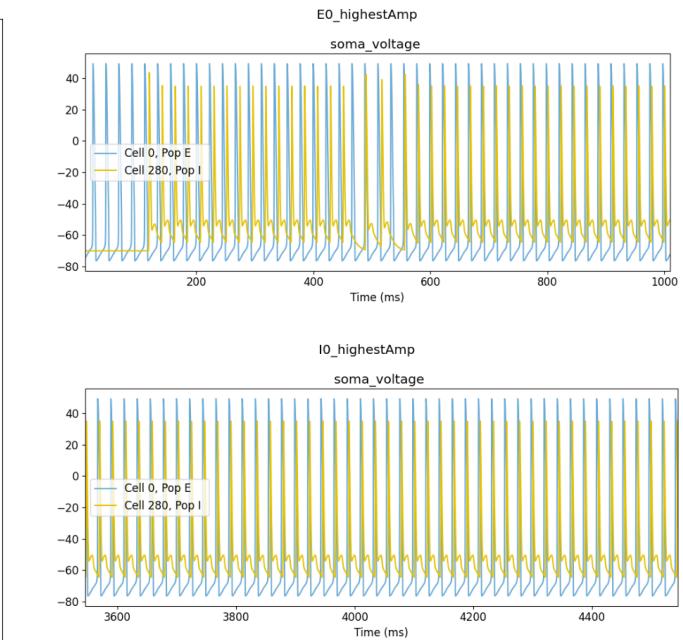
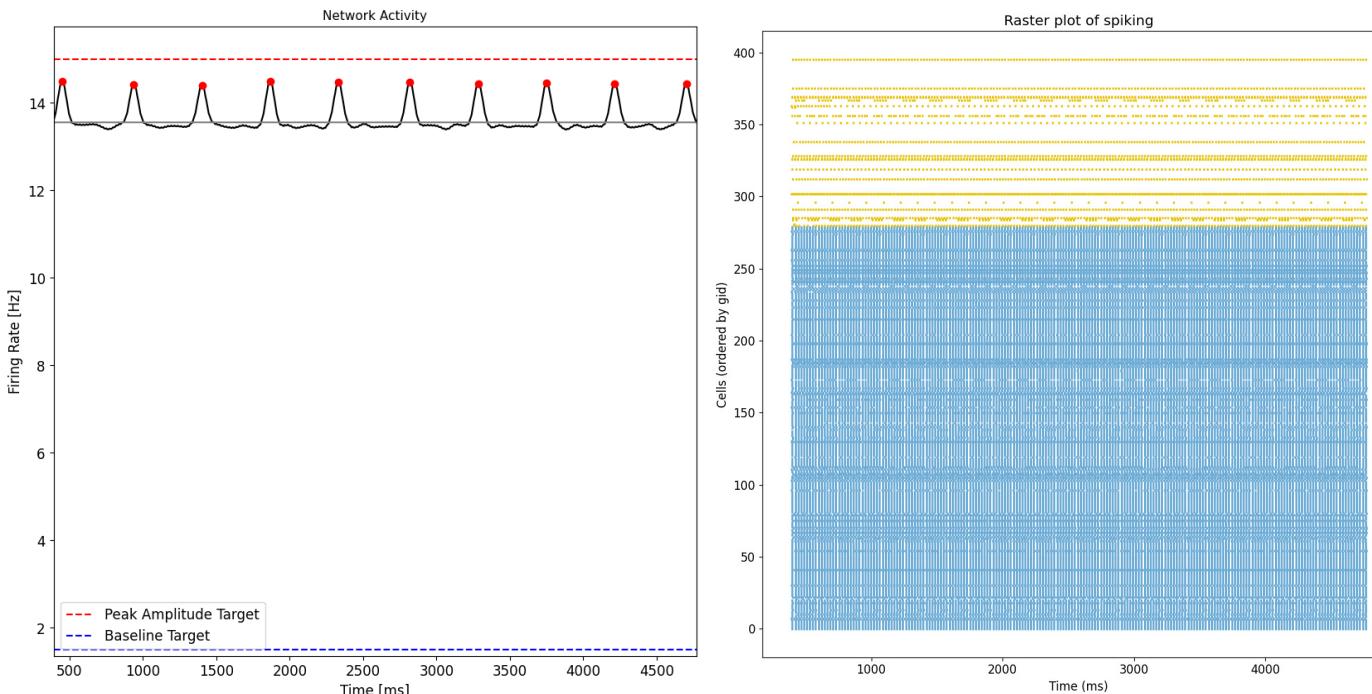
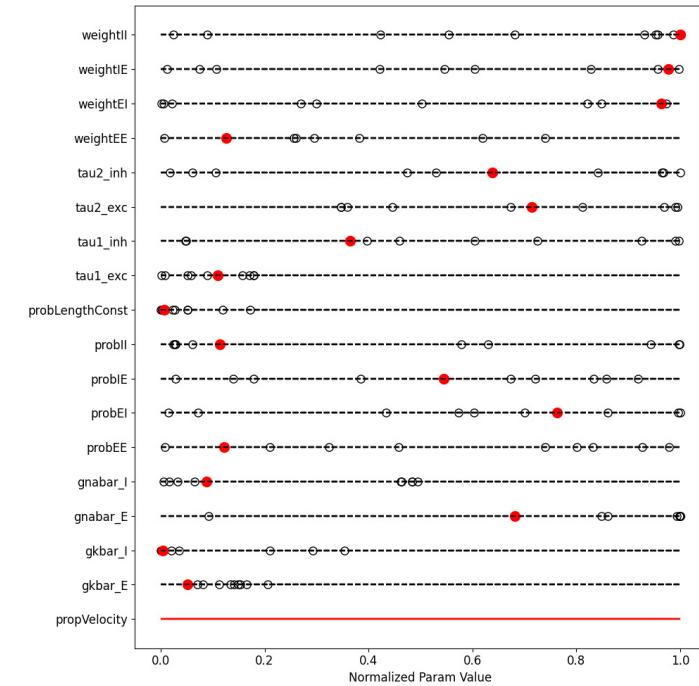
```

```

burstAmp_Fitness: {'Value': 0.8995042118104057, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.0964360587002098, 'Fit': 1000}
IBI_fitness: {'Value': 472.5, 'Fit': 3.538716337548243}
baseline_fitness: {'Value': 13.631111740889061, 'Fit': 1000}
slopeFitness: {'Value': -2.301055600403686e-05, 'Fit': 1.0000460221709957}
thresh: {'Value': 13.55300519990878, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 87.57485029940119, 'Fit': 12.001479575187918}
E_rate_fitness: {'Value': 46.37301587301587, 'Fit': 1000}
I_rate_fitness: {'Value': 6.157407407407407, 'Fit': 10.851021893229602}
maxFitness: 1000
average_fitness: 558.5990293142373
average_scaled_fitness: 558.1571661458167

```

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}

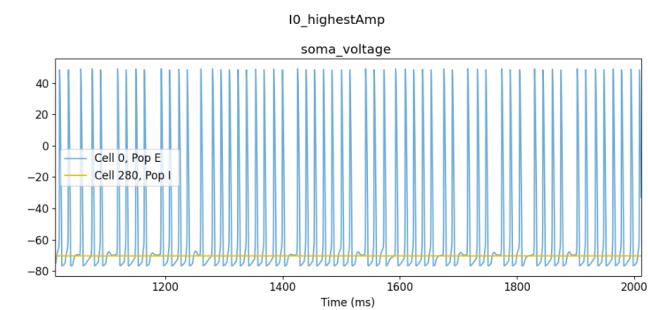
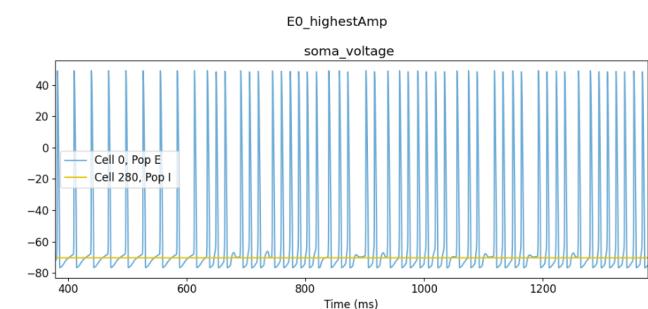
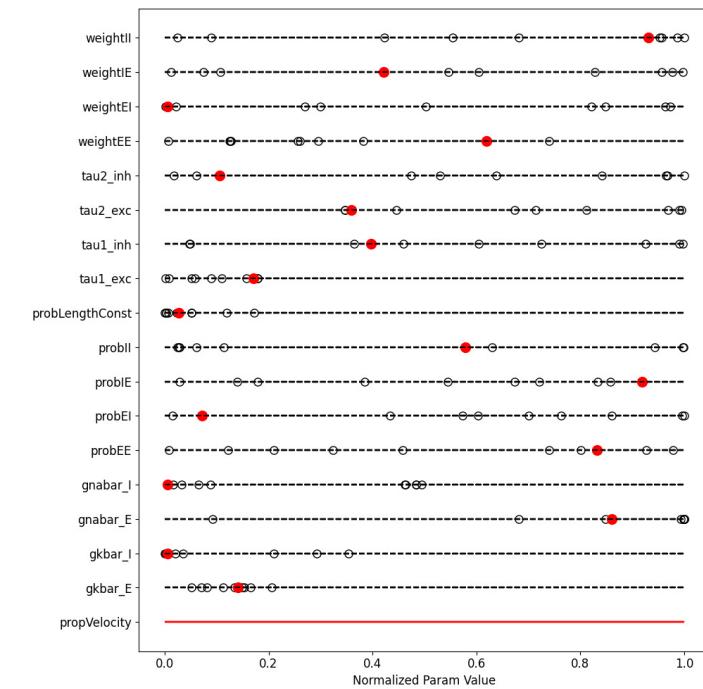
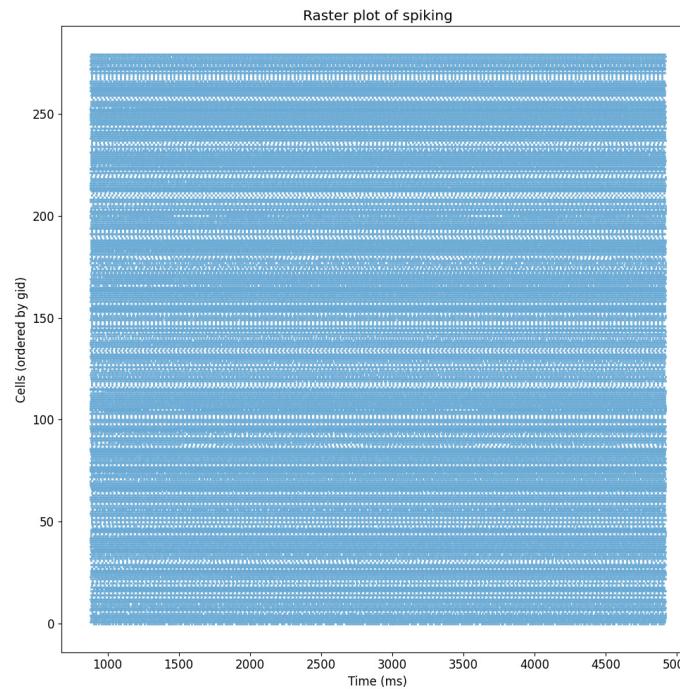
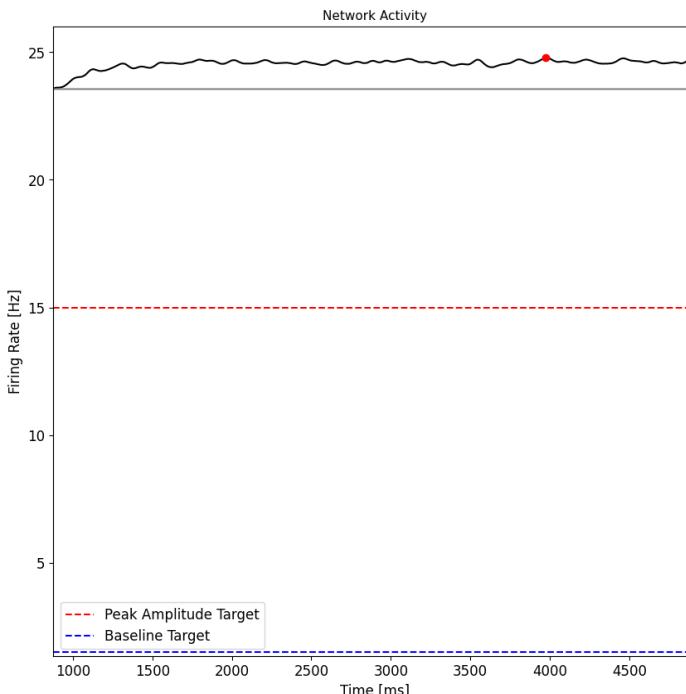
```

```

burstAmp_Fitness: {'Value': 1.219040974702903, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2032520325203252, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 24.535192107232493, 'Fit': 1000}
slopeFitness: {'Value': 0.000658084594068366, 'Fit': 1.001317035718928}
thresh: {'Value': 23.549733000745462, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 81.08108108108108, 'Fit': 43.98214621730811}
E_rate_fitness: {'Value': 70.55555555555556, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 782.7759403614474
average_scaled_fitness: 782.5582121950412

```

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}

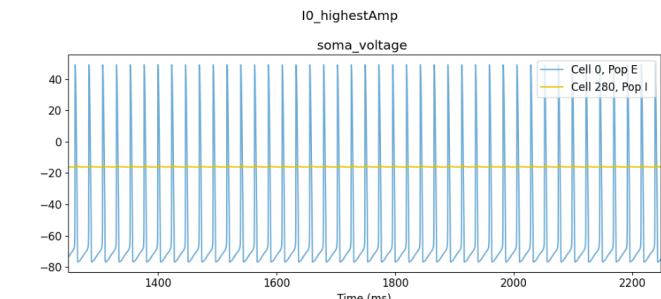
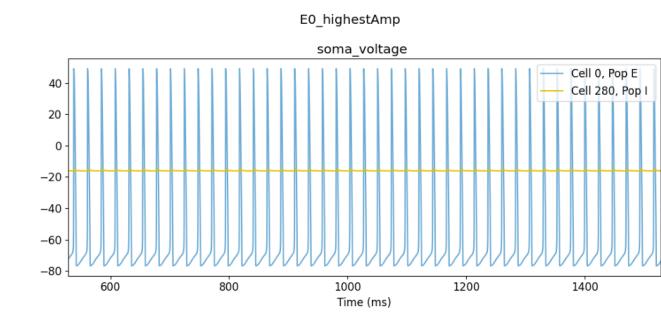
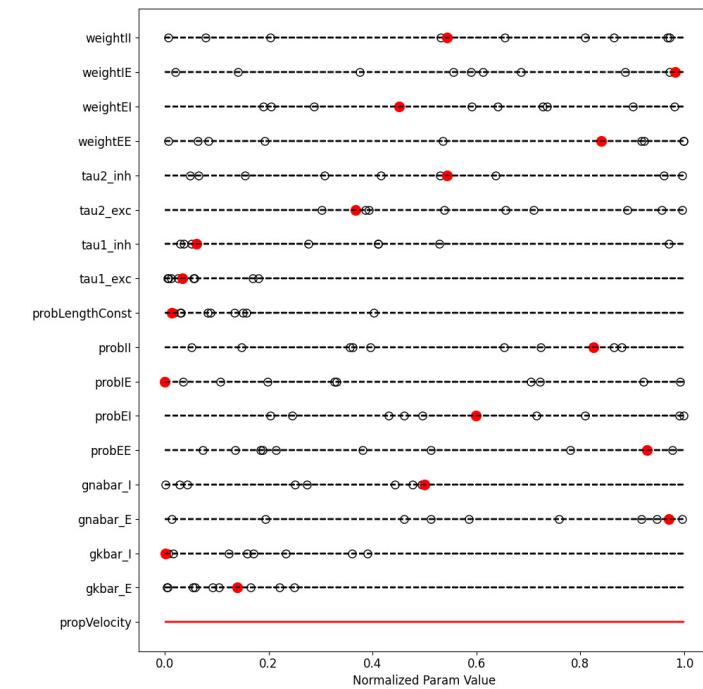
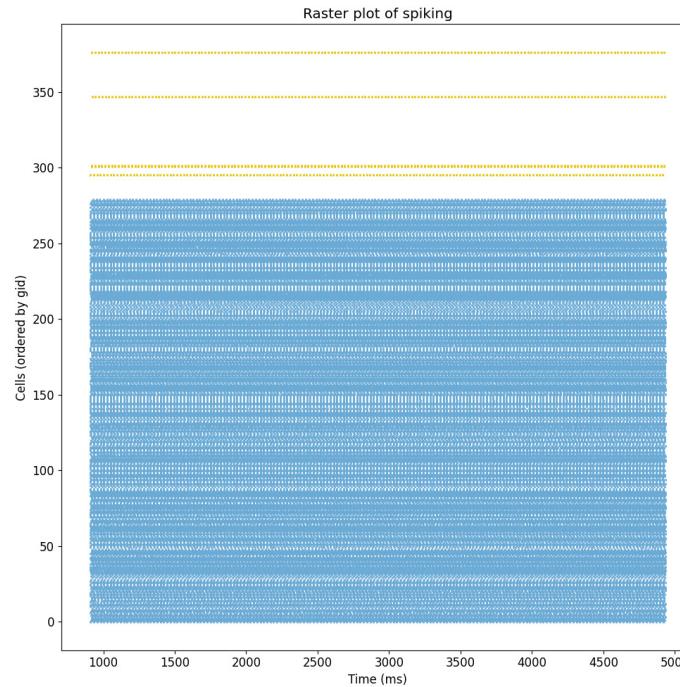
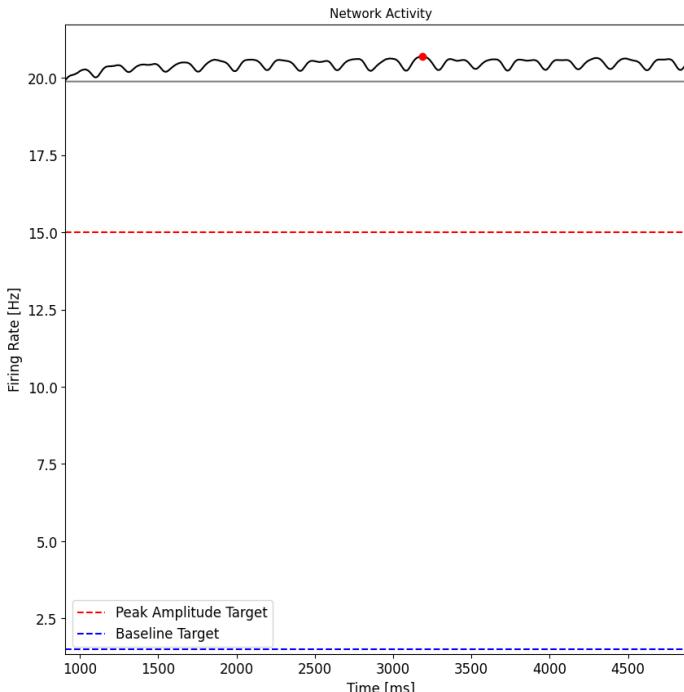
```

```

burstAmp_Fitness: {'Value': 0.816017261183628, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2026342451874367, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 20.4342164902611, 'Fit': 1000}
slopeFitness: {'Value': 0.00038602888169470196, 'Fit': 1.0007723558766997}
thresh: {'Value': 19.87963037782597, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 80.53892215568862, 'Fit': 49.01937209518987}
E_rate_fitness: {'Value': 64.03571428571429, 'Fit': 1000}
I_rate_fitness: {'Value': 1.4907407407407407, 'Fit': 1000}
maxFitness: 1000
average_fitness: 783.3355716056741
average_scaled_fitness: 783.1185226186091

```

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}

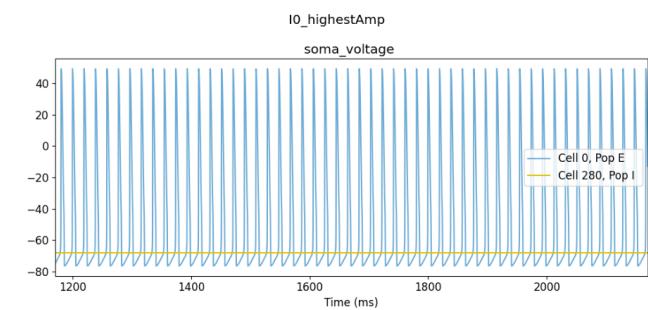
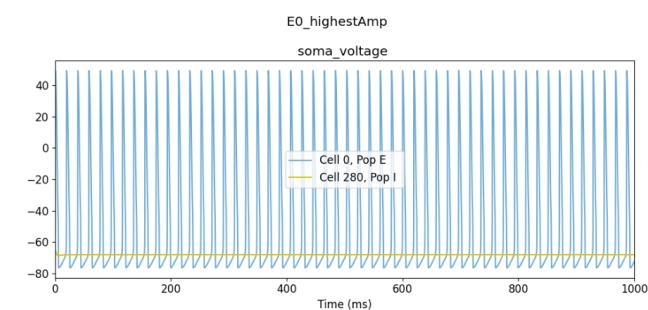
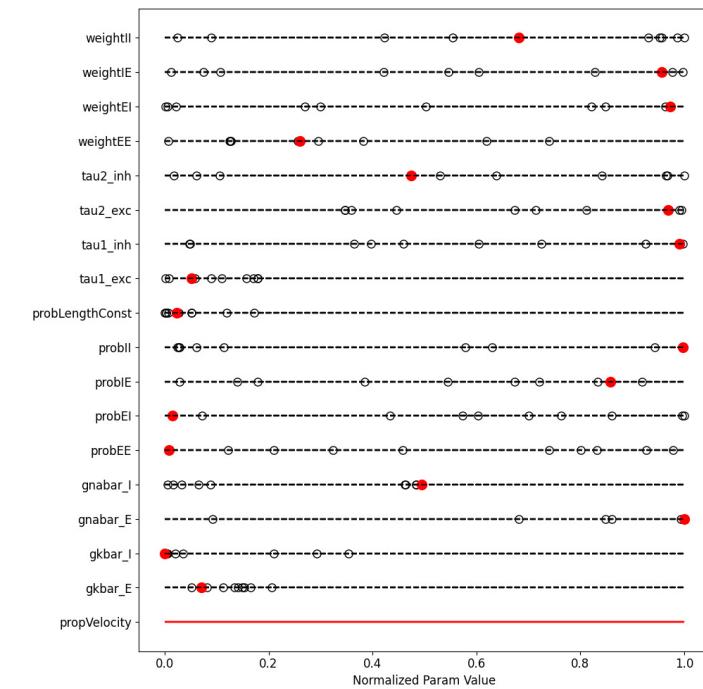
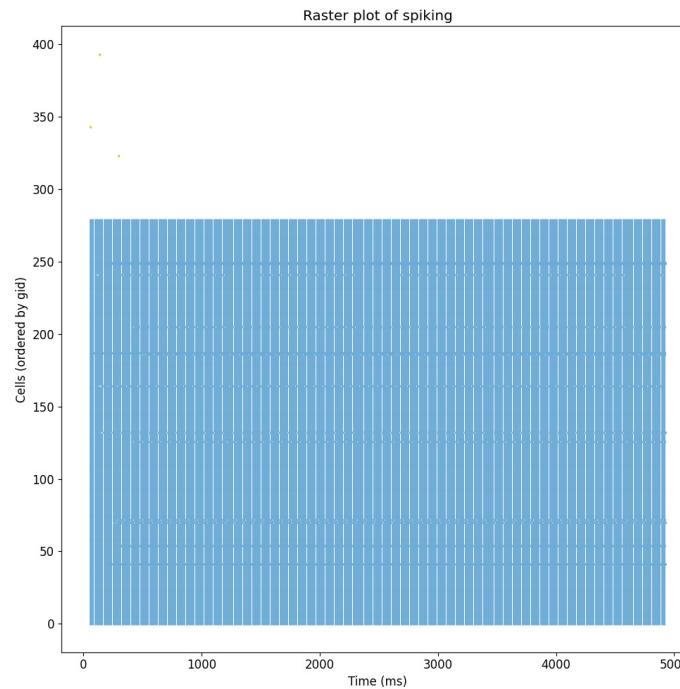
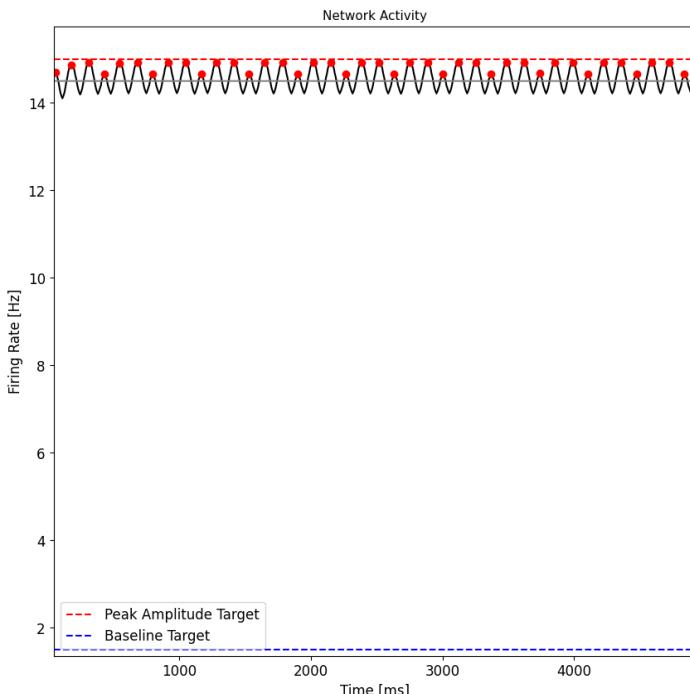
```

```

burstAmp_Fitness: {'Value': 0.32330701123102146, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 8.320649416539828, 'Fit': 1000}
IBI_fitness: {'Value': 121.6875, 'Fit': 4.217194675730431}
baseline_fitness: {'Value': 14.554130870193735, 'Fit': 1000}
slopeFitness: {'Value': -4.874368585520021e-06, 'Fit': 1.0000097487846902}
thresh: {'Value': 14.499249416777072, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 97.60479041916167, 'Fit': 1.614526808916732}
E_rate_fitness: {'Value': 51.4563492063492, 'Fit': 1000}
I_rate_fitness: {'Value': 0.018518518518518517, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4257479148258
average_scaled_fitness: 667.0928375068924

```

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}

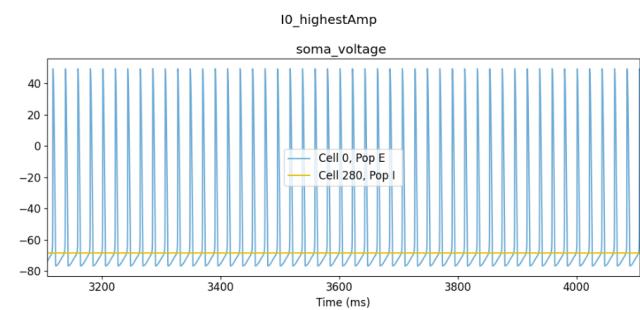
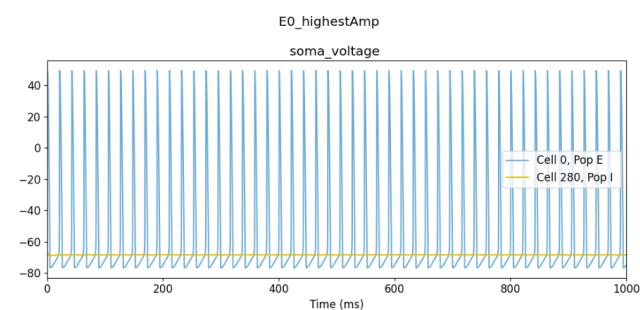
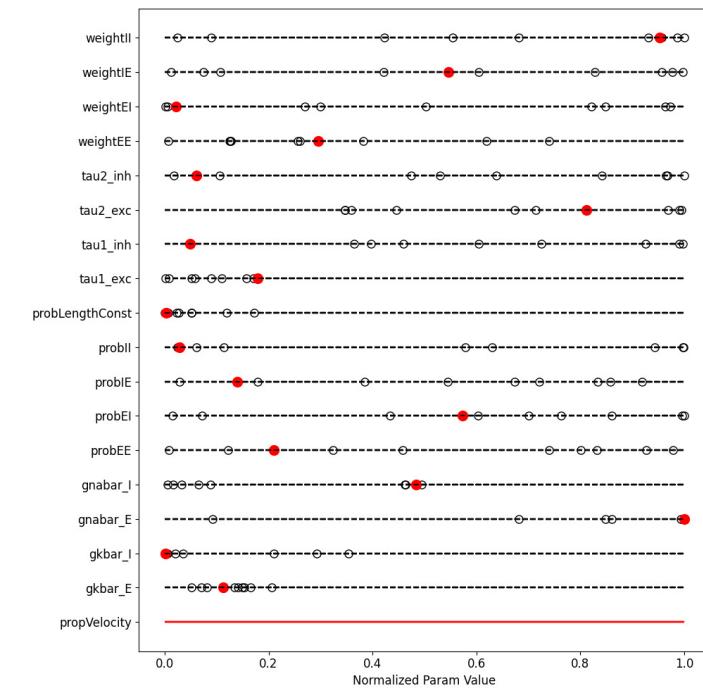
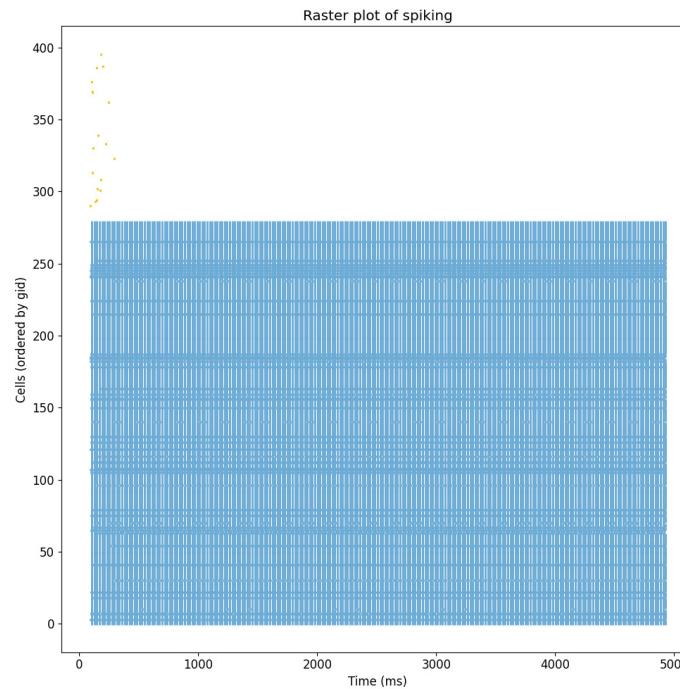
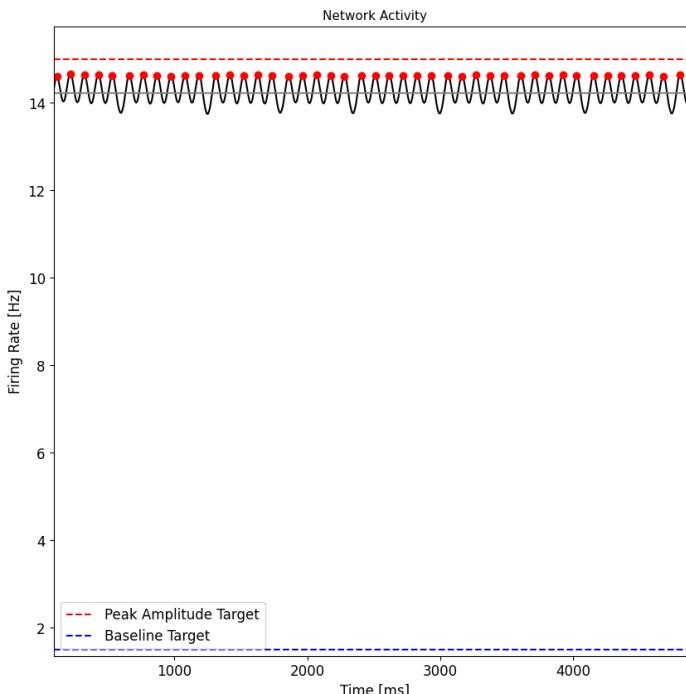
```

