

AN INNOVATIVE PLATFORM MERGING ELEMENTAL ANALYSIS AND FTIR IMAGING FOR BREAST TISSUE ANALYSIS

**Mohamed H. Ali¹, Fazle Rakib², Khalid Al-Saad², Rafif Al-Saady³ and Erik
Goormaghtigh⁴**

¹Qatar Biomedical Research Institute (QBRI), HBKU, Doha-Qatar.

²Department of Chemistry and Earth Sciences, Qatar University, Doha-Qatar.

³Pathology and Laboratory Medicine, Al Ahli Hospital, Doha-Qatar,

⁴Center for Structural Biology and Bioinformatics, Laboratory for the Structure and Function of Biological Membranes, Campus Plaine CP206/02; Université Libre de Bruxelles CP206/2, B1050 Brussels, Belgium

Supplementary Materials

Figure S1 displays the distribution of 9 elements in 6 breast tissue sections.

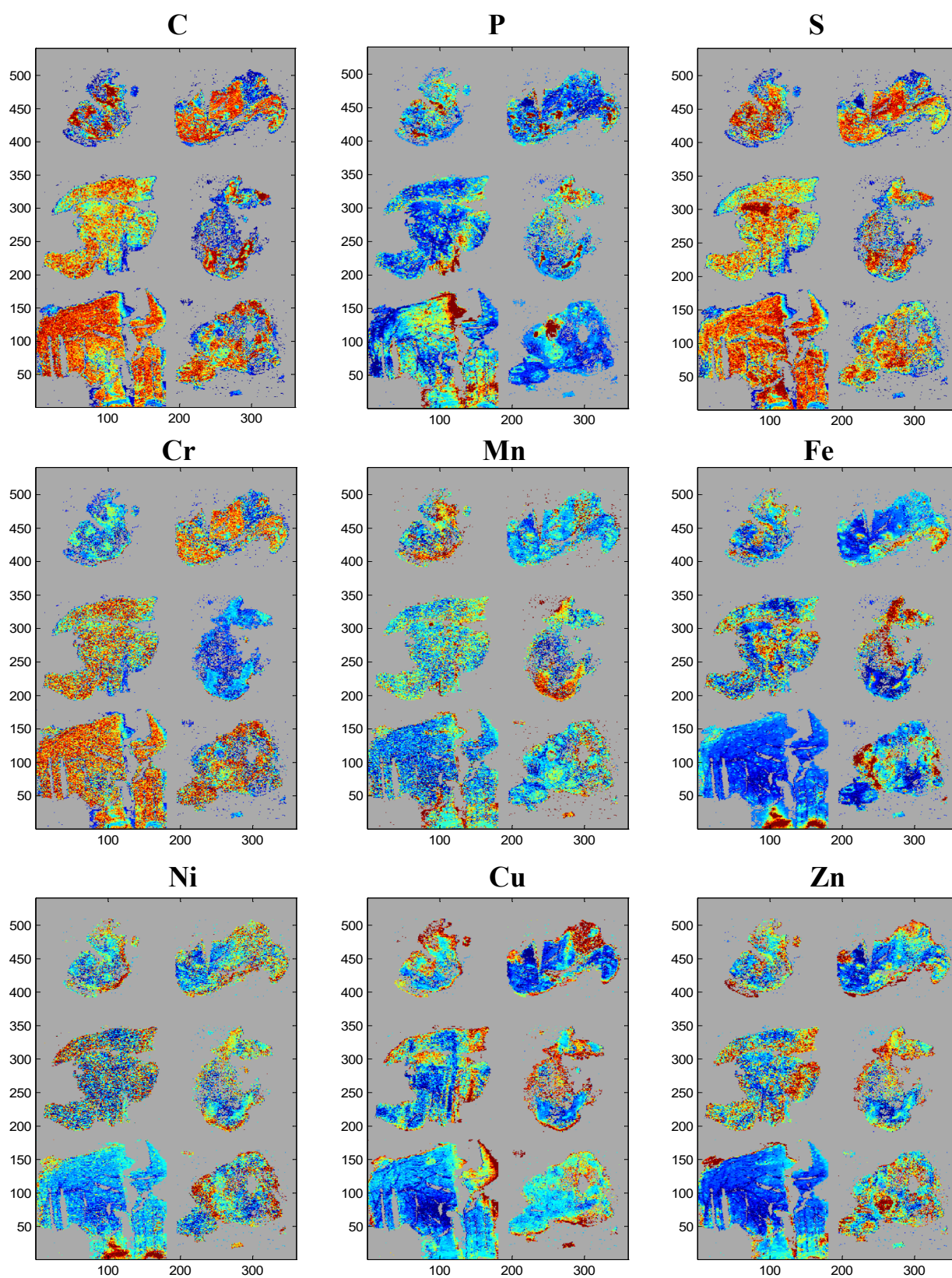


Figure S1: distribution of ^{13}C , ^{31}P , ^{34}S , ^{52}Cr , ^{55}Mn , ^{56}Fe , ^{58}Ni , ^{63}Cu and ^{64}Zn for 6 breast tissue sections. Using the ^{13}C map, values below -0.2 were filtered out and displayed in grey. The rest of the scale between blue and red cover a percentile 95 of the values. The remaining 5% of the values were set at the minimum or maximum values found for 95% of the values