

United States NIH/NCI BBRB – Biobank Economic Modeling Tool (BEMT) Survey

United States NIH/NCI BBRB – Bi...

 National Cancer Institute

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SAVE DATA & EXIT SURVEY

United States NIH/NCI BBRB – Biobank Economic Modeling Tool (BEMT) Survey


Introduction

 8%

OMB No. 0925-0589
Expiration date: 4/30/2014

 **CDP**
Cancer Diagnosis Program

 **DCTD**
Division of Cancer Treatment and Diagnosis

 **BBRB** Biorepositories and Biospecimen Research Branch

Dear Colleagues,

Thank you for your interest in this important survey.

This survey includes detailed questions about cost and pricing considerations relevant to operating and managing a biobank. Your time and thoughtfulness in completing the survey is greatly appreciated. Please note that your name and any other identifying information that you enter regarding your biobank will be removed from the aggregated data used to develop the online Biobank Economic Modeling Tool.

It is important that we receive your survey responses no later than "*date pending*." Please note that one of the project team members may contact you after your completion of the survey in order to clarify some aspects of your responses.

On behalf of the entire BBRB and BEMT project team, we thank you in advance for your participation in this survey. Your thoughtful and complete responses will enable the building of a knowledge base in biobanking economics from which the entire biobanking community will benefit. Please feel free to contact Lisa Miranda by email at lisabmiranda@proviolabs.com with any questions.

Sincerely,

Helen M. Moore, Ph.D.

Acting Branch Chief, Biorepositories and Biospecimen Research Branch
Cancer Diagnosis Program, Division of Cancer Treatment and Diagnosis
United States National Institutes of Health, National Cancer Institute

PRIVACY ACT NOTIFICATION STATEMENT

Collection of this information is authorized by The Public Health Service Act, Section 412 (42 USC 285 a-1). Rights of study participants are protected by The Privacy Act of 1974. Participation is voluntary, and there are no penalties for not participating or withdrawing from the study at any time. The information collected in this study will be kept in private under the Privacy Act. Names and other identifiers will be separated from information provided and will not appear in any report of the study. Information provided will be combined for all study participants and reported as summaries. You are being contacted initially by email to complete a survey so that we can clarify any responses to refine the features and functionality of the Biobank Economic Modeling Tool (BEMT). You may also be contacted by telephone to participate in brief follow-up to clarify your responses.

NOTIFICATION TO RESPONDENT OF ESTIMATED BURDEN

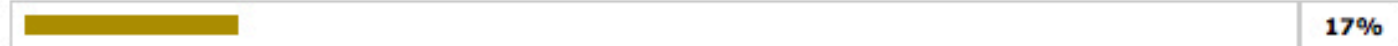
Public reporting burden for this collection of information is estimated to vary from one to two (1-2) hours per respondent, including the time for reviewed instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions to reducing this burden to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0589). Do not return the completed form to this address.

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SURVEY INSTRUCTIONS



OF QUESTIONS: The survey consists of up to 35 questions (depending on skip patterns) divided into the following 5 sections:

Clicking on the links below allows you to view the survey questions in advance.

- Section I: [Biobank demographics](#)
- Section II: [Biobank cost recovery and funding considerations](#)
- Section III: [Biobank cost and price considerations](#)
- Section IV: [Biobank specimens and services](#)
- Section V: [Additional question\(s\)](#)

NOTE: For questions #17-30, it may be necessary to select and/or enter approximate values in U.S. dollars regarding your equipment, labor and other operational costs and pricing, etc. Please feel free to review the questions in advance at any time. Your time and thoughtful responses are sincerely appreciated.

Questions with an "*" require an answer in order to complete the survey. However, we would appreciate if you can answer all questions.

TIP #1 When noting percentages, please round to the nearest whole number, as only whole numbers can be entered in numerical text fields. Additionally, do not use commas, decimal points or % signs when numerical values are requested.

