200

400

600

Time [ms]

800

1000

1200

Generation Rank: 4/44 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}, 'lii_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} weightII 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 burstAmp_Fitness: {'Value': None, 'Fit': 1000} tau2_exc IBI_fitness: {'Value': None, 'Fit': 1000} baselineFitness: {'Value': None, 'Fit': 1000} tau1_inh slopeFitness: {'Value': None, 'Fit': 1000} tau1_exc burst_peak_frequency_fitness: {'Value': None, 'Fit': 1000} probLengthConst E_rate_fitness: {'Value': None, 'Fit': 1000} probli I rate fitness: {'Value': None, 'Fit': 1000} sustain_oscillation_fitness: {'Value': None, 'Fit': 1000} problE maxFitness: 1000 probEl probEE average_scaled_fitness: 1000.0 gnabar 750 gnabar E binSize: 0.1 gaussianSigma: 0.15 gkbar thresholdBurst: akbar E 1500 propVelocity 1750 duration seconds 0.0 1500 2000 2500 500 1000 3000 3500 4000 x (um) Network Activity Raster plot of spiking --- Peak Amplitude Target 400 --- Baseline Target 25 350 300 20 250 gid) Rate [Hz] þ 200 10 100 50 0 -

1200

Time (ms)