```

burstAmp_Fitness: {'Value': 0.401536661677468, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 9.132420091324201, 'Fit': 1000}
IBI_fitness: {'Value': 108.92045454545455, 'Fit': 4.244183657273426}
baseline_fitness: {'Value': 14.286949536713013, 'Fit': 1000}
slopeFitness: {'Value': -2.6780433225966343e-05, 'Fit': 1.0000535623008608}
thresh: {'Value': 14.223560839983714, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 96.7065868263473, 'Fit': 1.9322451843089765}
E_rate_fitness: {'Value': 51.29761904761905, 'Fit': 1000}
I_rate_fitness: {'Value': 0.14814814814814, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4640536004315
average_scaled_fitness: 667.131166938149

```

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}

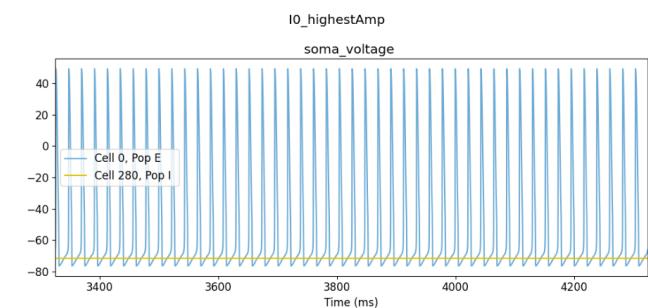
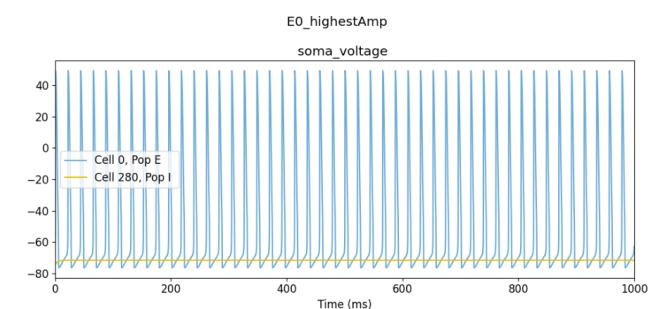
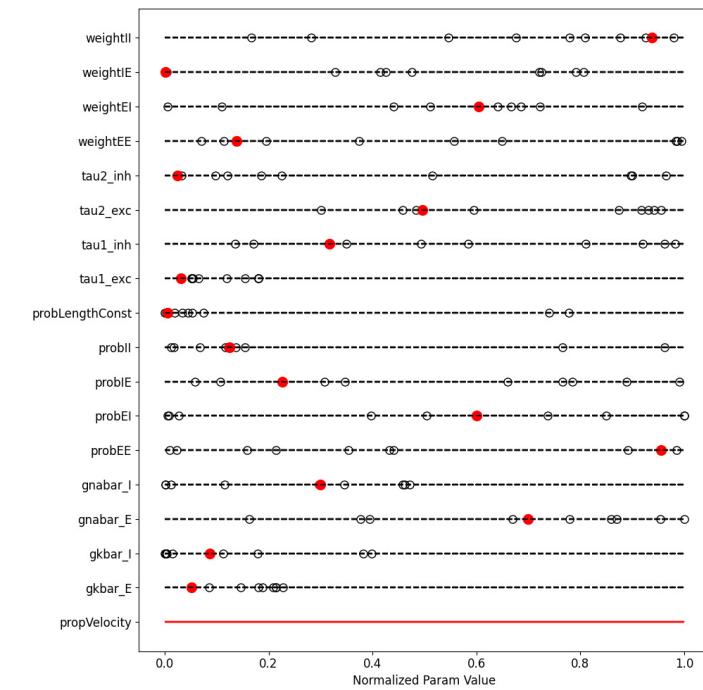
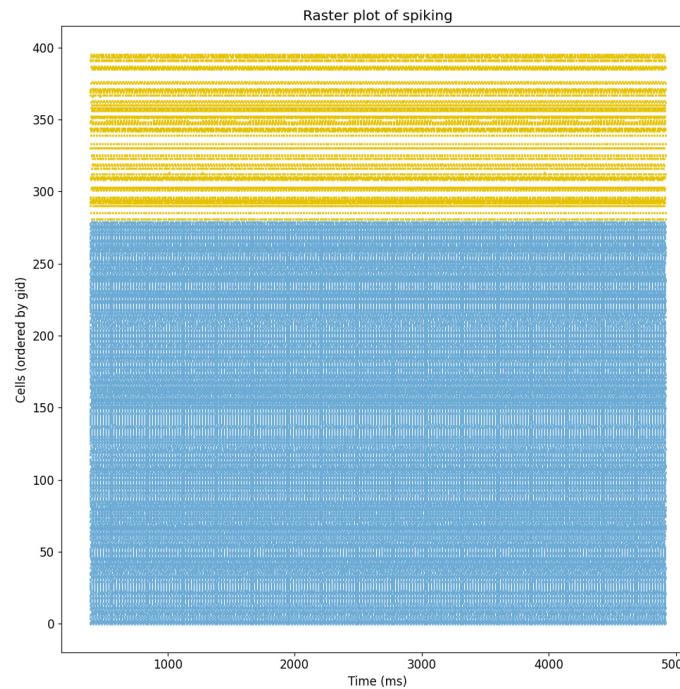
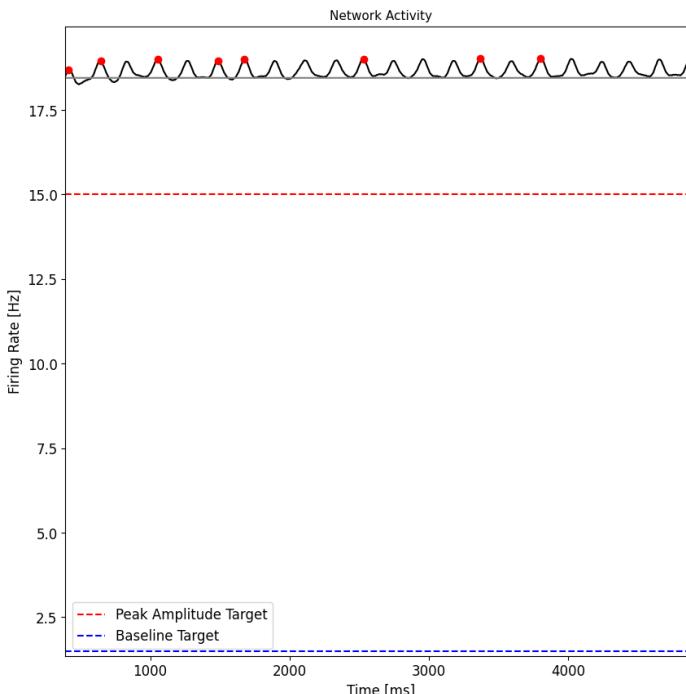
```

```

burstAmp_Fitness: {'Value': 0.5040208006948745, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.6260162601626016, 'Fit': 1000}
IBI_fitness: {'Value': 484.2857142857143, 'Fit': 3.5441724258370866}
baseline_fitness: {'Value': 18.644934040805794, 'Fit': 1000}
slopeFitness: {'Value': 0.00016737375624952433, 'Fit': 1.0003348035467}
thresh: {'Value': 18.451009369896465, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 90.5688622754491, 'Fit': 6.594444452296588}
E_rate_fitness: {'Value': 55.34126984126984, 'Fit': 1000}
I_rate_fitness: {'Value': 22.88888888888889, 'Fit': 2.0362525049494433}
maxFitness: 1000
average_fitness: 557.0194671318477
average_scaled_fitness: 556.5758945664511

```

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}

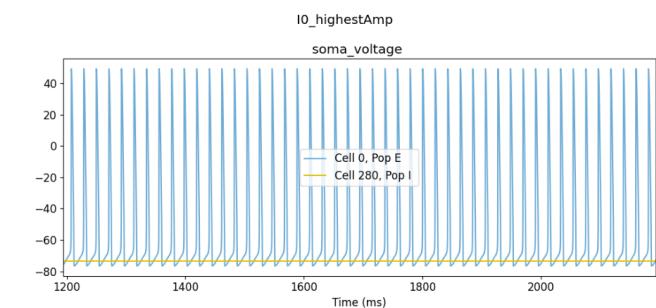
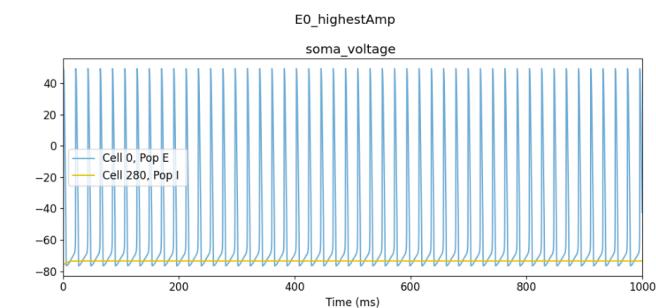
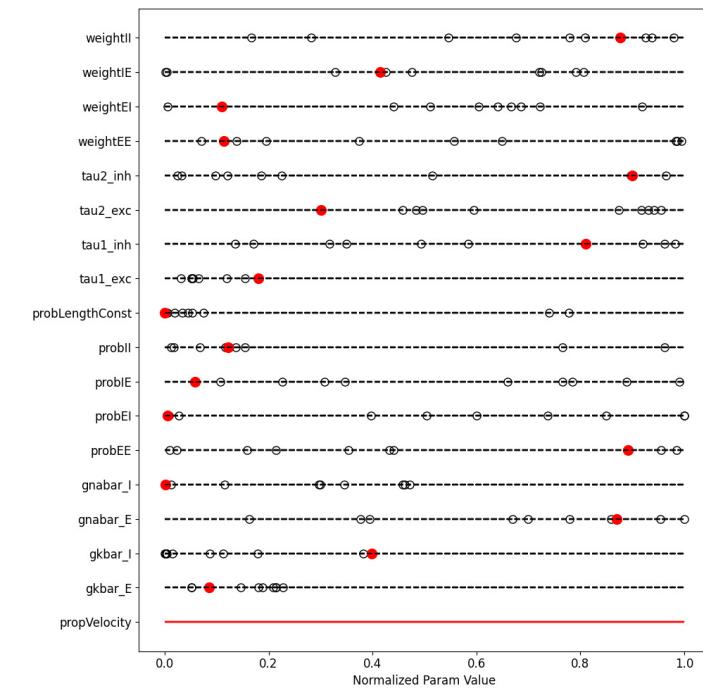
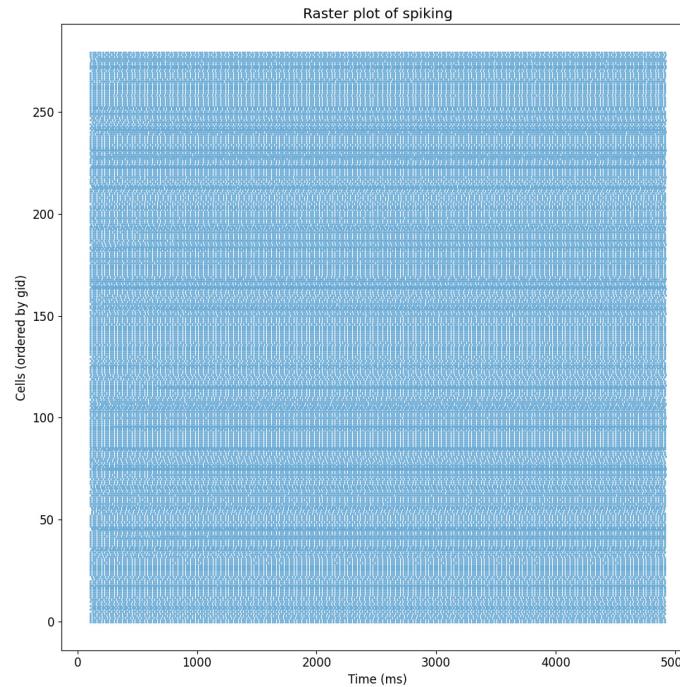
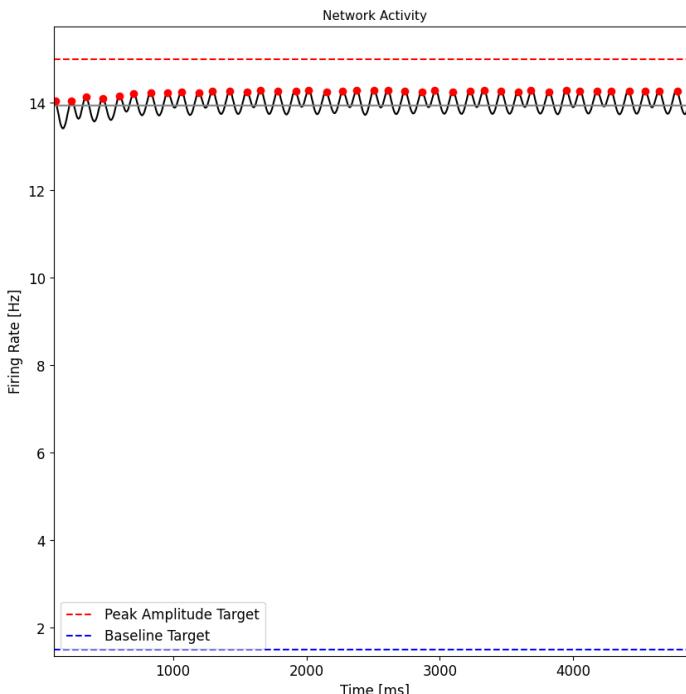
```

```

burstAmp_Fitness: {'Value': 0.30222785014322273, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 8.33333333333334, 'Fit': 1000}
IBI_fitness: {'Value': 119.4375, 'Fit': 4.221962365308857}
baseline_fitness: {'Value': 14.000244313414012, 'Fit': 1000}
slopeFitness: {'Value': 0.00020702439643246337, 'Fit': 1.000414134522898}
thresh: {'Value': 13.939206631539303, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 96.25748502994011, 'Fit': 2.11383322585493}
E_rate_fitness: {'Value': 50.05555555555555, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4818010806318
average_scaled_fitness: 667.1488120475115

```

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}

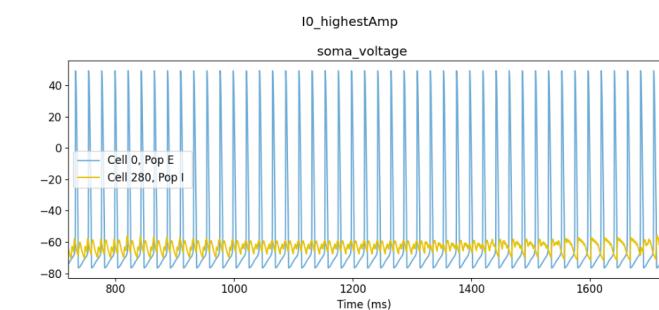
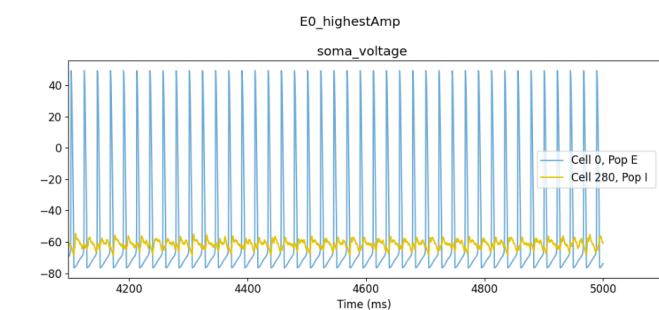
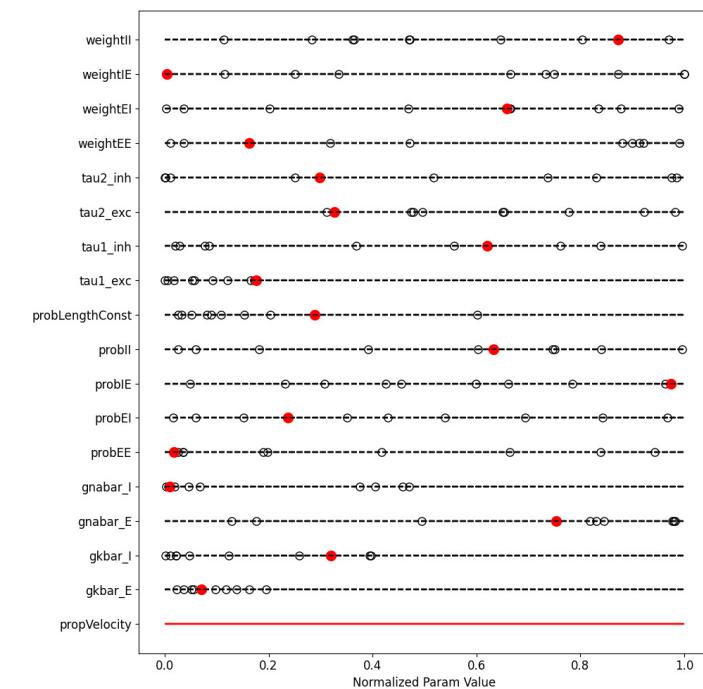
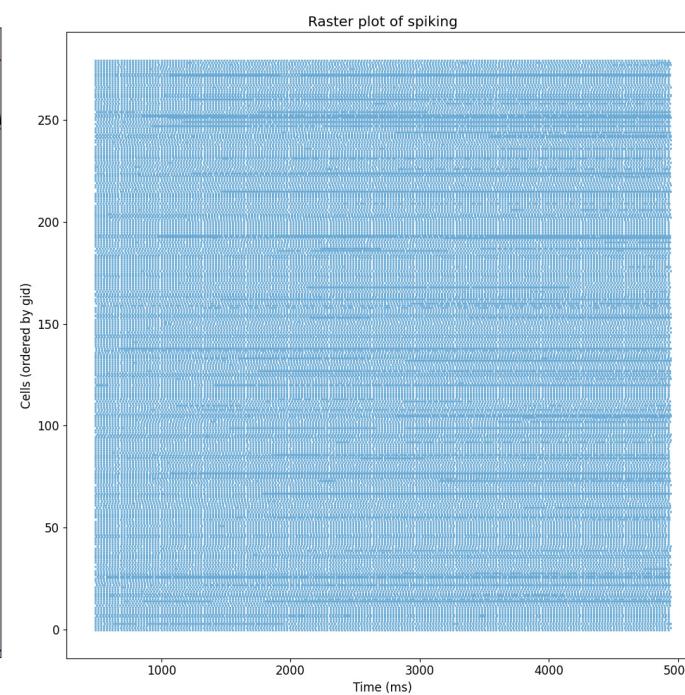
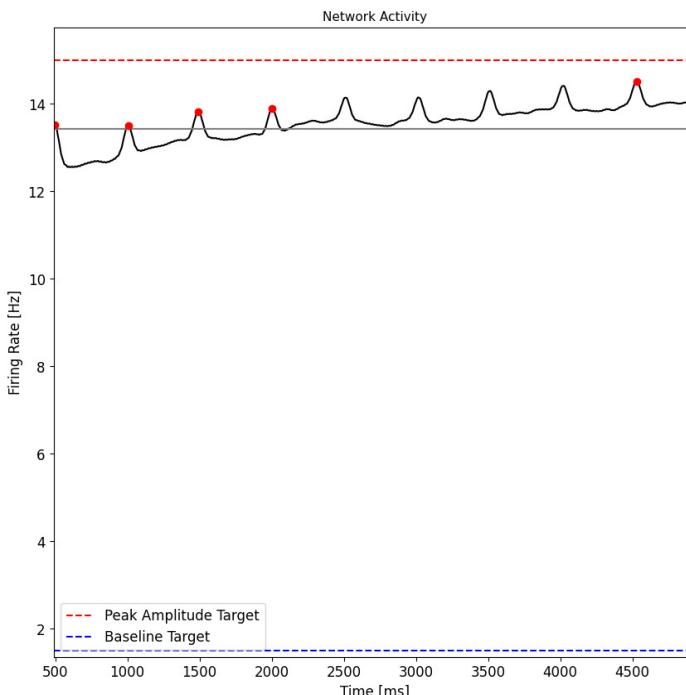
```

```

burstAmp_Fitness: {'Value': 0.42380217054797453, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.0116337885685383, 'Fit': 58.54541228181337}
IBI_fitness: {'Value': 1008.75, 'Fit': 2.9311466014851977}
baseline_fitness: {'Value': 13.558907948133491, 'Fit': 1000}
slopeFitness: {'Value': 0.002173325129053168, 'Fit': 1.00435611064437}
thresh: {'Value': 13.427561845031414, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 89.07185628742515, 'Fit': 8.896240239783817}
E_rate_fitness: {'Value': 45.72619047619048, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 563.4863505815252
average_scaled_fitness: 563.0474946627284

```

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}

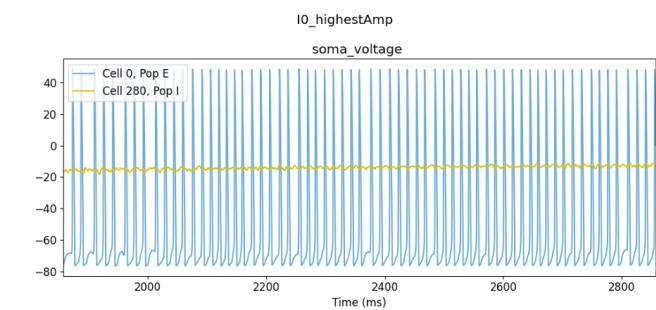
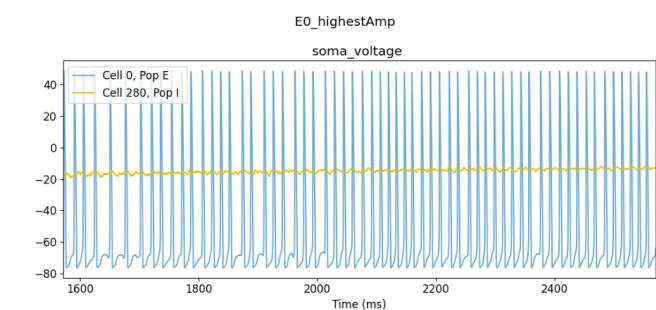
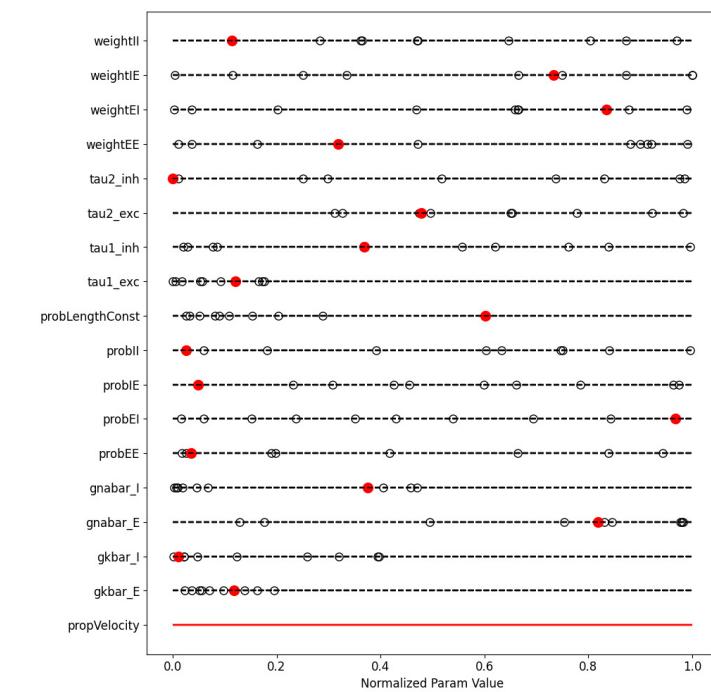
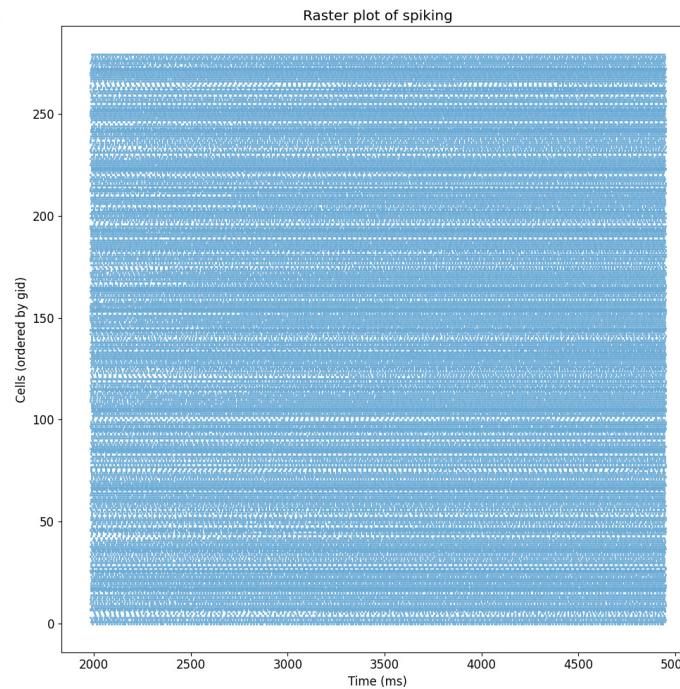
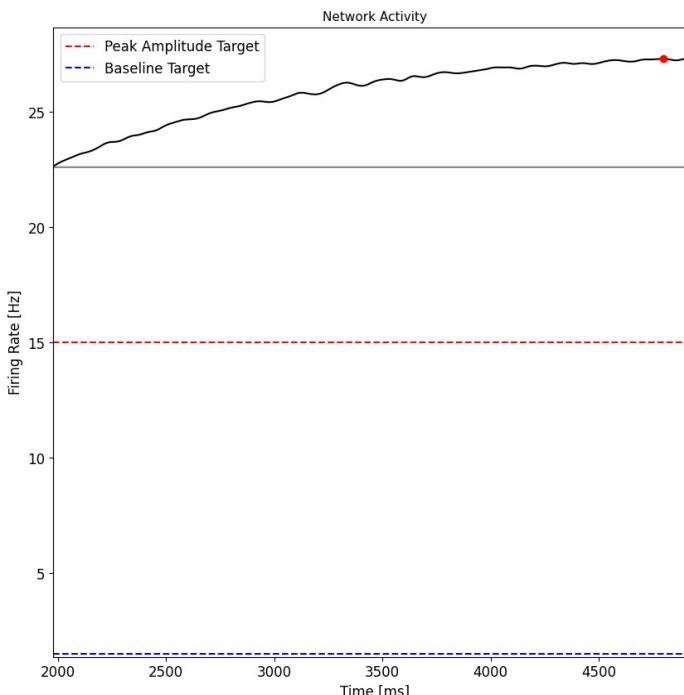
```

