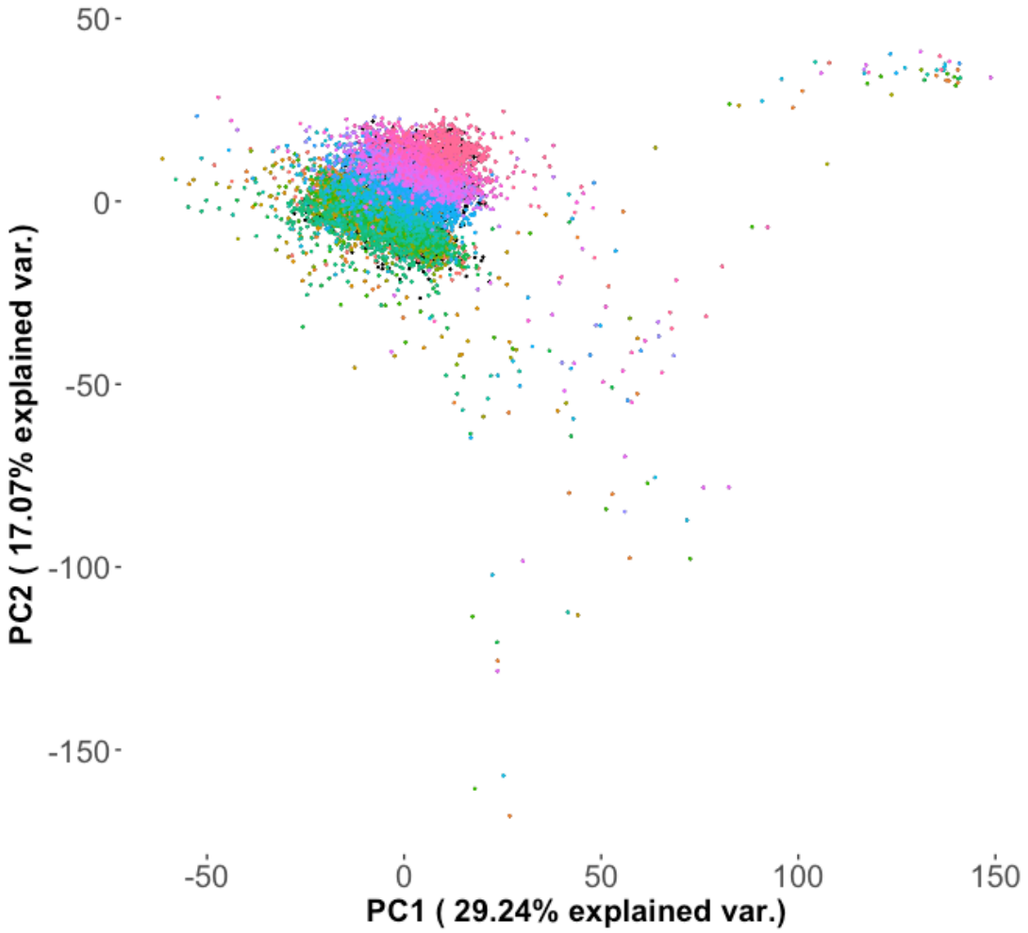
CytoData2017

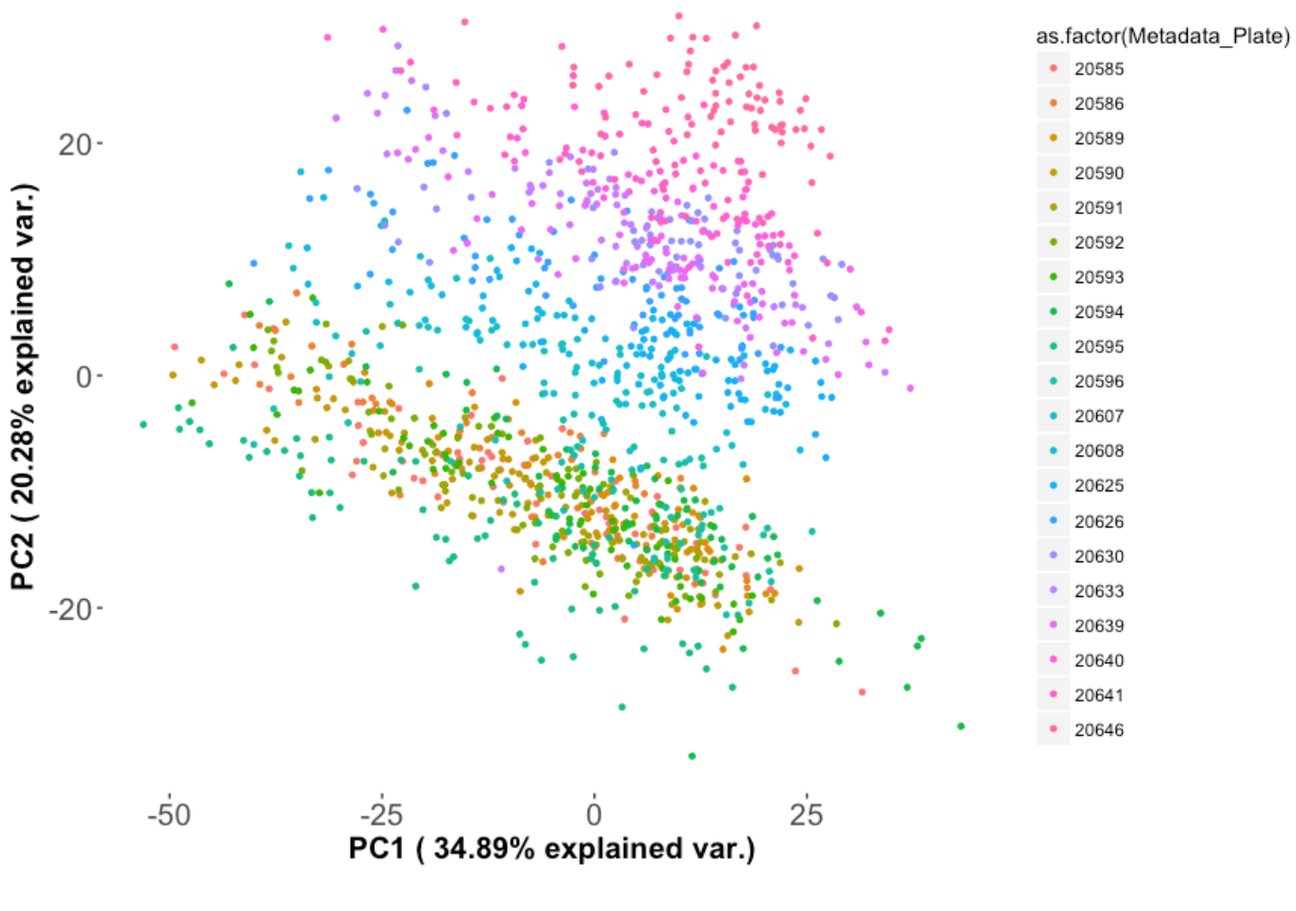
Peng Qiu, Michaël Barbier, Marlies Verschuuren

