10

Time [s]

12

14

6000

Generation Rank: 1/2

burts\_peak\_targets: {'cutoff': 1250, 'big\_bursts': {'target': 1616.784, 'max': 1955.749, 'min': 1252.317, 'width': 350716.0, 'num\_target': 31.25, 'num\_min': 0}, 'lil\_bursts': {'target': 402.633, 'max': 1205.884, 'min': 723.599, 'width': 1080641.25, 'num\_target': 68.75, 'num\_min': 0}} burst peak frequency: {'target': 0.11636363636363636, 'max': 1, 'min': 0} IBI\_targets: {'target': 8.79, 'width': 11070.0, 'max': 24.6} baseline\_targets: {'target': 294.444, 'max': 724.599, 'min': 0} rate slope: {'target': 0.002497512709074353} weightll sustained\_osci: {'target': 90.90303232255916} weightIE thresh\_target: {'target': 718.115, 'max': 724.599} weightEl rate\_targets: {'E': {'target': 0.8773666667, 'min': 0}, 'I': {'target': 4.7104651163, 'min': 2.6321000001}} weightEE tau2\_inh BigBurstVal\_Fitness: {'Value': 26033.74474018061, 'Fit': 1000.0} tau2\_exc numBig\_Fitness: {'Value': 1, 'Percent': 100.0, 'Fit': 1000} SmallBurstVal\_Fitness: {'Value': None, 'Fit': 1000} tau1\_inh numSmall\_Fitness: {'Value': 0, 'Percent': 0.0, 'Fit': 1000} taul\_exc burst\_peak\_frequency\_fitness: {'Value': 0.06756756756756, 'Fit': 1.0500061998762726} probLengthConst IBI\_fitness: {'Value': None, 'Fit': 1000} probli baseline fitness: {'Value': 24894.36628904365, 'Fit': 1000} problE slopeFitness: {'Value': 34.00345345813841, 'Fit': 1000} thresh: {'|Value': 22338.721810636074, 'Fit': 1000} probEl sustain oscillation fitness: {'Value': 62.251655629139066, 'Fit': 1000} probEE E\_rate\_fitness: {'Value': 40.62698412698413, 'Fit': 1000} gnabar I I rate fitness: ('Value': 10.75925925925926, 'Fit': 423.60191858702353 maxFitness: gnabar E average\_fitness: 868.7209937322415 gkbar average\_scaled\_fitness: 0.8685830050727991 gkbar E propVelocity binSize: 0.1 duration\_seconds gaussian Sigma: 0.15 0.0 0.2 1.0 0.8 thresholdBurst: 1 500 1000 2000 2500 3000 3500 4000 Normalized Param Value x (um) Network Activity Raster plot of spiking --- Big Burst Target --- Baseline Target 25000 250 20000 200 ₹ 15000 100 10000 50 5000 0 -

10000

Time (ms)

12000

14000