```

burstAmp_Fitness: {'Value': 4.705443488745807, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20202020202020202, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 25.853873324425415, 'Fit': 1000}
slopeFitness: {'Value': 0.010569461856886469, 'Fit': 1.0213639334526752}
thresh: {'Value': 22.608870275566893, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 59.60960960960961, 'Fit': 1000}
E_rate_fitness: {'Value': 44.33333333333333, 'Fit': 1000}
I_rate_fitness: {'Value': 5.814814814814815, 'Fit': 11.229211117606422}
maxFitness: 1000
average_fitness: 779.138952783451
average_scaled_fitness: 778.9131426411843

```

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}

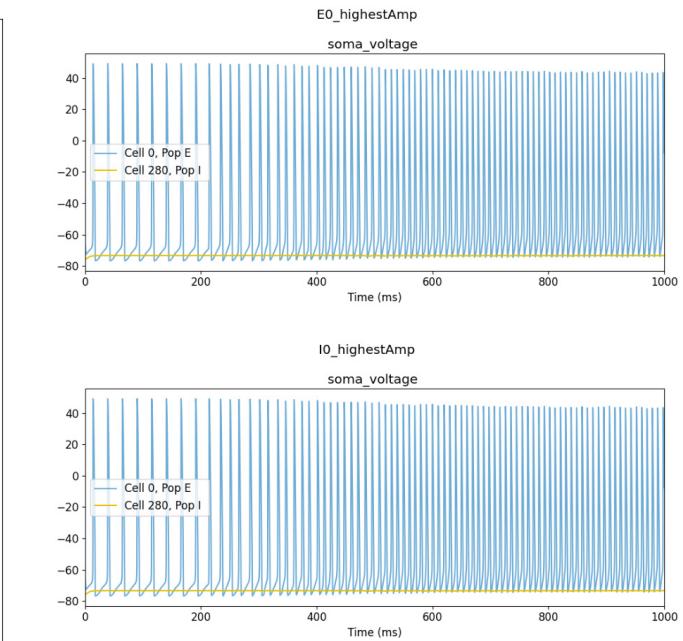
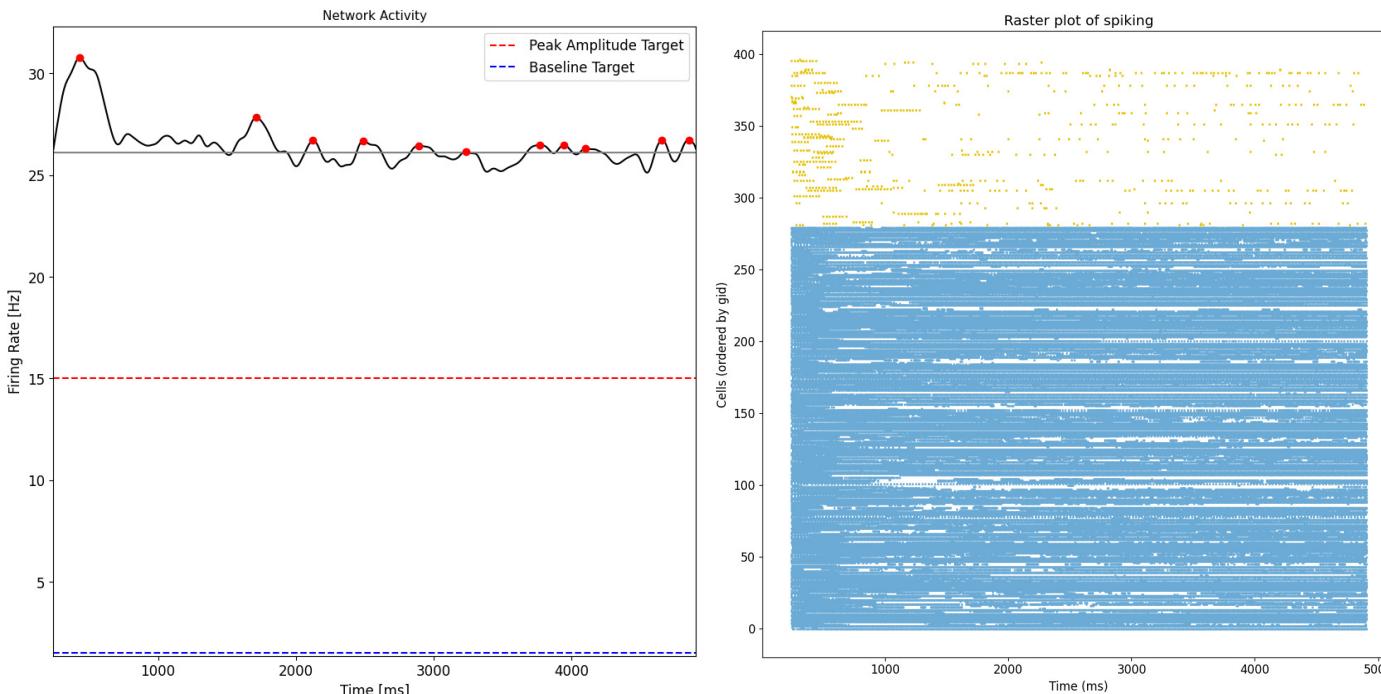
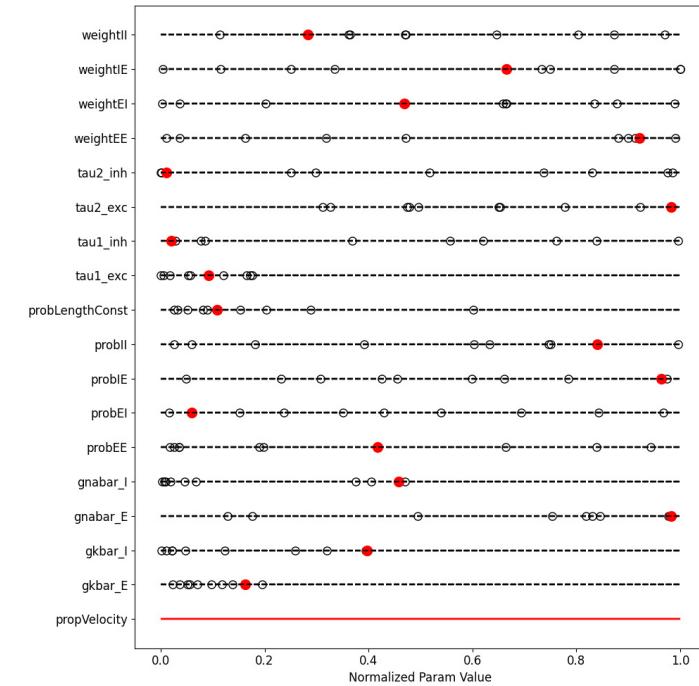
```

```

burstAmp_Fitness: {'Value': 0.9269928768579241, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.2426095820591234, 'Fit': 1000}
IBI_fitness: {'Value': 442.5, 'Fit': 3.6317846663391955}
baseline_fitness: {'Value': 26.48825084506601, 'Fit': 1000}
slopeFitness: {'Value': -0.003617689022651373, 'Fit': 1.007261616636901}
thresh: {'Value': 26.10926746540198, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.54354354354354, 'Fit': 3.637480571413905}
E_rate_fitness: {'Value': 95.03571428571429, 'Fit': 1000}
I_rate_fitness: {'Value': 3.75, 'Fit': 13.804574186067095}
maxFitness: 1000
average_fitness: 558.0090112267175
average_scaled_fitness: 557.5633617832478

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_9/gen_9_cand_37_data.json

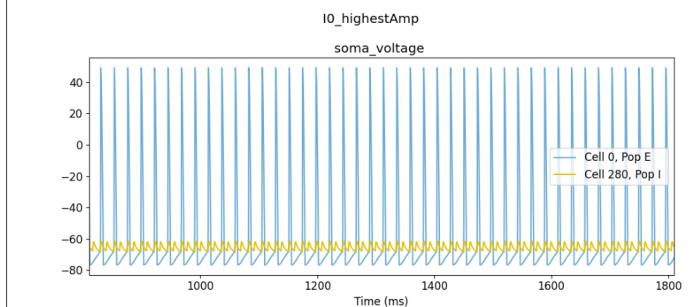
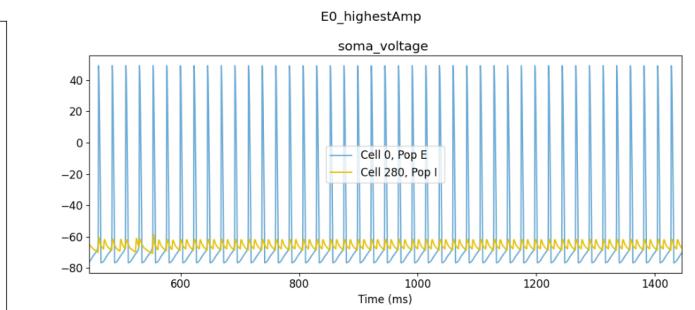
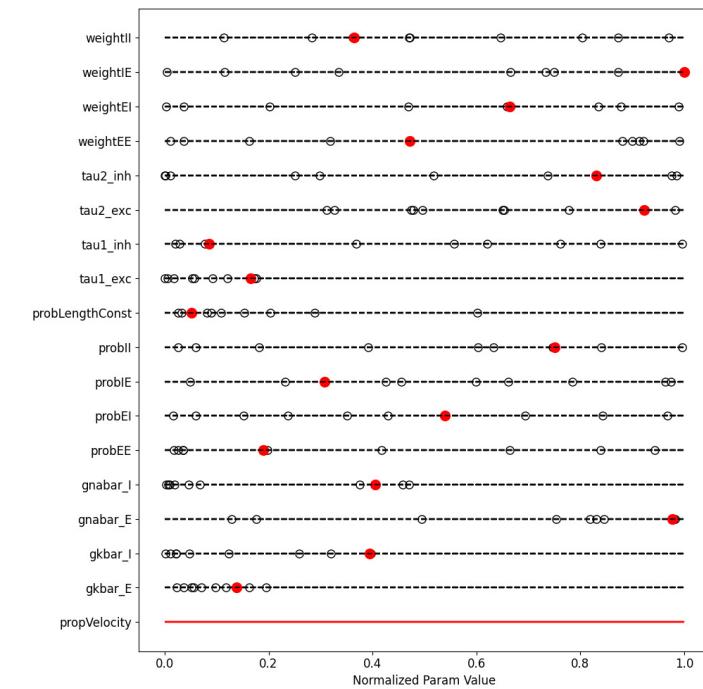
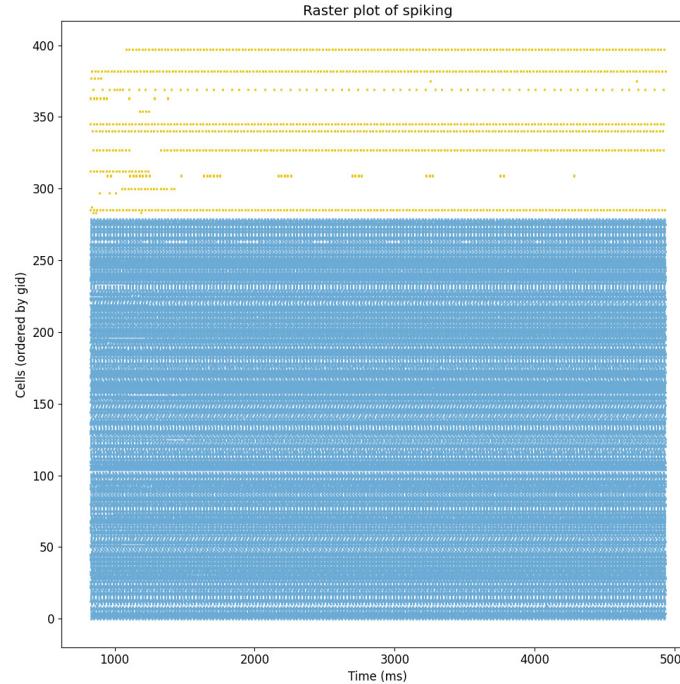
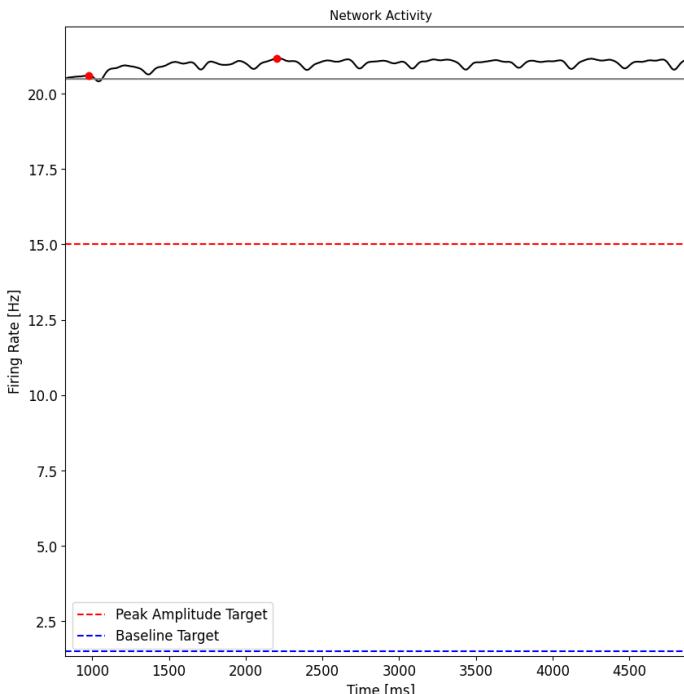
SimLabel: gen_9_cand_37

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': 0.4061641138768106, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.4052684903748734, 'Fit': 1.5397359524078207}
IBI_fitness: {'Value': 1230.0, 'Fit': 2.4229843914855502}
baseline_fitness: {'Value': 20.974307482750923, 'Fit': 1000}
slopeFitness: {'Value': 0.0005193131361841247, 'Fit': 1.001039165831419}
thresh: {'Value': 20.48573058989708, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 82.18562874251496, 'Fit': 35.264410403640824}
E_rate_fitness: {'Value': 64.9920634920635, 'Fit': 1000}
I_rate_fitness: {'Value': 7.25, 'Fit': 9.727919012559884}
maxFitness: 1000
average_fitness: 449.9951209917695
average_scaled_fitness: 449.44399286564425
```

```
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}

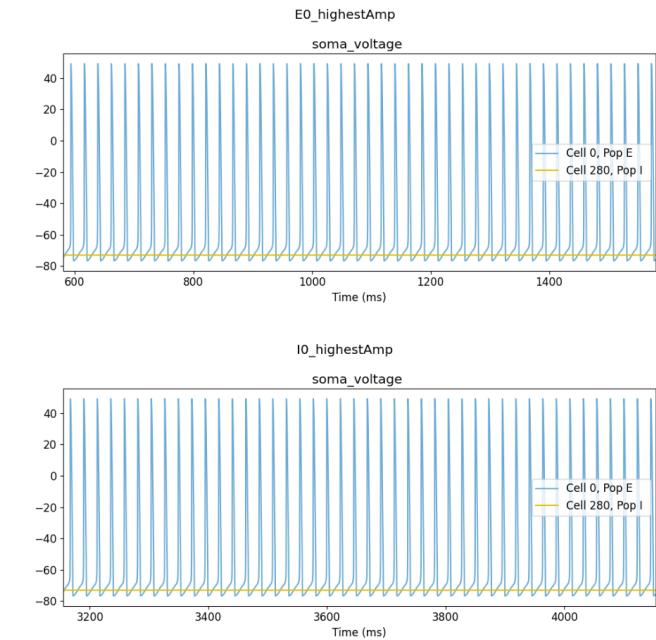
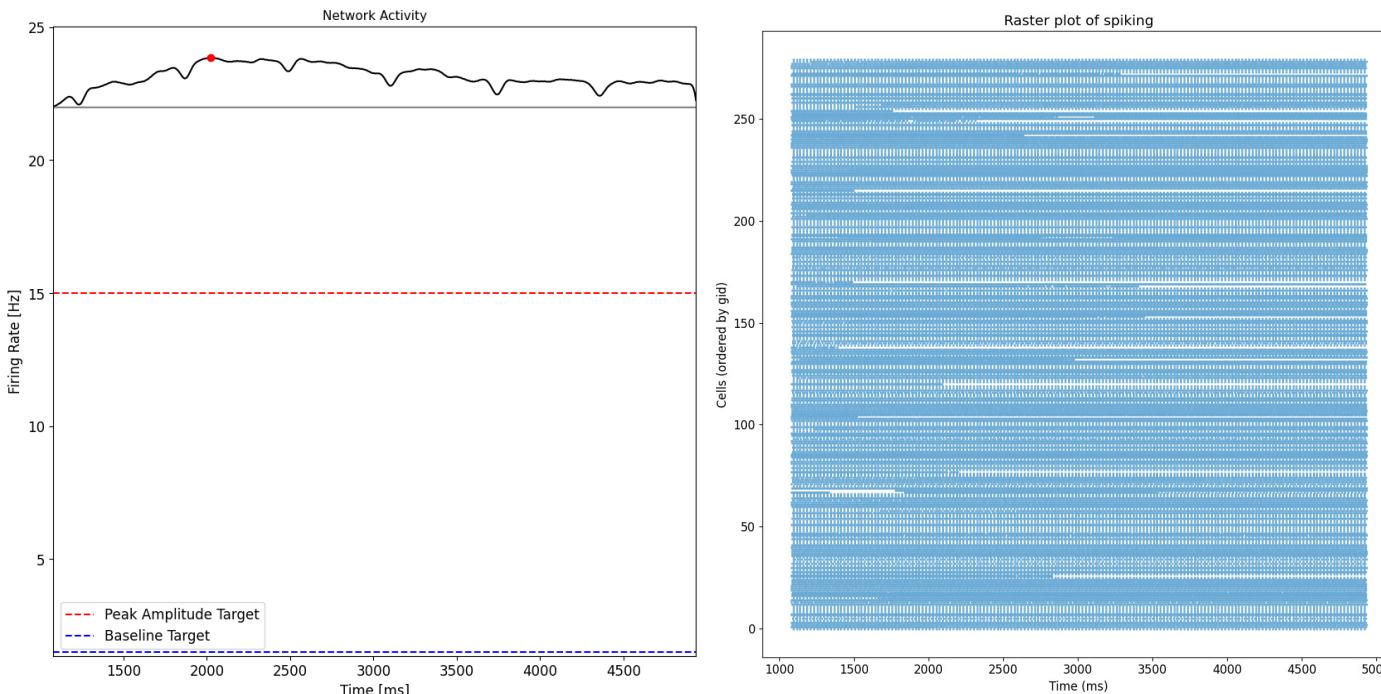
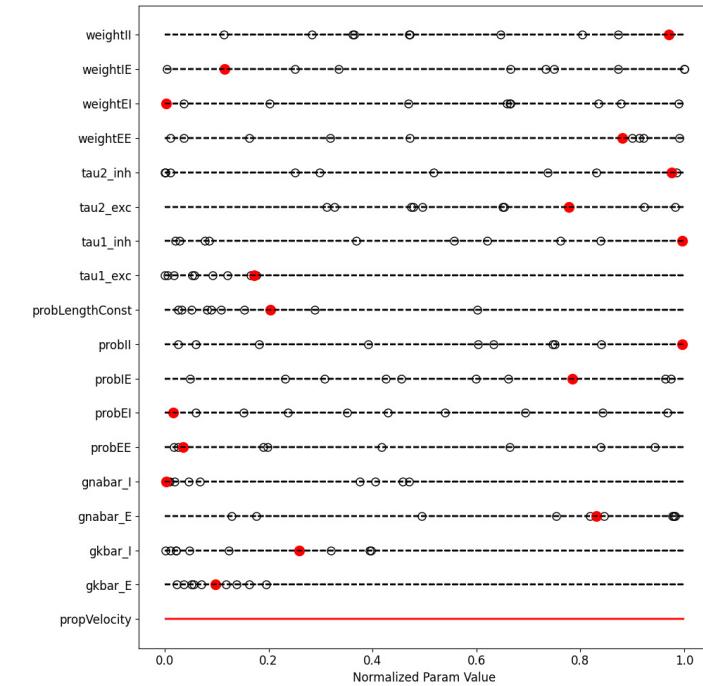
```

```

burstAmp_Fitness: {'Value': 1.856764504452375, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2026342451874367, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 23.140628513552105, 'Fit': 1000}
slopeFitness: {'Value': -0.00046577092586930896, 'Fit': 1.0009319758716082}
thresh: {'Value': 21.98057510690269, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 77.09580838323353, 'Fit': 97.59617707645505}
E_rate_fitness: {'Value': 61.93650793650793, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 788.7330121169252
average_scaled_fitness: 788.5213363602736

```

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}

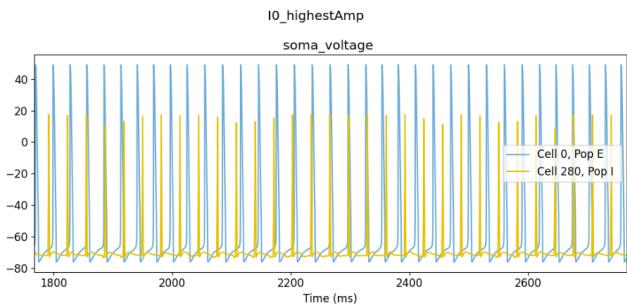
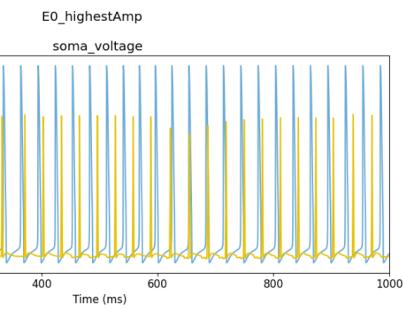
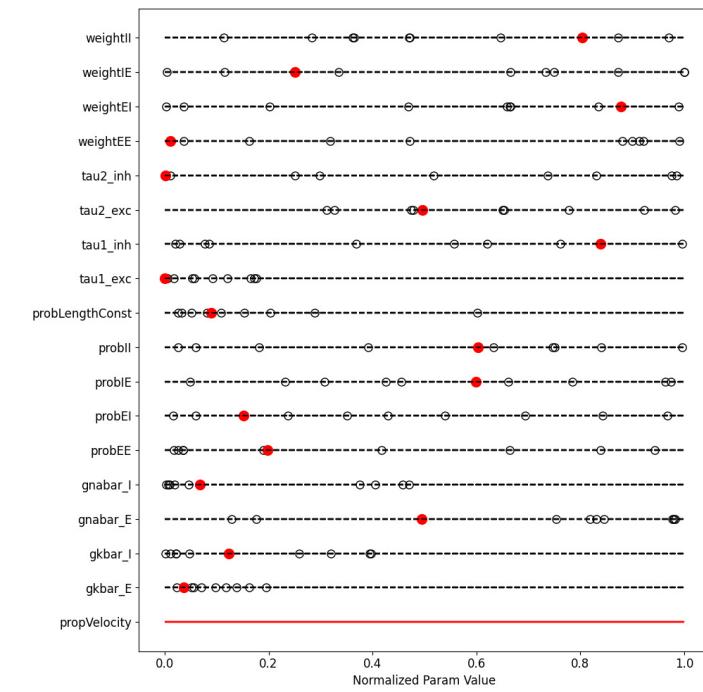
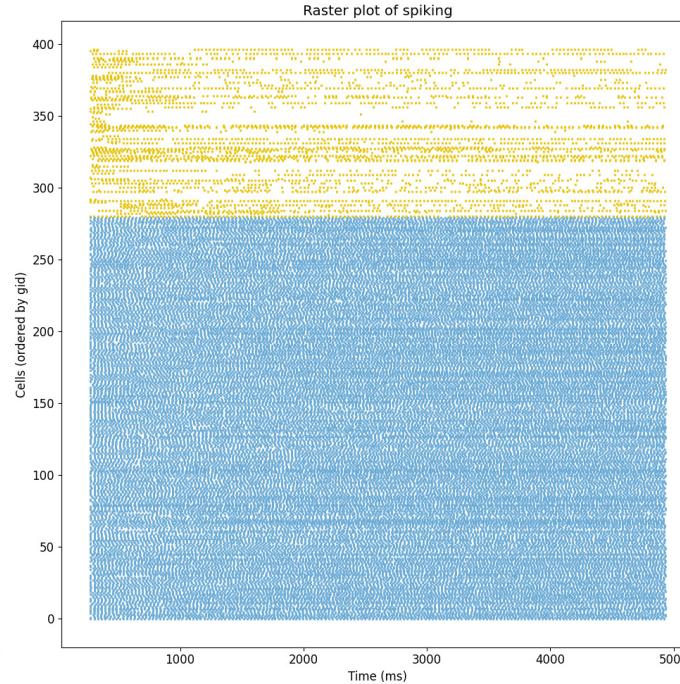
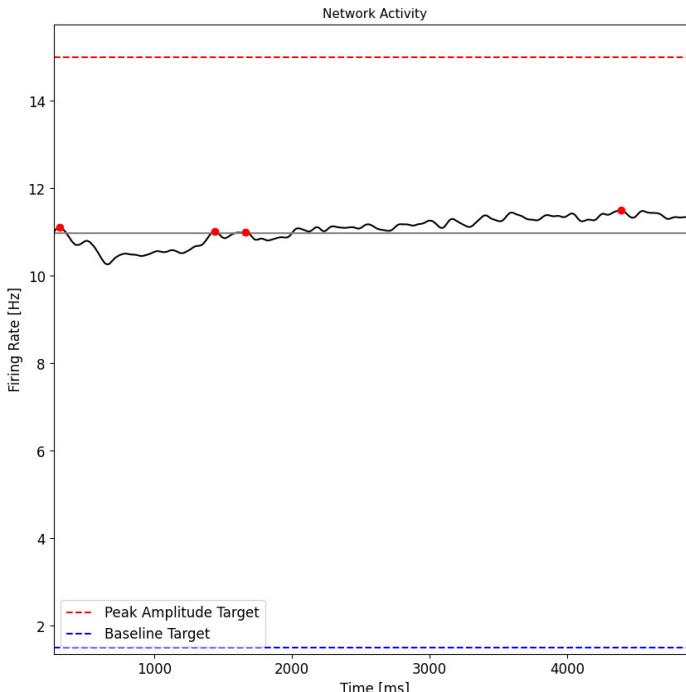
```

```

burstAmp_Fitness: {'Value': 0.1773737163593725, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.8105369807497468, 'Fit': 17.517876686985367}
IBI_fitness: {'Value': 1357.5, 'Fit': 2.5690839255893305}
baseline_fitness: {'Value': 11.053458129700422, 'Fit': 1000}
slopeFitness: {'Value': 0.0015143237576677399, 'Fit': 1.0030332385018783}
thresh: {'Value': 10.974156960456758, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.26347305389223, 'Fit': 3.8470452619577853}
E_rate_fitness: {'Value': 33.273809523809526, 'Fit': 1000}
I_rate_fitness: {'Value': 10.092592592592593, 'Fit': 7.320954683708368}
maxFitness: 1000
average_fitness: 448.0286659774158
average_scaled_fitness: 447.4744645001885

```

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}

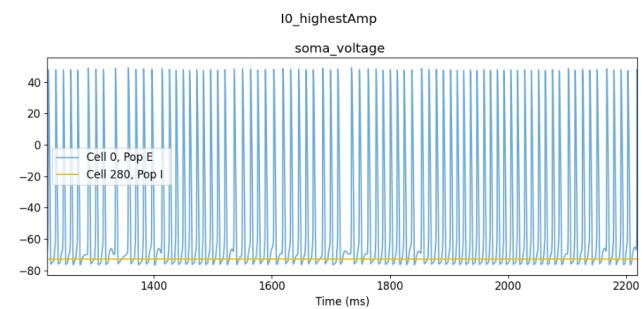
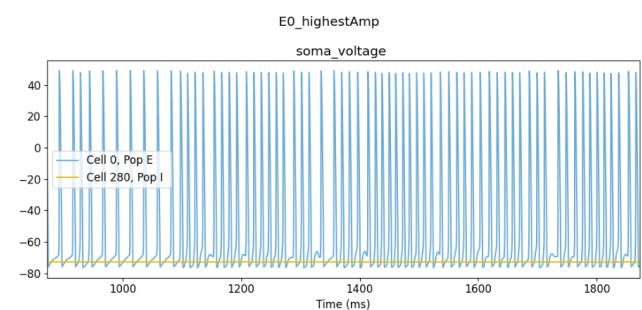
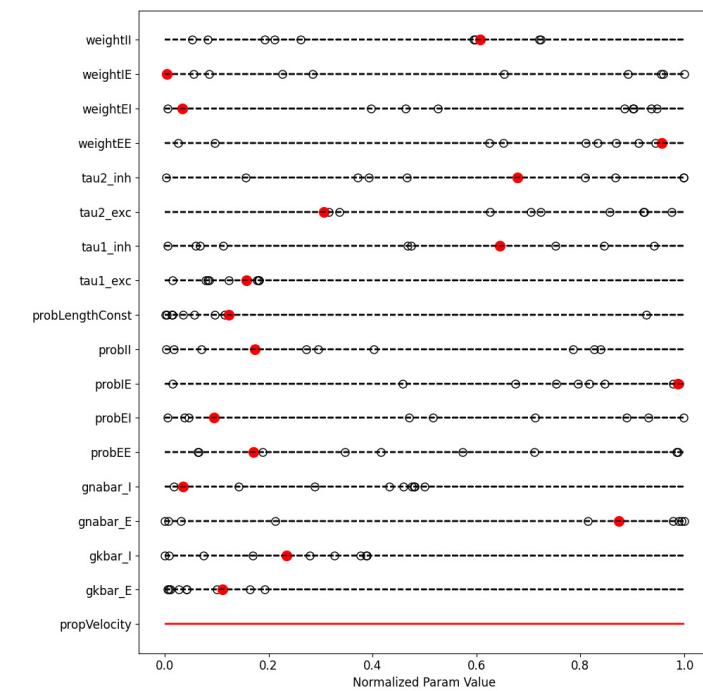
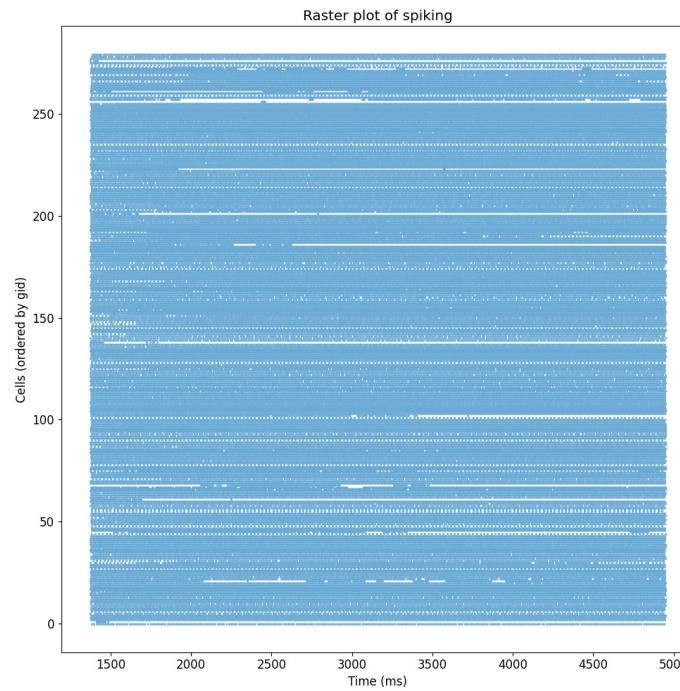
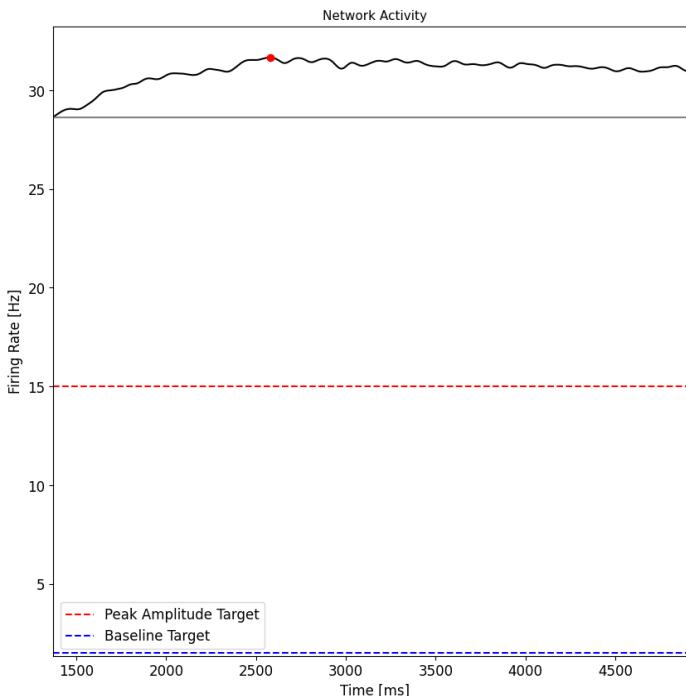
```

```

burstAmp_Fitness: {'Value': 3.030821781052449, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20202020202020202, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 30.988090984188727, 'Fit': 1000}
slopeFitness: {'Value': 0.002474731359367822, 'Fit': 1.004961731542348}
thresh: {'Value': 28.623392968537146, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 71.55688622754491, 'Fit': 1000}
E_rate_fitness: {'Value': 67.89285714285714, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 889.0005513035046
average_scaled_fitness: 888.8888888888889

