

East Virginia Medical School (EVMS)

Objective

Apply an integrated multidisciplinary approach based on mass-spectrometry (MS) technology to mine the cancer proteome for unique cancer biomarkers and protein expression fingerprints that can be used to improve the early detection of prostate cancer.

Program Description

The EVMS BDL is composed of a multidisciplinary group of investigators focused on development and application of novel proteomic tools to examine the phenotypic traits of tumors and/or the tumor environment in search of protein biomarkers for early detection and risk assessment of cancer. Among others the group developed a unique proteomic tools, such as ClinPort UltraFlex (MALDI-TOF/TOF) for biomarker discovery.

Specific Aims

- Further Develop and determine the clinical utility of protein profiling as a diagnostic test
- Discover protein biomarkers for early detection of cancer
- Isolate and characterize biomarkers

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