Plate Differences

ALL



CTRL



Workplan

1. Norm. based on ctrl
2. Feature Groups * Corr
3. Feature red. * Var
4. Evaluation

1

Norm. based on ctrl

For each plate:

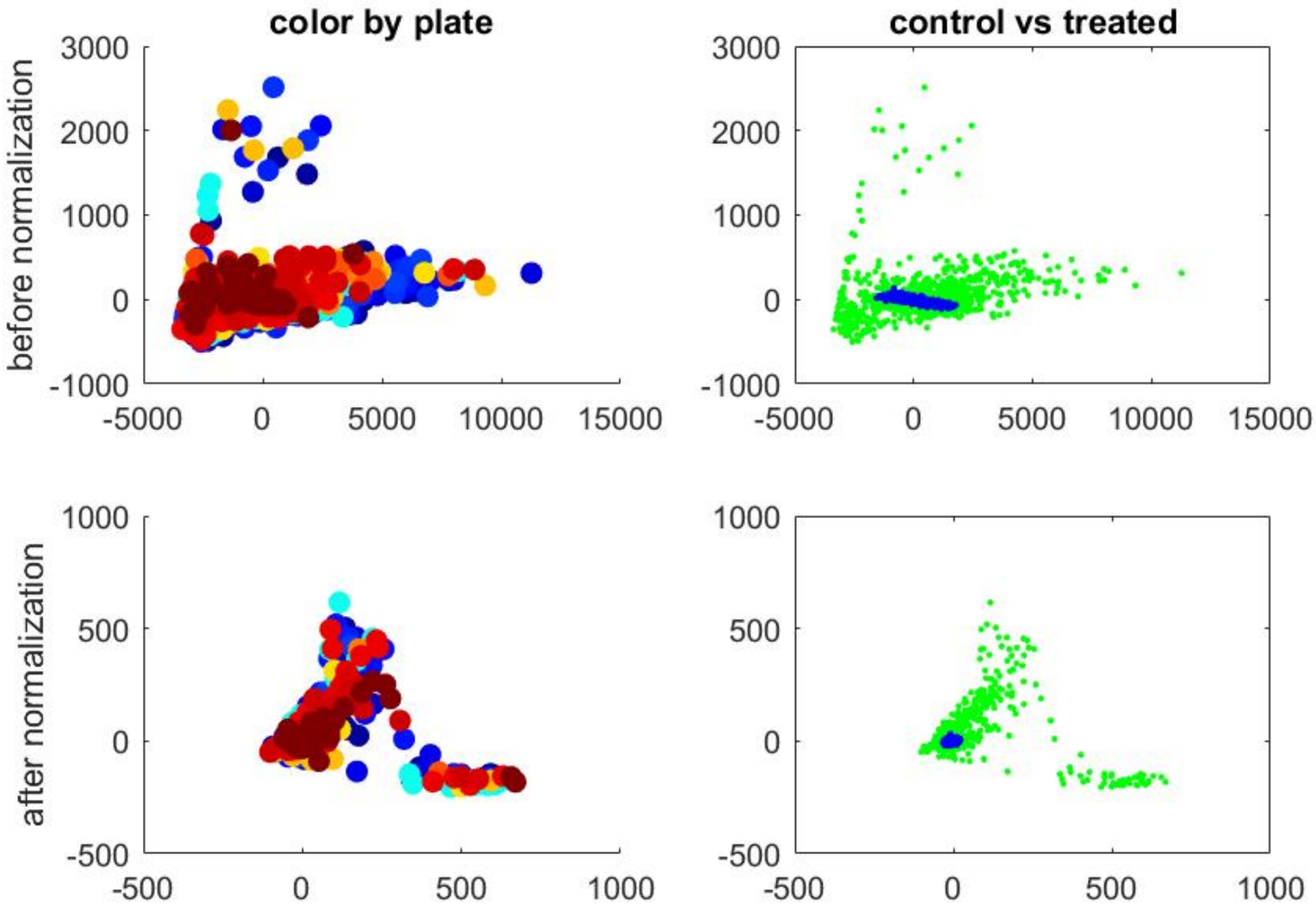
take the 64 control wells

compute the mean and std of all 824 features using the control wells

normalize data data for each feature by the mean and std

visualize before and after using PCA

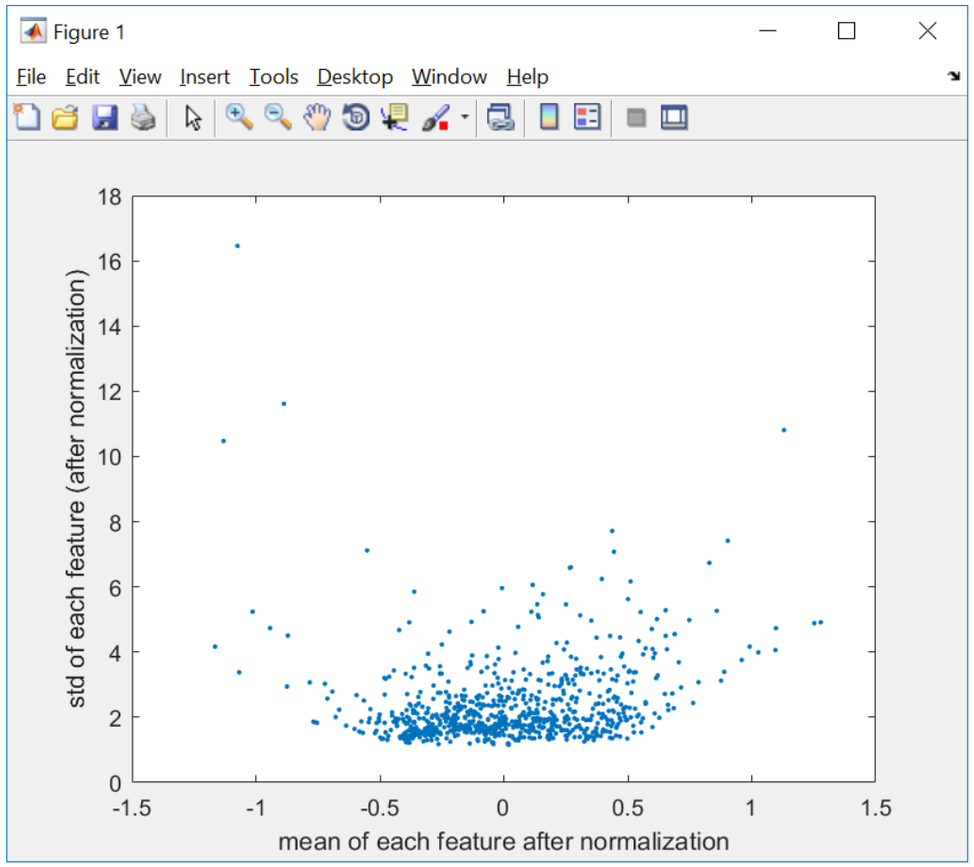
observe shrinkage of the distribution of the controls



