Monthly Status Report

caBIG Q5 Project

February 2006

1. Statement of Progress

During February, Dartmouth/NCCC members of the Q5 Team communicated with OHSU, as well as held internal meetings to discuss project updates.

2. Progress Description

Task 1: Project Management

Major Accomplishments:

- Internal meetings/communications for project updates (2/3, 2/21) - Paul Courtney, Dave Jewell, Todd Holden, Josh Gilbert, Jason Moore
- Communications with OHSU-Teleconferences (2/7, 2/14)
- Communications with BAH about project deliverables (2/6, 2/7, 2/14, 2/21, 2/28)
- January Monthly Status Report compiled and submitted

Activities Planned for next month

- Compile and Submit February Q5 Monthly Status Report
- Submit Test log for February and Lessons Learned for Q5.
- Follow up on getting approval for Milestones submitted.

Task 2: Project Activities

Major Accomplishments:

- Received results of an examination of Q5 on the synthetic data set on 2/10 that pointed to there being a flaw in the migration of Q5 from Matlab to R. The analysis indicated that Q5-R did about as well as flipping a coin, and obviously much worse than the Matlab implementation. Josh Gilbert asked for and received from OHSU the data files and procedures/scripts used by OHSU in their testing for both Matlab and R. By 2/15 Josh had reworked and corrected the R script and the new package (Version 3.0) was uploaded 2/16. On 2/17,

Ted Laderas sent results of the examination of Q5 indicating that the performance was much improved and on par with the original Matlab implementation.

- Agreed that someone from the Dartmouth group would be available to participate in a demo of Q5 at the caBIG Annual Meeting

Activities Planned for next month

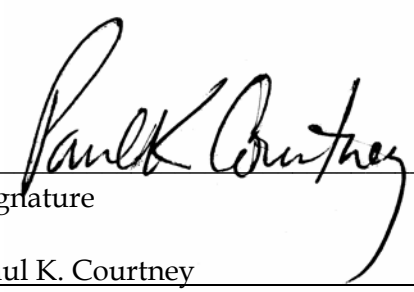
- None

3. Issues and Risks

Risk/Issue	Mitigation	Status
Slippage in meeting milestones.	Clarify and resolve any reasons for such slippage; reschedule deadlines.	Closed
There is a lack of data for OHSU and Dartmouth to use to validate Q5. Vanderbilt data is not forthcoming. This is becoming a more serious issue as time goes on.	Shannon will pursue other sources. In addition, OHSU will be producing their own prostate data that will be available in the October.	Closed.
MALDI-TOF data may have far too many features measured compared to samples for Q5 to work at all. Q5 was developed and validated with SELDI data where this was not an issue.	Pre Processing of datasets using RProteomics tools of which OHSU is aware. Outside scope of this project.	Closed
MALDI-TOF datasets may be so large that there may be memory issues even without the algorithm-limiting issues mentioned above and the use of 64-bit machines.	Pre Processing of datasets using RProteomics tools of which OHSU is aware. Outside scope of this project.	Closed
Because the proteomics LIMS was not part of FCCC's tasks this last year and yet it was on the task list of Q5, there is no target system towards which Q5 can be built for interoperability. This means that we would not get any money for that task.	Work with BAH on alternatives: • Documentation Only of how interoperability would work. • Develop basic interoperability based on piloting the early efforts of FCCC prior to end of Q5 at end of February 2006.	Open

R-Q5 analysis of Adopter data is worse than Matlab-Q5 analysis, which seems to show a difference in implementation.	Dartmouth and OHSU will work together to understand the reasons for differences in results and adjust the R-scripts to give similar if not better results than Matlab.	Closed

Submitted by:



Signature

3/1/2006
Date

Paul K. Courtney
Name (please print)

Project Manager/ Dartmouth/NCCC
Title/Organization