```

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}

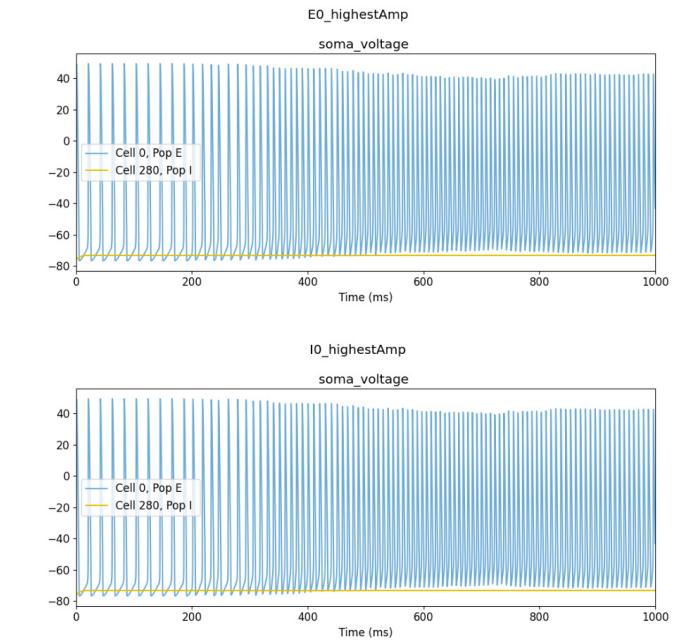
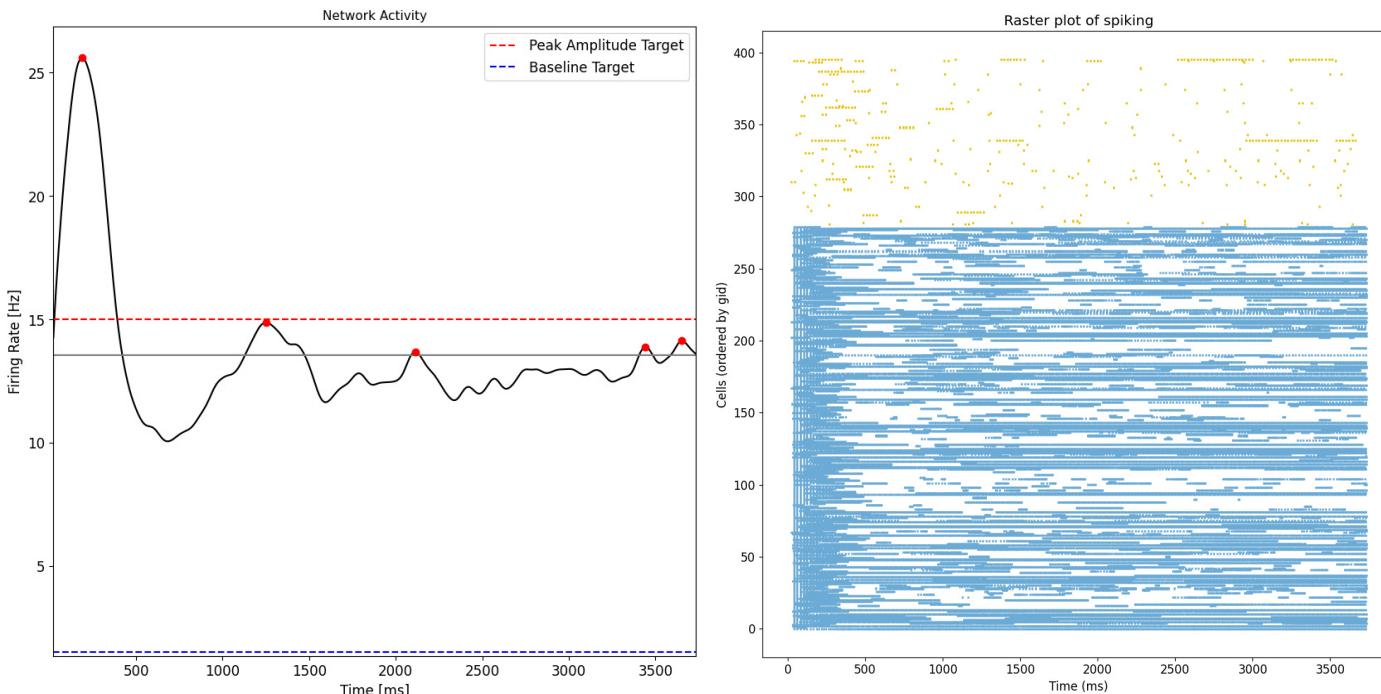
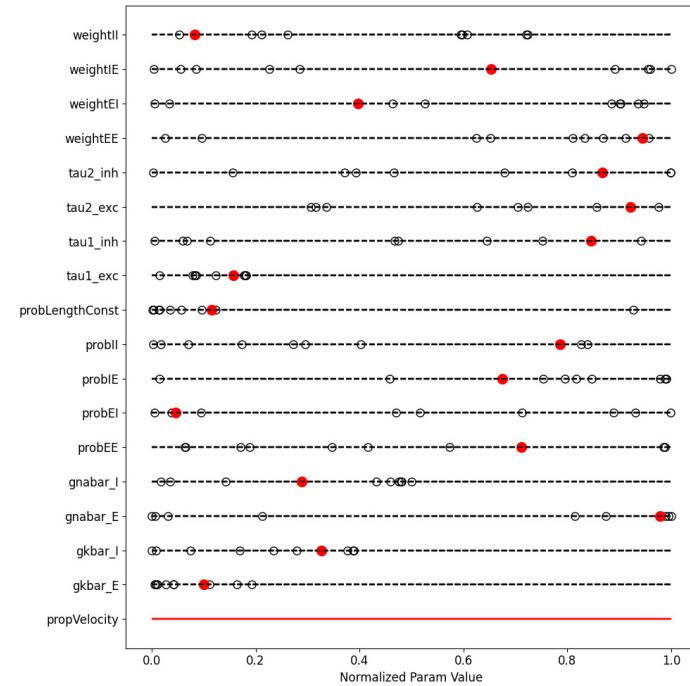
```

```

burstAmp_Fitness: {'Value': 2.8817764447911522, 'Fit': 800.8756987904328}
burst_peak_frequency_fitness: {'Value': 1.3386880856760375, 'Fit': 416.6008270473697}
IBI_fitness: {'Value': 866.25, 'Fit': 2.971441706769109}
baseline_fitness: {'Value': 13.529378405230277, 'Fit': 1000}
slopeFitness: {'Value': -0.0074240542193892865, 'Fit': 1.0149588892167856}
thresh: {'Value': 13.542099595522973, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 74.25149700598801, 'Fit': 1000}
E_rate_fitness: {'Value': 52.96825396825397, 'Fit': 1000}
I_rate_fitness: {'Value': 1.5925925925925926, 'Fit': 1000}
maxFitness: 1000
average_fitness: 691.2736584926432
average_scaled_fitness: 690.9599955930466

```

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}

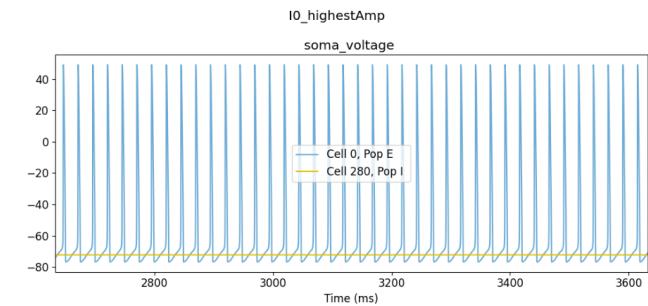
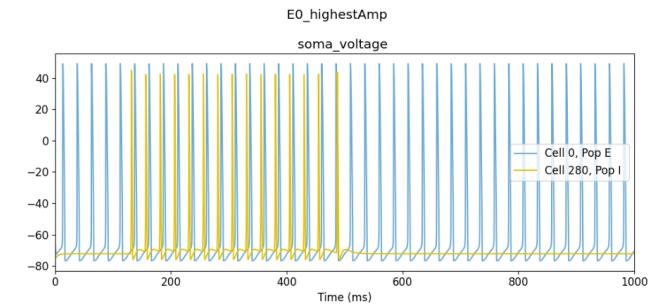
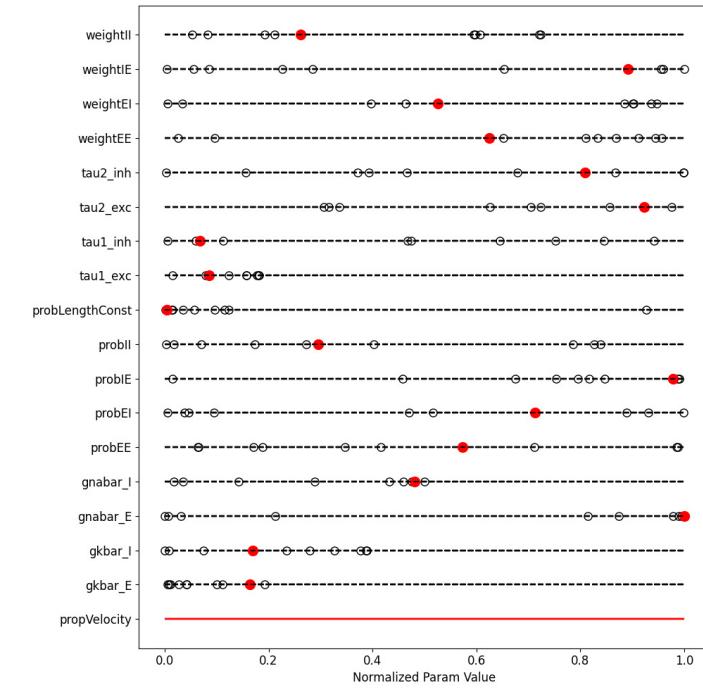
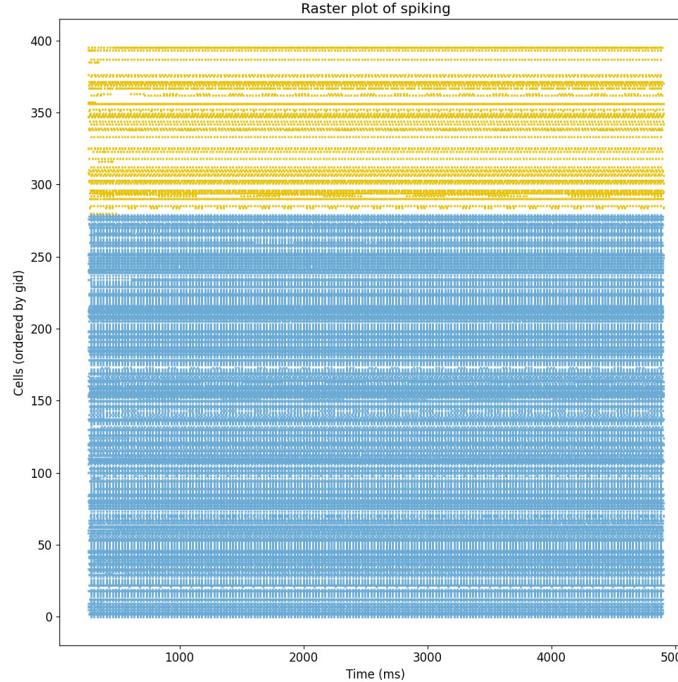
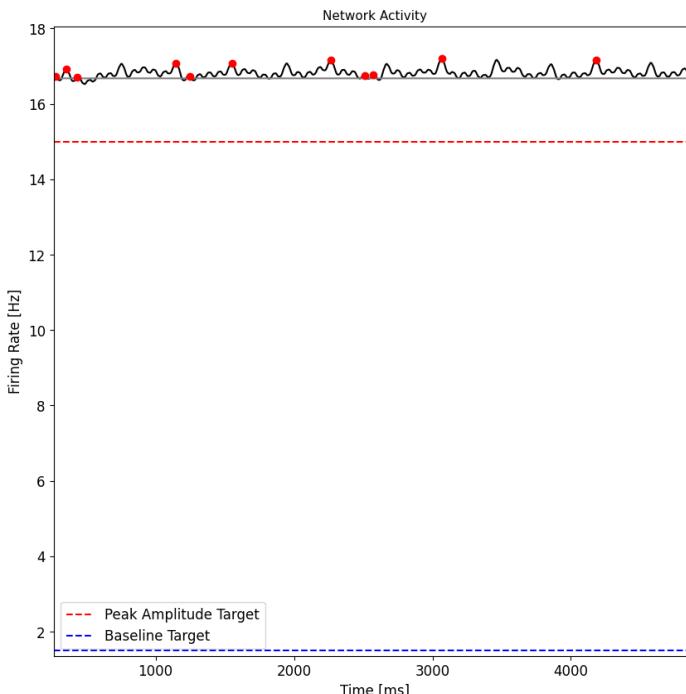
```

```

burstAmp_Fitness: {'Value': 0.25764830333944194, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.2426095820591234, 'Fit': 1000}
IBI_fitness: {'Value': 390.75, 'Fit': 3.7377305796520117}
baseline_fitness: {'Value': 16.821605956495876, 'Fit': 1000}
slopeFitness: {'Value': 0.0001316068494858475, 'Fit': 1.000263248342737}
thresh: {'Value': 16.677179947488924, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.09309309309309, 'Fit': 3.980396276825189}
E_rate_fitness: {'Value': 52.90873015873015, 'Fit': 1000}
I_rate_fitness: {'Value': 14.944444444444443, 'Fit': 4.506656633075042}
maxFitness: 1000
average_fitness: 557.0250051930993
average_scaled_fitness: 556.58146993384

```

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}

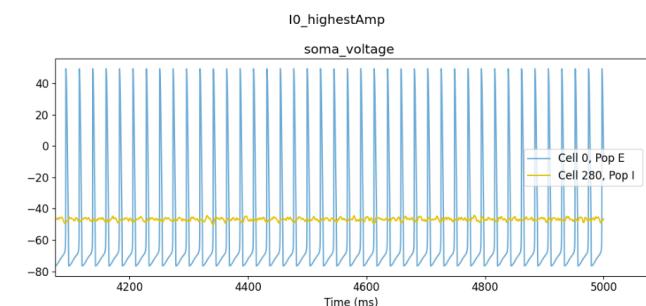
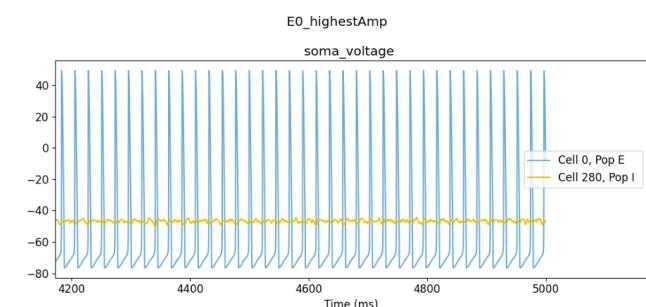
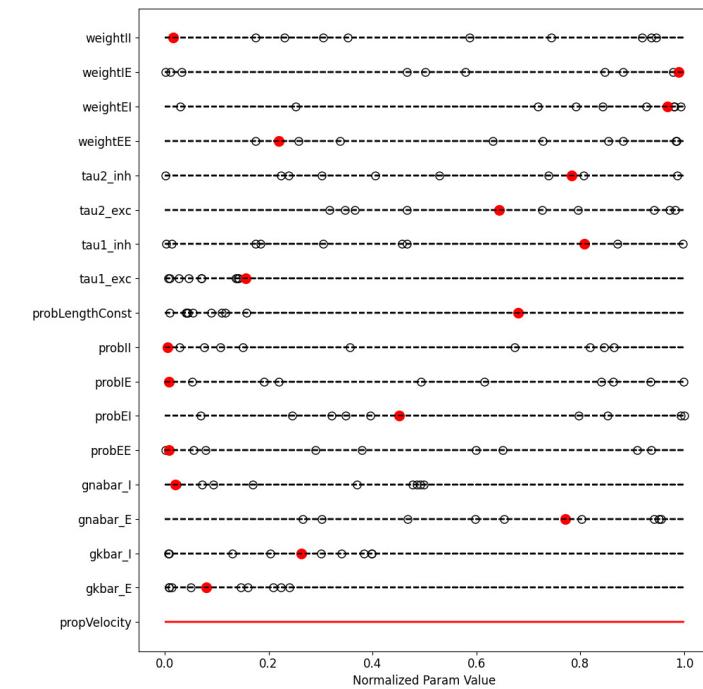
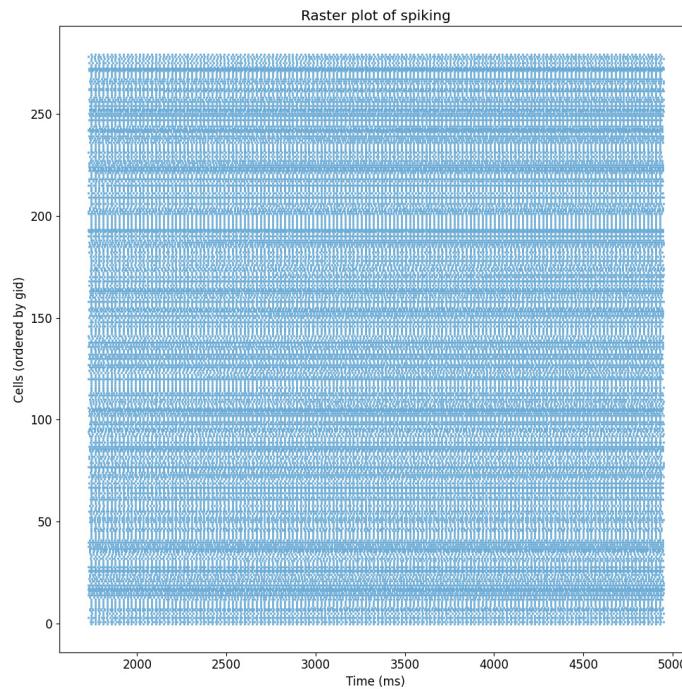
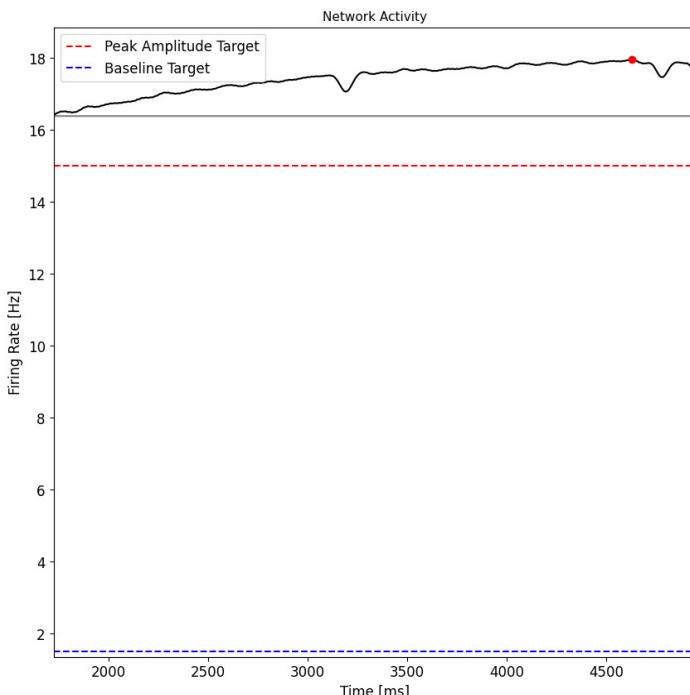
```

```

burstAmp_Fitness: {'Value': 1.568248237487122, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20202020202020202, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 17.42255548272841, 'Fit': 1000}
slopeFitness: {'Value': 0.0030610853397688748, 'Fit': 1.0061409494692117}
thresh: {'Value': 16.382540103664915, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 64.52095808383234, 'Fit': 1000}
E_rate_fitness: {'Value': 48.297619047619044, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 889.0006823277188
average_scaled_fitness: 888.8888888888889

```

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}

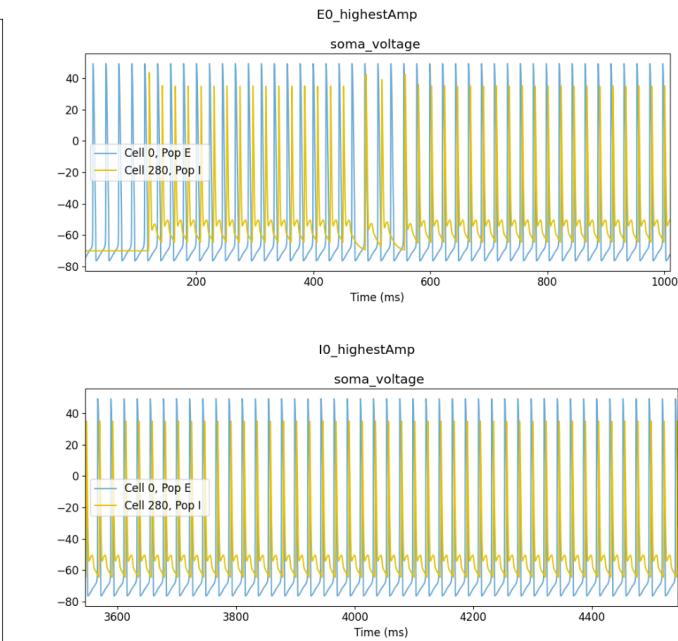
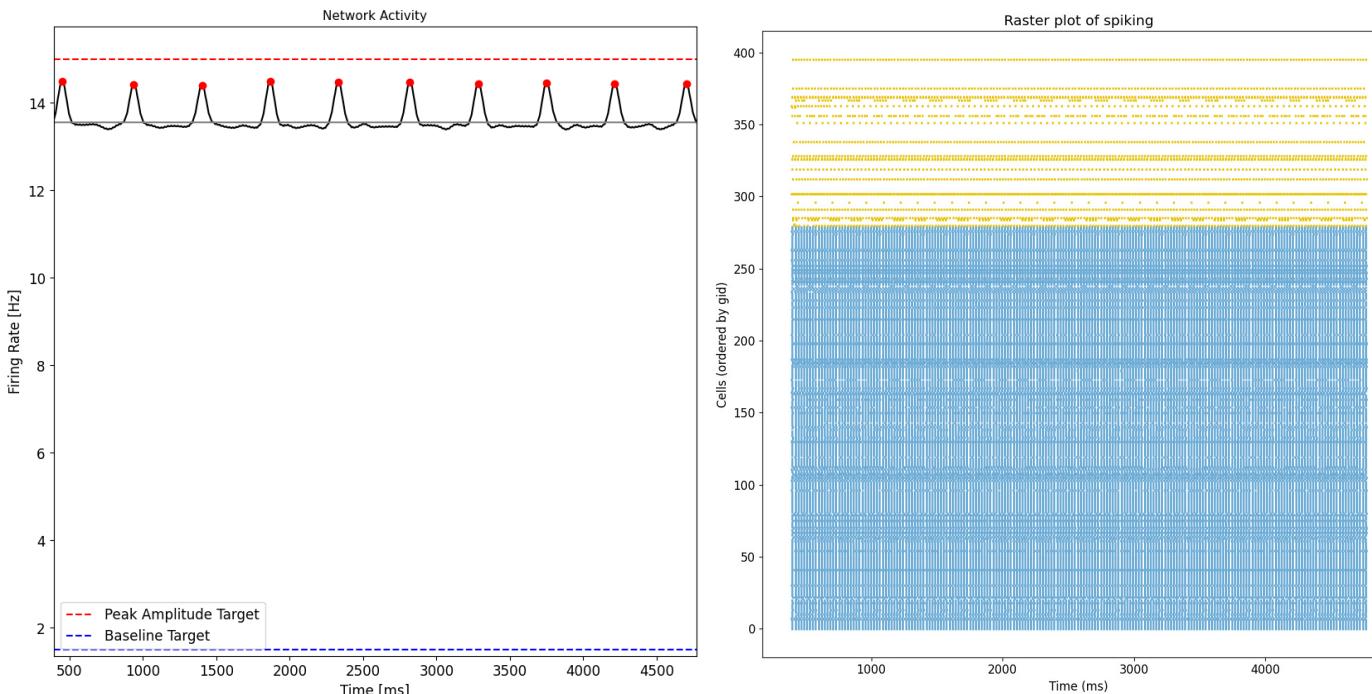
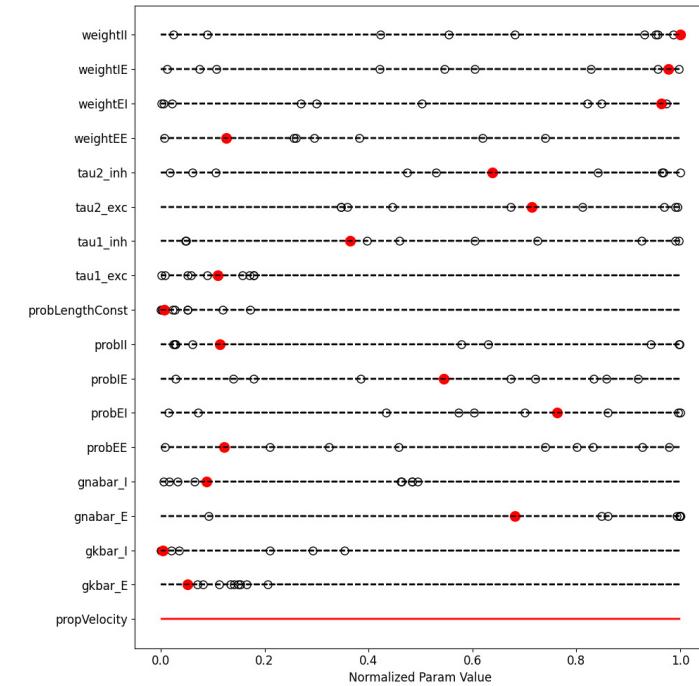
```

```

burstAmp_Fitness: {'Value': 0.8995042118104057, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 2.0964360587002098, 'Fit': 1000}
IBI_fitness: {'Value': 472.5, 'Fit': 3.538716337548243}
baseline_fitness: {'Value': 13.631111740889061, 'Fit': 1000}
slopeFitness: {'Value': -2.301055600403686e-05, 'Fit': 1.0000460221709957}
thresh: {'Value': 13.55300519990878, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 87.57485029940119, 'Fit': 12.001479575187918}
E_rate_fitness: {'Value': 46.37301587301587, 'Fit': 1000}
I_rate_fitness: {'Value': 6.157407407407407, 'Fit': 10.851021893229602}
maxFitness: 1000
average_fitness: 558.5990293142373
average_scaled_fitness: 558.1571661458167

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

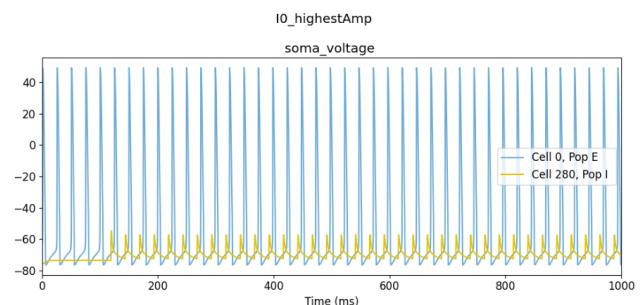
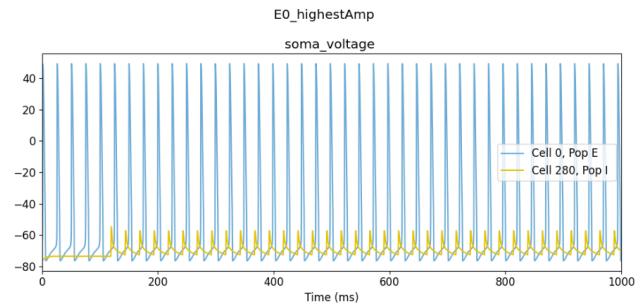
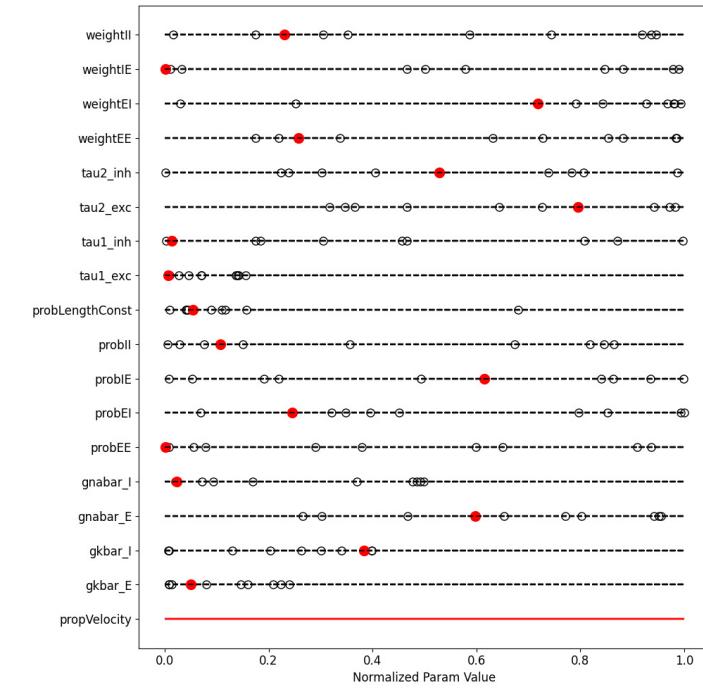
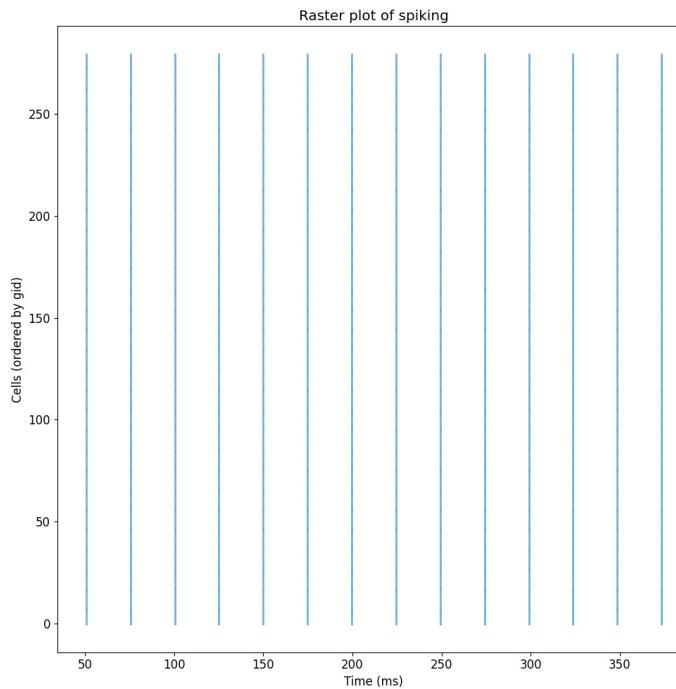
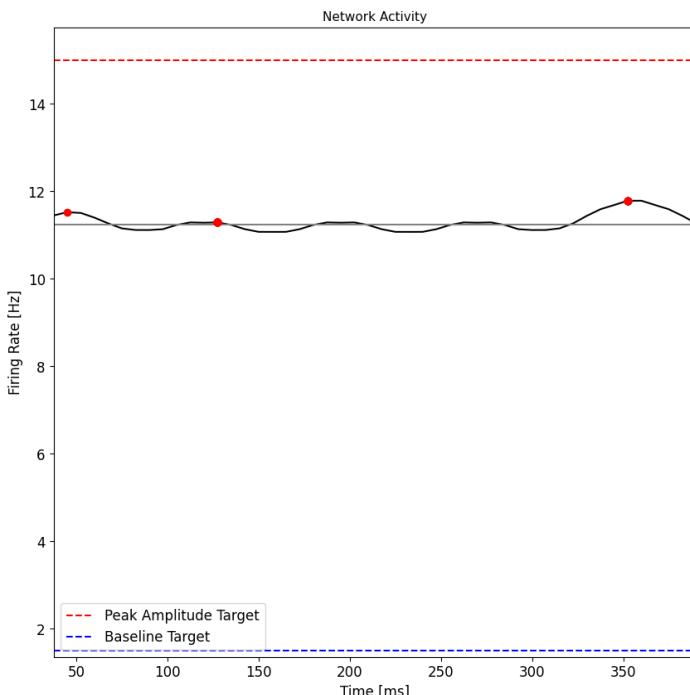


Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_11/gen_11_cand_47_data.json
SimLabel: gen_11_cand_47
Generation Rank: 0/10