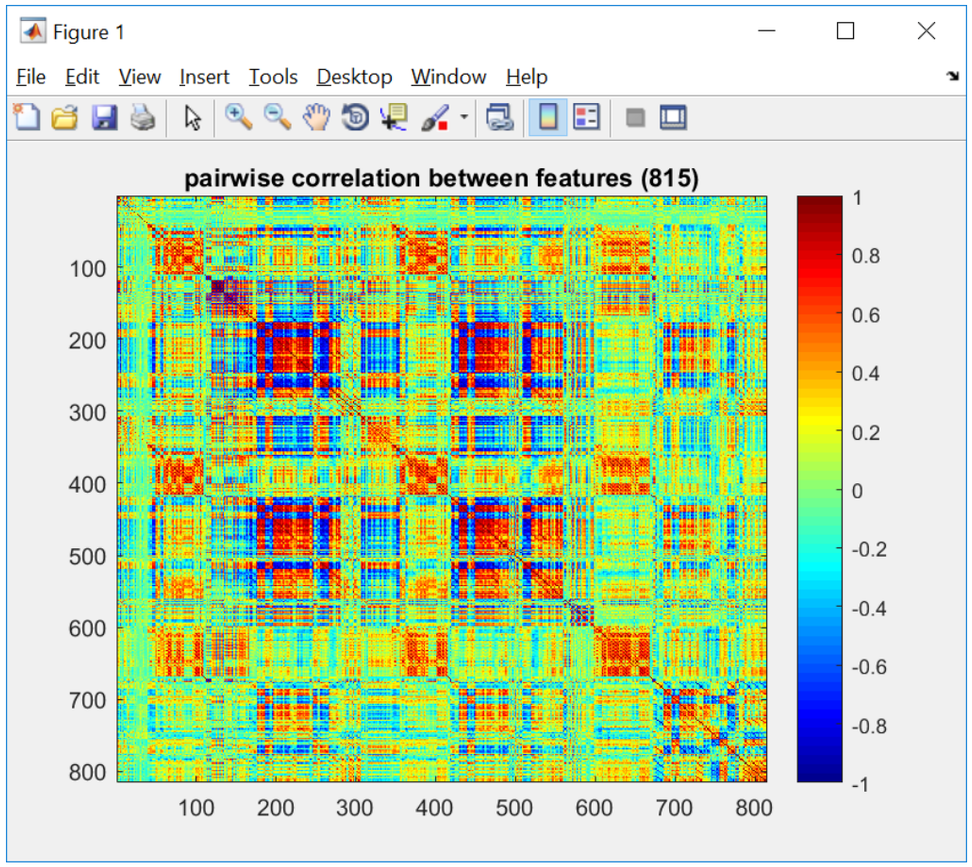
2

Feature Groups * Corr

Features are not equally important



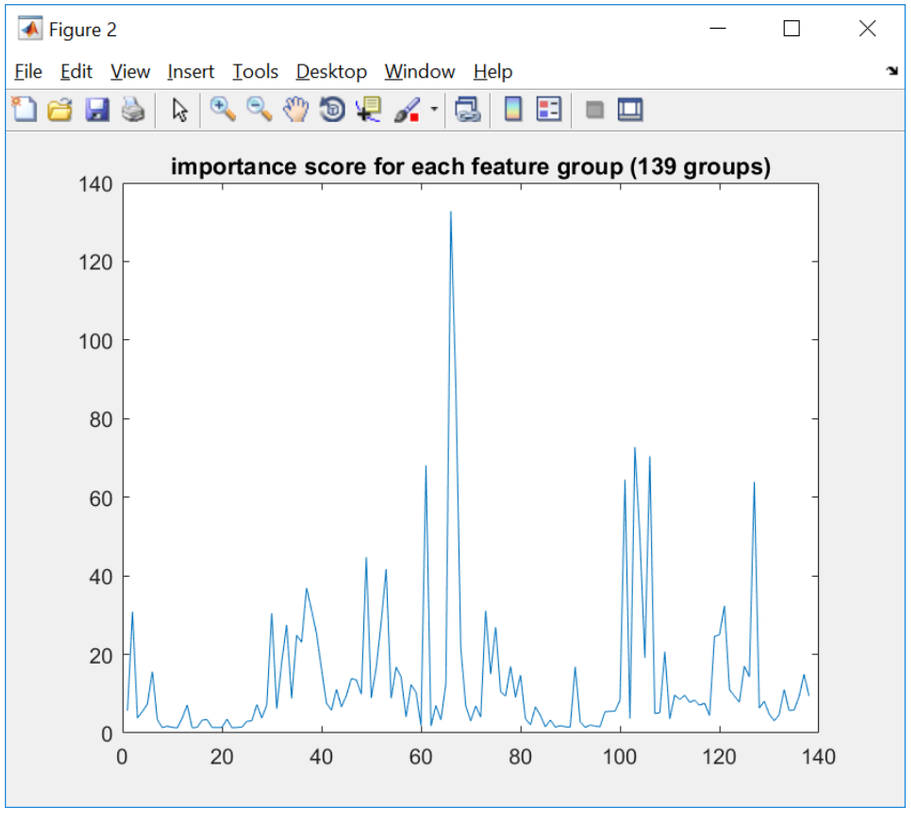
Features can be highly correlated

