Description of data files

Data files contain single cell data plotted in each respective figure. Contains p53 (au) expression data or kinase C/N ratios for respective figures. Data files also contain Names construct that contains the names for each condition, as well as a time array spanning 0-24 hours in 8 minute intervals.

Data files include:

* Figure1\_p53.mat
* Figure2\_ERK.mat
* Figure2\_JNK.mat
* Figure2\_p38.mat
* Figure3\_ERKLiveDead.mat
* Figure3\_JNKLiveDead.mat
* Figure3\_p38LiveDead.mat
* Figure3\_TanzisertibData.mat
* Figure3\_FHPIdata.mat
* Figure3\_RavoxertinibData.mat
* Figure6\_ERKinhibition.mat
* Figure6\_JNKinhibition.mat
* Figure6\_p38inhibition.mat

Plotting files contain script necessary to reproduce plots included in the manuscript listed by figure

* Plotting files include
* Plotting\_p53\_Fig1.mat
* Plotting\_ERK\_Fig2.mat
* Plotting\_JNK\_Fig2.mat
* Plotting\_p38\_Fig2.mat
* Plotting\_ERKlivedead\_figure3.mat
* Plotting\_JNKlivedead\_figure3.mat
* Plotting\_p38livedead\_figure3.mat
* Plotting\_Tanzisertib\_Fig3.mat
* Plotting\_FHPI\_Fig3.mat
* Plotting\_Ravoxertinib\_Figure3.mat
* Plotting\_JNKinhibition\_figure6.mat
* Plotting\_ERKinhibition\_fig6.mat
* Plotting\_p38inhibition\_p53\_figure6.mat

Additional MATLAB files for plotting include

* Barwitherr.mat
  + Produces bar graphs with included error bars. Created by Martina F. Callaghan and available in MATLAB file exchange
* Extractfeatures
  + Collects feature data from timecourse. Based upon findpeaks function within MATLAB
* Plot\_areaerrorbar2
  + Plots mean expression data of timecourse with shaded errorbars. Adapted from original plot\_areaerrorbar created by Victor Martinez-Cagigal. Added input parser and enabled plotting of NaN data for studying dead cells that drop from timecourse.