WHITEHEAD INSTITUTE

Ms. Barbara J. Lewandowski
Contract Specialist
Acquisition and Assistance Group
Department of Energy
Chicago Operations Office
9800 South Cass Avenue
Argonne, IL 60439

July 29, 1999

Re: Closeout of Cooperative Agreement No. DE-FC02-98ER62637

Dear Ms. Lewandowski:

Enclosed please find, as requested, the following items.

1. Equipment-related questions per Attachment No. 1
2. Final report describing the systems built to date, their status, and cost to build
3. DOE F 241.1
4. Final inventory of all equipment acquired with DOE funds under this agreement

This completes the items requested for the closeout of the Cooperative Agreement No. DE-FC02-98ER62637 per your letter. Please let me know if I may be of further assistance. If you have questions concerning the materials enclosed, please contact me by phone at (617) 258-5106, by fax (617) 258-6294 or e-mail leonard@wi.mit.edu.

(pulled as backup item)

Sincerely,

Regina M. Leonard
Manager of Research
Grants and Budgets

cc: Dr. Eric Lander
Dr. Lauren Linton

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Attachment No. 1

Final Report Details

Whitehead Institute
Cooperative Agreement No. DE-FC02-98ER62637

1. How many Qbot's were purchased?

One
2. What platforms and how many of each type were constructed, e.g., purification desk?

Purification - 1
Thermocycling - 1
Base - 1
3. For each platform, what equipment items listed in the invoices submitted by Whitehead under this agreement were used in its construction?

See attached Final Built-to-Date worksheet.

DOE Patent Clearance Granted
MP Dvorscak April 23, 2002
Mark P Dvorscak Date
(630) 252-2393
E-mail mark.dvorscak@ch.doe.gov
Office of Intellectual Property Law
DOE Chicago Operations Office

Final Report Details

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For each machine, the following topics are to be addressed:

1. The current state of each machine, including whether it is a complete unit or not.

3 Machines that were built:

Purification workstation – incomplete

Thermocycling workstation – incomplete

Base station – incomplete

Work was suspended in mid-January after JGI indicated that it was not interested in ordering the machines and Whitehead was informed that it was likely to need to move to construction of the second generation high throughput system in connection with its expanded sequencing project. The project can be revived by JGI to continue with development, but we have had no indication of interest by JGI. Accordingly, we suspended all work in order to conserve DOE funds. We have continued all other aspects of the project to build the planned sequencing pipeline, but have focused on the second-generation system. Work is proceeding well.

2. If the machine, or parts of it, were tested operationally, - the data produced (for example, production rates), the quality of the product assessed and a comparison with traditional methods.

The Purification workstation was tested and successfully demonstrated performance of protocol, see attached data. All work on the timing optimization of the Purification workstation was then suspended. The remaining projects were suspended before complete to conserve DOE funds and thus were not tested.

3. The cost of each machine as is (March 31, 1999)

See attached Built-to-date worksheet for cost.

4. For any machine(s) not completed, the cost incurred to date and the projected cost to complete each machine.

See attached Built-to-date worksheet for cost.

Cost to complete: This would need to be negotiated with vendor, in view of suspension.

5. Cost associated with duplicating each of the machines

This would need to be negotiated with vendor, in view of suspension.

Purification Workdeck Data

Plasmid data generated on the IAS purification workdeck

Plate 1) 85.4% 692RL/502 Q20

Plate 2) 91.6% 711RL/571 Q20

Plate 3) 77.0% 660RL/513 Q20

Plate 4) 90.6% 704RL/552 Q20

Plate 5) 82.3% 645RL/472 Q20

Average 85.4% 682RL 522 Q20

These pass rates and readlengths exceed our average at WI.

These were sequenced with 1/4X Big Dye Terminators on a 377 ABI DNA sequencers

M13

Plate 1) 94% 754RL 639 Q20

This plate of M13 data was sequenced with ET primers through our Production process and the pass rates are average in comparison to WI data. This was a 10 hour run on a ABI 377 DNA sequencer.

See Below for gel images.

File Analysis Show Zoom

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