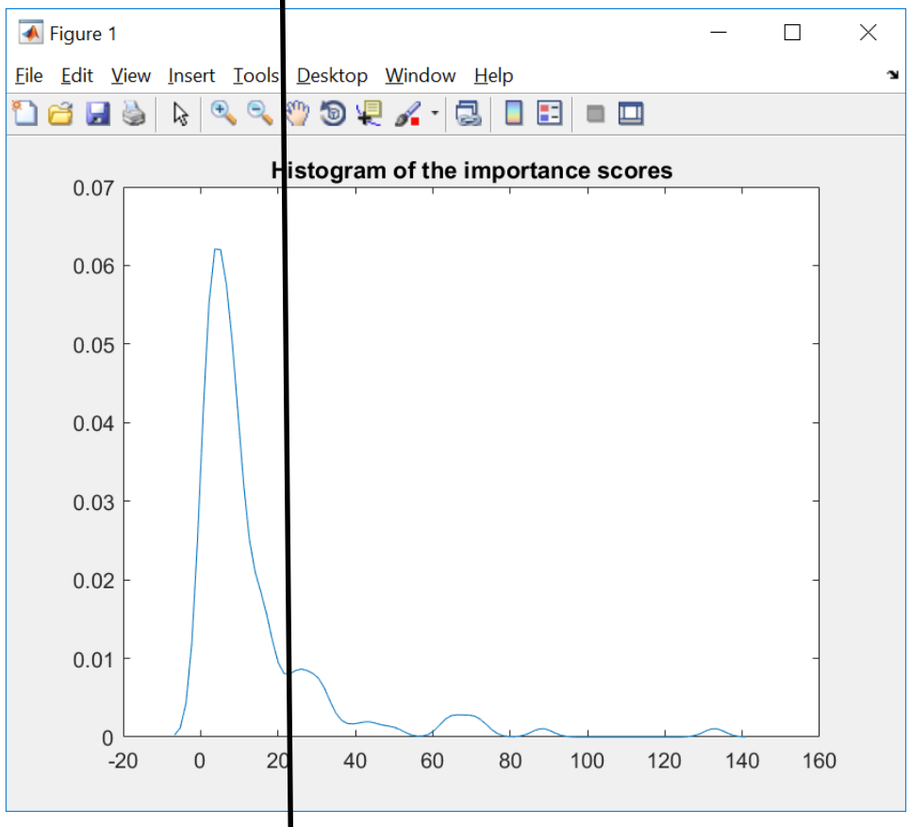


3

Feature red.
* Var

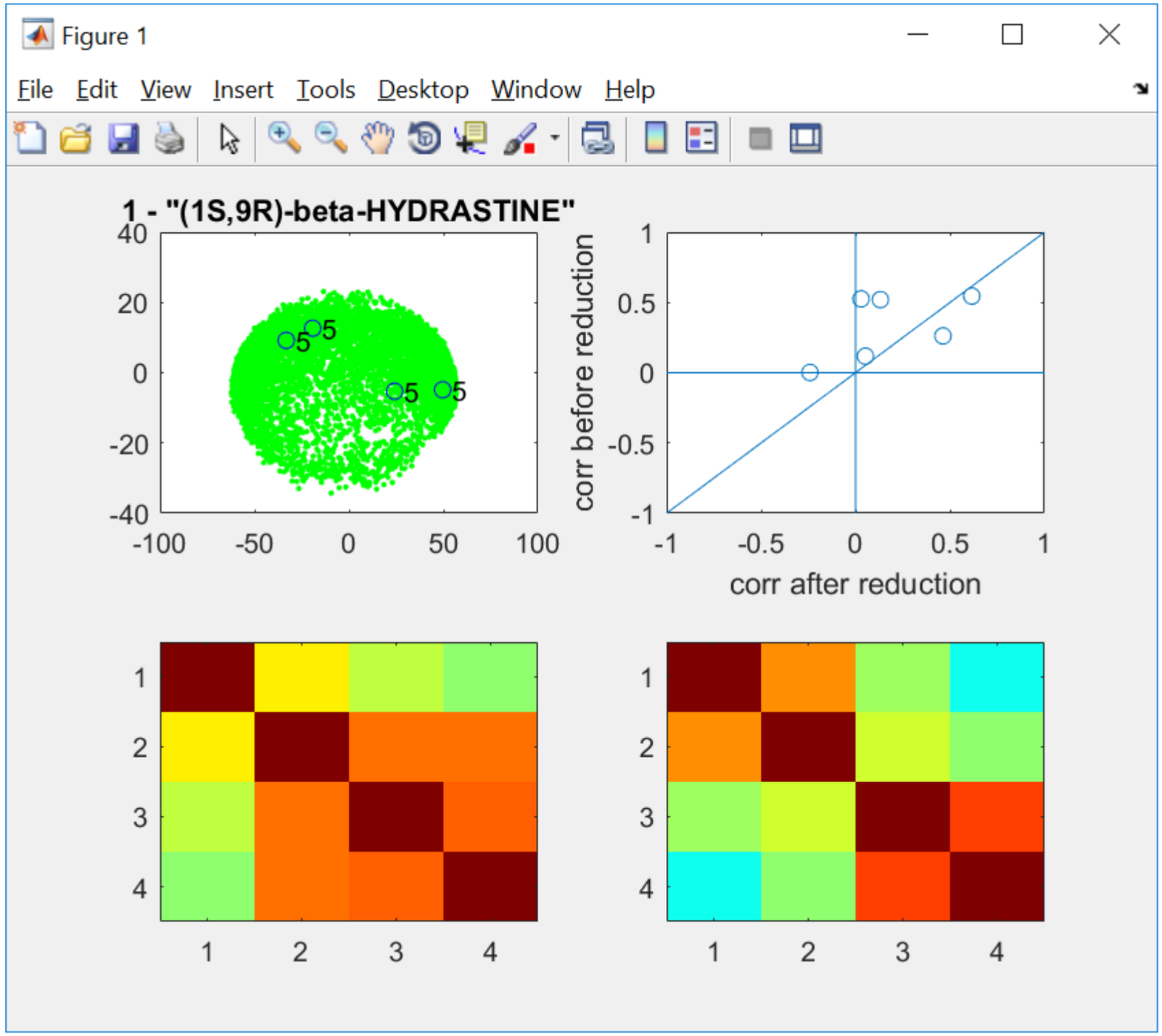
Group features based on correlation, 0.9
Selected important feature groups (26)