```
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': 0.176443764328128, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 156.4102564102564, 'Fit': 1000}
IBI_fitness: {'Value': 5.125, 'Fit': 4.483025465354538}
baseline_fitness: {'Value': 11.283987742386051, 'Fit': 1000}
slopeFitness: {'Value': 0.004745307824561223, 'Fit': 1.009535794353286}
thresh: {'Value': 11.229662062488586, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 7.19640179910045, 'Fit': 1000}
E_rate_fitness: {'Value': 41.11111111111111, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 778.3880623621897
average_scaled_fitness: 778.1641110918649
```

```
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}

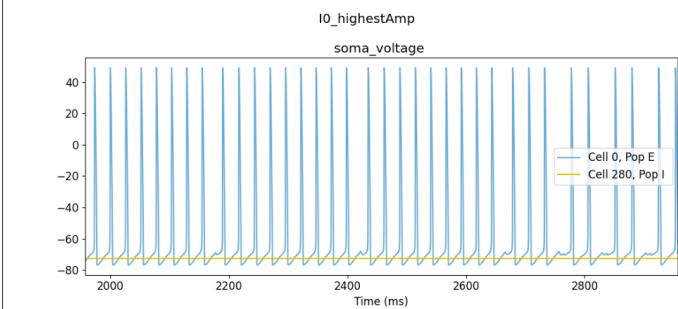
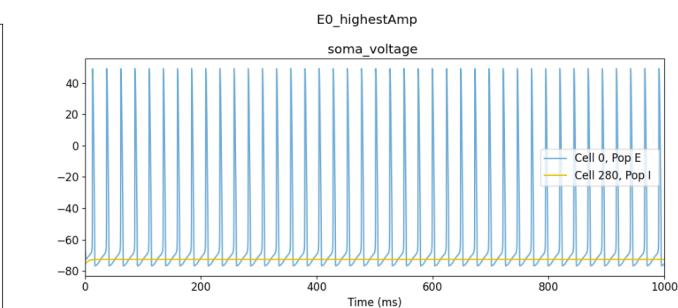
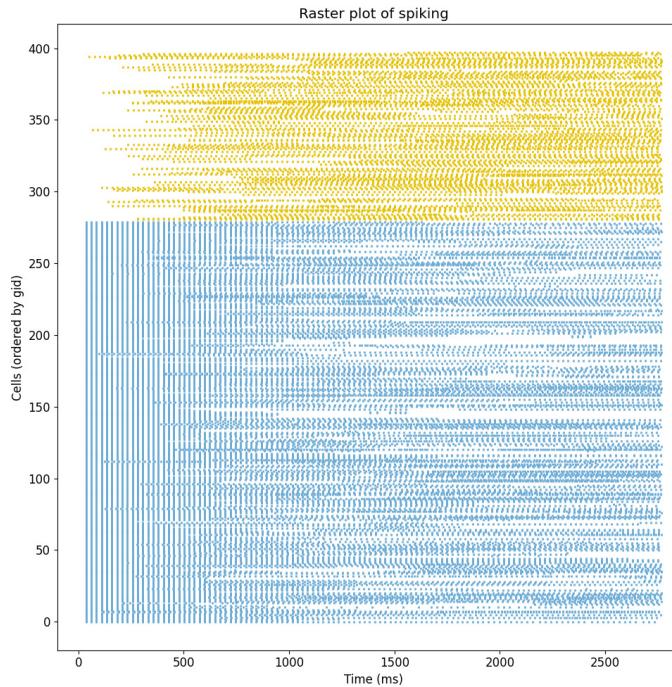
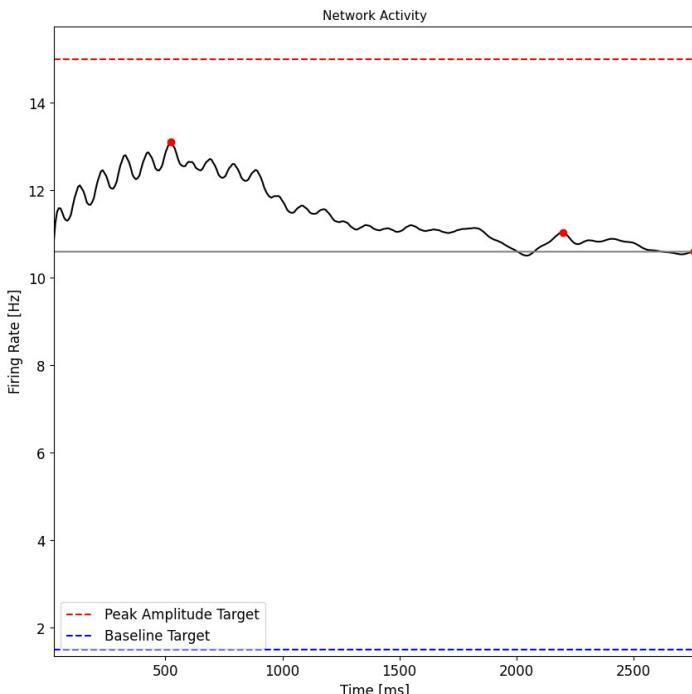
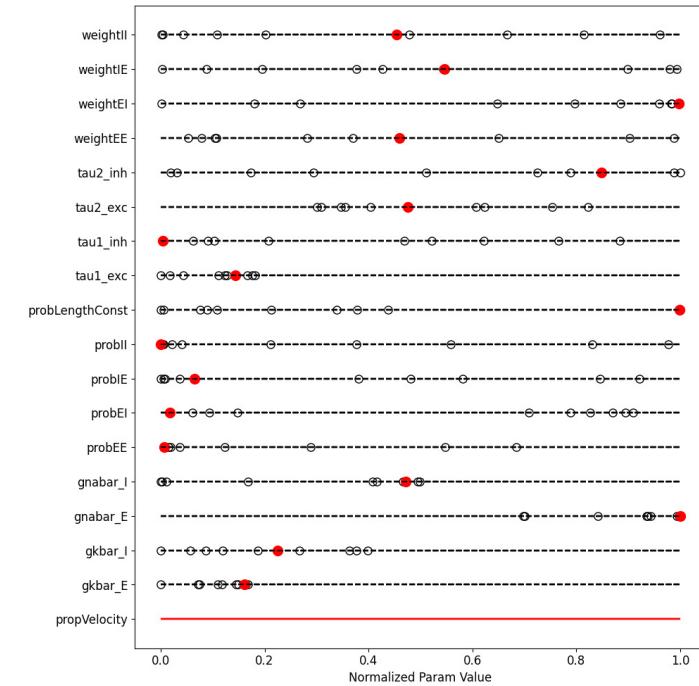
```

```

burstAmp_Fitness: {'Value': 0.9818514689226104, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 1.084010840108401, 'Fit': 90.38379935384364}
IBI_fitness: {'Value': 1117.5, 'Fit': 2.662508910389037}
baseline_fitness: {'Value': 11.450055600254803, 'Fit': 1000}
slopeFitness: {'Value': -0.00576795468606253, 'Fit': 1.0116027045753455}
thresh: {'Value': 10.596306006638395, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 55.1051051051051, 'Fit': 1000}
E_rate_fitness: {'Value': 37.48412698412699, 'Fit': 1000}
I_rate_fitness: {'Value': 16.14814814814815, 'Fit': 3.9955657558942135}
maxFitness: 1000
average_fitness: 566.4503863027446
average_scaled_fitness: 566.0113622230145

```

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}

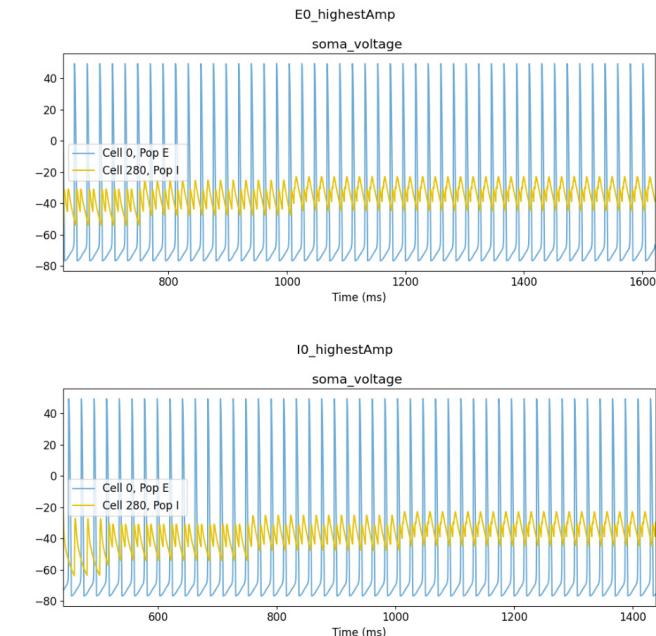
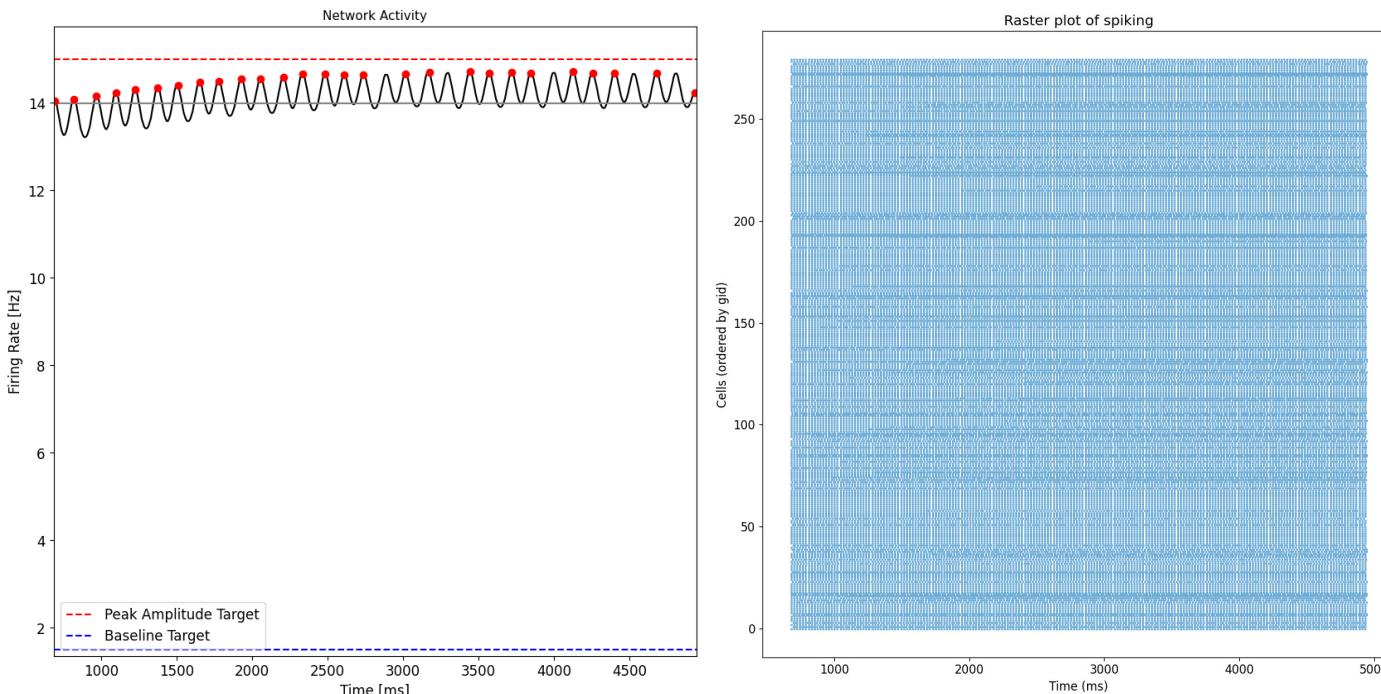
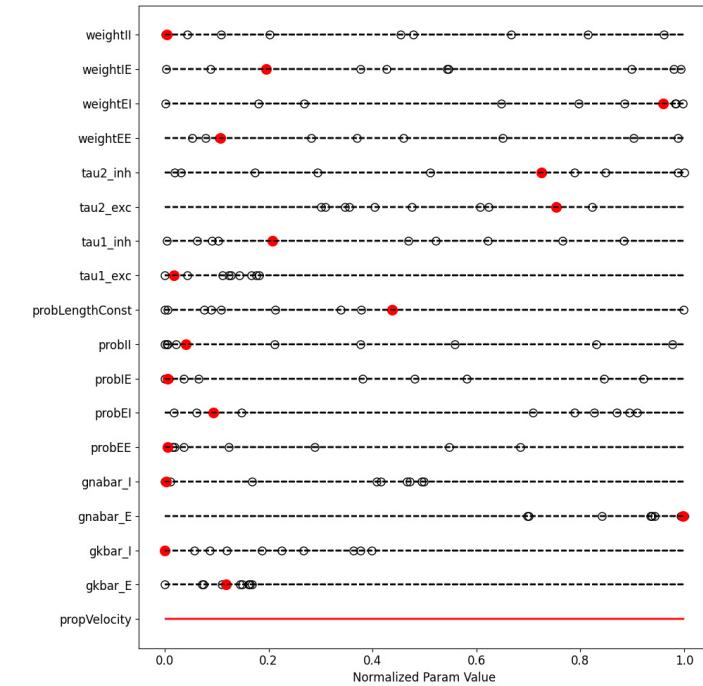
```

```

burstAmp_Fitness: {'Value': 0.5267461004731686, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 5.462822458270106, 'Fit': 1000}
IBI_fitness: {'Value': 163.26923076923077, 'Fit': 4.131839268604738}
baseline_fitness: {'Value': 14.151759682861409, 'Fit': 1000}
slopeFitness: {'Value': 0.000999429873272484, 'Fit': 1.0020008587984077}
thresh: {'Value': 13.98923195758951, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 85.17964071856288, 'Fit': 19.376710520807436}
E_rate_fitness: {'Value': 47.90079365079365, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 669.3900611831345
average_scaled_fitness: 669.0584574733107

```

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}

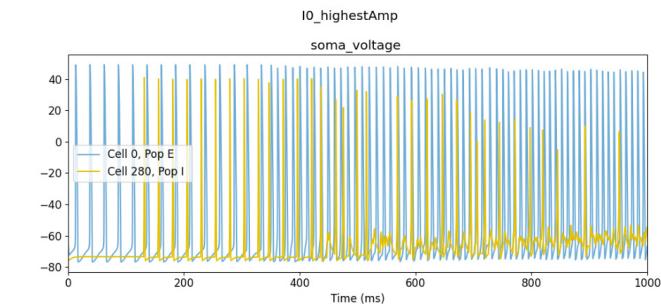
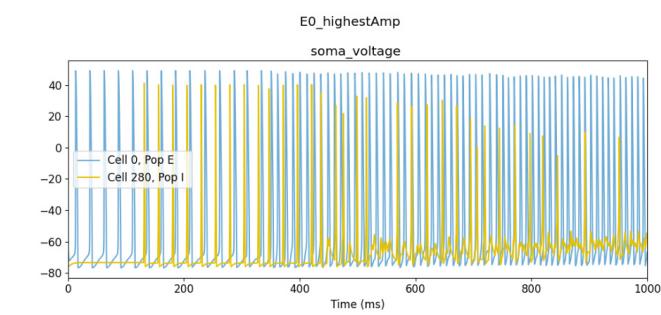
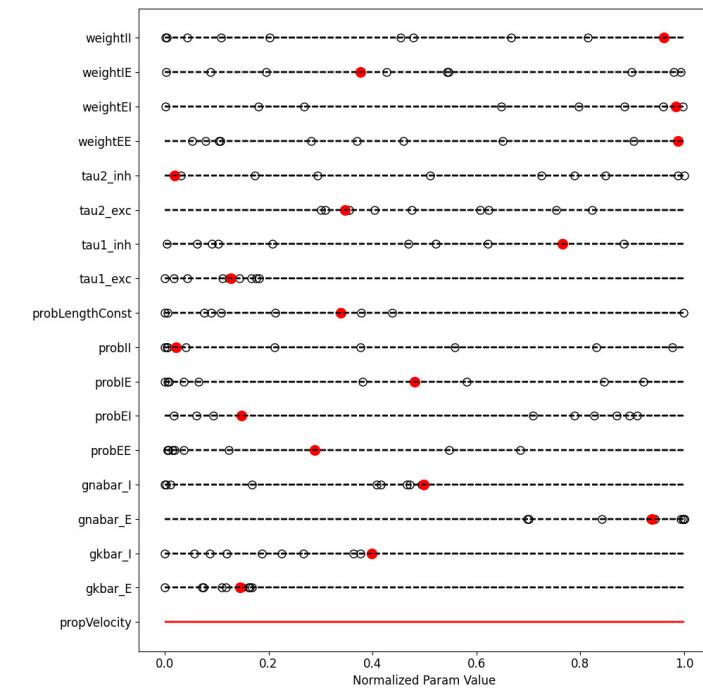
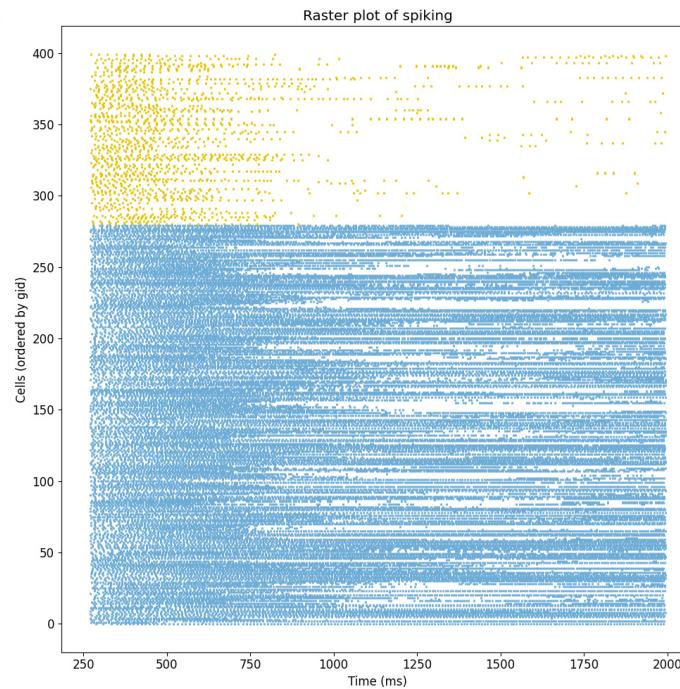
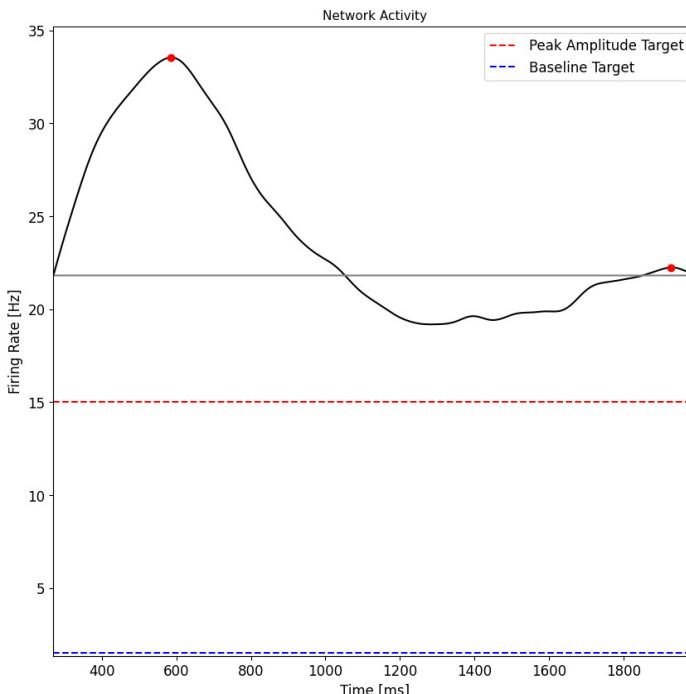
```

```

burstAmp_Fitness: {'Value': 6.077000819308184, 'Fit': 502.57469707067963}
burst_peak_frequency_fitness: {'Value': 1.0025062656641603, 'Fit': 55.425379024193404}
IBI_fitness: {'Value': 1342.5, 'Fit': 2.2904538827478285}
baseline_fitness: {'Value': 23.931999093019925, 'Fit': 1000}
slopeFitness: {'Value': -0.05137806080094075, 'Fit': 1.1082211049288446}
thresh: {'Value': 21.81131227514885, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 34.68468468468468, 'Fit': 1000}
E_rate_fitness: {'Value': 86.74603174603175, 'Fit': 1000}
I_rate_fitness: {'Value': 16.675925925925924, 'Fit': 3.7901568649527113}
maxFitness: 1000
average_fitness: 507.24321199416704
average_scaled_fitness: 506.6965226694544

```

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}

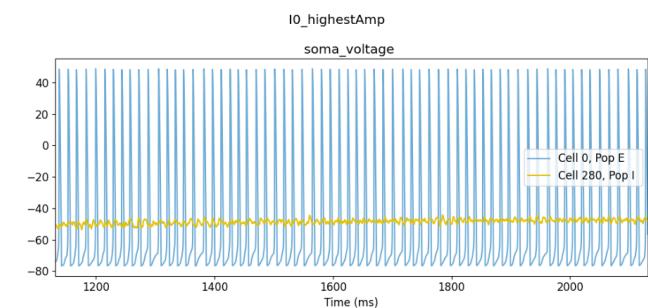
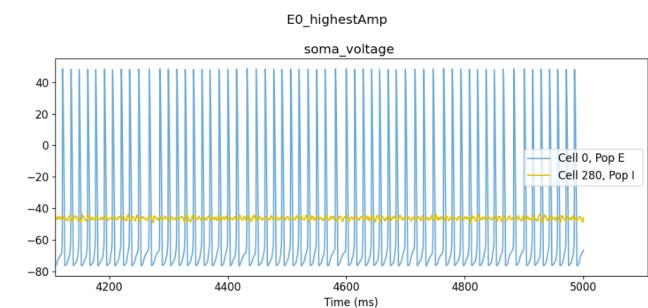
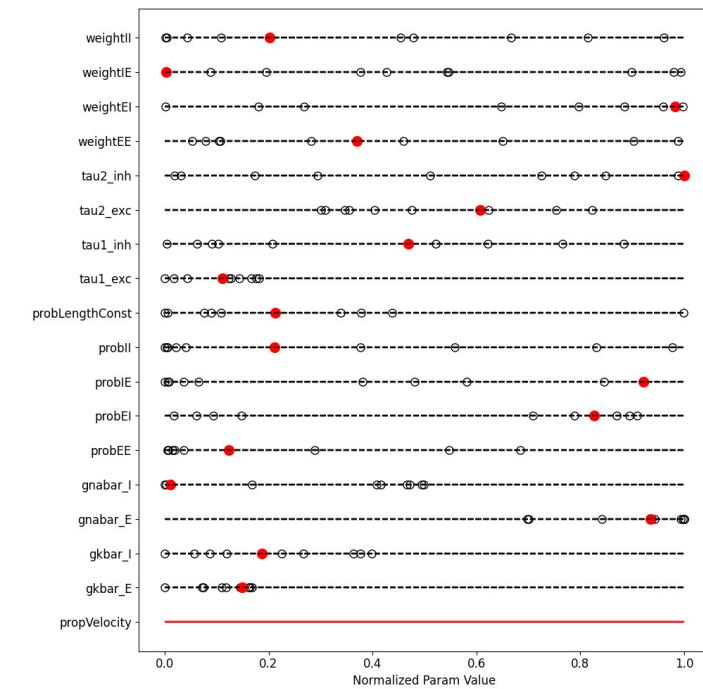
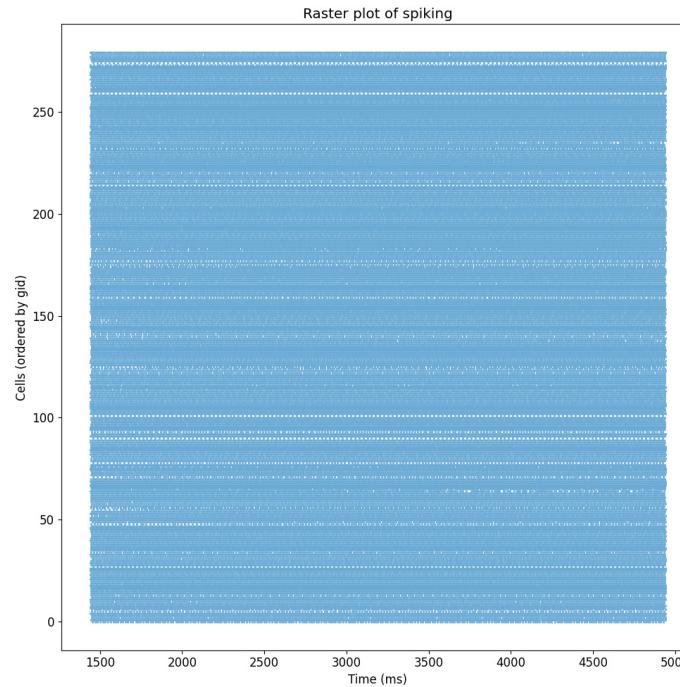
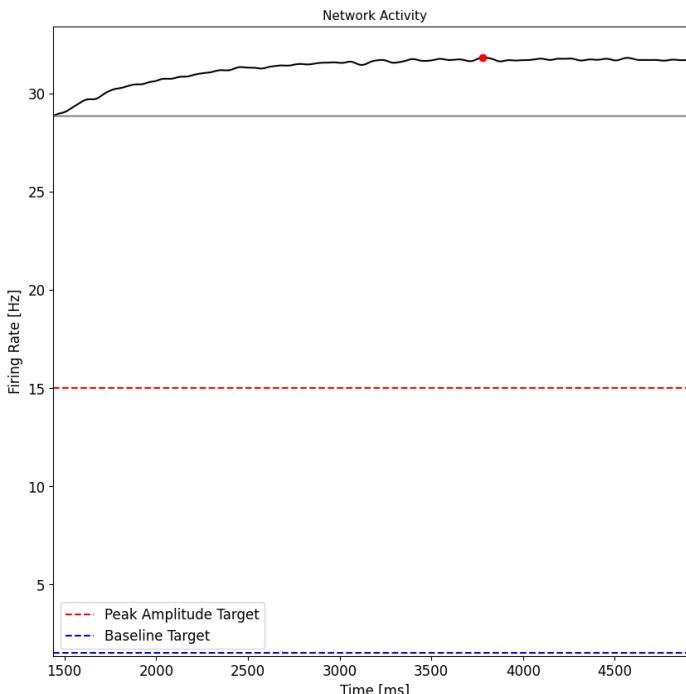
```

```

burstAmp_Fitness: {'Value': 2.9793936906030254, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20232675771370764, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 31.254327283971797, 'Fit': 1000}
slopeFitness: {'Value': 0.0039432005070376116, 'Fit': 1.007917580585525}
thresh: {'Value': 28.84300218700011, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 70.27027027027027, 'Fit': 1000}
E_rate_fitness: {'Value': 69.11904761904762, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 889.0008797311762
average_scaled_fitness: 888.8888888888889

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



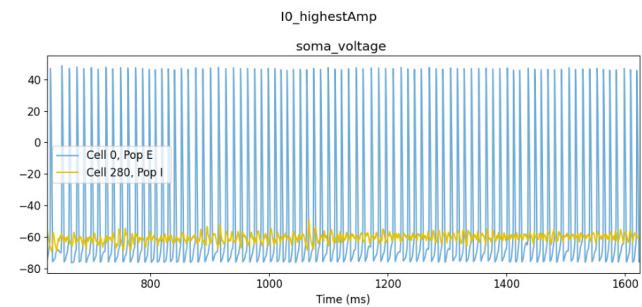
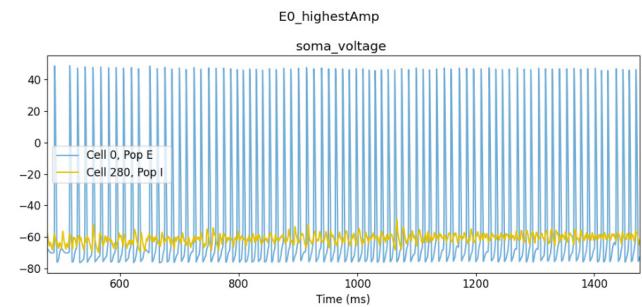
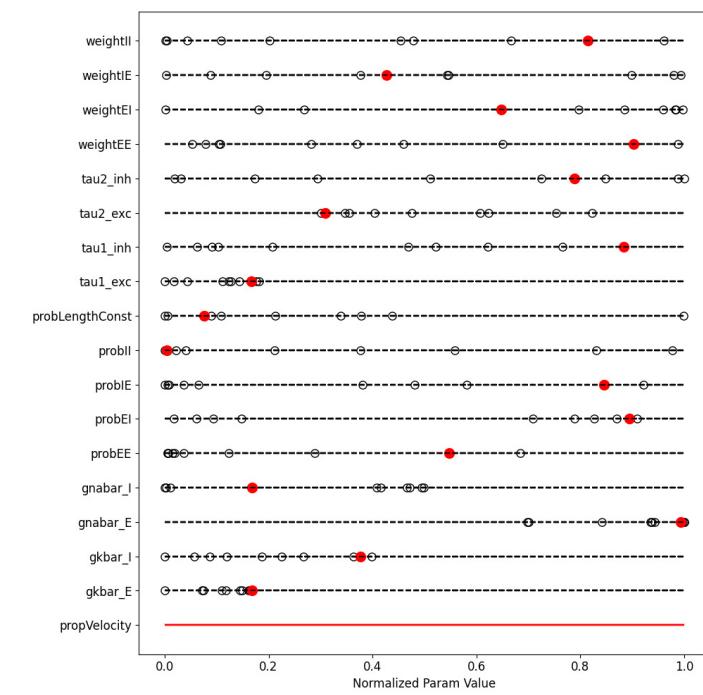
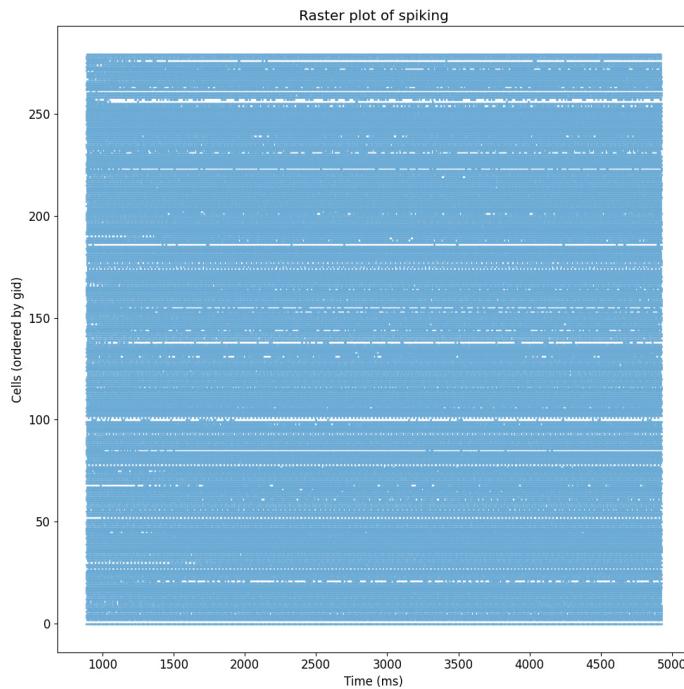
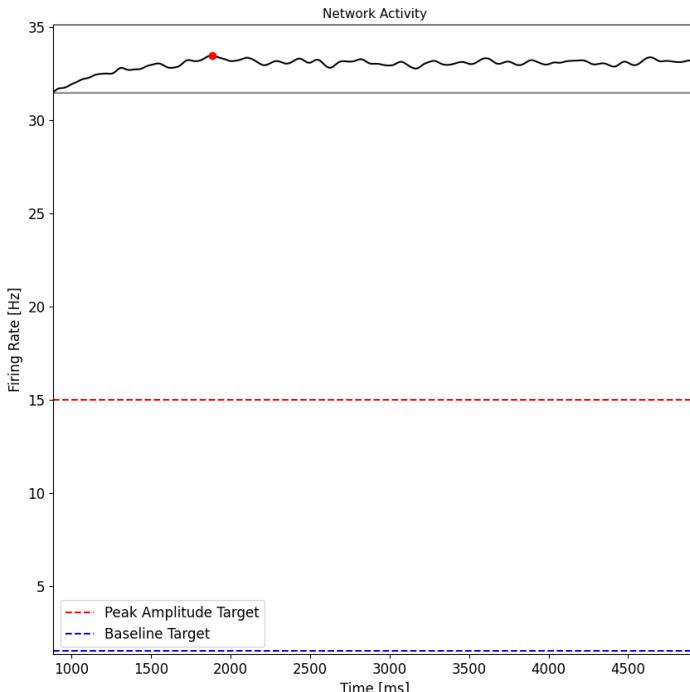
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rate_targets: {'E': {'target': 7.5, 'width': 2.5, 'min': 1}, 'I': {'target': 30, 'width': 10, 'min': 2}}
bursts_peak_targets: {'target': 15, 'width': 2, 'min': 8}
IBI_targets: {'target': 3000, 'width': 2000, 'max': 4000}
baseline_targets: {'target': 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': 2.007342273467142, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20294266869609334, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 32.97494590183263, 'Fit': 1000}
slopeFitness: {'Value': 0.001037952973796909, 'Fit': 1.0020780621320995}
thresh: {'Value': 31.44971501426161, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 81.08108108108108, 'Fit': 43.98214621730811}
E_rate_fitness: {'Value': 87.17063492063491, 'Fit': 1000}
I_rate_fitness: {'Value': 4.768518518518519, 'Fit': 12.467785380725646}
maxFitness: 1000
average_fitness: 673.0502232955739
average_scaled_fitness: 672.7222654575648

