

Human Breast Cancer: Imitating Histo-pathology with Small-angle X-ray Scattering and Diffraction Enhanced Imaging

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Each tissue in the breast has its own small-angle scattering (SAXS) pattern, directly related with their molecular structure. The molecular structure is altered by cancerous pathology, which can be detected by SAXS. Diffraction Enhanced Imaging (DEI) is an imaging technique very sensitive to tissue boundaries (large scale). Different breast tissues have been studied by SAXS and DEI and the results compared and correlated with their histopathology.