Dashboard of Spontaneous Activity: M170717\_MP034\_2017-09-11 Activity of ~10K Neurons 100 150 200 0 50 250 Mean Activity of Neurons 0 2000 2000 Neurons 4000 4000 6000 6000 8000 8000 10000 10000 100 200 Image 300 Mean activity Mean Activity per Stimulus Mean Distribution of Neurons 2500 20 2000 Activity j 1500 1000 15 mean +std 10 500 -std 0 100 100 50 150 200 200 250 0 300 Image Mean per neuron Covariance Covariance 4000 6000 8000 10000 200 250 200 250 Response Power Law 0 alpha=0.5  $10^{-1}$ 50 2000 100 Neuron lmage Neuron 4000  $10^{-2}$ 150 6000 200 observed  $10^{-3}$ 8000 fit =-(0.5x + 3.57) 250 10000 lmage Neuron 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 2.0 1.5 Skewness Skewness 닭 1.0 2 0.5 0 0.0 0.5 0.0 0.5 1.0 1.5 2.0 0.5 1.0 1.5 2.0 1.5 2.0 0.0 1.0 0.0 Std Mean Mean

Dashboard of Spontaneous Activity: M170717 MP033 2017-08-Activity of ~10K Neurons 2000 500 1000 1500 2500 0 Mean Activity of Neurons 0 2000 2000 4000 4000 Neurons 6000 6000 8000 8000 10000 10000 12000 12000 14000 14000 200 100 lmage 300 Mean activity Mean Activity per Stimulus Mean Distribution of Neurons 2500 2000 25 Activity 1500 20 1000 mean +std 500 -std 15 0 1000 1500 100 2000 500 200 2500 0 300 **Image** Mean per neuron Covariance Covariance 0,400,600,800,000,000,000,000 2000 2500 2000 2500 Response Power Law 0 alpha=0.7  $10^{-1}$ 2000 500 4000 한 1000 <u>본</u> 1500 Veuron Neuron  $10^{-3}$ 6000 8000 10000  $10^{-5}$ observed 2000 12000 fit = -(0.7x + 3.87)2500 14000 lmage  $10^{3}$ Neuron 10<sup>1</sup> Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 2.0 4 1.5 Skewness Skewness 2 2 닭 1.0 0.5 0 0 0.0 2.0 1.5 2.0 0.5 0.5 0.5 1.5 0.0 1.0 1.5 1.0 1.0 2.0 0.0 0.0 Std Mean Mean

Dashboard of Spontaneous Activity: M160825\_MP027\_2016-12-14 Activity of ~10K Neurons 100 150 200 250 0 50 300 Mean Activity of Neurons 0 2000 2000 Neurons 4000 4000 6000 6000 8000 8000 10000 10000 200 100 lmage 300 Mean activity Mean Activity per Stimulus Mean Distribution of Neurons 2500 22.5 2000 70.0 Activity 17.5 5 1500 1000 1500 mean +std 500 15.0 -std 0 100 200 150 250 100 50 300 350 0 200 300 **Image** Mean per neuron Covariance Covariance 4000 6000 8000 20000 200 250 200 250 300 Response Power Law 0 alpha=0.68 50  $10^{-1}$ 2000 -100 Neuron 4000 Neuron 150  $10^{-2}$ 200 6000 - $10^{-3}$ 250 observed 8000 fit =-(0.68x + 3.18) 300 10000 Neuron **Image** 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 2.0 4 1.5 Skewness Skewness 2 닭 1.0 0.5 0 0 0.0 1.5 0.0 0.5 1.0 2.0 0.5 1.0 1.5 2.0 0.5 1.0 1.5 2.0 0.0 0.0 Std Mean Mean

Dashboard of Spontaneous Activity: M161025\_MP030\_2017-05-29 Activity of ~10K Neurons 100 150 200 250 300 0 50 Mean Activity of Neurons 0 2000 2000 0000 Nenton 6000 Neurons 4000 6000 8000 8000 lmage 0 100 200 300 Mean activity Mean Distribution of Neurons Mean Activity per Stimulus 40 2000 Activity Count 1500 1000 mean +std 500 -std 20 0 150 50 100 200 250 300 100 200 350 300 Image Mean per neuron Covariance Covariance 6000 200 250 200 250 300 Response Power Law 0 50 alpha=0.46 2000  $10^{-1}$ 100 0000 Nentou 6000 Neuron 를 150 <u>원</u> 200  $10^{-2}$ 250 observed  $10^{-3}$ 8000 fit = -(0.46x + 4.13)300 Image Neuron 10<sup>2</sup> 10° 10<sup>1</sup> Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 2.0 4 4 1.5 Skewness Skewness 2 2 닭 1.0 0.5 0 0 0.0 0.0 1.5 2.0 0.5 1.5 2.0 1.5 0.5 1.0 0.0 1.0 0.5 1.0 2.0 0.0 Std Mean Mean

Dashboard of Spontaneous Activity: M170714\_MP032\_2017-09-14 Activity of ~10K Neurons 1000 2000 3000 4000 0 Mean Activity of Neurons 0 2000 2000 4000 4000 Neurons Neuron 6000 6000 8000 8000 10000 10000 200 300 **Image** 0 100 Mean activity Mean Activity per Stimulus Mean Distribution of Neurons 2500 22.5 2000 Activity 20.0 1500 17.5 1000 mean +std 15.0 500 -std 12.5 0 1000 2000 4000 3000 100 200 300 Image Mean per neuron Covariance Covariance 4000 6000 8000 20000 2000 3000 Response Power Law 0 0 alpha=0.65 2000 1000  $10^{-2}$ 4000 Neuron 3000 mage 3000 Neuron 6000 3000  $10^{-4}$ 8000 observed 4000 10000 fit = -(0.65x + 4.36)Neuron 10<sup>1</sup>  $10^{3}$ Image Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 2.0 4 4 1.5 Skewness Skewness 2 2 닭 1.0 0.5 0 0.0 0.0 2.0 2.0 0.5 2.0 0.5 1.5 0.5 1.5 1.0 1.0 0.0 1.0 1.5 0.0 Mean Mean Std

Dashboard of Spontaneous Activity: M170604\_MP031\_2017-06-Activity of ~10K Neurons 100 150 200 250 0 50 Mean Activity of Neurons 0 2000 2000 Neurons 4000 4000 6000 6000 8000 8000 10000 10000 200 Image 100 300 Mean activity Mean Activity per Stimulus Mean Distribution of Neurons 2500 40 2000 35 Activity Count 1500 30 1000 mean 25 +std 500 -std 20 0 100 50 200 100 150 250 0 200 300 Image Mean per neuron Covariance Covariance 4000 6000 8000 10000 100 150 200 250 Response Power Law 0 alpha=0.74 50 2000 - $10^{-1}$ 100 Neuron Neuron lmage 4000  $10^{-2}$ 150 6000 200  $10^{-3}$ 8000 fit = -(0.74x + 3.09)250 10000 lmage Neuron 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> Dimensions Std vs Mean Skewness vs Mean Skewness vs Std 2.0 4 1.5 Skewness Skewness 닭 1.0 0.5 0 0 0.0 1.5 0.0 0.5 1.0 2.0 0.5 1.0 1.5 0.5 2.0 2.0 1.0 1.5 0.0 0.0 Std Mean Mean