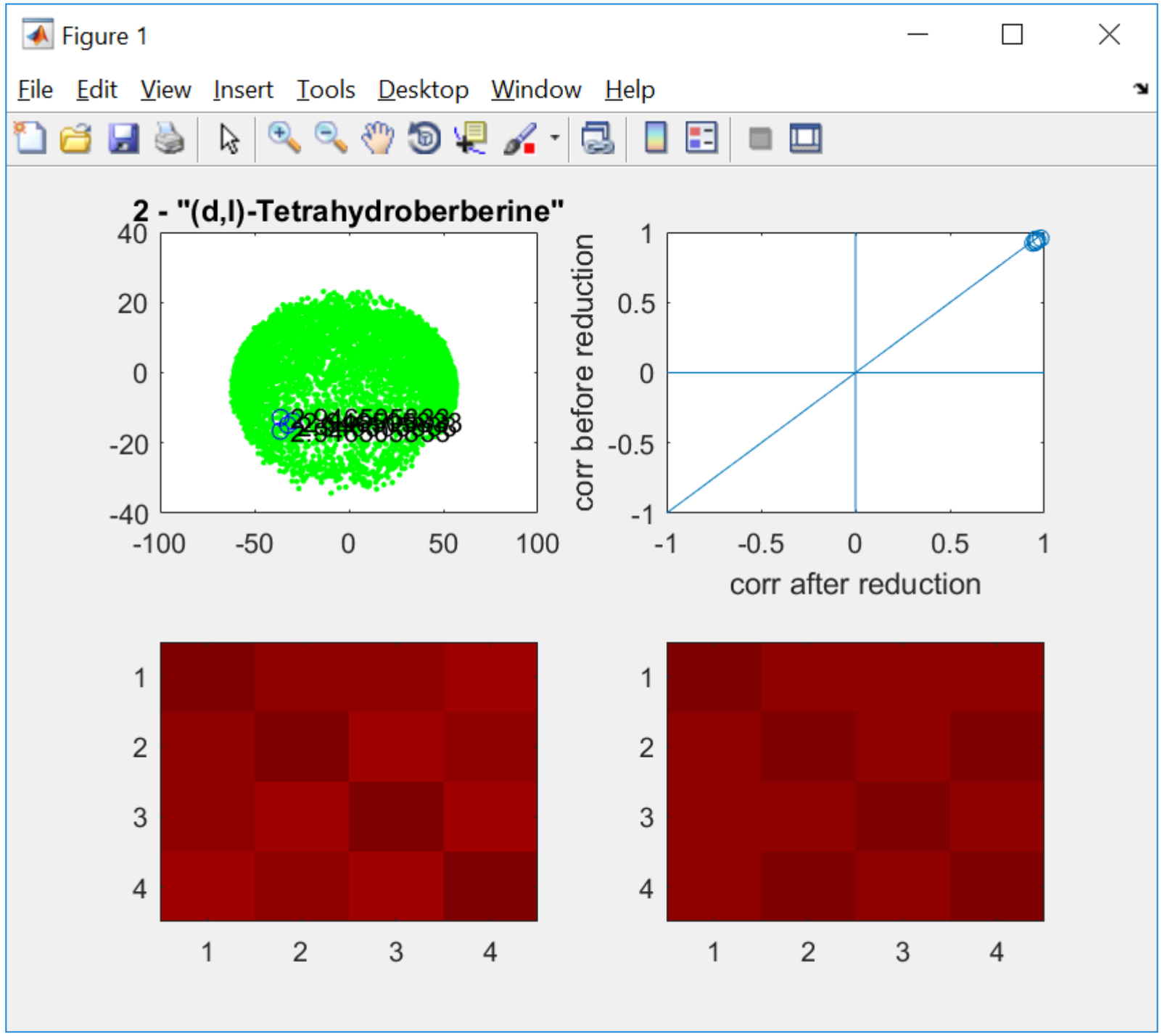
4

Evaluation



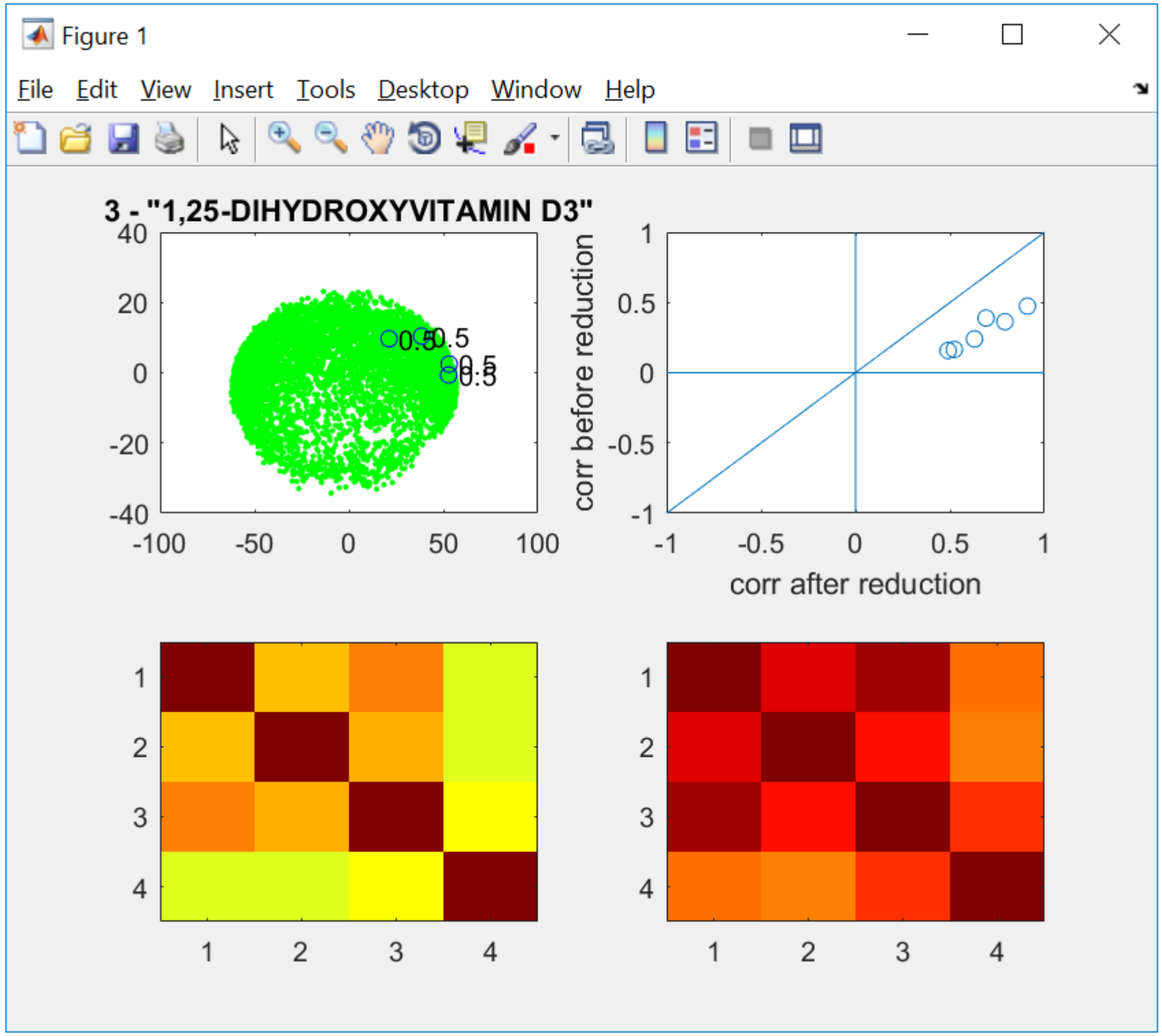
