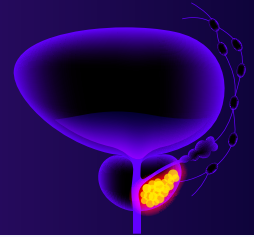


## CASE STUDY

# Machine Learning: Diagnostic of Prostate Cancer Status



## Client



**Industry**  
Biotech



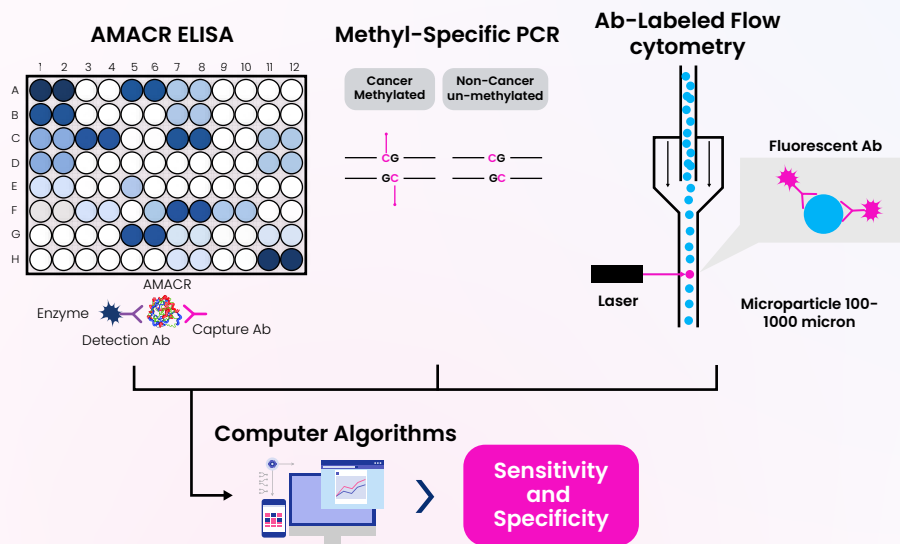
**Location**  
US, East Coast

## Objectives

- Improve the current standard of care for prostate cancer screening (blood Prostate Antigen) which is unreliable
- Avoid unnecessary biopsies which cause bleeding, infection, urinary retention, and additional costs to the healthcare system

## Our approach

- AI/ML using new semen sample analysis which contains a panel of heterogeneous biomarkers
- Ensemble learning: Deep Neural Network, Gradient boosted based on decision trees, etc.



**Fig:** Assays and analysis process

## Results

- An integrated approach to classify different forms of prostate cancer
- Automated diagnostic tool for cancer diagnostic: Biopsy vs No Biopsy
- Assessment of different forms of prostate cancer.