Monthly Status Report

Q5 project

November 2005

1. Statement of Progress

Plans with Dartmouth about visit to Adopter Site finished.

Problems with processing prostate cancer dataset arose – synthetic experiment with spiked in peptides designed as a replacement.

MALDI Dataset from Vanderbilt processed through RProteomics and run through Q5 algorithm.

Raw interpolated MALDI data from Vanderbilt run through Q5.

2. Progress Description

Task 1.3: Regular communications to share project information

Major Accomplishments:

- November 7: Discussed status of SRSD and test approach documents. Also discussed agenda items for Developer visit to Adopter site.
- November 21: Internal meeting to discuss meeting agenda items
- November 21: Discussed problems with prostate dataset and design of synthetic dataset and finalized agenda for site visit

Activities Planned for next month

- Developer visit to Adopter site
- Discussion of preliminary test results comparing current Q5 algorithm with Matlab version

Task 2.6: Develop a test plan for caBIG Q5 that outlines how the software will be measured against the documented requirements

Major Accomplishments:

- Designed synthetic dataset to be generated by proteomics facility in order to test Q5 algorithm

Activities Planned for next month

Run both raw and unprocessed synthetic data through Q5.
Meeting with Dartmouth to discuss tests on synthetic data

Task 2.7: Test Q5 code that has been ported from Matlab to R

Major Accomplishments:

- Vanderbilt Data analyzed and processed through preliminary steps in RProteomics pipeline
- Vanderbilt paper reviewed to understand preprocessing steps

Activities Planned for next month

Compare results of Matlab version of Q5

Task 2.9 – Test the user interface and API for fully implemented caBIG Q5

Major Accomplishments:

- Q5 R Package installed and current revision of code read and evaluated Code written to randomize test/training set splits to Q5 algorithm
- Processed Vanderbilt Data run through Q5 algorithm
- Raw Data Run through Q5 algorithm
- Petricoin SELDI data run at similar proportions to Vanderbilt data

3. Issues and Risks

[Describe risks identified during the month along with mitigation strategies and status.]
None

Submitted by:

Ted Laderas_____ _12/2/05_____
Signature Date

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Name (please print)

Technical Lead, Oregon Health & Science University_____
Title/Organization