Dashboard of Response Activity: M170717_MP034_2017-09-11 Activity of ~10K Neurons 1000 2000 3000 4000 5000 0 Mean Activity of Neurons 0 2000 2000 Neurons 4000 4000 6000 6000 8000 8000 10000 10000 2.5 5.0 **Image** -2.50.0 Mean activity 1e-6 Mean Activity per Stimulus Histogram of Mean Distribution of Neurons mean 4000 0.2 +std 3000 0.0 2000 1000 -0.20 1000 3000 2000 4000 5000 0 -2 Mean per neuron 1e-5 **Image** Covariance Covariance 6000 8000 10000 2000 2000 3000 4000 5000 Response Power Law 0 alpha=1.03 10^{-1} 2000 2000 Variance lmage 4000 10^{-3} 6000 observed 10^{-5} 8000 fit =-(1.03x + 1.72) 5000 10000 10² Neuron **Image** 10⁰ 10⁴ Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 25 25 20 20 Skewness Skewness 15 15 10 10 0.2 5 5 0.0 0 0 0.2 0.0 0.2 0.4 0.0 0.2 0.4 0.0 0.4

Mean

Std

Activity

1000

3000

4000

0.6

0.4

Mean

Neuron

Dashboard of Response Activity: M170717 MP033 2017-08-Activity of ~10K Neurons 1000 2000 3000 4000 5000 0 Mean Activity of Neurons 0 2000 2000 4000 4000 Neurons 6000 6000 8000 8000 10000 10000 12000 12000 14000 14000 5.0 **Image** -2.50.0 2.5 Mean activity 1e-6 Mean Activity per Stimulus Histogram of Mean Distribution of Neurons mean 0.2 +std 4000 Activity Count 0.0 2000 -0.20 2000 1000 4000 5000 0 3000 -2 2 Mean per neuron 1e-5 Image Covariance Covariance 2000,4000,600,800,000,000,000,000 2000 2000 3000 4000 5000 Response Power Law 0 alpha=1.04 2000 1000 10^{-2} 4000 Variance 2000 6000 3000 8000 10^{-4} 10000 4000 observed 12000 fit = -(1.04x + 1.72)5000 14000 lmage 10² Neuron 10⁰ 10⁴ Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 25 25 0.6 20 20 Skewness Skewness 15 15 0.4 Std 10 10 0.2 5 5 0.0 0 0 0.2 0.2 0.4 0.0 0.2 0.0 0.4 0.0 0.4 Std Mean Mean

Dashboard of Response Activity: M160825_MP027_2016-12-14 Activity of ~10K Neurons 2000 3000 4000 1000 5000 6000 Mean Activity of Neurons 0 0 2000 2000 4000 4000 6000 6000 8000 8000 10000 10000 5.0 **Image** -2.50.0 2.5 Mean activity 1e-6 Mean Activity per Stimulus Histogram of Mean Distribution of Neurons mean 0.2 3000 +std Activity 2000 0.0 1000 -0.20 1000 2000 3000 4000 5000 6000 -2 Mean per neuron 1e-5 **Image** Covariance Covariance 6000 8000 10000 200020003000400050006000 Response Power Law 0 alpha=1.05 1000 2000 2000 10^{-2} Variance lmage 4000 3000 4000 6000 10^{-4} 5000 observed 8000 fit = -(1.05x + 1.66)6000 10000 10² lmage Neuron 10⁰ 10⁴ Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 25 25 0.6 20 20 Skewness Skewness 15 15 0.4 Std 10 10 0.2 5 5 0.0 0 0 0.2 0.2 0.2 0.4 0.0 0.0 0.4 0.0 0.4 Mean Std Mean

Dashboard of Response Activity: M161025_MP030_2017-05-29 Activity of ~10K Neurons 1000 2000 3000 4000 6000 5000 Mean Activity of Neurons 0 0 2000 2000 4000 6000 Neurons 4000 6000 8000 8000 Image 0 6 Mean activity 1e-6 Histogram of Mean Distribution of Neurons Mean Activity per Stimulus mean 0.2 +std 2000 Activity 0.0 1000 -0.20 5000 1000 2000 3000 4000 6000 0 -2 **Image** Mean per neuron 1e-5 Covariance Covariance 6000 0 100020003000400050006000 Response Power Law 0 0 alpha=0.97 1000 2000 -2000 10^{-2} Variance 6000 mage 3000 4000 10^{-4} 5000 observed 8000 fit = -(0.97x + 1.98)6000 lmage 10² Neuron 10⁰ 10^{4} Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 25 25 0.6 20 20 Skewness Skewness 15 15 0.4 10 10 0.2 5 5 0.0 0 0 0.2 0.0 0.2 0.2 0.4 0.4 0.0 0.4 0.0 Std Mean Mean

Dashboard of Response Activity: M170714_MP032_2017-09-14 Activity of ~10K Neurons 1000 2000 3000 4000 5000 0 Mean Activity of Neurons 0 2000 2000 4000 4000 Neurons Neuron 6000 6000 8000 8000 10000 10000 5.0 **Image** -2.50.0 2.5 Mean activity 1e-6 Mean Activity per Stimulus Histogram of Mean Distribution of Neurons 6000 mean 0.2 +std Activity 4000 Count 0.0 2000 -0.20 2000 3000 1000 5000 4000 0 -2 Mean per neuron 1e-5 **Image** Covariance Covariance 4000 6000 8000 70000 2000 3000 Response Power Law 0 0 alpha=1.1 10^{-1} 2000 1000 4000 Variance 2000 lmage 10^{-3} 6000 3000 8000 10^{-5} observed 4000 10000 fit = -(1.1x + 1.45)5000 Image 10² Neuron 10⁰ 10⁴ Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 25 25 0.6 20 20 Skewness Skewness 15 15 0.4 10 10 0.2 5 5 0.0 0 -0 0.2 0.2 0.4 0.0 0.2 0.4 0.0 0.0 0.4 Mean Std Mean

Dashboard of Response Activity: M170604_MP031_2017-06-Activity of ~10K Neurons 1000 2000 3000 4000 5000 Mean Activity of Neurons 0 0 2000 2000 Neurons 4000 4000 6000 6000 8000 8000 10000 10000 2.5 5.0 **Image** -2.50.0 Mean activity 1e-6 Mean Activity per Stimulus Histogram of Mean Distribution of Neurons 3000 mean 0.2 +std 2000 Activity 0.0 1000 -0.2 0 1000 2000 3000 5000 4000 0 -2 Mean per neuron 1e-5 **Image** Covariance Covariance 4000 6000 8000 20000 2000 3000 4000 5000 Response Power Law 0 0 alpha=1.01 1000 2000 10^{-2} 2000 Variance Neuron lmage 4000 3000 6000 10^{-4} 4000 observed 8000 fit = -(1.01x + 1.81)5000 10000 10² Neuron **Image** 10⁰ 10⁴ Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 25 25 0.6 20 20 Skewness Skewness 15 15 0.4 10 10 0.2 5 5 0.0 0 0 0.2 0.2 0.4 0.0 0.2 0.0 0.0 0.4 0.4 Mean Std Mean