```

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}

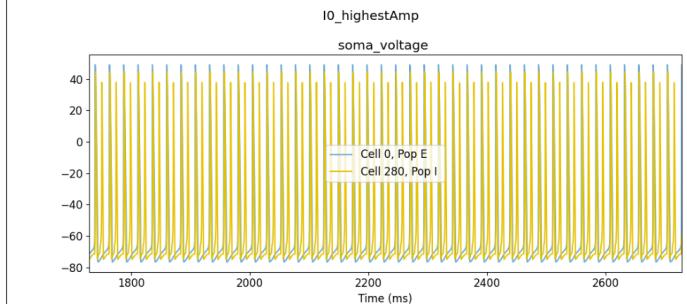
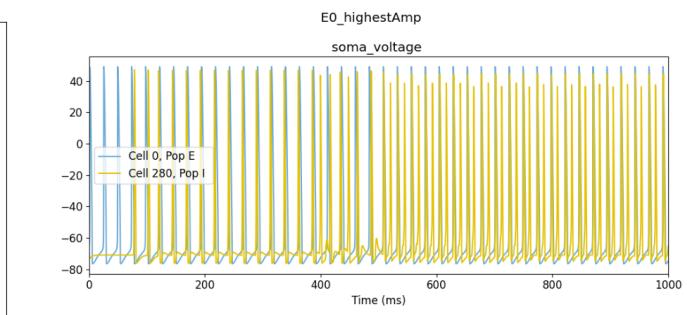
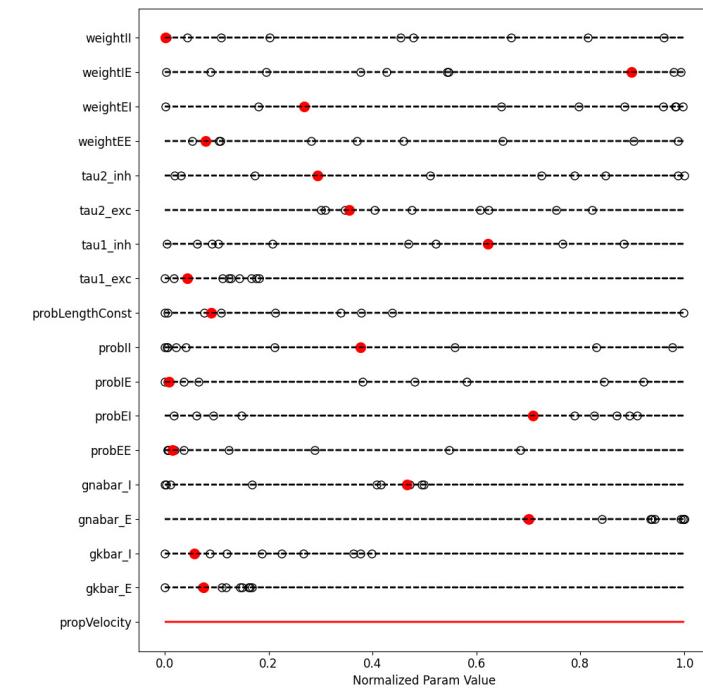
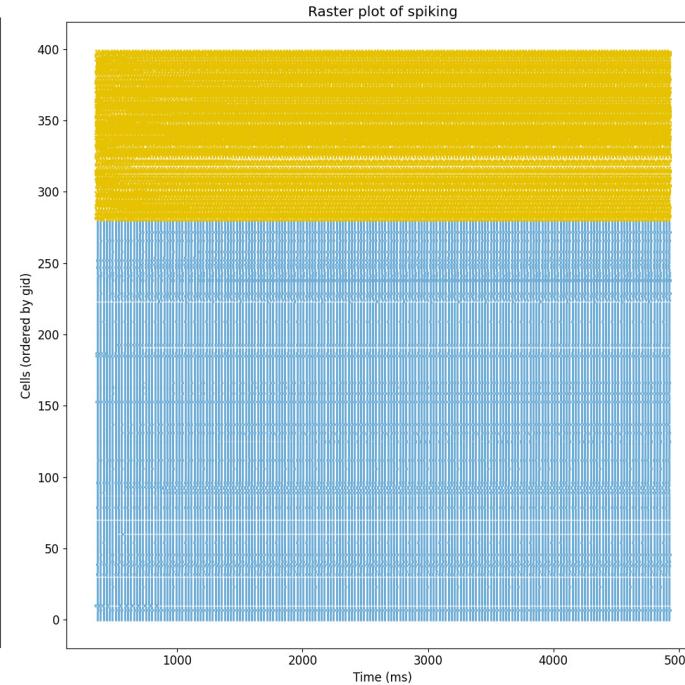
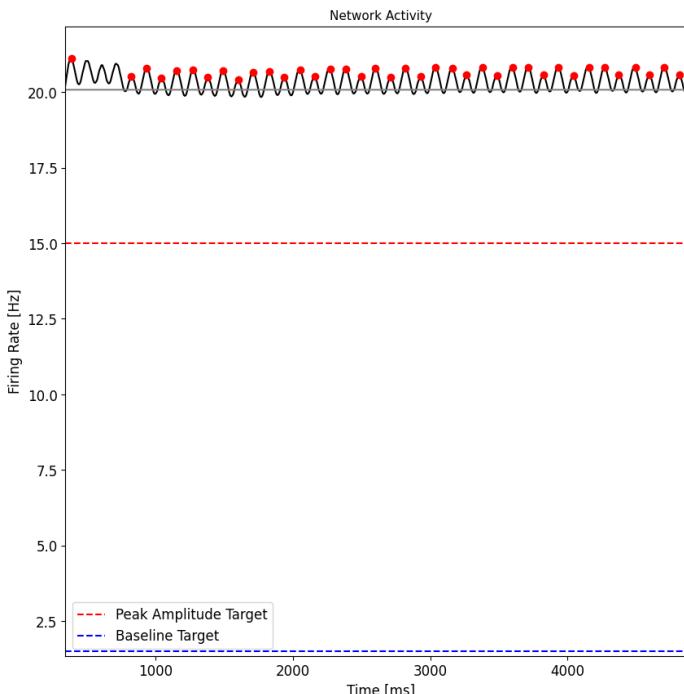
```

```

burstAmp_Fitness: {'Value': 0.602993771126064, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 7.902735562310031, 'Fit': 1000}
IBI_fitness: {'Value': 119.01315789473684, 'Fit': 4.224154572374359}
baseline_fitness: {'Value': 20.35181905445708, 'Fit': 1000}
slopeFitness: {'Value': -7.266573038651673e-05, 'Fit': 1.0001453420219013}
thresh: {'Value': 20.074968842494833, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 91.76646706586826, 'Fit': 5.189859299183215}
E_rate_fitness: {'Value': 40.4484126984127, 'Fit': 1000}
I_rate_fitness: {'Value': 70.78703703703704, 'Fit': 59.06884946846082}
maxFitness: 1000
average_fitness: 563.2758898535601
average_scaled_fitness: 562.8386649806283

```

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}

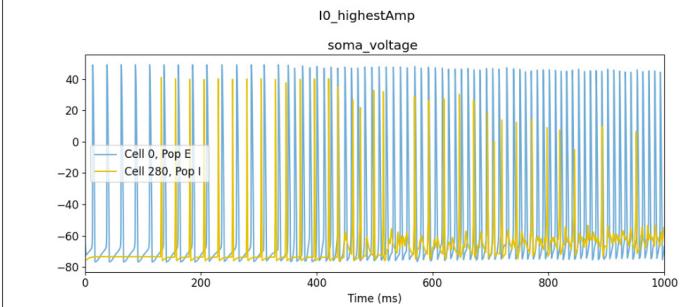
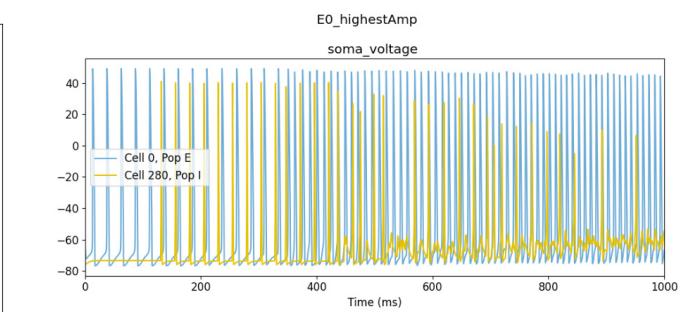
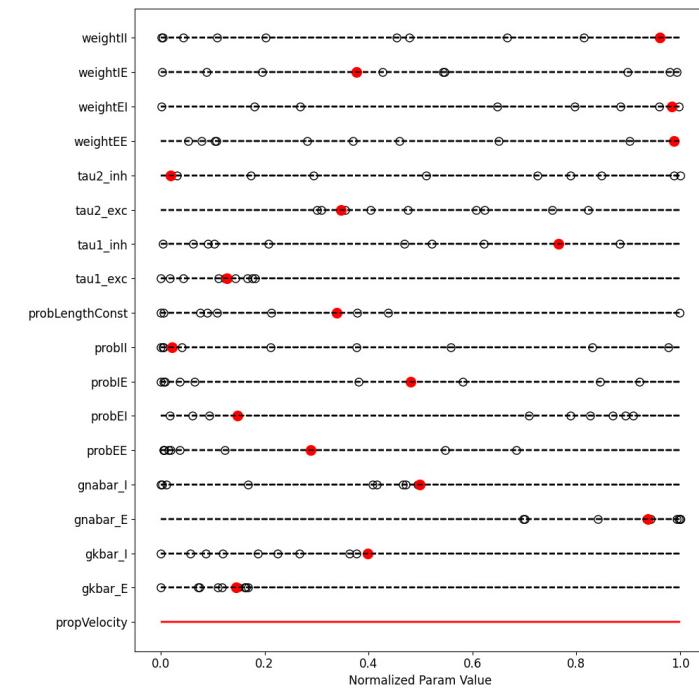
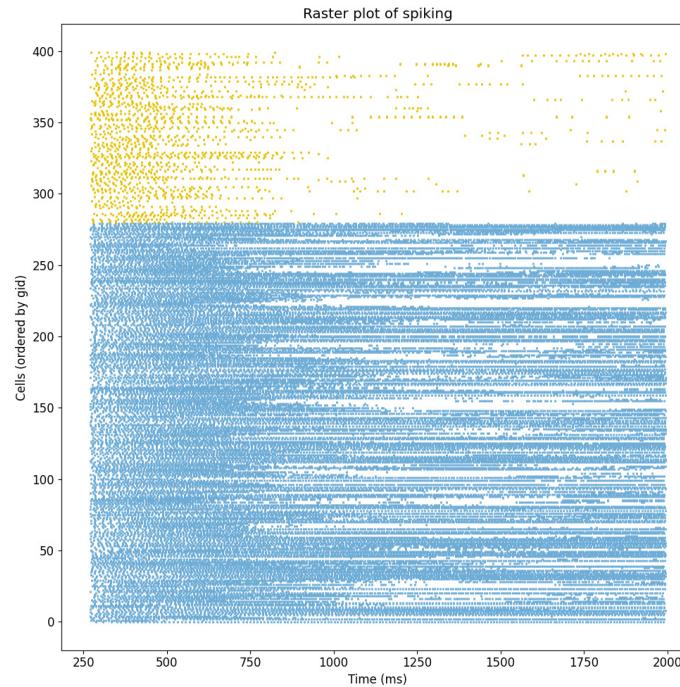
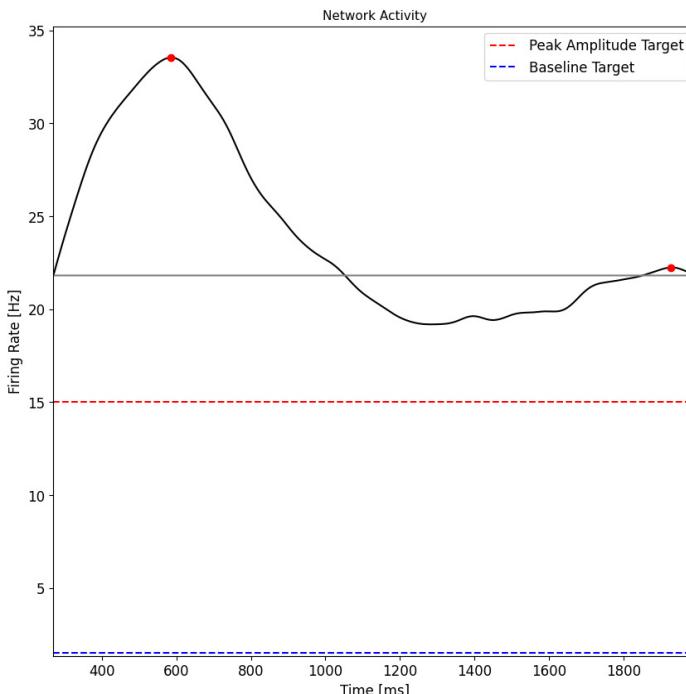
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```

burstAmp_Fitness: {'Value': 6.077000819308184, 'Fit': 502.57469707067963}
burst_peak_frequency_fitness: {'Value': 1.0025062656641603, 'Fit': 55.425379024193404}
IBI_fitness: {'Value': 1342.5, 'Fit': 2.2904538827478285}
baseline_fitness: {'Value': 23.931999093019925, 'Fit': 1000}
slopeFitness: {'Value': -0.05137806080094075, 'Fit': 1.1082211049288446}
thresh: {'Value': 21.81131227514885, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 34.68468468468468, 'Fit': 1000}
E_rate_fitness: {'Value': 86.74603174603175, 'Fit': 1000}
I_rate_fitness: {'Value': 16.675925925925924, 'Fit': 3.7901568649527113}
maxFitness: 1000
average_fitness: 507.24321199416704
average_scaled_fitness: 506.6965226694544

```

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}

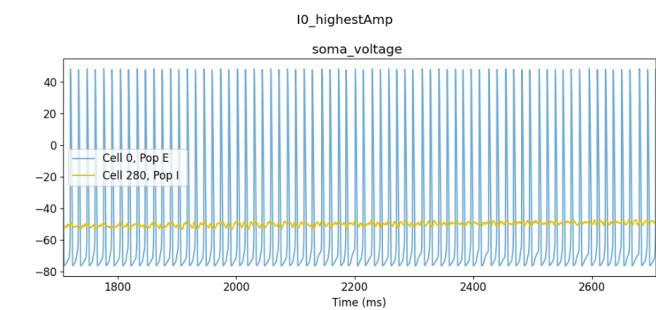
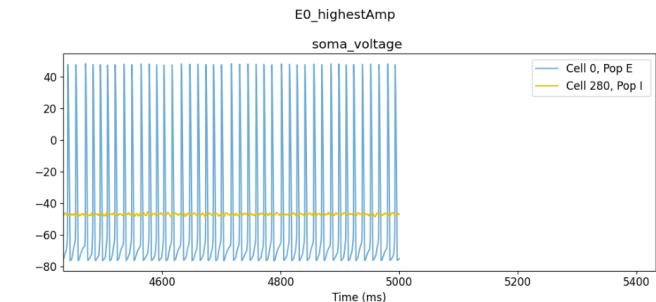
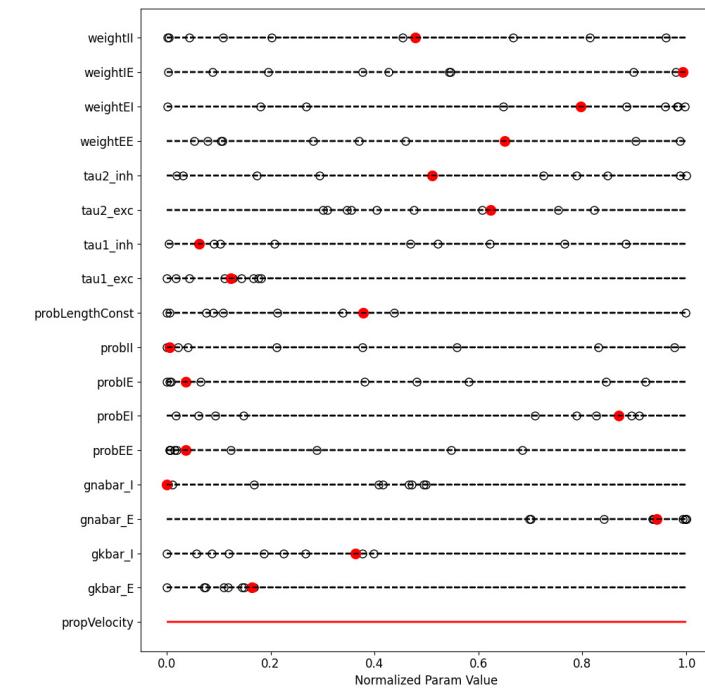
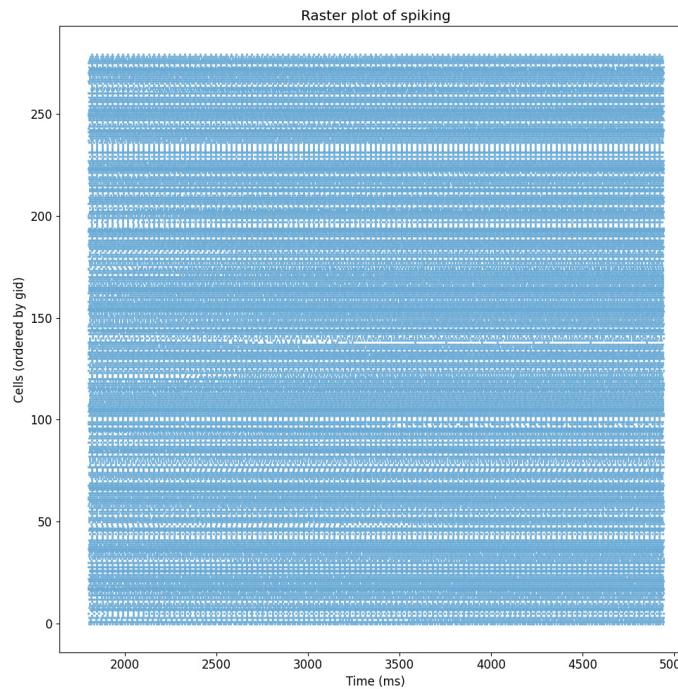
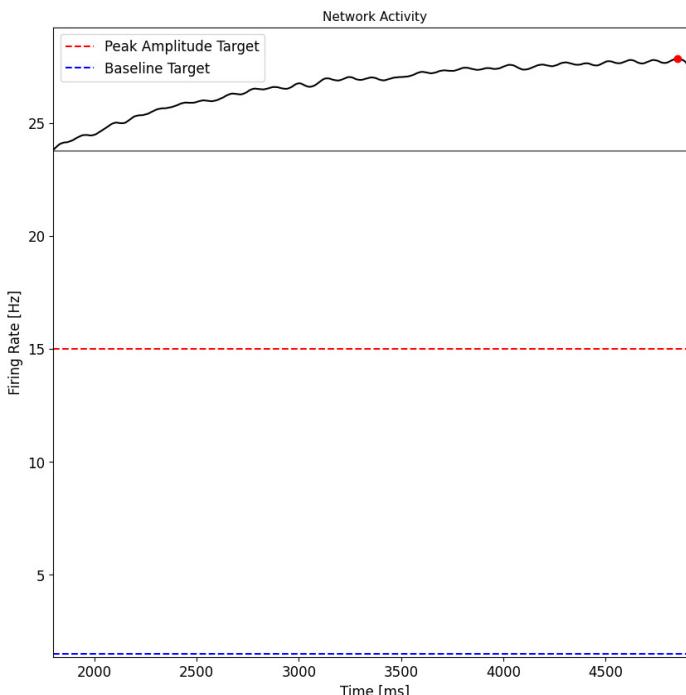
```

```

burstAmp_Fitness: {'Value': 4.086366866792151, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.20232675771370764, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 26.66084627539442, 'Fit': 1000}
slopeFitness: {'Value': 0.007692380586702257, 'Fit': 1.0155037158584947}
thresh: {'Value': 23.758881179005478, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 63.06306306306306, 'Fit': 1000}
E_rate_fitness: {'Value': 50.46825396825397, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 889.0017226350953
average_scaled_fitness: 888.8888888888889

```

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}

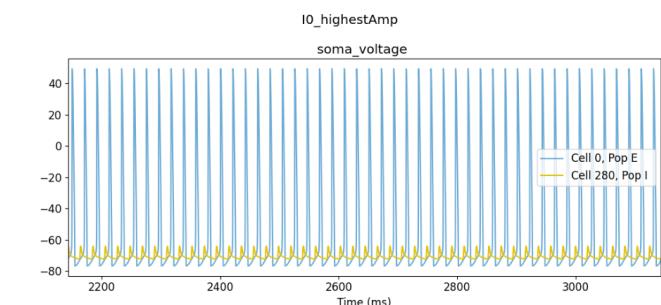
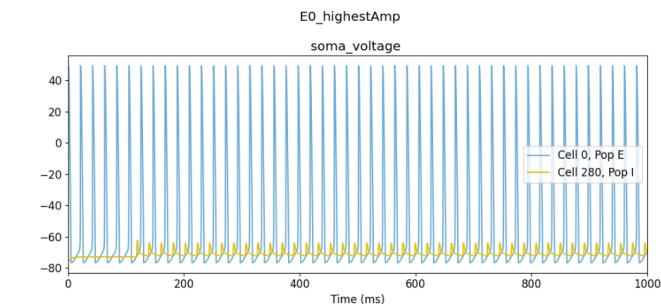
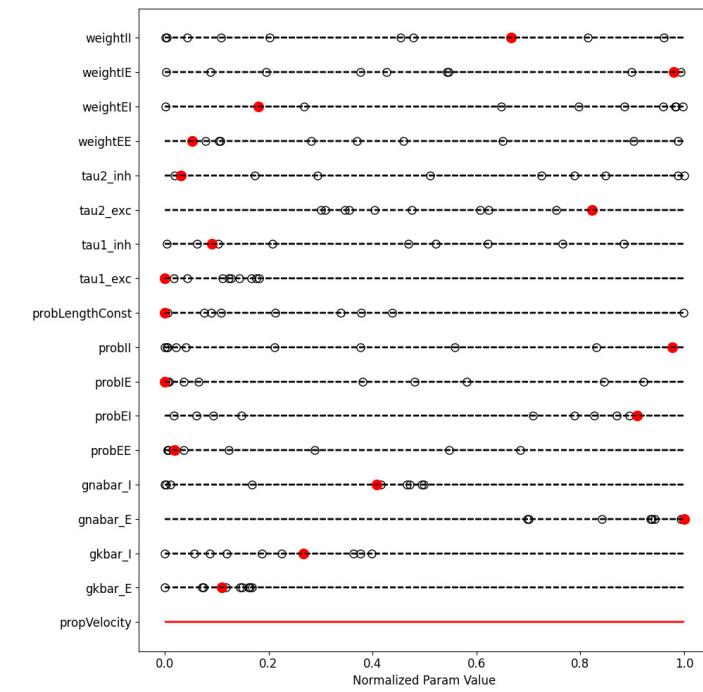
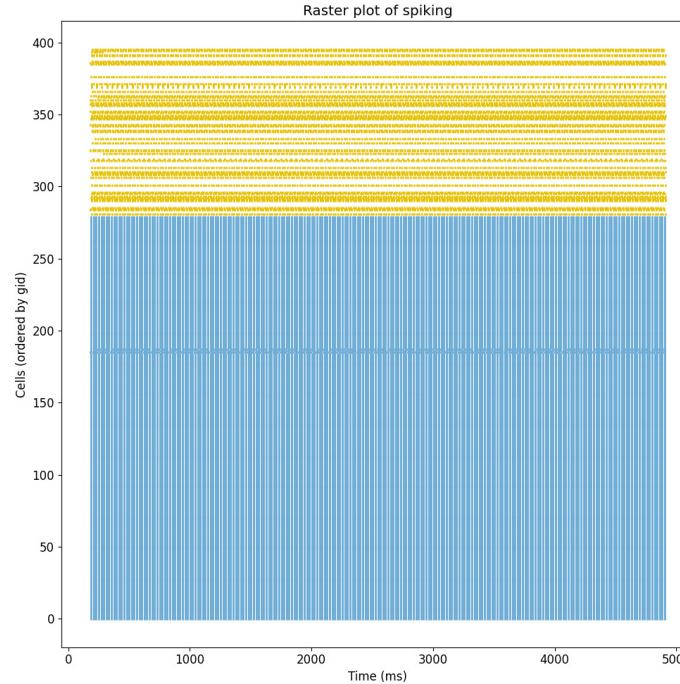
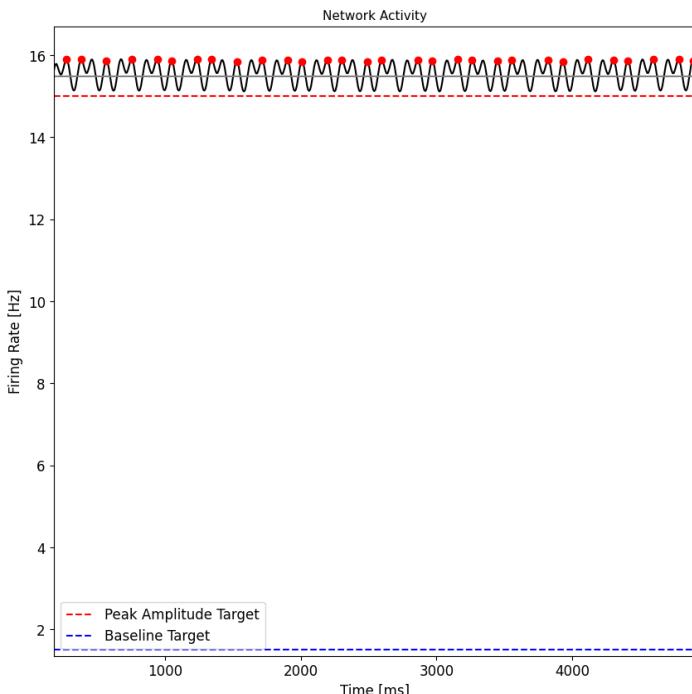
```

```

burstAmp_Fitness: {'Value': 0.3955825444825962, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 6.106870229007634, 'Fit': 1000}
IBI_fitness: {'Value': 159.05172413793105, 'Fit': 4.14036040033132}
baseline_fitness: {'Value': 15.576010060633878, 'Fit': 1000}
slopeFitness: {'Value': -1.7145940674172453e-05, 'Fit': 1.0000342924693217}
thresh: {'Value': 15.483539717037779, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 94.61077844311377, 'Fit': 2.9383385758991842}
E_rate_fitness: {'Value': 47.83730158730159, 'Fit': 1000}
I_rate_fitness: {'Value': 17.87037037037037, 'Fit': 3.3634356382923944}
maxFitness: 1000
average_fitness: 556.8269076563324
average_scaled_fitness: 556.3832757193389