TIP #2 Each question with a row of dropdowns requires that you complete all the dropdowns in that row. (E.g. Question #22-29)

TIP #3 Lists asking for "other" are not required, however if the information is relevant, we encourage specific feedback.

ANTICIPATED DURATION FOR PARTICIPATION: The survey will take an estimated one to two (1-2) hours to complete. Please answer the questions as thoughtfully as possible and to the best of your understanding.

SAVING & SUBMITTING YOUR DATA: You will need to disable your pop-up blockers and enable cookies **BEFORE** you **BEGIN** the survey if you want to:

1. Exit the survey and come back at a later time to finish your responses in order to save your work. Click the **SAVE AND EXIT SURVEY BUTTON**. In order to avoid starting over, you will need to use the same browser (e.g. Firefox OR Internet Explorer, etc., NOT both) **AND** computer (e.g. work OR home computer, etc., NOT both) for the entire survey.
2. Ensure you are able to use the help dialog boxes ([links in blue](#)).

TECHNICAL ASSISTANCE: If you have any questions about or with taking the survey and/or need technical assistance, please contact Lisa Miranda at lisabmiranda@proviaabs.com.

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**United States NIH/NCI BBRB - Biobank Economic Modeling Tool (BEMT) Survey**

Section 1: BIOBANK DEMOGRAPHICS

[\[Tips and Instructions\]](#)*** 1. Name: Last (Surname), First, Middle Initial***** 2. Job title:***** 3. Institution:***** 4. Institution type in which your biobank operates:**

- Independent research laboratory
- Community based hospital
- Academic medical center
- Government program
- Commercial entity

*** 5. Biobank name:***** 6. What is the total number of years your biobank has been in operation?***** 7. In which country is your biobank headquarters located?***** 8. In which geographic region is your biobank headquarters located?**

- Urban** (Within or immediately surrounding a metropolitan city)
- Rural** (Within or immediately surrounding a non-metropolitan city, town or countryside area)

*** 9. Are your biobank operations International?**



*7. In which country is your biobank headquarters located?

*8. In which geographic region is your biobank headquarters located?

- Urban** (Within or immediately surrounding a metropolitan city)
- Rural** (Within or immediately surrounding a non-metropolitan city, town or countryside area)

*9. Are your biobank operations International?

- No** (My biobank operates solely within the country in which my headquarters is located)
- Yes** (My biobank operates BOTH within and outside of the country in which my headquarters is located)

*10. What is your biobank's operating model?

- Independent** Individual specimen collection stored outside of a centralized repository.
- Centralized** Central physical repository in which specimen collections are stored for use by multiple investigators collecting from central as well as other physical locations.
- Networked** Several physical repositories encompassing multiple biobank collections across different institutions where access may or may not be coordinated by a central office.
- Federated** Network of decentralized sites where specimens and data across multiple sites can be virtually accessed as if they are a single site.

*11. How many operating sites does your biobank have?

An operating site is considered to be any dedicated infrastructure over 250 square feet that is used to support biobank related collections and/or specimen related services.

*12. What is the total estimated size of your biobank facility?

- <2000 ft²
- 2,001 to 5,000 ft²
- 5,001 to 15,000 ft²
- 15,001 to 50,000 ft²
- 50,001 to 100,000 ft²
- >100,000 ft²

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Section 2: BIOBANK COST RECOVERY AND FUNDING CONSIDERATIONS

[\[Tips and Instructions\]](#)

*** 13. Does your biobank practice [cost recovery](#)?**

- Yes** (My biobank **DOES** recover costs for biobanking efforts and/or work performed)
- No** (My biobank **DOES NOT** recover costs for biobanking efforts and/or work performed)

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Section 2: BIOBANK COST RECOVERY AND FUNDING CONSIDERATIONS (Continued)



*** 14. Approximately, what percentages (%) of your biobank expenses are recovered from provision of specimens, products and services?**

