

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE July 1997	3. REPORT TYPE AND DATES COVERED Annual (1 Jul 96 - 30 Jun 97)	
4. TITLE AND SUBTITLE Program for Critical Technologies in Breast Oncology			5. FUNDING NUMBERS DAMD17-94-J-4014	
6. AUTHOR(S) Jose Costa, M.D.				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Yale University School of Medicine New Haven, Connecticut 06520-8047			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Army Medical Research and Materiel Command Fort Detrick Frederick, Maryland 21702-5012			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; distribution unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200)				
19971203 008				
14. SUBJECT TERMS Anatomical Samples, Tissue, Bank, DNA, P53, Molecular Diagnosis, Database, Breast Cancer			15. NUMBER OF PAGES 104	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited	

AD _____

GRANT NUMBER DAMD17-94-J-4014

TITLE: Program for Critical Technologies in Breast Oncology

PRINCIPAL INVESTIGATOR: Jose Costa, M.D.

CONTRACTING ORGANIZATION: Yale University School of Medicine
New Haven, Connecticut 06520-8047

REPORT DATE: July 1997

TYPE OF REPORT: Annual

PREPARED FOR: Commander
U.S. Army Medical Research and Materiel Command
Fort Detrick, Frederick, Maryland 21702-5012

DISTRIBUTION STATEMENT: Approved for public release;
distribution unlimited

The views, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision unless so designated by other documentation.

DTIC QUALITY INSPECTED 2

FOREWORD

Opinions, interpretations, conclusions and recommendations are those of the author and are not necessarily endorsed by the U.S. Army.

Where copyrighted material is quoted, permission has been obtained to use such material.

Where material from documents designated for limited distribution is quoted, permission has been obtained to use the material.

Citations of commercial organizations and trade names in this report do not constitute an official Department of Army endorsement or approval of the products or services of these organizations.

In conducting research using animals, the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals," prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Resources, National Research Council (NIH Publication No. 86-23, Revised 1985).

LC For the protection of human subjects, the investigator(s) adhered to policies of applicable Federal Law 45 CFR 46.

LC In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

LC In the conduct of research utilizing recombinant DNA, the investigator(s) adhered to the NIH Guidelines for Research Involving Recombinant DNA Molecules.

LC In the conduct of research involving hazardous organisms, the investigator(s) adhered to the CDC-NIH Guide for Biosafety in Microbiological and Biomedical Laboratories.

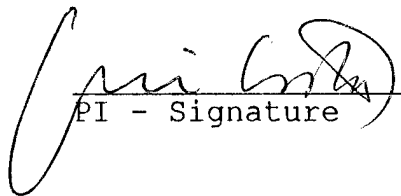
 PI - Signature July 25th 97 Date

Table of Contents

Front Cover.....	1
SF 298	2
Foreword	3
Table of Contents	4
Introduction	5
Body of Report	5
Task 1) Centralize collection of fresh, fixed, and paraffin embedded breast tissue samples from patients treated at Yale-New Haven Hospital and other hospitals in Connecticut	5
Task 2) Establish comprehensive database linked to the CTBO tissue bank & designed to support multidisciplinary studies that utilize tissue samples	9
Task 3) Prepare and distribute breast tissue samples from the CTBO repository to investigators	11
Task 4) Develop and offer on a minimal fee-for-service basis routine molecular and histologic tissue analyses of relevance to breast cancer. Of particular interest are assays that can be carried out on minimal tissue samples	12
Conclusions	13
Appendices	15
Appendix 1: PCTBO Approval, Human Investigation Committee Approval	15
Appendix 2: Expanded Protocol for Collection of Breast Tissue Specimens (including fresh viable tissue)	17
Appendix 3: New data entry screens for tissue information collection	18
Appendix 4: New data entry screens for patient information collection	24
Appendix 5: Collection sheet for off-site hospitals	28
Appendix 6: HIC Form 14, pathology tissue use	29
Appendix 7: Breast cases collected, July 1996 to June 1997	30
Appendix 8: Breast cytology cases collected, July 1996 to June 1997	35
Appendix 9: Breast cases distributed from frozen samples	38
Appendix 10: Breast cases distributed from fresh samples (breast fat study)	46
Appendix 11: Material Transfer Agreement for breast tissues	84
Appendix 12: Frozen breast tissue available	85

