Point-of-Care HPV Diagnostic Refinement

SenSIP Algorithms and Devices REU

ABSTRACT

- Evaluation of different materials to produce the diagnostic assays.
- Calibration of the portable scanner to read the assays.
- Decreased time required to run the diagnostic.

MOTIVATION

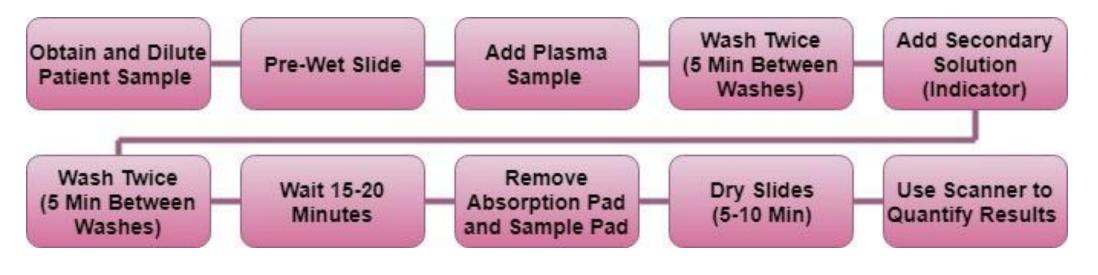
 Low resource and austere areas of the world require low cost, rugged, medical diagnostics

• HPV16 and HPV18 are very common and can lead to cancer in both men and women.

• People of every social status and socioeconomic realm deserve to know their health status.

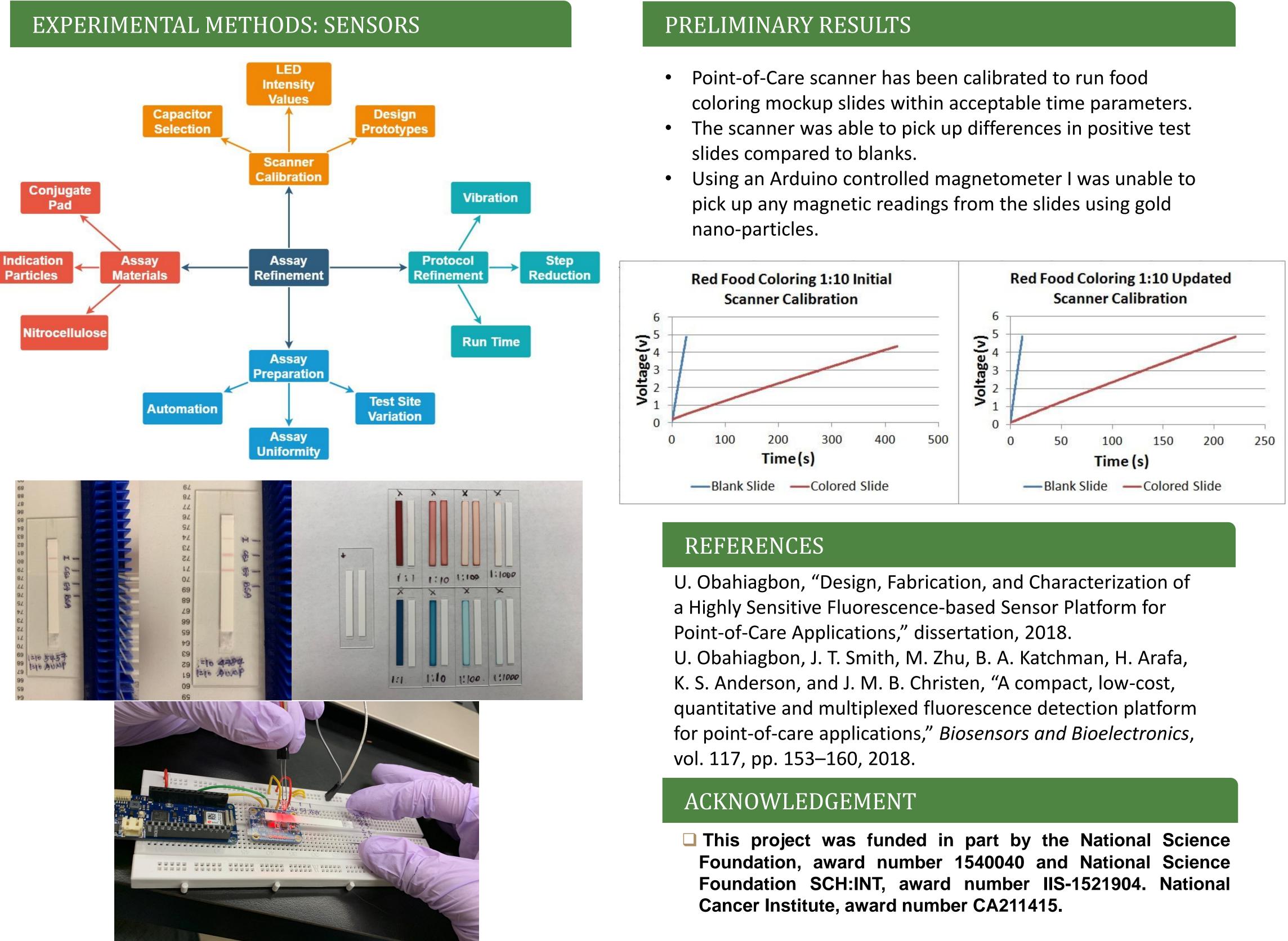
PROBLEM STATEMENT

• The current assays require too many steps and are too complicated to be considered Point-of-Care.





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Algorithms.