- 0%-25%** (My biobank practices cost recovery for as much as twenty-five percent of its expenses)
- 26%-50%** (My biobank practices cost recovery for more than one quarter and as much as fifty percent of its expenses)
- 51%-75%** (My biobank practices cost recovery for more than half and as much as seventy-five percent of its expenses)
- 76%-100%** (My biobank practices cost recovery for more than three quarters and as much as 100% of its expenses)
- > 100%** (My biobank practices cost recovery for more than one hundred percent of its expenses)

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Section 2: BIOBANK COST RECOVERY AND FUNDING CONSIDERATIONS (Continued)

[\[Tips and Instructions\]](#)

TIP: For Questions #15-21 Please enter whole numbers. Do not use decimal points, commas or enter % or \$ symbols in numerical text boxes.

*** 15. What is the percentage (%) contribution of each of the types of funds below to the overall funds brought in annually by the biobank?**

(Answer must add up to 100%, if 0 leave blank)

Fees recovered from provision of specimens, products and/or services	<input type="text"/>
External stakeholder investment	<input type="text"/>
Internal start-up funds	<input type="text"/>
Private grants	<input type="text"/>
Government/Non-profit grants	<input type="text"/>
Donations	<input type="text"/>
Other(s)	<input type="text"/>

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Section 2: BIOBANK COST RECOVERY AND FUNDING CONSIDERATIONS (Continued)

58%

[\[Tips and Instructions\]](#)

*** 16. Of fees recovered annually by the biobank, what percentage (%) is contributed by each of the entity types below?**

(Answer must add up to 100%, if 0 leave blank)

Internal end users and projects	<input type="text"/>
Academic institutions	<input type="text"/>
Government institutions	<input type="text"/>
Pharmaceutical companies	<input type="text"/>
Biotech companies	<input type="text"/>
Private research laboratories	<input type="text"/>
Clinical research organizations	<input type="text"/>
Non-profit organizations	<input type="text"/>
Other(s)	<input type="text"/>

17. Approximately, how much (USD) in total did your biobank spend on big-ticket item expenditures (e.g. equipment, informatics system, space planning & construction, furniture and furnishings) at start-up?

*** 18. Approximately, how much (USD) did your biobank spend on each of the following big-ticket item expenditures at start-up?**

Initial equipment (<u>capital</u> and non)	<input type="text"/>
Inventory management system/Informatics and computers	<input type="text"/>
Space planning and/or construction	<input type="text"/>
Furniture and furnishings	<input type="text"/>
Other (s)	<input type="text"/>

19. Approximately, what is your total annual budget for operational expenditures (USD)?

*** 20. Approximately, how much does your biobank spend annually (USD) on the operational expenditures listed below?**

Employee payroll	<input type="text"/>
Staff/Management education and training	<input type="text"/>
Vendors and consultants	<input type="text"/>
Additional equipment purchases (<u>capital</u> and non)	<input type="text"/>
Equipment maintenance and replacement	<input type="text"/>
Informatics, computers and electronics additions/upgrades	<input type="text"/>
Consumables	<input type="text"/>
Office supplies	<input type="text"/>
Rentals and leasing	<input type="text"/>
Off-site storage	<input type="text"/>
Certification and accreditation	<input type="text"/>
Travel and transportation	<input type="text"/>
Marketing and sales	<input type="text"/>
Vendors and consultants	<input type="text"/>
Other(s)	<input type="text"/>

*** 21. Approximately, what percentage (%) of your time do you allocate annually to performing the following activities for your biobank?**

(Answer must add up to 100%, if 0 leave blank)

Specimen & service provision	<input type="text"/>
Building biobank inventory (specimens and/or data)	<input type="text"/>
Providing external education and training services	<input type="text"/>
Quality management & proficiency testing	<input type="text"/>
Facility operations & maintenance	<input type="text"/>
Biobank promotion, marketing and/or business development	<input type="text"/>
Administrative time	<input type="text"/>
Other(s)	<input type="text"/>

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Section 3: BIOBANK COST AND PRICE CONSIDERATIONS



[\[Tips and Instructions\]](#)

Please fill out the information provided in the tables below and on the following pages.

