Chikungunya-USAMRIID

The clustergram shows log2 normalized proteomics data from the 12 samples. The initial view applies a log2 cutoff of 1, but this can be adjusted with the buttons. A dendrogram-like colorbar shows row/col groups. These can be adjusted using the sliders. The clustergram can be reordered using the Rank button or by clicking row/col titles.

We noticed that several collagens and collagen interacting proteins such as fibronectin are commonly up-regulated, and several keratins are commonly down-regulated. Searching for L1000 LINCS drugs that can turn on the expression of the keratin while suppressing the expression of the collagens was done in three ways: [up/down proteins](http://amp.pharm.mssm.edu/L1000CDS2/#/result/55c246e817c56aef005aeb29), [up/down collagens and keratins](http://amp.pharm.mssm.edu/L1000CDS2/#/result/55c2469e17c56aef005aeb27) identified in the samples, and [all known human collagens and keratins](http://amp.pharm.mssm.edu/L1000CDS2/#/result/55c252e317c56aef005aeb31). The most consistent drug across all these analyses is [homoharringtonine](http://pubchem.ncbi.nlm.nih.gov/compound/285033).