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TITLE: Proteomic Analysis to Identify Novel Circulating Breast  
Cancer Markers

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## **Introduction**

The purpose of our proposed work is to study differences in serum protein expression profiles between healthy women and women with breast cancer, and to discover novel tumor markers. We intend to generate proteomics spectra on serum samples from 100 healthy women and 100 breast cancer patients. The goal of this analysis is to identify serum proteomic patterns using a matrix-assisted laser desorption ionisation that can distinguish women with breast cancer from healthy women. The origin and full identity of the discriminating proteins or peptides will be investigated.

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## **Body**

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## **Key Research Accomplishments**

N/A

## **Reportable Outcomes**

N/A

## **Conclusions**

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## **References**

N/A