This information will be helpful to guide other biobankers in their resource planning and to learn more about costs involved in running a biobank. Your time and effort is greatly appreciated.

*** 22. Estimated average annualized salary range (USD), fringe benefit percentage (%) and number of FTE's for employees your biobank budget supports:**

	<u>Annualized estimated salary range (USD)</u>	<u>Estimated average annual fringe benefit %</u>	<u>Total full time equivalents (FTE)</u>
Lab technician	<input type="text"/>	<input type="text"/>	<input type="text"/>
Histo-technician	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pathology assistant	<input type="text"/>	<input type="text"/>	<input type="text"/>
Clinical research coordinator	<input type="text"/>	<input type="text"/>	<input type="text"/>
Data manager	<input type="text"/>	<input type="text"/>	<input type="text"/>
Research assistant	<input type="text"/>	<input type="text"/>	<input type="text"/>
Clinical research associate	<input type="text"/>	<input type="text"/>	<input type="text"/>
Research/Study nurse	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lab manager/supervisor	<input type="text"/>	<input type="text"/>	<input type="text"/>
Repository manager	<input type="text"/>	<input type="text"/>	<input type="text"/>
Repository coordinator	<input type="text"/>	<input type="text"/>	<input type="text"/>
Head/Group/Team leader	<input type="text"/>	<input type="text"/>	<input type="text"/>
Technical/Executive director	<input type="text"/>	<input type="text"/>	<input type="text"/>
Associate/Scientific director	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pathologist	<input type="text"/>	<input type="text"/>	<input type="text"/>
Individual researcher/scientist	<input type="text"/>	<input type="text"/>	<input type="text"/>
Clinical resident/fellow	<input type="text"/>	<input type="text"/>	<input type="text"/>
Bioinformatics professional	<input type="text"/>	<input type="text"/>	<input type="text"/>
Biostatistician	<input type="text"/>	<input type="text"/>	<input type="text"/>
Business manager	<input type="text"/>	<input type="text"/>	<input type="text"/>
Deputy technical coordinator	<input type="text"/>	<input type="text"/>	<input type="text"/>
Chief operating officer (COO)	<input type="text"/>	<input type="text"/>	<input type="text"/>
Chief technology officer (CTO)	<input type="text"/>	<input type="text"/>	<input type="text"/>
Chief financial officer (CFO)	<input type="text"/>	<input type="text"/>	<input type="text"/>
Chief commercial officer (CCO)	<input type="text"/>	<input type="text"/>	<input type="text"/>
General manager	<input type="text"/>	<input type="text"/>	<input type="text"/>
Program/Project manager	<input type="text"/>	<input type="text"/>	<input type="text"/>
Product manager	<input type="text"/>	<input type="text"/>	<input type="text"/>
Customer product/service representative	<input type="text"/>	<input type="text"/>	<input type="text"/>
Quality manager	<input type="text"/>	<input type="text"/>	<input type="text"/>
Advisor	<input type="text"/>	<input type="text"/>	<input type="text"/>
Administrative/Executive assistant	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #2	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #3	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #4	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #5	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #6	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #7	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #8	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #9	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #10	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please specify additional titles/roles for: Other #1, Other #2, Other #3 etc.

TIP:
 The next three questions ask you about your biobank's capital equipment costs. Please note the questions are divided into three equipment categories: specimen collection and processing, sample management and storage, and specimen quality control and sample analysis. When selecting choices for "other", for each question please take care to list these choices in reference to the category of equipment being queried.

