

Data from: Inhibition decorrelates visual feature representations in the inner retina

This dataset contains raw and processed data acquired using 2-photon imaging with iGluSnFr of mouse bipolar cells using a standardized set of stimuli as described in Franke et al. (2017) after application of various drugs. Visualization functions for use with MATLAB are available from www.retinal-lab.org

Variable name	Dim 1	Dim 2	Dim 3	Dim 4	Remarks
gchirp_drug_avg	#samples	#rois			Median of all repeats, scaled to $\max(\text{abs}(x))=1$
gchirp_drug_qi	#rois				Quality index as defined in paper
lchirp_drug_avg	#samples	#rois			Median of all repeats, scaled to $\max(\text{abs}(x))=1$
lchirp_drug_qi	#rois				Quality index as defined in paper
step_drug_avg	#samples	#rois			Median of all repeats, scaled to $\max(\text{abs}(x))=1$
step_drug_qi	#rois				Quality index as defined in paper
rf_drug_tc	#samples	#rois			Time kernel of RF
rf_drug_map		20	15	#rois	Spatial map of RF
rf_drug_gauss_mean	#rois		2		2D mean of gauss fit to the spatial map
rf_drug_gauss_std	#rois		2		2D std of gauss fit to the spatial map
rf_drug_size	#rois				2-std-ellipse area as receptive field size
cs_drug_rf	#samples		10	#rois	Center-surround maps using the annulus stimulus
cs_drug_center	#samples	#rois			Center kernel (not identical to those used in the paper - the analysis in the paper was implemented in IGOR and is available upon request)
cs_drug_surround	#samples	#rois			Surround kernel (not identical to those used in the paper - the analysis in the paper was implemented in IGOR and is available upon request)
drug	#rois				1: Gabazine, 2: Tpmipa, 3: Strychnine, 4: L-AP4, NaN: no drug condition for this ROI

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