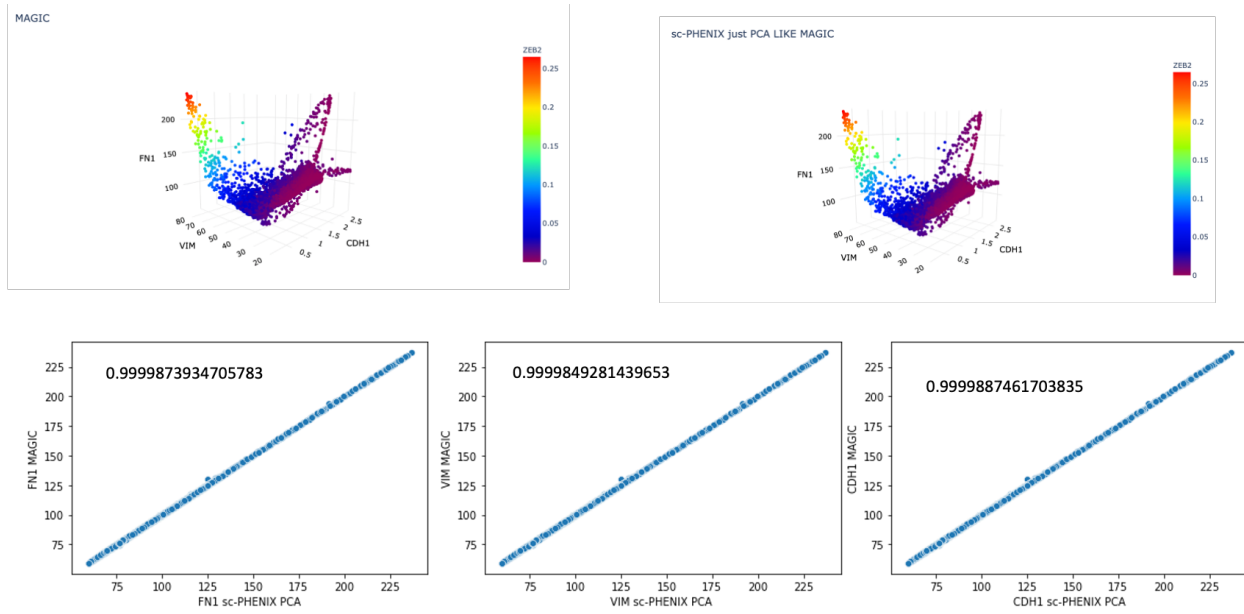


## S1 Reproducibility of sc-PHENIX as MAGIC using only PCA space



Here we show that our diffusion process with sc-PHENIX (only PCA space) is similar to MAGIC. The imputed gen-gen interactions have the same structure. There are only differences in small decimal values. However, we can see that R2 correlations are near 1. Thus, this indicates that the exponentiated Markov Matrix of sc-PHENIX is computed as MAGIC when the input is PCA. Data is from EMT data from MAGIC's paper.