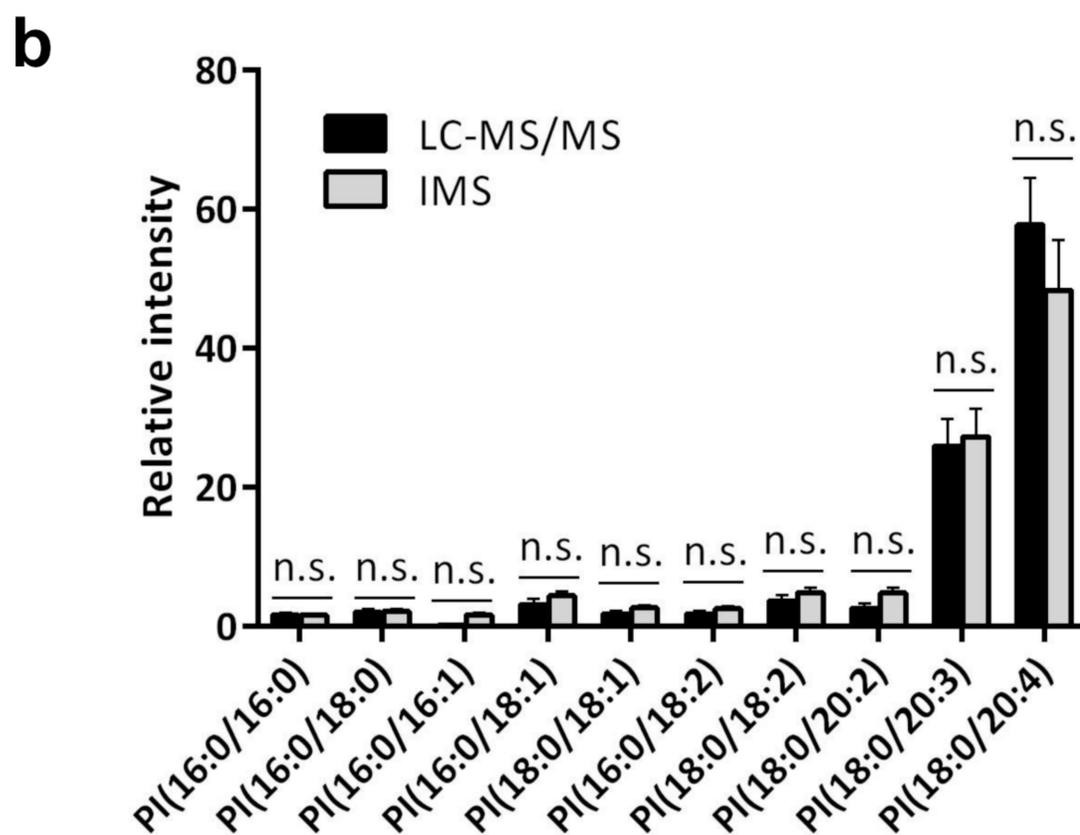
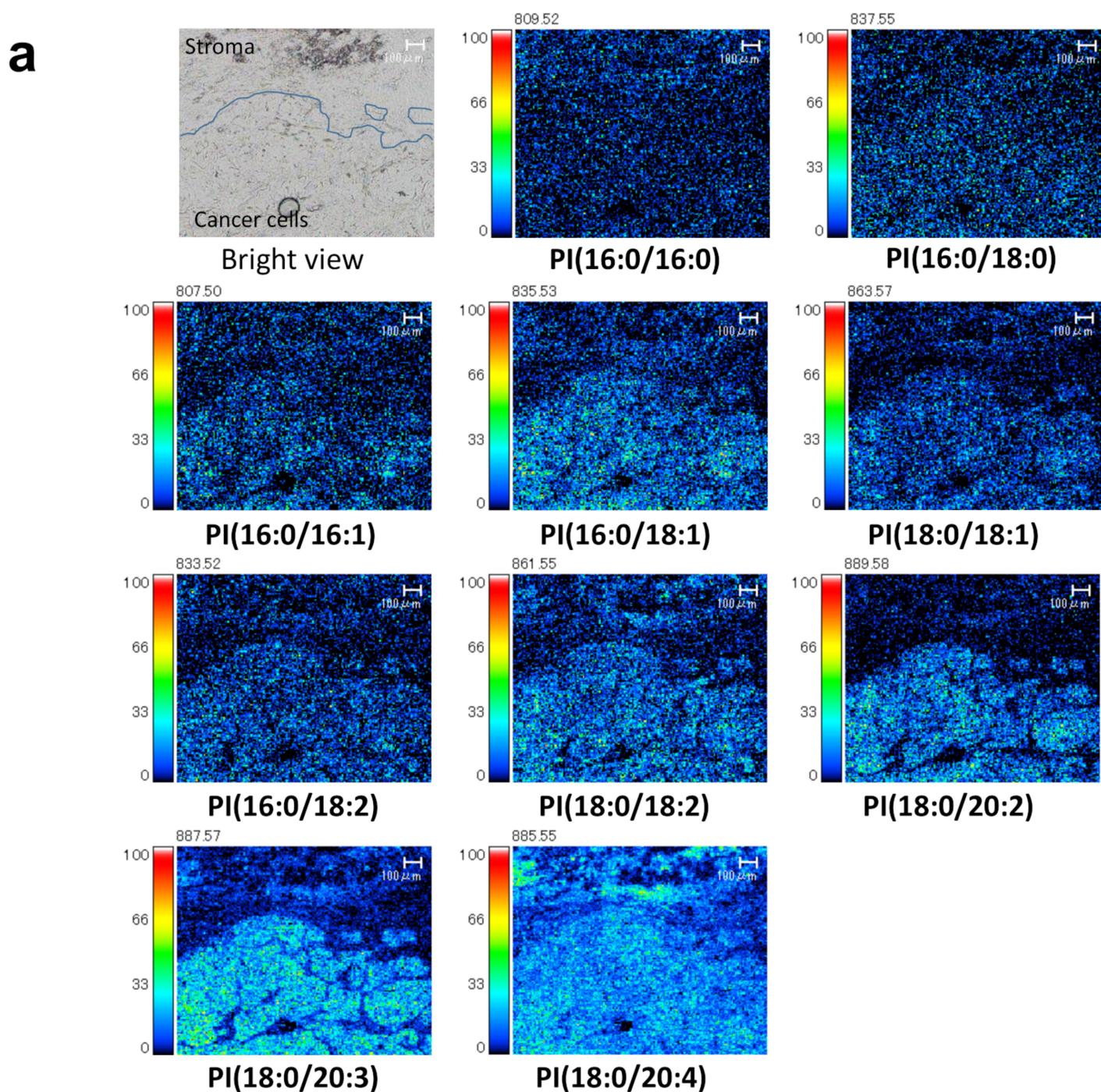


Fig. S1



a. histological mapping of PIs in the breast tumor obtained from the patient derived xenograft. Blue line in bright view indicates the border of cancer cell cluster and surrounding stroma. Relative intensity of ion signals is represented by an RGB scale. Scale bar (white): 100 μ m. **b.** Comparison between MALDI-IMS and Liquid chromatography (LC)-MS analysis of the same PDX-derived tumor. Two-way ANOVA with Sidak's post hoc multiple comparisons test. Error bar: SD.