***23. What type of capital equipment do you currently have to support specimen collection and processing? Select all that apply. If your biobank uses equipment which is not listed here, please list under "other".**

	How many do you have of each?	Do you primarily buy or lease this equipment?	Estimated average purchase/annual lease price (USD)	How many years do you plan to keep equipment prior to replacing it? (usable life years)	Estimated annual service contract price (USD) per unit
Cold table/cryogenic workbench	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Cryostat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tissue processor, walk-away	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tissue processor, rapid conventional	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
SPIN tissue processor, microwave	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Microtome	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tissue embedding station	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Laminar flow cabinet/hood	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Laboratory workbench	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Controlled rate freezer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Centrifuge, refrigerated, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Centrifuge, refrigerated, stand-alone	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated sample/vial filling station, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated sample/vial filling station, stand-alone	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated straw filling station, stand-alone	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Manual tissue microarray (TMA) instrument	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated tissue microarray (TMA) instrument	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Robotic frozen specimen aliquotter, large	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Robotic frozen specimen aliquotter, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated nucleic acid/protein extraction instrument	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated PBMC isolation instrument	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated buffy coat isolation instrument	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated stem cell culture instrument	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Incubator, manual	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Incubator, automated	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Slide Autostainer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please specify what equipment you referenced in Other #1, Other #2, other #3 etc.

*** 24. What type of capital equipment do you currently have to support sample management and specimen storage?**

Select all that apply. *If your biobank uses equipment which is not listed here, please list under "other".*

	How many do you have of each?	Do you primarily buy or lease this equipment?	Estimated average purchase/annual lease price (USD)	How many years do you plan to keep equipment prior to replacing it? (usable life years)	Estimated annual service contract price (USD) per unit
Bulk label printer, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated tissue cassette labeler, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Bulk sample labeler, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
RFID flat scanner, multi-tray	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Bar-code flat scanner, multi-tray	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sample/tube picking & sorting station, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sample/tube picking & sorting station, stand-alone	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sample volume tube/plate auditor checking station, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sample volume tube/plate auditor checking station, stand-alone	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated sample capper-de-capper, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated plate/ tube sealer module, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated plate piercer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated microplate dispenser/sample processor, benchtop	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated microplate washer, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tube puncher and selecting module, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Cryo-cart	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Dry vapor shippers, large	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Protective shipping carton, industrial	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Large cryogenic aluminum Dewar's	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-20°C to -40°C Refrigerator	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-80°C Manual vertical freezer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-80°C Manual chest freezer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-148°C Manual vertical freezer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-148°C Manual chest freezer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-20°C to -148°C LN ² cryotank	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-149°C to 190°C LN ² cryotank	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-20°C Automated biostore	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-20°C to -40°C Automated biostore	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-20°C to -80°C Automated biostore	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-80°C Automated biostore	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Cryogenic cabinet freezer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Cold room/walk-in	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please specify what equipment you referenced in Other #1, Other #2, other #3 etc.

***25. What type of capital equipment do you currently have to support specimen quality control and sample analysis?**

Select all that apply. *If your biobank uses equipment which is not listed here, please list under "other".*

	How many do you have of each?	Do you primarily buy or lease this equipment?	Estimated average purchase/annual lease price (USD)	How many years do you plan to keep equipment prior to replacing it? (usable life years)	Estimated annual service contract price (USD) per unit
Microscope	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Transmission electron microscope	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Gene array scanner workstation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Flow cytometer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Automated blood fractionation system	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
High through-put screening instrument	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Real time PCR system	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PCR thermal cycler	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Plasmid processing station	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Western blot transfer system	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Blot hybridization system	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mass spectrometer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DNA/RNA sequencing system/analyzer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Orbital bath shaker, bench-top	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Reagent dispenser	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Autoclave	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Safety cabinet	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Clean room	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Laser Capture Microdissection System	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other #10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please specify what equipment you referenced in Other #1, Other #2, other #3 etc.

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Section 4: BIOBANK SPECIMENS AND SERVICES



[\[Tips and Instructions\]](#)

Please use this [worksheet key](#) alongside the survey when answering the following section.