Introduction

In Year 3 of The Program for Critical Technologies in Breast Oncology (PCTBO), we have expanded services that were initiated in July 1994 to establish a core technical and tissue procurement resource that: i) maximizes access to human breast tissues and tumor DNA for basic investigators; ii) facilitates the application of molecular technologies in clinical breast oncology; and iii) makes such technologies routinely available to clinical investigators. This program builds on Yale's existing Program for Critical Technologies in Molecular Medicine and the Tissue Procurement Core Facility of the Yale Cancer Center, and complements in a rigorous and planned way the Yale Tumor Registry and Yale's Rapid Case Ascertainment System. Thus it makes possible for several resources to have a special focus on breast cancer and related diseases. The existence of a Breast Cancer Research Program (Dr. Michael Reiss, P.I.), developed with the resources of the Yale Comprehensive Cancer Center in 1995, increases the utilization of the PCTBO infrastructure to near maximum capacity.

Body of Report

We have organized the body of our annual report to follow the tasks delineated in the original proposal's Statement of Work: i) collection of samples; ii) establishment of a database; iii) preparation and distribution of samples; iv) development of assays relevant to breast cancer.

Task 1) Centralize collection of fresh, fixed, and paraffin embedded breast tissue samples from patients treated at Yale New-Haven Hospital and other hospitals in Connecticut.

Year 3-1a) Continue to expand tissue catchment area to any remaining phase II hospitals.
Goal is to exceed 80% participation.

During the third year of the program, we received initial IRB approvals from eight more institutions in the state of Connecticut to initiate the off-site collection program. We also received reapproval from all of the hospitals in which we already had initial IRB approval, including reapproval from Yale's Human Investigation Committee for our parent protocol (see appendix 1). We now have interactions with all of our Phase I hospitals, and 3 of our Phase II hospitals. Three of the Phase II hospitals on our original list are no longer exist due to mergers or bankruptcy. We have IRB approval, have set up meetings with our contact person, trained pathology personnel, and have started tissue collection at two of the remaining Phase II hospitals. We are awaiting IRB approval at 10 (one has been submitted, and 9 will be submitted this summer). Although administrative delays which we encountered last year with Yale's Human Investigation Committee (see last year's annual report) have kept us slightly behind schedule for inviting participation from off-site hospitals, we are preparing the last round of IRB submissions and will have applications at 11 additional sites by August, 1997. At the very least, we expect to be set up to receive frozen breast tissues from 12 of the Phase II hospitals by the end of 1997, a 67% participation rate. At that point we will make a final evaluation of the efficiency and cost-effectiveness for inclusion of the 6 remaining, smaller, and much more geographically distant Phase II hospitals.

The hospitals at which we have made contact or begun collection are listed in Tables 1a and 1b.

Table 1a: List of Off-site Hospitals, Phase I

Hospital & City	Contact Pathologist/ Department Chair or HIC/ Collection Technologist (<i>italics = updated information</i>)	Date of initial IRB approval & last reapproval
Bridgeport Hospital, Bridgeport, CT	Gustave Davis, M.D. Gustave Davis, M.D.(IRB) <i>Bonnie Yannessy</i>	2/25/97
Danbury Hospital, Danbury, CT	Raoul Braza, M.D. Ramon Kranwinkel, M.D.(IRB) Mary Davis, Ph.D.	8/19/96
Greenwich Hospital, Greenwich, CT	Richard Eisen, M.D. Stephen Gray, M.D. Claire Arkemone, H.T.	7/95, reapproved 6/19/97
The Griffin Hospital, Derby, CT	Stephanie Wain, M.D. Vincent deLuca, Jr. M.D. (IRB)	9/18/96
Hartford Hospital Hartford, CT	Martin Berman, M.D. Robert Siegal, M.D.	submitted 5/96, still under consideration
Hospital of St. Raphael, New Haven, CT	Paul Fiedler, M.D. Romeo Vidone, M.D. Gail Barricelli, M.T.	11/94, reapproved 2/18/97
Norwalk Hospital, Norwalk, CT	<i>Michael Bush, M.D.</i> <i>Eric Lazur, M.D. (IRB)</i> Margaret Keane, H.T.	9/5/96
The Stamford Hospital, Stamford, CT	<i>Patrick Broderick, M.D.</i> Michael Parry, M.D. (IRB)	8/9/96, reapproved 8/9/97
St. Mary's Hospital, Waterbury, CT	<i>William Frederick, M.D.</i> Dwight Miller, M.D.	9/5/96
The Waterbury Hospital, Waterbury, CT	<i>Thomas Anderson, M.D.</i>	to be submitted 8/97
Yale-New Haven Hospital, New Haven, CT	Darryl Carter, M.D. Jon Morrow, M.D., Ph.D. Leticia deDios, M.D.	7/94 reapproved 7/97
Veterans Hospital, West Haven, CT	Robert Homer, M.D. Gary Stack, M.D. Leo Kelley, P.A.	to be submitted 8/97

