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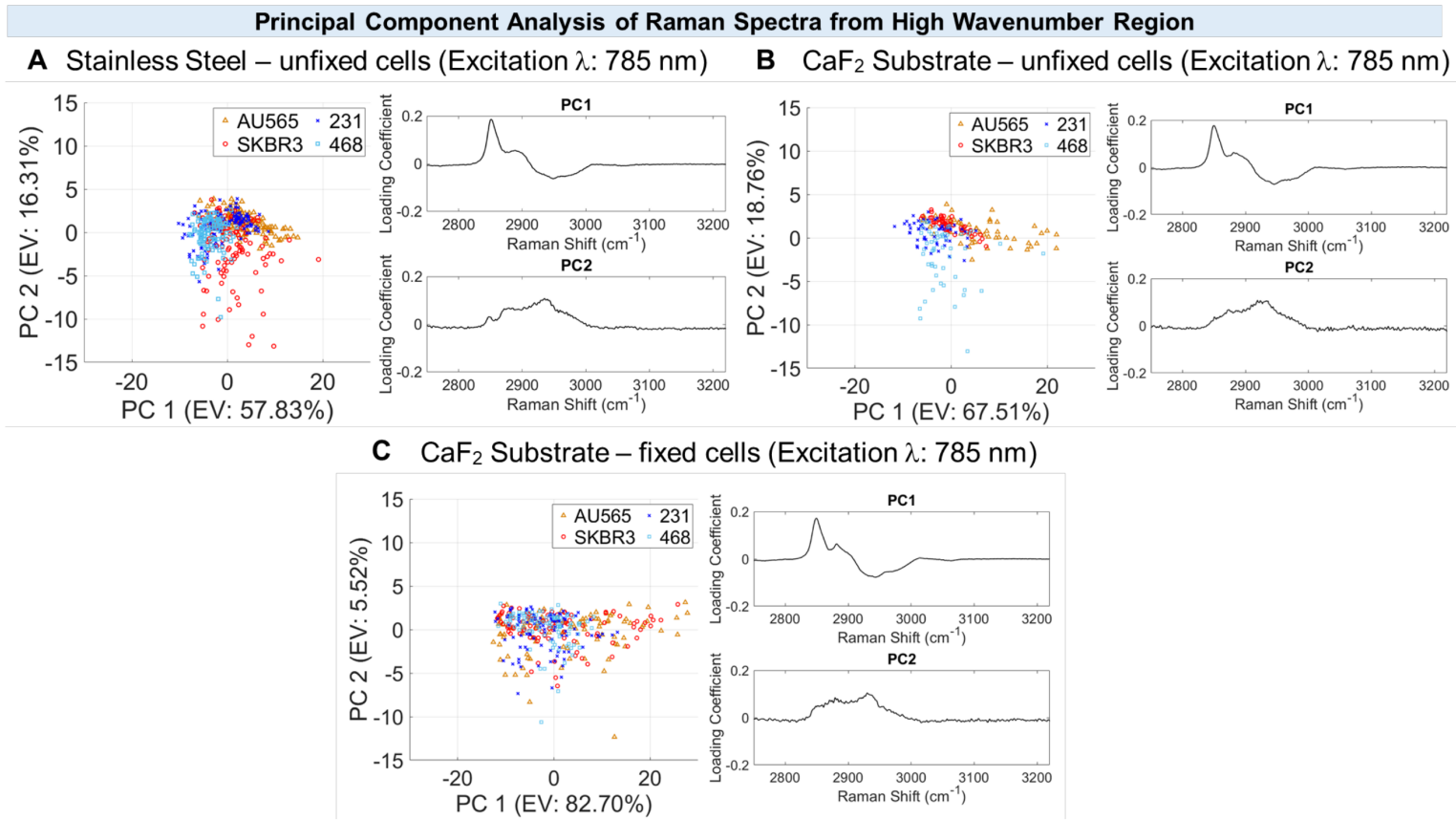

Supplementary Figure 3: Principal Component Analysis performed on high wavenumber Raman spectra obtained from (**A**) unfixed cells on stainless steel at 785 nm excitation, (**B**) unfixed cells on CaF_2 substrate at 785 nm excitation and (**C**) fixed cells on CaF_2 substrate at 785 nm excitation. Across all the three experimental conditions described, Principal Component 1 (PC 1) which was consistently characterized by spectral peaks related to lipids at 2850 cm^{-1}. PC1 contributed to 57.8% - 82.7% of the variances between the breast cancer cells investigated in this study.