*** 26. On the worksheet(s) below, please provide details about specimens that your biobank offers to end users/customers.**

(This should include but may not be limited to anything listed on your biobank fee schedule/service menu.)

- this information will be extremely helpful to offer guidance in biobank costing and pricing of specimens and services.

	Sample Type	Approximate time from acquisition to cryopreservation	Mechanism of stabilization	Type of long term preservation	Weight (gm)/Aliquot volume (ml)	Data collected	Price	Average # samples collected annually	Average # samples distributed annually
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Please specify sample type for: Other 1, Other 2, Other 3 etc.

*** 27. Do you need to add information on additional specimens that your biobank offers?**

- Yes
- No

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United States NIH/NCI BBRB - Biobank Economic Modeling Tool (BEMT) Survey

Section 4: BIOBANK SPECIMENS AND SERVICES (Cont.)



28. On the worksheet below, please add any additional sample types (specimens that your biobank offers to end users/customers).
 (Reminder: This should include but may not be limited to anything listed on your biobank fee schedule/service menu that you were not able to fit in on the previous worksheet.)

	Sample Type	Approximate time from acquisition to cryopreservation	Mechanism of stabilization	Type of long term preservation	Weight (gm)/Aliquot volume (ml)	Data collected	Price	Average # samples collected annually	Average # samples distributed annually
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

Please specify sample type for: Other 1, Other 2, Other 3 etc.

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United States NIH/NCI BBRB - Biobank Economic Modeling Tool (BEMT) Survey

Section 4: BIOBANK SPECIMENS AND SERVICES (Cont.)

[\[Tips and Instructions\]](#)

***29. Approximately, what do you charge (USD) per specimen for each of the sample testing related services below?**

(USD) for the service

Specimen collection kit assembly and shipping	<input type="text"/>
Specimen transport	<input type="text"/>
Immunohistochemistry (IHC) testing	<input type="text"/>
In-situ hybridization (ISH) testing	<input type="text"/>
RNA Integrity number (RIN) testing	<input type="text"/>
Biospecimen proficiency testing	<input type="text"/>
Genetic testing	<input type="text"/>
SNP genotyping	<input type="text"/>
DNA sequencing	<input type="text"/>
RNA sequencing	<input type="text"/>
Gene expression profiling (DNA, RNA, protein)	<input type="text"/>
Mass spectrometry 2-D protein profiling	<input type="text"/>
Mass spectrometry protein profiling, isotope tagging method	<input type="text"/>
Protein microarrays ("Protein chip")	<input type="text"/>
Pathology case review for clinical diagnosis and morphological confirmation	<input type="text"/>
Pathology external consult, case review	<input type="text"/>
Copy of pathology report	<input type="text"/>
Specimen biosketch report	<input type="text"/>
Other #1	<input type="text"/>
Other #2	<input type="text"/>
Other #3	<input type="text"/>
Other #4	<input type="text"/>
Other #5	<input type="text"/>
Other #6	<input type="text"/>
Other #7	<input type="text"/>
Other #8	<input type="text"/>
Other #9	<input type="text"/>
Other #10	<input type="text"/>

Please specify Service for: Other #1, Other #2, Other #3 etc.

