

Supplementary material

Figure s1

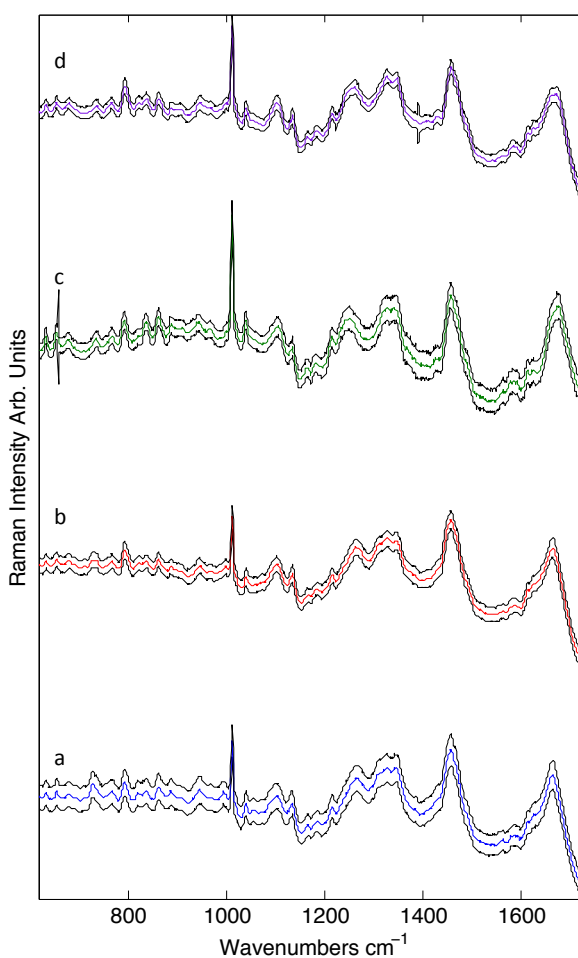


Figure s1: Average spectra and standard deviation of groups of HeLa cells in a) live, b) fixed, c) ethanol dehydrated, and d) rehydrated form. Visual changes can be seen in the Amide I band at  $1655\text{cm}^{-1}$  and the intensity of the Phe band at  $1002\text{cm}^{-1}$ .

Figure s2

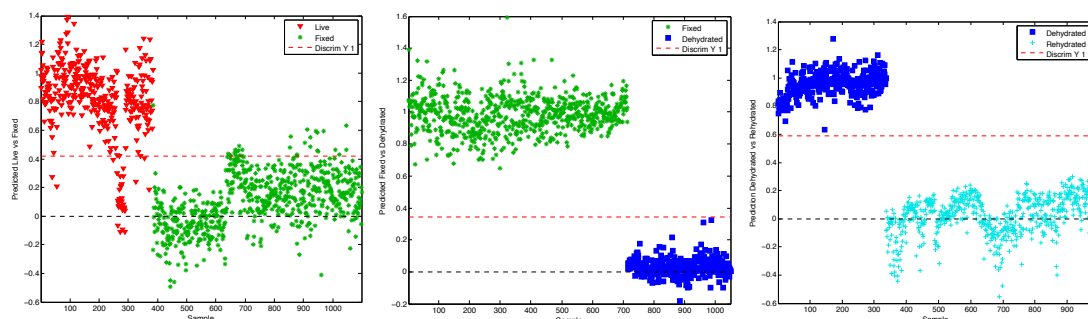


Figure s2: Resulting classification of cross-validated PLS-DA models for Live (red) vs Fixed (green), Fixed (green) vs Ethanol Dehydrated (blue) and Ethanol Dehydrated (blue) vs Rehydrated cells respectively (cyan). For each model the first class should be centered around 1 and the second around 0. For each model the red dotted line indicates the best decision line.