Table 1b: List of Off-site Hospitals, Phase II

Hospital & City	Contact Pathologist/ Department Chair or HIC/ Collection Technologist (<i>italics = updated information</i>)	Date of initial IRB approval & last reapproval
The William H. Backus Hospital	Sa-id Esfahanian, M.D. <i>Franklin Friedman, M.D. (IRB)</i>	to be submitted 8/97
Bradley Memorial Hospital Southington CT	James Ford M.D.	to be submitted 12/97 (await New Britain Hospital decision)
Bristol Hospital Bristol CT	Leslie Kish M.D. <i>Richard Dalsen, M.D. (Cancer Committee)</i>	to be submitted 8/97
Charlotte Hungerford Hospital Torrington CT	Richard Gallagher M.D. <i>Susan Pittman-Lowenthall (IRB)</i>	to be submitted 8/97
Day Kimball Hospital Putnam CT	Paul Wong M.D.	**
John Dempsey Hospital Framington CT	Faripour Forouhar, M.D.	to be submitted 8/97
Lawrence & Memorial Hospital	<i>Edwin Clayton M.D. Joan Blessing</i>	9/13/96
Manchester Hospital Manchester, CT	Dennis O'Neill, M.D. Dennis O'Neill, M.D. (IRB)	submitted 5/96, still under consideration
Middlesex Hospital Middletown CT	Sebastian Gallo, M.D.	to be submitted 8/97
Milford Hospital Milford CT	Suri Pappu, M.D. John Walsh, (VP Admin)	to be submitted 8/97
Mount Sinai Hospital Hartford CT	<i>merged with St. Francis Hospital</i>	NA
New Britain General Hospital New Britain CT	David Krugman, M.D	to be submitted 8/97
New Milford Hospital New Milford CT	Prashant Rodrigues, M.D.	**
Park City Hospital Bridgeport CT	<i>merged with Bridgeport Hospital</i>	NA
Rockville General Hospital Rockville CT	John Kriz, M.D.	**

The Sharon Hospital Sharon CT	Rosalinda Parilla, M.D.	**
St. Francis Hospital	George Barrows, M.D. Ernesto Canalis, M.D. <i>Donna Dooman, P.A.</i>	9/4/96
St. Vincent's Medical Center Bridgeport CT	<i>George Lowenski, M.D.</i> <i>Lorraine Carrano, M.D. (IRB)</i>	to be submitted 8/97
Veterans Memorial Medical Center Meriden CT	Kyum S. Pyun, M.D.	**
Windham Memorial Hospital Windham CT	Nadia Nashid, M.D.	**
Winsted Memorial Hospital Winsted CT	<i>bankrupt 1996</i>	NA

**few cases expected
from a far-distant
location

Year 3-1b) Continue off-site training and monitoring of tissue collection personnel

We continue to use our defined protocols to obtain fresh frozen tissue. (See appendix 2). Given the present trend in diagnosis and therapy of breast masses we have taken two approaches. The first is to continue with an aggressive prospective acquisition of samples of tissue that are prepared and embedded in OCT medium such that frozen sections can be cut from the samples. If extra tissue is still remaining, additional aliquots are bulk-frozen in tissue cassettes in liquid nitrogen, and also, when requests are outstanding, collected in a fresh, viable manner. The larger tumors, from which "bulk" specimens are available, can be used for nucleic acid or protein extraction after grinding the frozen tissue under liquid nitrogen in a mortar and pestle to obtain a fine frozen powder. Both the fast freezing and optimal maintenance of the samples (e.g. always transported on dry ice) have enhanced nucleic acid stability.