***30. Approximately, what do you charge (USD) per project for each of the biobanking project related services below?**

(USD) for the service

Biobanking project/protocol consultation	<input type="text"/>
Biospecimen protocol and/or consent writing	<input type="text"/>
Biospecimen protocol regulatory submission	<input type="text"/>
Biospecimen procedure/SOP writing	<input type="text"/>
Biospecimen inventory management database consultation	<input type="text"/>
Biobank technical support, in- or out-sourced	<input type="text"/>
Evaluating and/or consenting donors for specimen and/or data collection	<input type="text"/>
Return of biospecimen research results to study participants and/or specimen donors	<input type="text"/>
Sample collection inventory management	<input type="text"/>
Sample storage and monitoring	<input type="text"/>
Biobank inventory management database quality/best practice review audit	<input type="text"/>
Sample collection inventory management quality/best practice/regulatory review audit	<input type="text"/>
Sample collection inventory management, transfer and/or relocation	<input type="text"/>
Sample collection inventory management, culling	<input type="text"/>
Sample collection inventory management, disaster recovery	<input type="text"/>
Biobank consumable/supply ordering support	<input type="text"/>
Specimen collection kit assembly and shipping	<input type="text"/>
Specimen transport	<input type="text"/>
Annual biospecimen/project collection report	<input type="text"/>
Education and training	<input type="text"/>
Study cohort selection	<input type="text"/>
Biospecimen proficiency testing (sample set)	<input type="text"/>
Other #1	<input type="text"/>
Other #2	<input type="text"/>
Other #3	<input type="text"/>
Other #4	<input type="text"/>
Other #5	<input type="text"/>
Other #6	<input type="text"/>
Other #7	<input type="text"/>
Other #8	<input type="text"/>
Other #9	<input type="text"/>
Other #10	<input type="text"/>

Please specify Service for: Other #1, Other #2, Other #3 etc.

*** 31. Approximately, what percentage (%) is your [mark-up](#) for provision of biospecimens?
(If you do not charge a mark-up, enter zero)**

*** 32. Approximately, what percentage (%) is your [mark-up](#) for specimen related services?
(If you do not charge a mark-up, enter zero)**

*** 33. Approximately, what percentage (%) is your [overhead fee](#) for external parties who use your
biobank and/or collaborate on projects with your institution?
(If you do not charge an overhead fee for external parties, enter zero)**

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SAVE DATA & EXIT SURVEY

United States NIH/NCI BBRB – Biobank Economic Modeling Tool (BEMT) Survey

Section 5: Additional Question(s):

[\[Tips and Instructions\]](#)***34. Which best practice publications do you currently use to guide your biobank operations?**

- United States National Institutes of Health/National Cancer Institute Biorepositories and Biospecimens Research Branch's **NIH/NCI BRBB Best Practices for Biospecimen Resources, version 2011**
- International Society for Biological and Environmental Repositories's **ISBER Best Practices for Repositories, version 2012**
- World Health Organization (WHO) International Agency for Research on Cancer's **WHO-IARC Common Minimal United States Technical Standards and Protocols for Biological Resource Centres dedicated to Cancer Research, version 2007**
- Organization for Economic Cooperation and Effectiveness's **OECD Best Practice Guidelines for Biological Resource Centres, version 2007**
- Other
- I do not use any best practice documents to guide my biobank operations

Other (please specify)

***35. Are you ready to submit your responses or do you need to come back and finish your responses later?**

- Yes** (I have completed the survey and am ready to submit my responses)
- No** (I need more time to complete the survey, so I'll exit now and return to finish and then submit my responses before the due date)

You have now reached the end of the survey.**CLICKING ON THE DONE SURVEY BUTTON INDICATES YOU HAVE COMPLETED THE SURVEY AND ARE READY TO SUBMIT YOUR ANSWERS.**

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Done Survey

If you indicated you ARE DONE with your survey submission, please read:

You have noted that you have completed the BEMT survey. If we have any questions, we will contact you by email and/or phone.

If you decided to Save and Exit and you are NOT DONE with your survey submission, please read:

You have exited the survey, noting that you'll return to complete your answers. You will be able to return to the survey before "date pending" to enter remaining data and edit any answers. We look forward to completion of your survey and its submission. Please remember that all responses need to be received by "X". Please note that you may receive reminder emails every 2 weeks until the survey submission is complete or the submission period expires.

All please read:

If you have any questions, please contact Lisa Miranda at lisabmiranda@provia labs.com.

Thank you; we greatly appreciate the generosity of sharing your time and expertise.

Sincerely,

Helen M. Moore Ph.D, Jeff McLean, Howard Greenman and Lisa Miranda on behalf of the entire BEMT Project Team.