```

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}

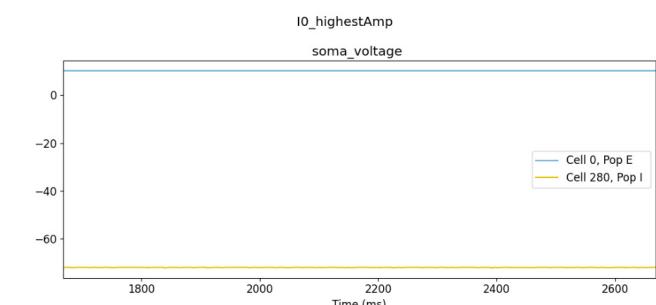
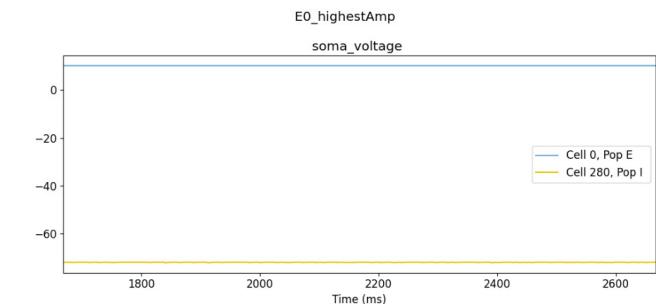
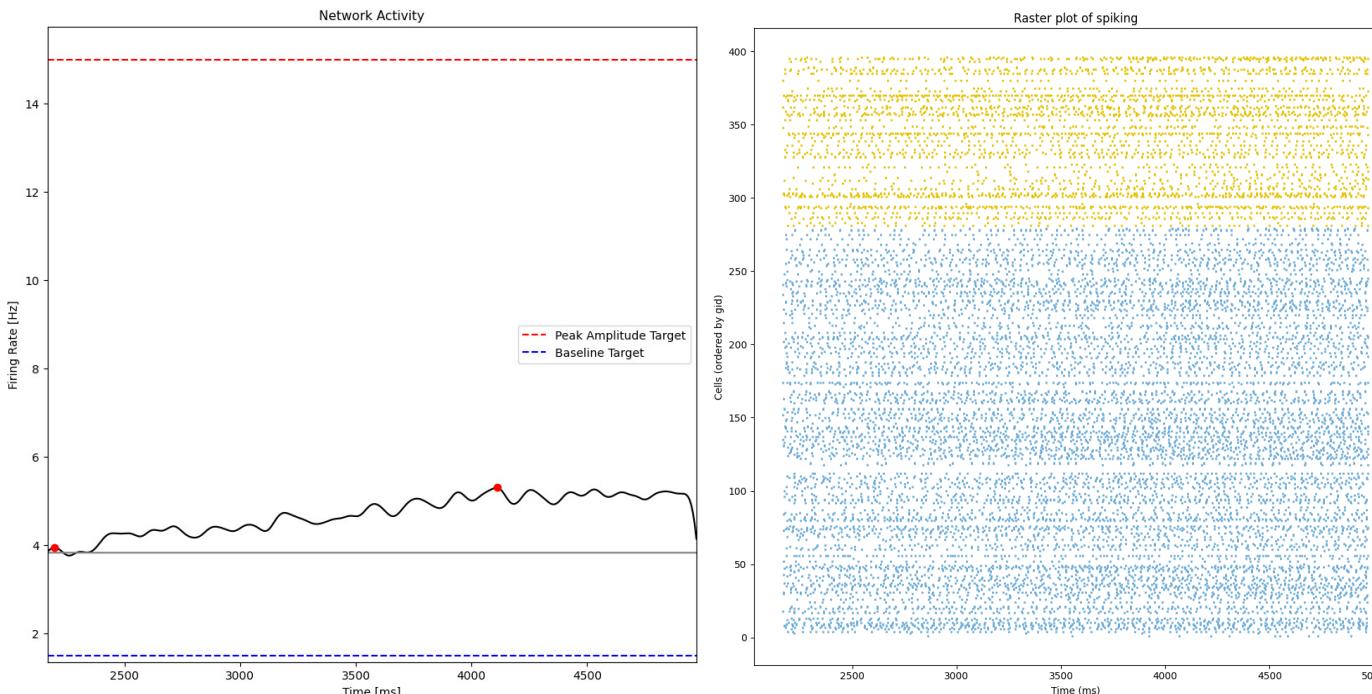
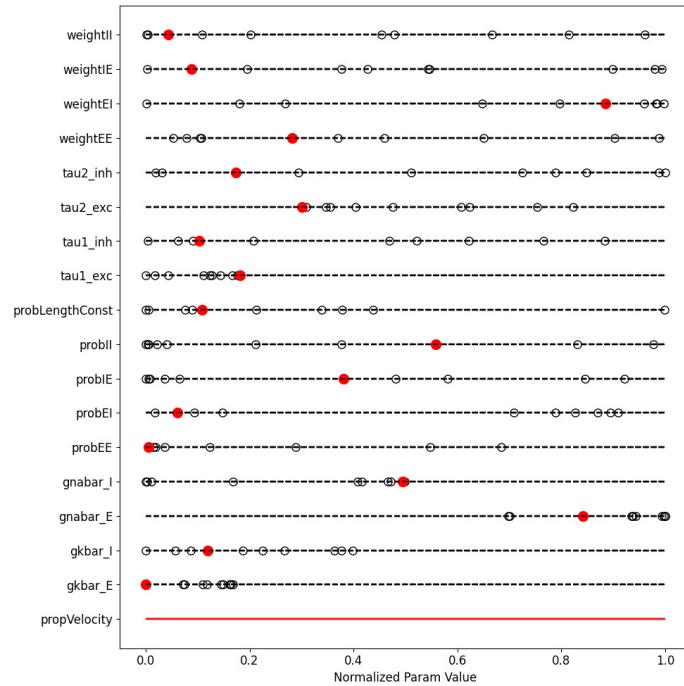
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```

burstAmp_Fitness: {'Value': 0.7932398567414487, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.4022121669180493, 'Fit': 1.5117576817308938}
IBI_fitness: {'Value': 1912.5, 'Fit': 1.722453968687543}
baseline_fitness: {'Value': 4.700465943270558, 'Fit': 1000}
slopeFitness: {'Value': 0.003604955355832995, 'Fit': 1.0072359646958953}
thresh: {'Value': 3.8303171757953485, 'Fit': 3.220970862500646}
sustain_oscillation_fitness: {'Value': 56.137724550898206, 'Fit': 1000}
E_rate_fitness: {'Value': 2.432539682539683, 'Fit': 7.591157833329448}
I_rate_fitness: {'Value': 2.1759259259259256, 'Fit': 16.157872745746637}
maxFitness: 1000
average_fitness: 336.8012721174101
average_scaled_fitness: 336.1326009973455

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_13/gen_13_cand_5_data.json

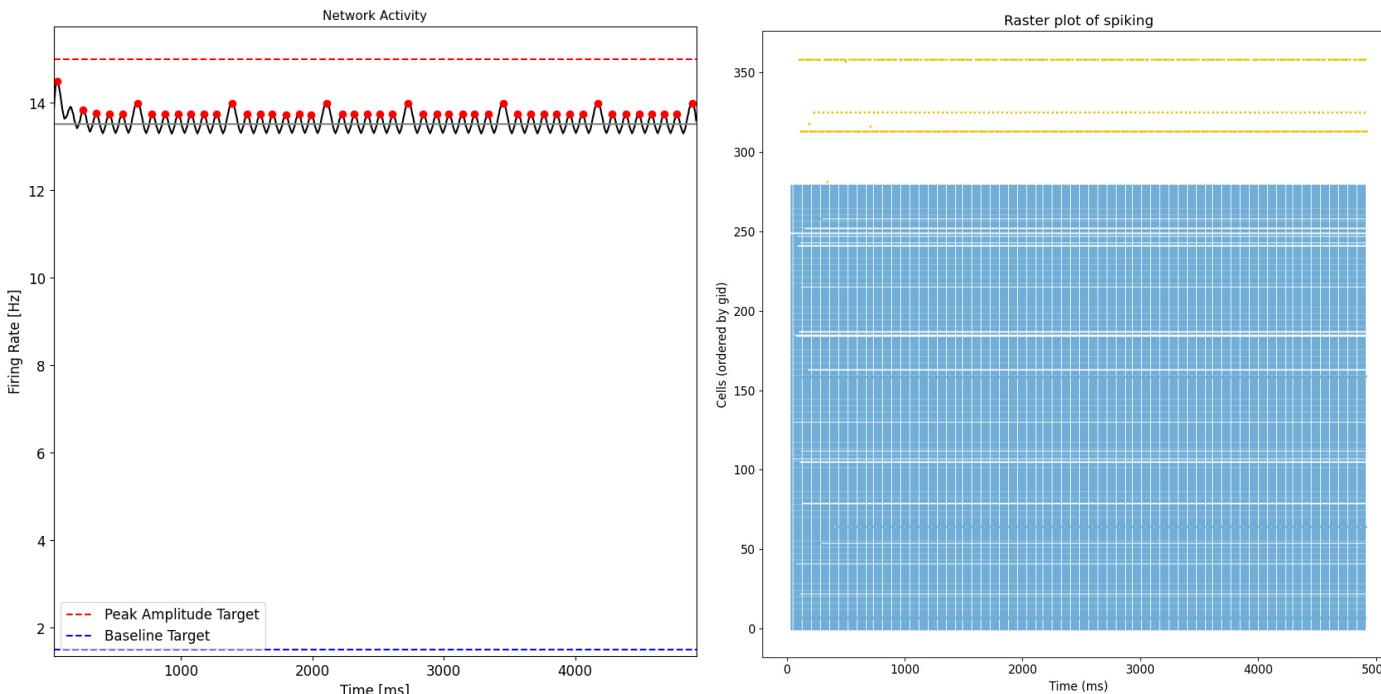
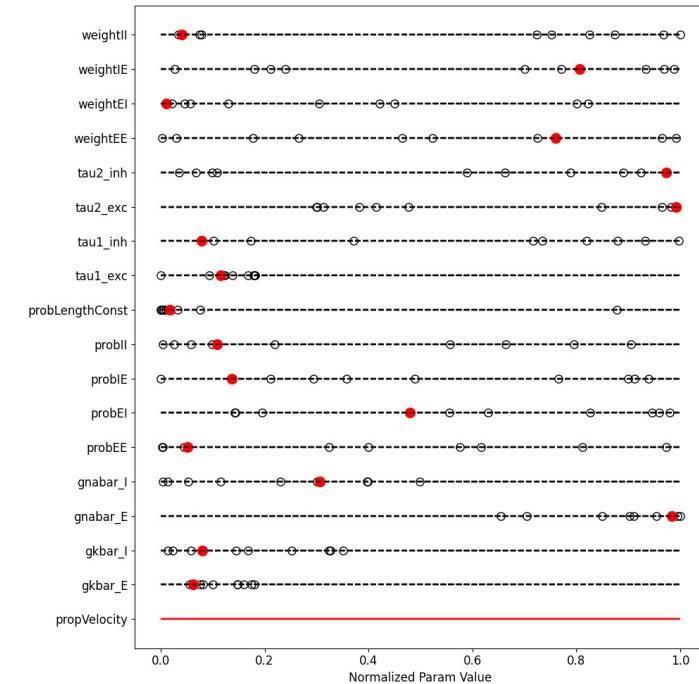
SimLabel: gen_13_cand_5

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': 0.283523220080686, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 9.552845528455284, 'Fit': 1000}
IBI_fitness: {'Value': 105.0, 'Fit': 4.25261168196121}
baseline_fitness: {'Value': 13.575067608460788, 'Fit': 1000}
slopeFitness: {'Value': -0.00011378903651497536, 'Fit': 1.0002276039708842}
thresh: {'Value': 13.514430215614443, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 97.75449101796407, 'Fit': 1.5669041542945097}
E_rate_fitness: {'Value': 47.916666666666664, 'Fit': 1000}
I_rate_fitness: {'Value': 1.0462962962962963, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4244159378029
average_scaled_fitness: 667.0914315980889
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_13/gen_13_cand_10_data.json

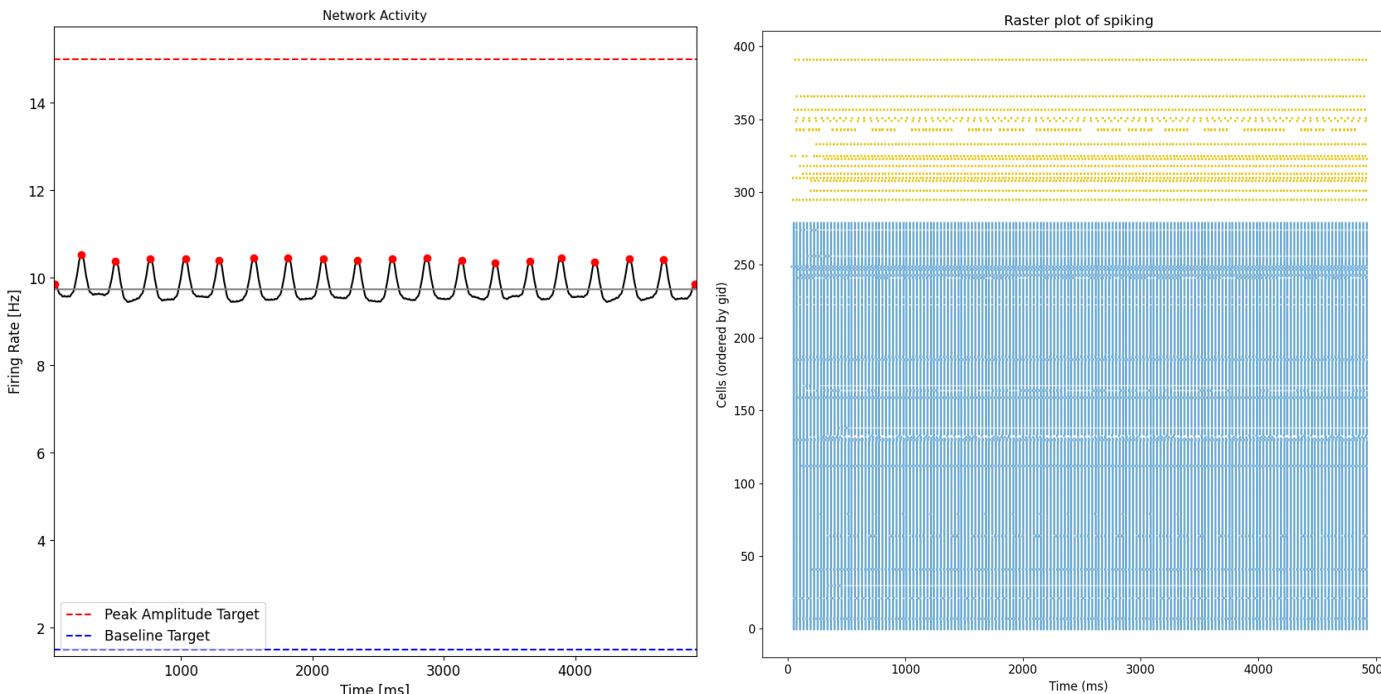
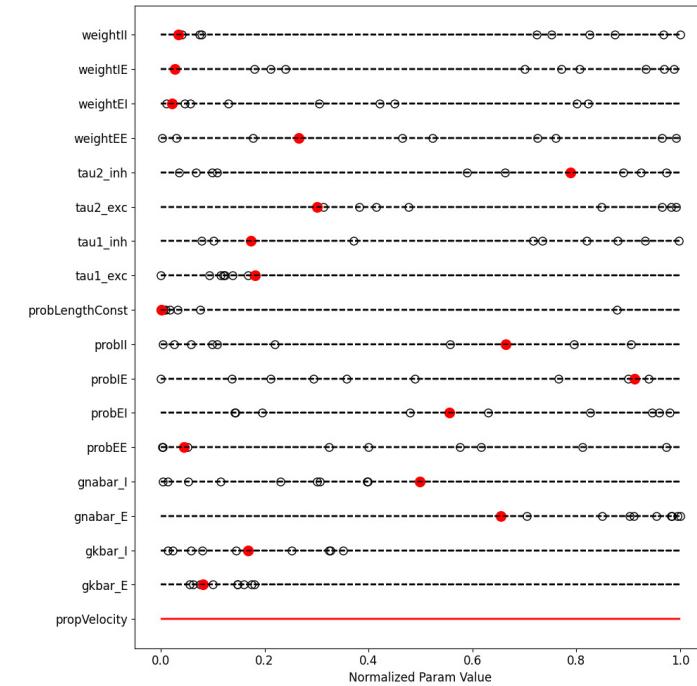
SimLabel: gen_13_cand_10

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': 0.6285678360905689, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 4.065040650406504, 'Fit': 1000}
IBI_fitness: {'Value': 256.57894736842104, 'Fit': 3.94220122574828}
baseline_fitness: {'Value': 9.772331467259368, 'Fit': 1000}
slopeFitness: {'Value': -5.348404268963068e-05, 'Fit': 1.0001069738066688}
thresh: {'Value': 9.73696181949864, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 98.04804804804806, 'Fit': 1.4775575055553853}
E_rate_fitness: {'Value': 33.59920634920635, 'Fit': 1000}
I_rate_fitness: {'Value': 3.7222222222222223, 'Fit': 13.842973533208488}
maxFitness: 1000
average_fitness: 557.806982137591
average_scaled_fitness: 557.3642990862513
```

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}

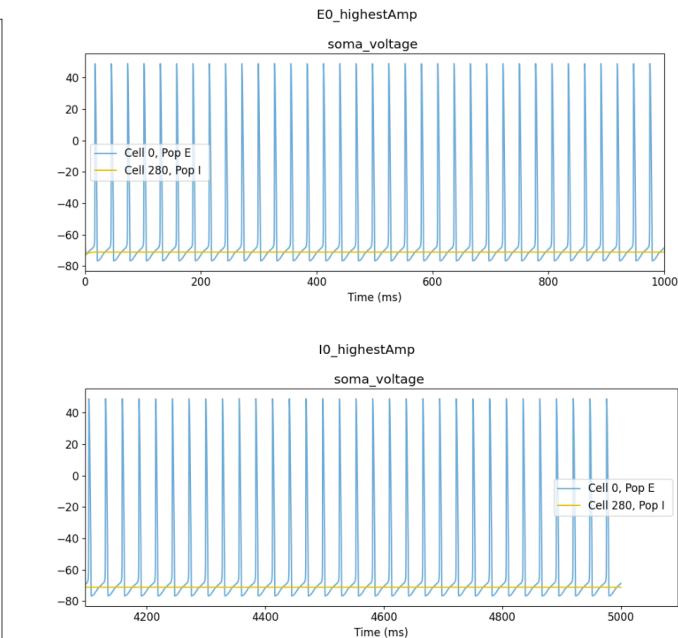
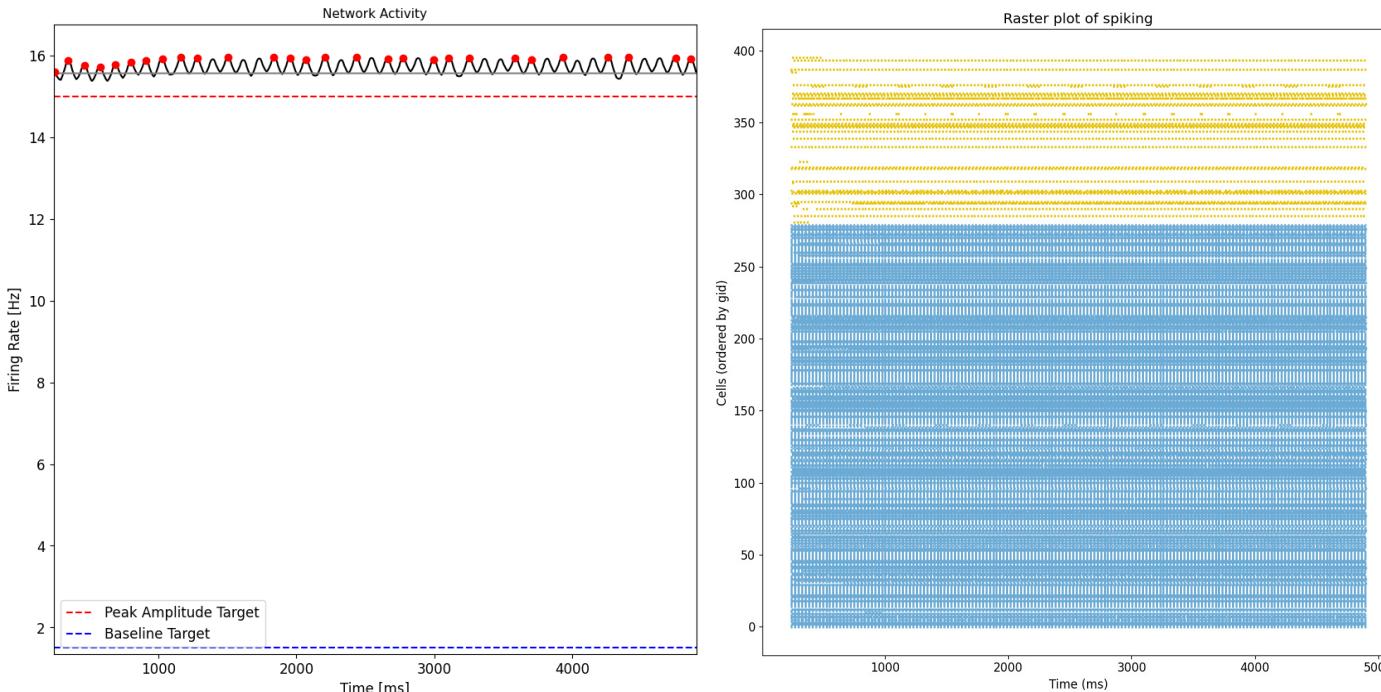
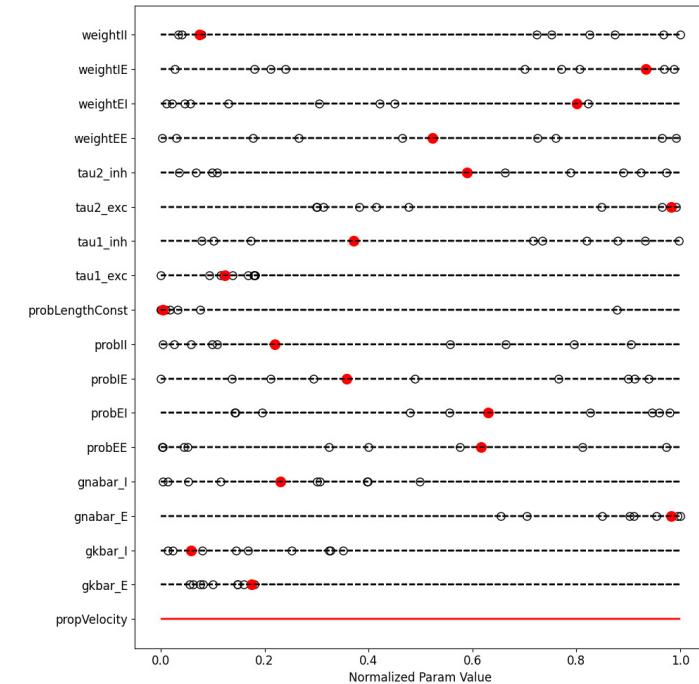
```

```

burstAmp_Fitness: {'Value': 0.3308692583627402, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 5.717202654415519, 'Fit': 1000}
IBI_fitness: {'Value': 170.83333333333334, 'Fit': 4.117935024960711}
baseline_fitness: {'Value': 15.72013575671705, 'Fit': 1000}
slopeFitness: {'Value': 0.00016499064805625995, 'Fit': 1.0003300357459295}
thresh: {'Value': 15.56425241199873, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 93.3933933933934, 'Fit': 3.748370908982111}
E_rate_fitness: {'Value': 51.801587301587304, 'Fit': 1000}
I_rate_fitness: {'Value': 8.212962962962962, 'Fit': 8.834846254067362}
maxFitness: 1000
average_fitness: 557.5223869137506
average_scaled_fitness: 557.079320054148

```

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}

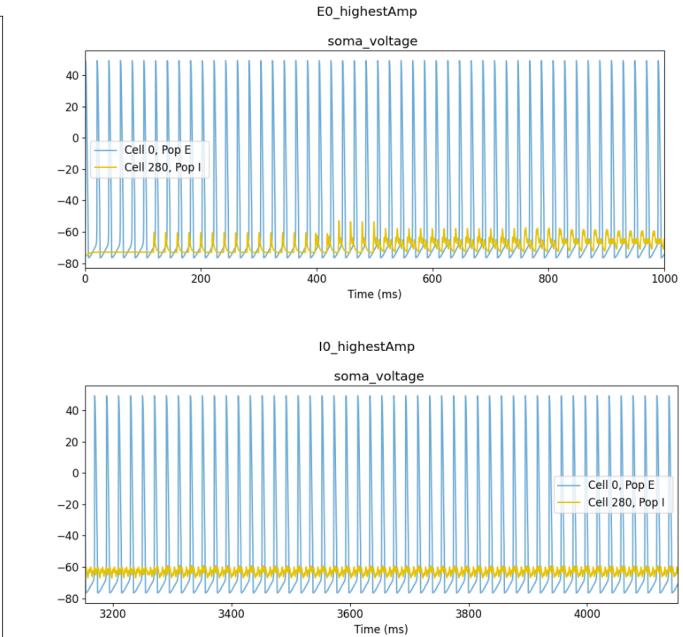
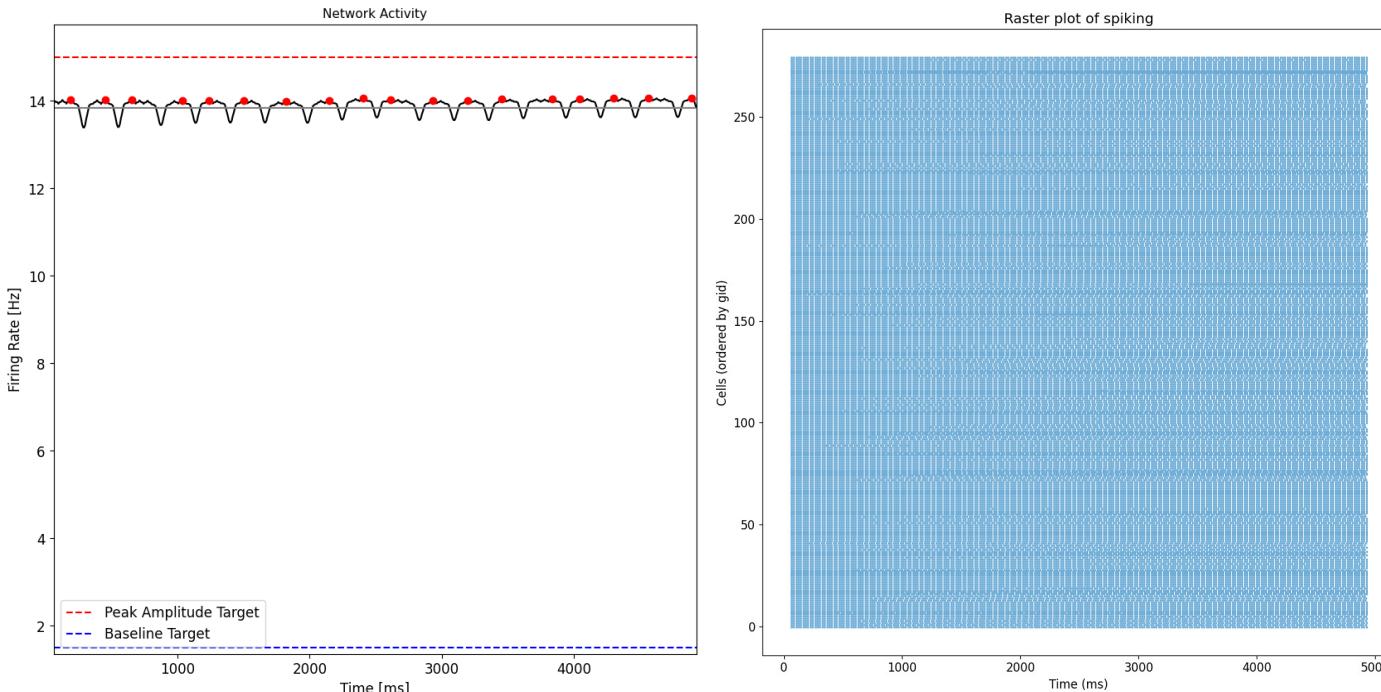
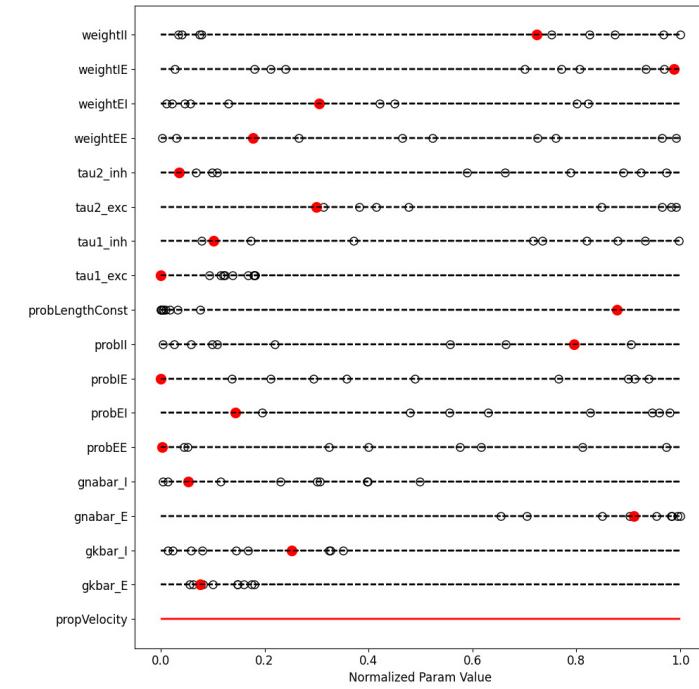
```