The second approach we have taken is applicable to samples such as small biopsies for which excess tissue is often not available from a gross specimen. In these cases, we can obtain extra frozen sections at the time a clinical section is done during an intra-operative consultation. Once the pathologist has concluded the consultation on a frozen specimen, an extra 10 sections are cut and stored on slides that are kept frozen at -80° C for future use. The remainder of the frozen specimen is handled as usual by the pathologist. We should note specifically that these slides are handled in the same manner as are the larger samples: no research use is made of any material before at least one week has elapsed after the final pathology report has been issued.

The success of our efforts to collect sections and slides is reflected in the fact that, although we collected 151 cases of breast tissue this year, we were able to distribute approximately 850 samples from 157 cases, including about 800 samples of sections and slides. Without our preparation and distribution of sections and slides, we would have had to exhaust our entire bank of frozen breast tissues and would still not have met the research demand.

Task 2) Establish comprehensive database linked to the CTBO tissue bank & designed to support multidisciplinary studies that utilize tissue samples

Year 3-2a) Continue information collection at Yale-New Haven Hospital and additional phase I hospitals (on-line database incorporating data items outlined, computer network interfaces, protocols, and procedures to assure collection of the information outlined).

In year 1 we established the protocols to implement the database as proposed in the original application. The data files were resident in a Macintosh PowerPC 7100 fileserver and were created using FileMaker Pro 2.0 software. With the release of FileMaker Pro version 3.0 in early 1996, we completely redesigned the database files to take advantage of the fully relational aspects of the new FileMaker version. This major re-working of the PCTBO's own database has been completed. Examples of some of the new tissue reports can be found in appendix 3.

To respond to the long term need to provide ease of access to data on all databases for use by researchers, we had done work with the Yale Comprehensive Cancer Center [YCCC] and Yale New Haven Hospital. When the reorganization of the Clinical Research Office [CRO] at the YCCC was completed in late 1995, we met with Drs. Lee Schacter and Daniel Zelterman of the CRO to define common goals and potentials for sharing information and resources between the CRO and our core facility of the PCTBO. At a meeting in January 1996, we explored the efficacy of implementing a data warehouse architecture, where one could define and regularly download applicable data from existing systems onto data warehouse running Oracle or some other database

product. This would allow users running database query software at their desktops to query information from the data warehouse, reducing demand on the programming resources of existing systems, including the Pathology Information System and the Yale-New Haven Hospital Tumor Registry.

In the past year, purchase of a multitasking computer with ethernet and TCP/IP capabilities and hard disk storage has been accomplished. Software for data storage was evaluated: Oracle Clinical was brought on-site for many months before the decision was made that it would not satisfy the demands of the program. Instead, programming staff were recently hired to define, configure, maintain, and archive a custom database using Oracle, with Microsoft Access front-end. We continue to actively work with the Breast Cancer Research Program. They obtained funding to support efforts to retrieve patient demographic, treatment, and followup data. This activity will start in August 1997. We will take the opportunity to piggyback on and expand the scope of their project to include references to the breast tissue samples available through the PCTBO. This goal will be actively pursued in year four of the PCTBO.

Samples of the data entry screens for this patient database project are given in appendix 4. Information collected includes: Demographics and epidemiologic information such as known risk factors and family history; pathology and staging; treatment (surgeries, radiation including response to treatment, chemotherapy/endocrine therapy including response to treatment); and periodic (every 3 months) updates on disease status.

In addition to meeting with the CRO, we also have had ongoing interactions with Yale New Haven Hospital. The hospital, for reasons of more efficient management, state reporting requirements, and the goal of daily updates from all areas of the hospital, is working towards combining data from all of its computers. This project is making progress even with limited resources, and although it is transaction-oriented and not designed for research use, the fact that longitudinal data tracking will be more easily accomplished can in fact be made to serve research use as well. Our meetings to date have proved quite productive. The hospital is still in Phase I of a three-phase plan and working on the emergency department, ambulatory surgery, and inpatient clinic records collection on a daily rather than monthly schedule. The data involved will include all doctors orders and the operating room schedules. Although the Yale Physicians Building (where many breast cancer patients are seen and treated) is not in their Phase I plans, these data will be included in Phase II. In the interim, we continue to actively collaborate with people from Hospital Management and Information Systems, and for the shorter term, we are discussing the possibilities of prospectively designing additional fields in the Clinical Archive database that will serve breast cancer research needs.