4

Evaluation



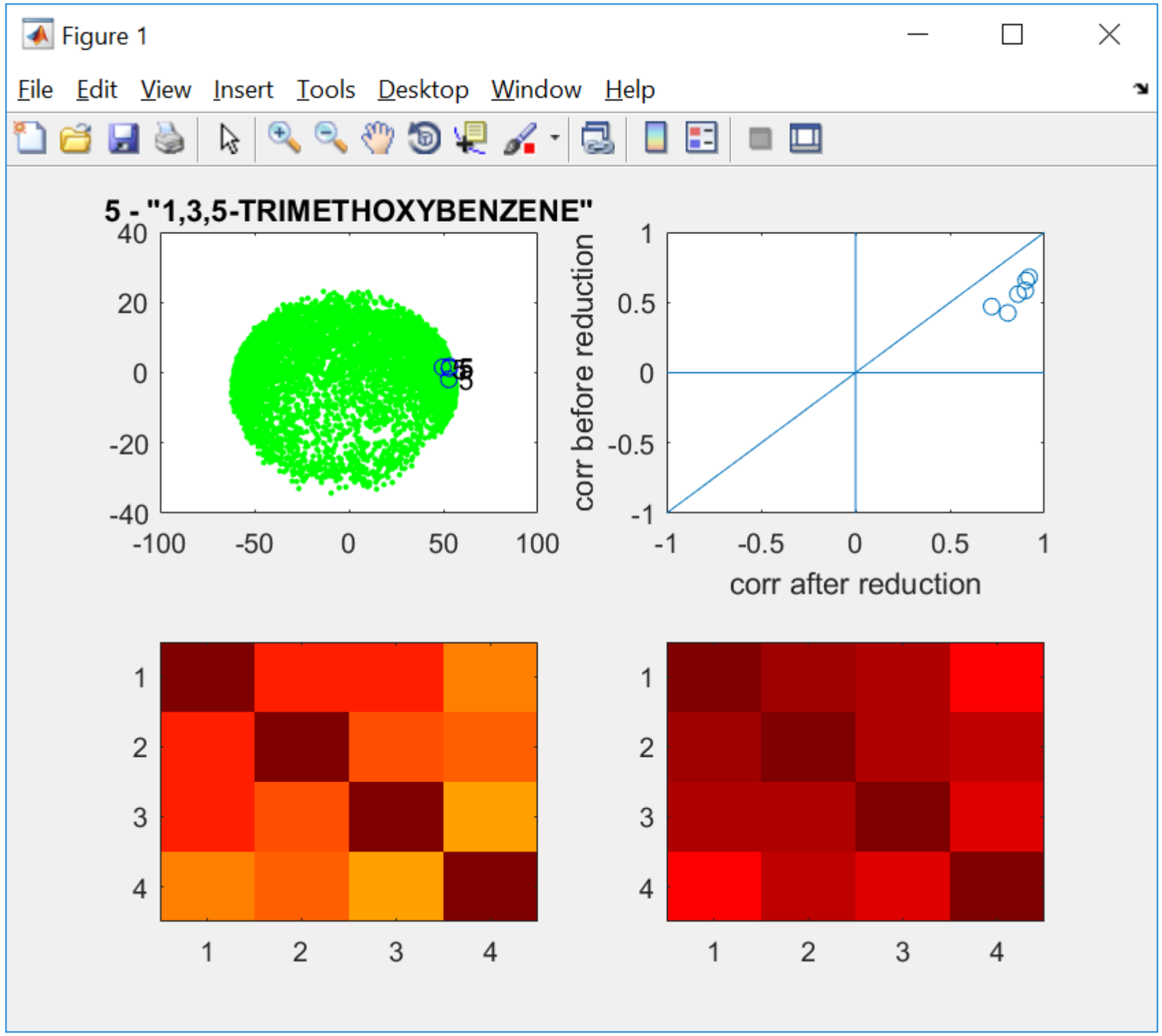
4

Evaluation