```

burstAmp_Fitness: {'Value': 0.1890667989957931, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 3.65296803652968, 'Fit': 1000}
IBI_fitness: {'Value': 276.61764705882354, 'Fit': 3.90433865347417}
baseline_fitness: {'Value': 13.89862876753468, 'Fit': 1000}
slopeFitness: {'Value': 0.00014244796176067452, 'Fit': 1.000284936510219}
thresh: {'Value': 13.838620702077606, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 97.30538922155688, 'Fit': 1.7141582703762195}
E_rate_fitness: {'Value': 50.01984126984127, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4020868733734
average_scaled_fitness: 667.0690610702637

```

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}

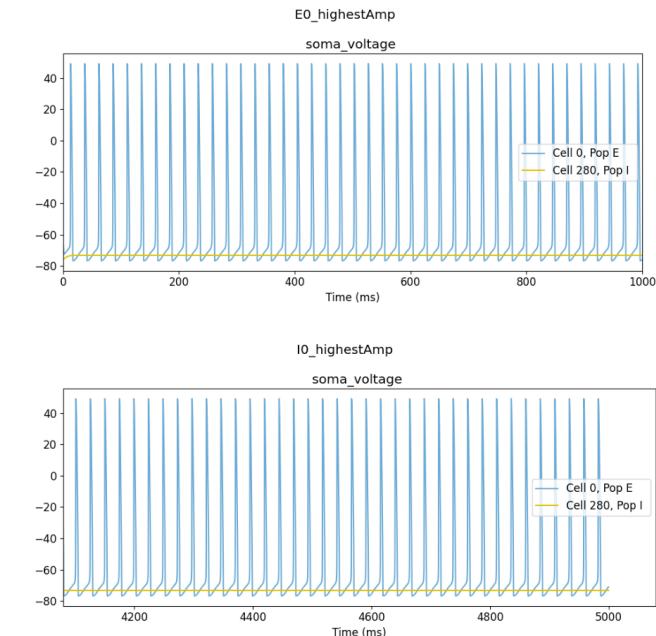
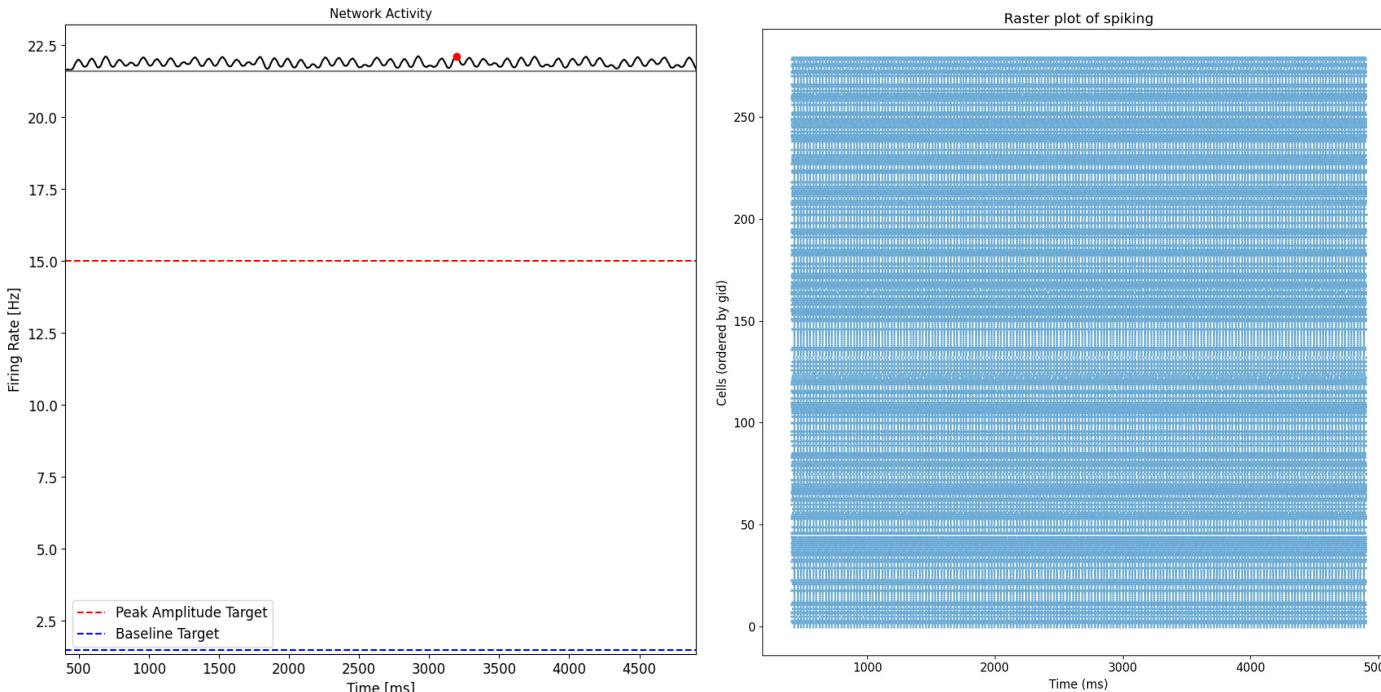
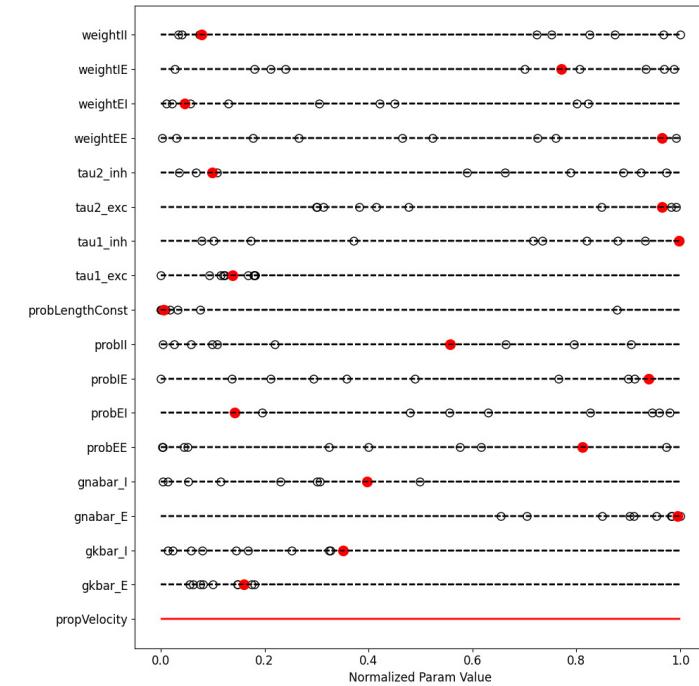
```

```

burstAmp_Fitness: {'Value': 0.5239052476641781, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2038735983690112, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 21.87629939502663, 'Fit': 1000}
slopeFitness: {'Value': 1.5737217593974074e-05, 'Fit': 1.0000314749305133}
thresh: {'Value': 21.588793988004564, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 90.24024024024024, 'Fit': 7.042420639807379}
E_rate_fitness: {'Value': 76.12698412698413, 'Fit': 1000}
I_rate_fitness: {'Value': 0.02777777777777778, 'Fit': 1000}
maxFitness: 1000
average_fitness: 778.6713835683042
average_scaled_fitness: 778.4498264214494

```

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}

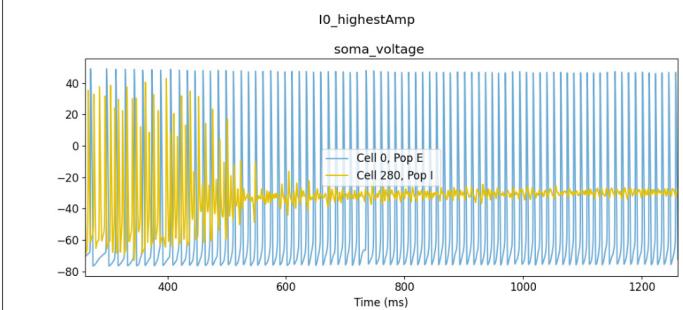
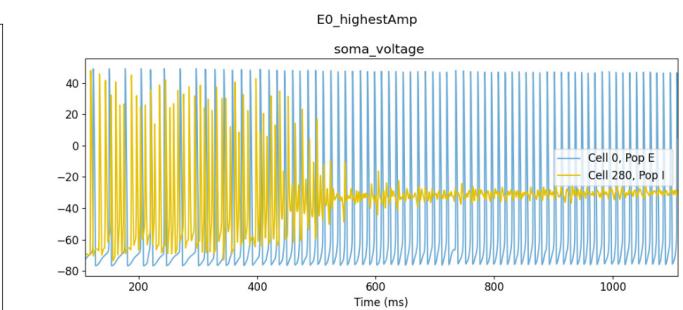
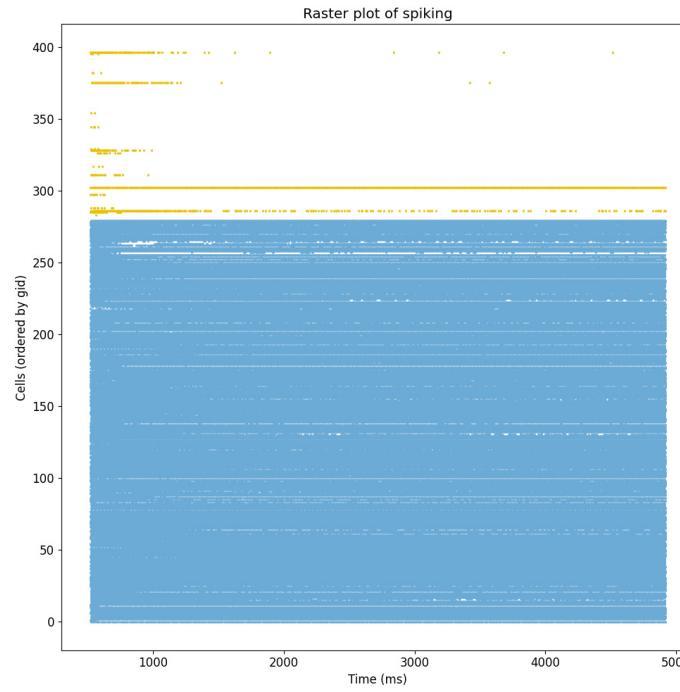
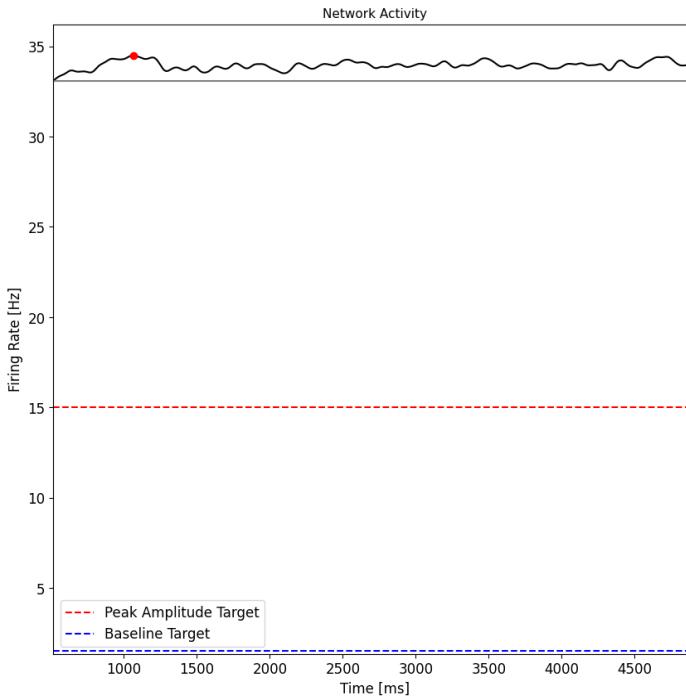
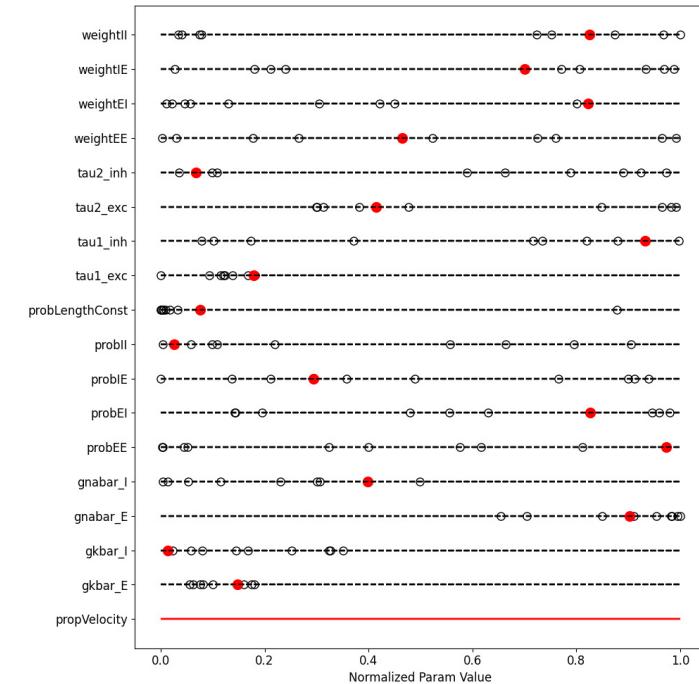
```

```

burstAmp_Fitness: {'Value': 1.4135380646268203, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.2032520325203252, 'Fit': 1000}
IBI_fitness: {'Value': None, 'Fit': 1000}
baseline_fitness: {'Value': 33.9460537332482, 'Fit': 1000}
slopeFitness: {'Value': 0.00033794357106873874, 'Fit': 1.0006761156053208}
thresh: {'Value': 33.07849873940563, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 88.28828828828829, 'Fit': 10.405581473625581}
E_rate_fitness: {'Value': 102.19444444444443, 'Fit': 1000}
I_rate_fitness: {'Value': 15.61111111111111, 'Fit': 4.216008759380773}
maxFitness: 1000
average_fitness: 668.4024740387347
average_scaled_fitness: 668.0703199358338

```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

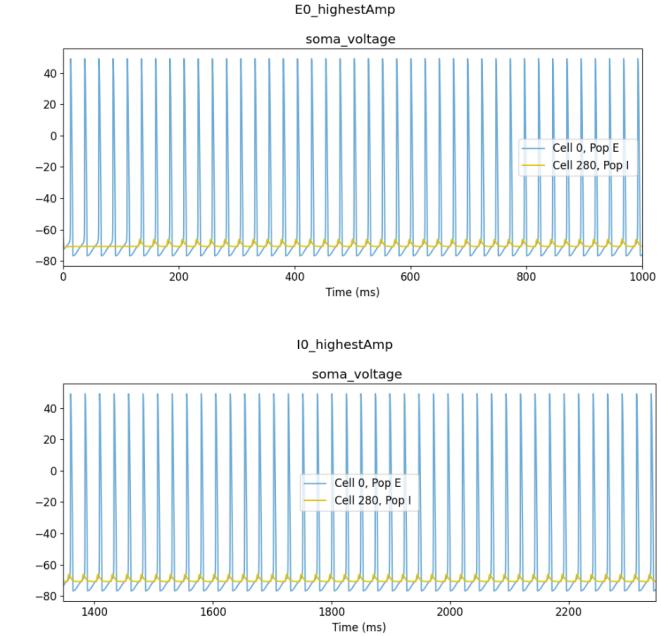
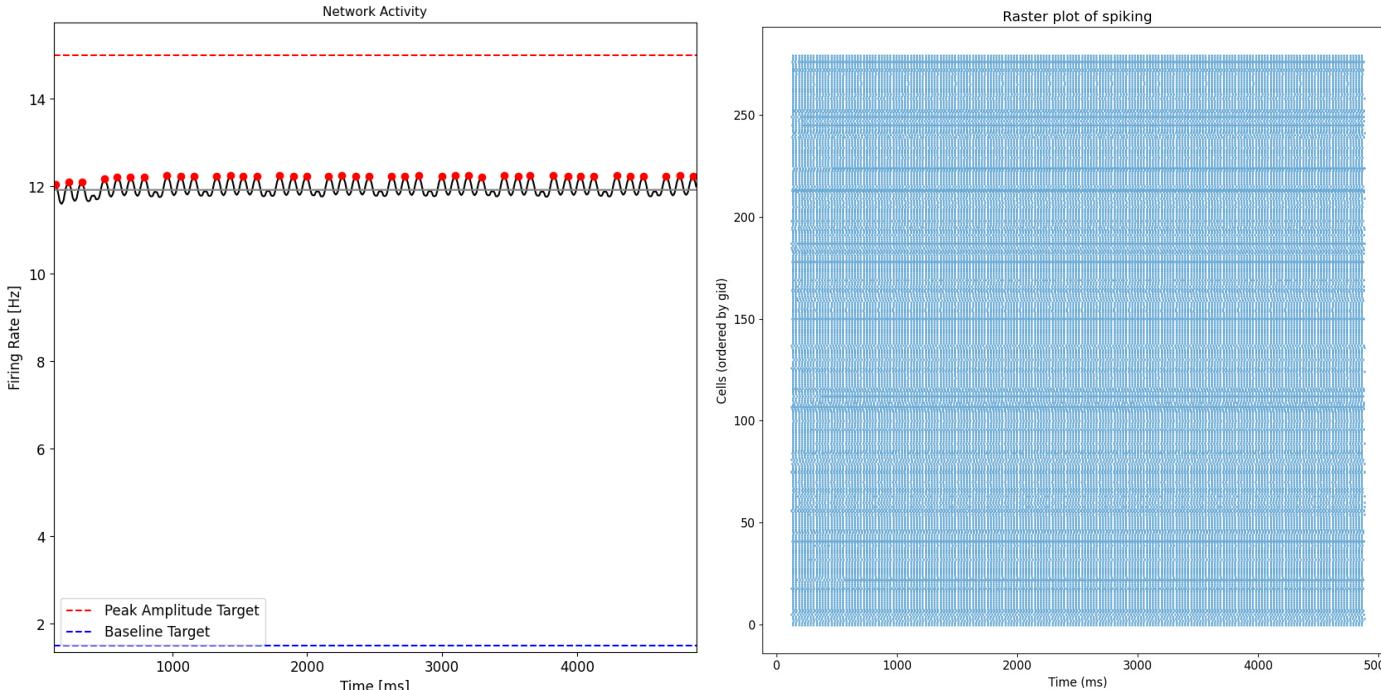
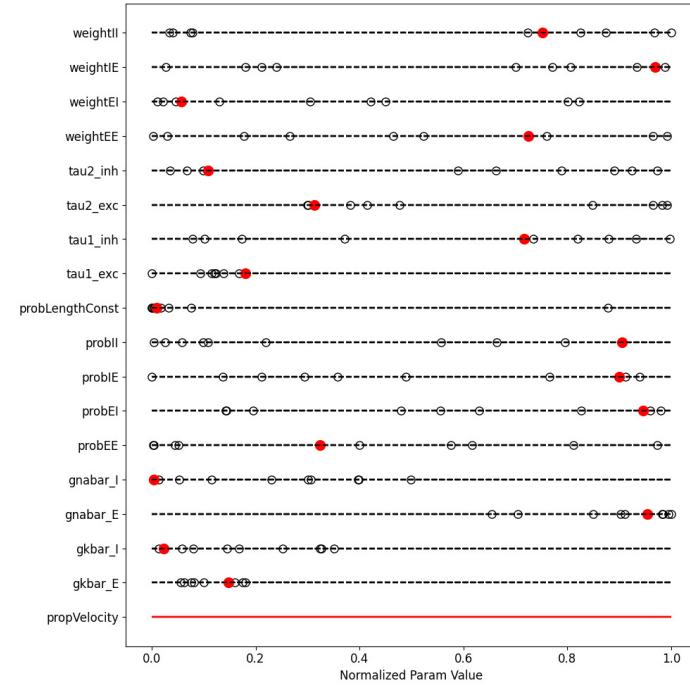


Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_13/gen_13_cand_83_data.json
SimLabel: gen_13_cand_83
Generation Rank: 6/10

```
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': 0.3031710903929612, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 8.397337429595494, 'Fit': 1000}
IBI_fitness: {'Value': 118.125, 'Fit': 4.225140464713699}
baseline_fitness: {'Value': 11.970867813064523, 'Fit': 1000}
slopeFitness: {'Value': 0.00010975705323600008, 'Fit': 1.0002195382014565}
thresh: {'Value': 11.917981041768707, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 95.4954954954955, 'Fit': 2.461819968249984}
E_rate_fitness: {'Value': 42.773809523809526, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.5207977745738
average_scaled_fitness: 667.187912622229
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

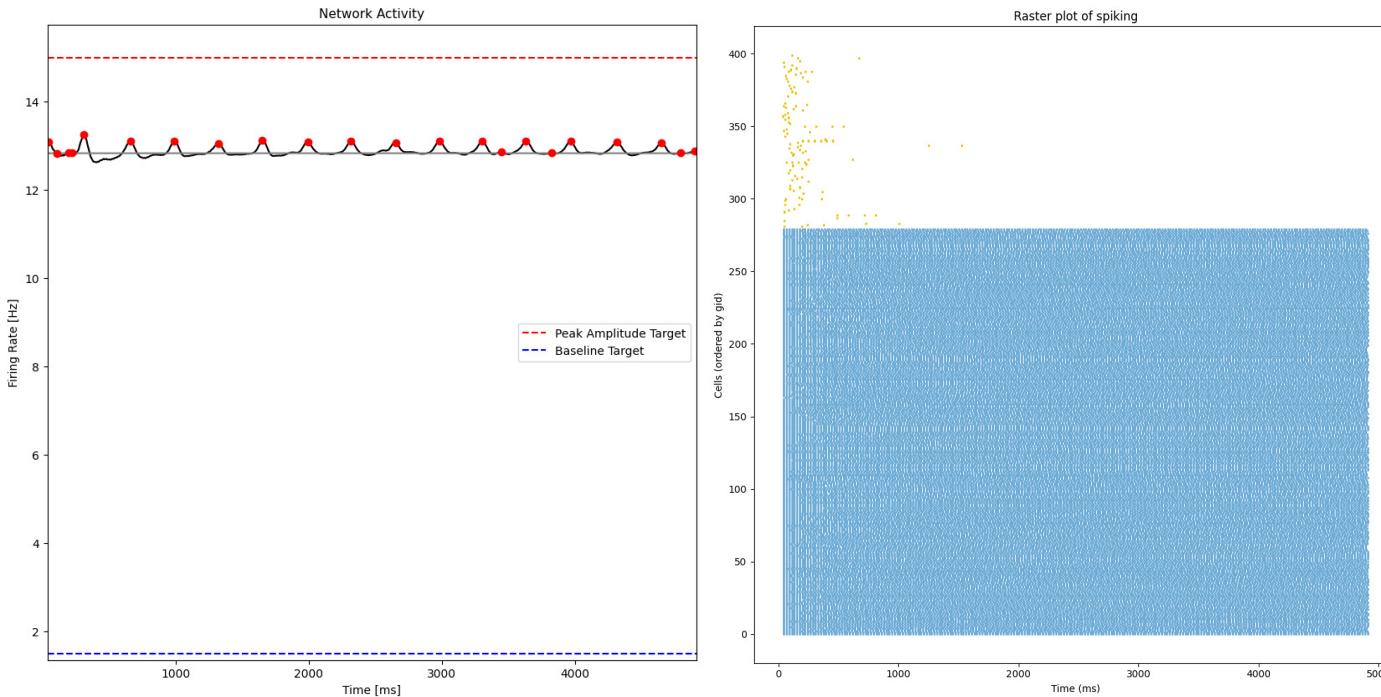
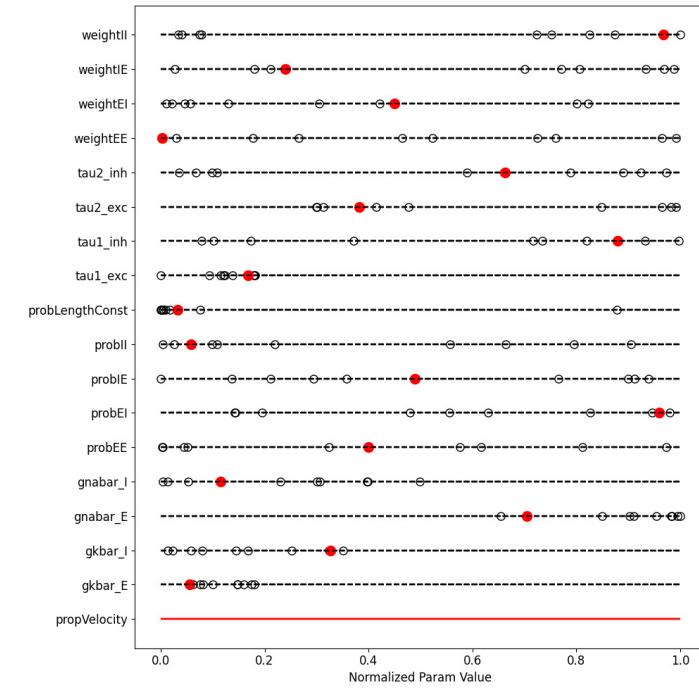


Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_13/gen_13_cand_89_data.json
SimLabel: gen_13_cand_89
Generation Rank: 4/10

```
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': 0.1904708908105981, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 4.478371501272265, 'Fit': 1000}
IBI_fitness: {'Value': 231.07142857142858, 'Fit': 3.999211539945985}
baseline_fitness: {'Value': 12.879809047776305, 'Fit': 1000}
slopeFitness: {'Value': 7.770571812570844e-05, 'Fit': 1.0001554235132344}
thresh: {'Value': 12.834662455870843, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 97.45508982035929, 'Fit': 1.663596850877257}
E_rate_fitness: {'Value': 45.666666666666664, 'Fit': 1000}
I_rate_fitness: {'Value': 0.6666666666666666, 'Fit': 1000}
maxFitness: 1000
average_fitness: 667.4069959793708
average_scaled_fitness: 667.0740182530981
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

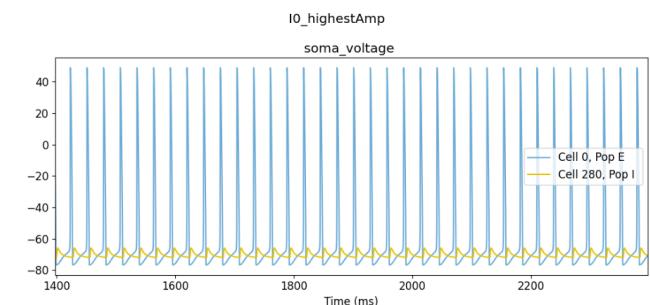
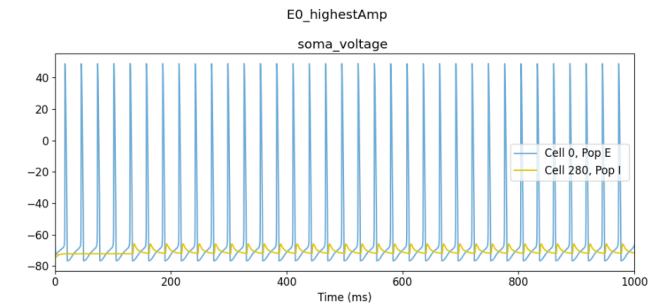
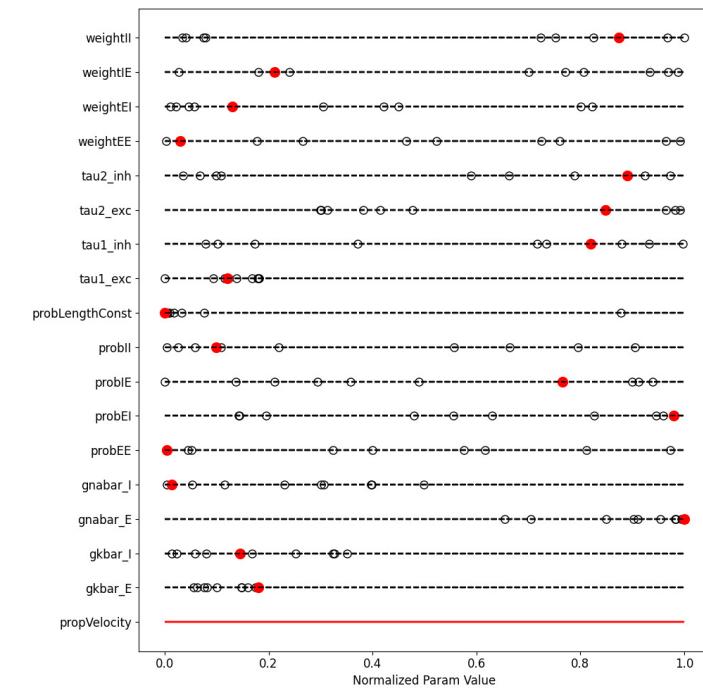
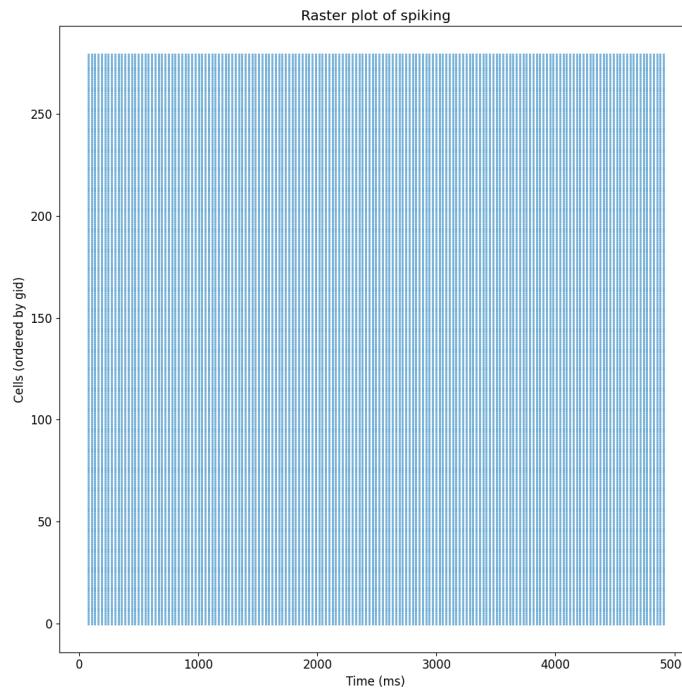
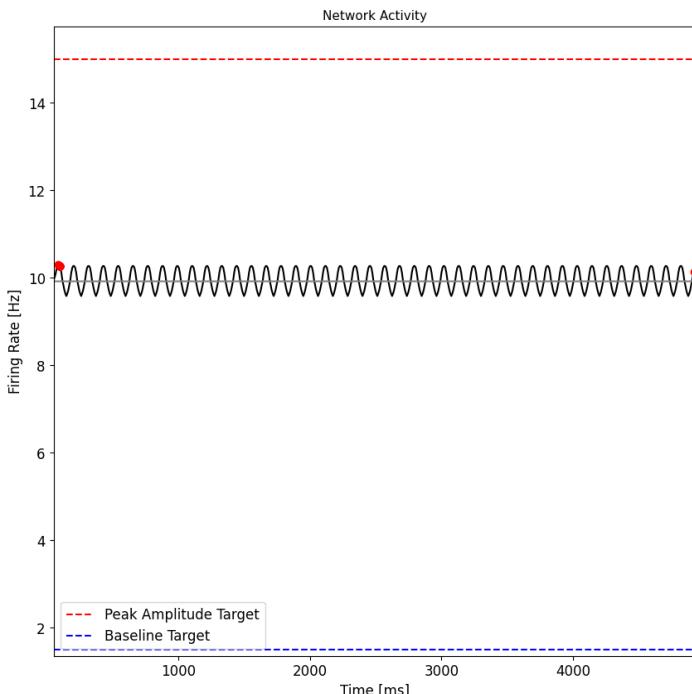


Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_13/gen_13_cand_96_data.json
SimLabel: gen_13_cand_96
Generation Rank: 8/10

```
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': 0.34739248457508604, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 8.915906788247215, 'Fit': 1000}
IBI_fitness: {'Value': 112.32558139534883, 'Fit': 27.63288758355135}
baseline_fitness: {'Value': 9.93971961874081, 'Fit': 1000}
slopeFitness: {'Value': -1.97116284806026e-05, 'Fit': 1.000039424034068}
thresh: {'Value': 9.91893685169805, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 98.04511278195488, 'Fit': 1.4784251651009856}
E_rate_fitness: {'Value': 35.555555555555556, 'Fit': 1000}
I_rate_fitness: {'Value': 0.0, 'Fit': 1000}
maxFitness: 1000
average_fitness: 670.0123724636319
average_scaled_fitness: 669.6820414826481
```

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0



Data Directory: /NERSC/output/240426_Run12_26AprSAFE_1x100/gen_13/gen_13_cand_99_data.json
SimLabel: gen_13_cand_99
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': 0.21053843816400253, 'Fit': 1000.0}
burst_peak_frequency_fitness: {'Value': 0.8142493638676845, 'Fit': 17.912453249364184}
IBI_fitness: {'Value': 1140.0, 'Fit': 2.5425780979381667}
baseline_fitness: {'Value': 15.970685569569483, 'Fit': 1000}
slopeFitness: {'Value': 3.479318524264924e-05, 'Fit': 1.0000695887916728}
thresh: {'Value': 15.843850623047947, 'Fit': 1000}
sustain_oscillation_fitness: {'Value': 94.16167664670658, 'Fit': 3.2144770037391677}
E_rate_fitness: {'Value': 54.448412698412696, 'Fit': 1000}
I_rate_fitness: {'Value': 5.86111111111112, 'Fit': 11.177344184085761}
maxFitness: 1000
average_fitness: 448.42743579154654
average_scaled_fitness: 447.8752726424965

binSize: 7.5
gaussianSigma: 30.0
thresholdBurst: 1.0

```

