Sustainability for Melanoma Diagnosis Disease State from Patient Samples Using Photoacoustic Flow Cytometry

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The use of Photoacoustic Flow Cytometry (PAFC) has large potential in the diagnostic field ranging from various cancers and contagious disease. PAFC can provide insightful feedback regarding disease state in a matter of 15-20 minutes, with highly specific detection. This feedback may then be used by doctors for accurate understanding and diagnosis of patient status. Additionally, the PAFC system can serve as a sustainable system preserving samples for future testing with little to no waste. With little sample preparation and minimum materials, PAFC has potential to serve as a widely used diagnostic with sweeping capabilities.