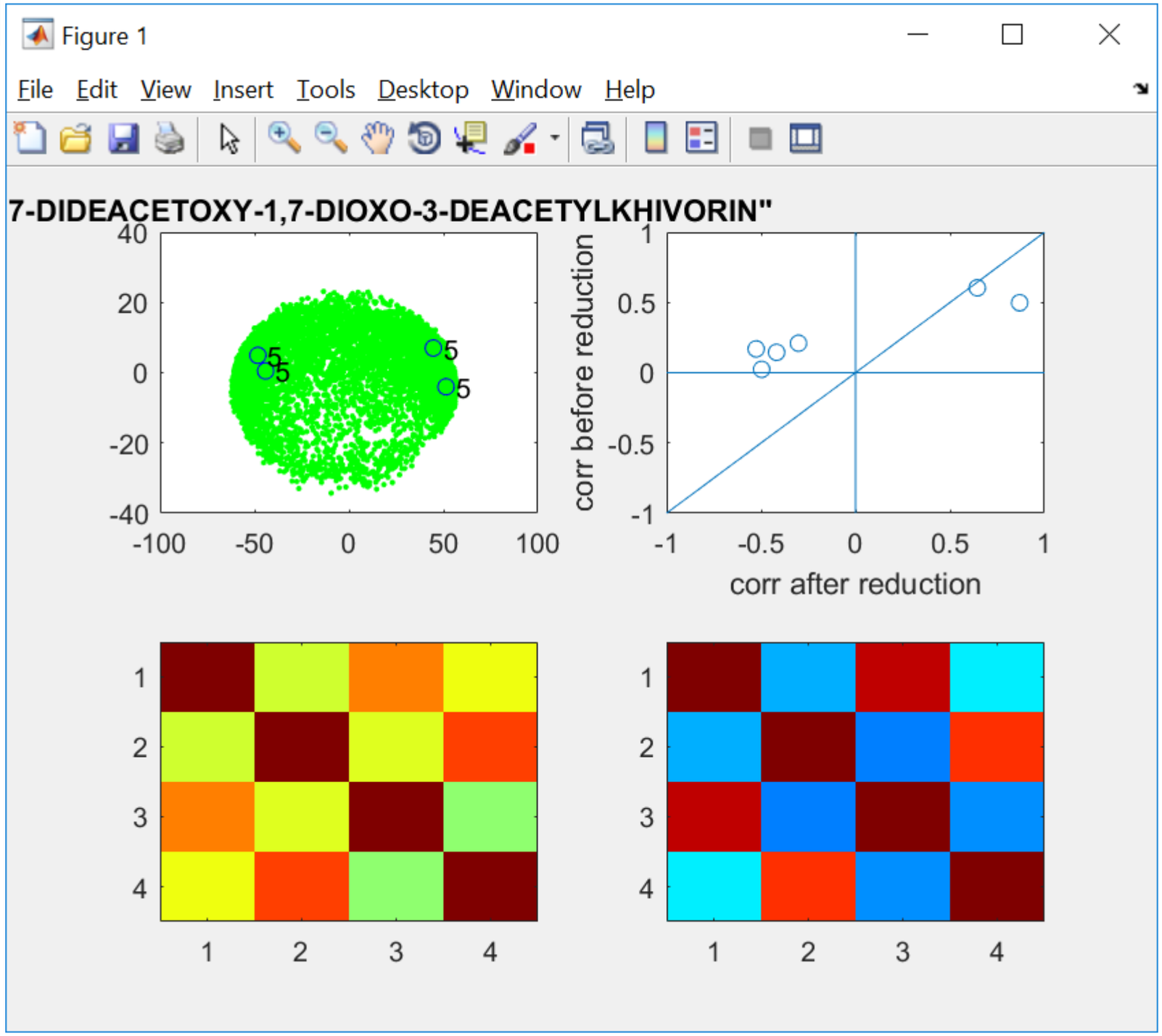
4

Evaluation



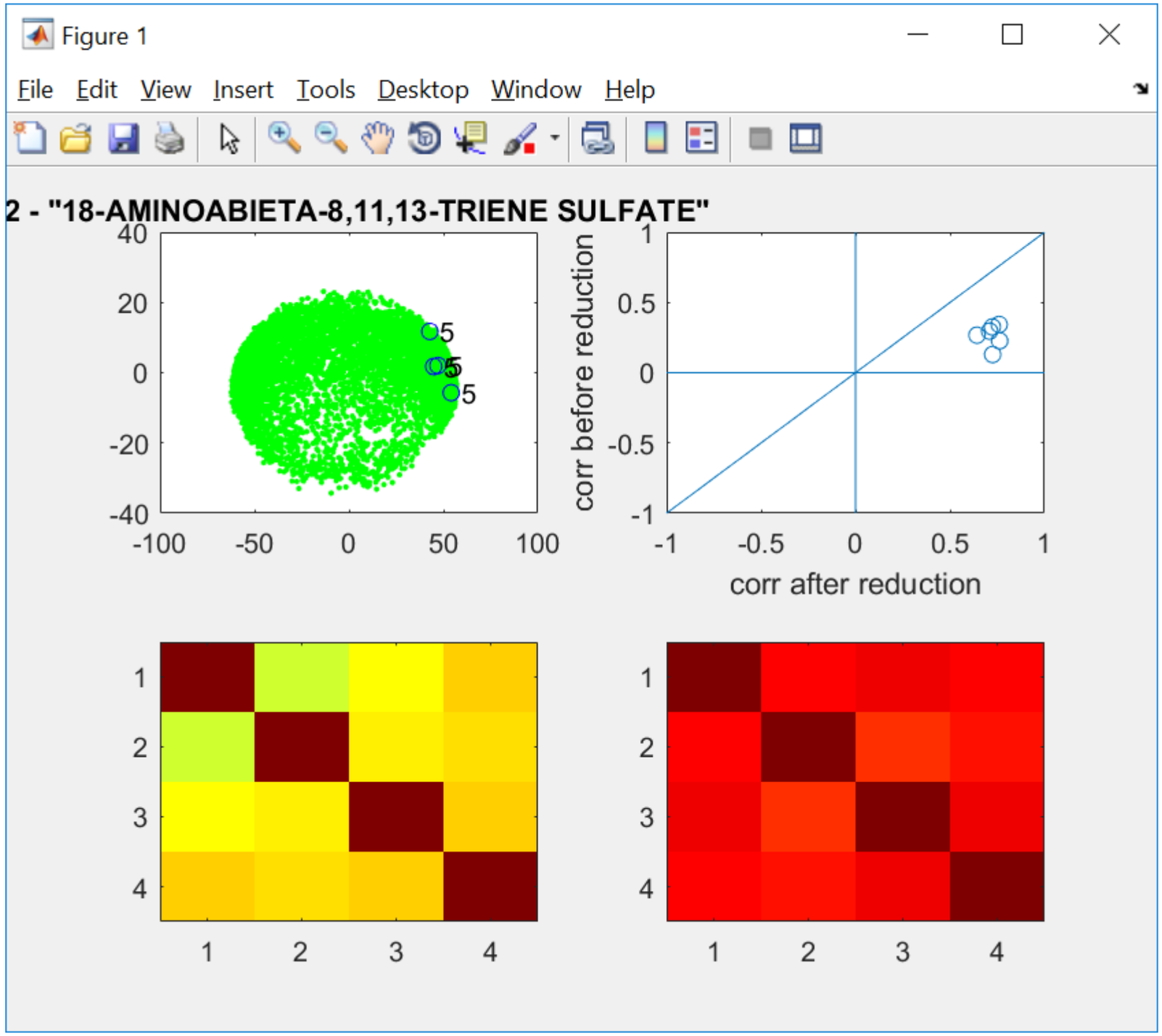
4

Evaluation

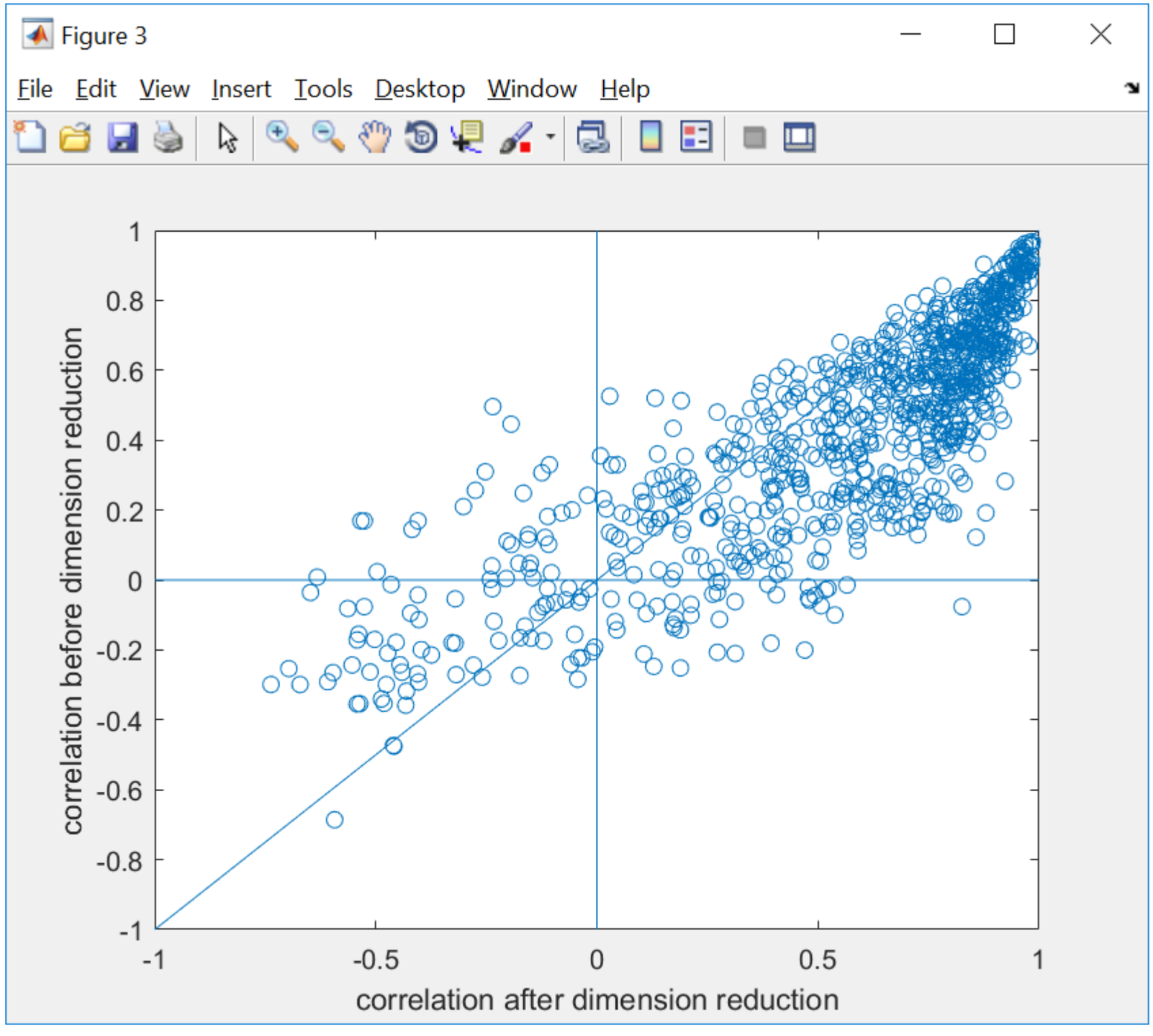


4

Evaluation



4

Evaluation

Is this helping? ☺ or ☹