Year 3-2b) Expand comprehensive information catchment to include additional phase I hospitals

Year 3-2c) Modify if needed information protocols with Rapid Case Ascertainment of Cancer Prevention Research Unit and the Connecticut Tumor Registry to facilitate off-site information collection, allowing data collection at some Phase II hospitals.

With the continuation of tissue collection routines from phase I hospitals, we also remain successful in retrieving information about the tissue specimens. Pathology reports at a minimum are submitted for each specimen, and this information collection is coordinated and accomplished by the travelling associate, Bonnie Kaye. All hospitals from which tissue is retrieved are supplying this comprehensive information. However, after information is recorded, we "anonymize" the tissue and related information because all of our off-site IRB approvals are for use of anonymous samples only. We have developed a simple and easy-to-use format that enables both collection of information about the tissue samples, and fail-safe anonymizing of the samples. See appendix 5.

Remote data collection continues to be possible via modem access to the PCTBO FileMaker Pro database through AppleTalk Remote Access software. Appropriate security precautions have been implemented. We continue to collect Pathology Reports from sites, however, due to the limited time commitment that off-site hospital staff can make as the demands of managed care. The feasibility of direct downloading of data from pathology reports into the PCTBO database continues to be under investigation. However, a common time-and-resource-consuming problem is the limited degree of compatibility between information systems. In the interim, copying and pasting of relevant data is utilized, and will probably remain the basis for most of our data acquisition, since this method allows human review of appropriate information entering the database.

Task 3) Prepare and distribute breast tissue samples from the CTBO repository to investigators

Year 3-3a) Continue tissue and DNA/RNA collection and distribution

Protocols for tissue request and distribution continue to function well. In cooperation with the Yale Human Investigation Committee, we have designed a specific approval form to supplement the information and service request forms already in use. The new form (see appendix 6) gives all the useful information that we require in order to satisfy the HIC approval given to investigators to receive patient tissue. We continue to work closely with the Yale Human Investigation Committee to insure that all programs involving research use of samples of archival or fresh frozen human breast tissue are channeled through the PCTBO. As we expected, as information is disseminated about our bank, frozen samples are increasingly being requested.

Extraction of DNA from frozen sections and from archival paraffin tissues continues to be routinely done in our laboratories. Extraction of standard quality RNA from thick (10-20 μ m) frozen sections (and in some cases from paraffin blocks) is also routinely accomplished. Given the minimal size of the breast biopsies and the lesions contained in the tissue, collection of very high quality RNA is limited to large tumor specimens.

Over the past year of collection (July 1996 to June 1997), we have obtained 1704 parts from breast cases, drastically up from the 589 parts collected in year 1, and even increased over the 1016 parts collected in year 2. The major reason for this increase continues to be the fact that frozen section slides are increasingly collected at the time of diagnosis, and held in the bank until the case is signed out. A detailed list of cases collected is included in appendix 7.

Collections of excess breast cells from the Cytology section of the Department of Pathology was continued in collaboration with Dr. David Rimm, cytopathologist. See appendix 8 for list of these specimens. The excess volume of fine needle aspirations (collected with a Cyctec apparatus) have been stored and catalogued, and are available for research use. This new source of breast cells is proving to be of enormous value.

Distribution of breast tissues and tissue products has occurred from two different modules this year: tissue distribution from all frozen cases collected previously are summarized in the appendix 9 report "Tissue Distribution," and total 834 samples. A special distribution of breast fatty tissue is reported in appendix 10. An additional distribution of breast specimens, of approximately one-third of the 15,653 tissue products produced by the Research Histology component of the PCTBO, are from paraffin breast samples, and are not listed in this report. The large number distributed from previously banked samples only serves to emphasize the enormous power of the system of centralized collection and critical distribution of only those types and amounts of tissues actually needed by each investigator. The fact that 87% of all frozen breast samples originally collected still

have some tissue left in the bank represents a dramatic increase in numbers available for further research.

Year 2-3b) Continue inventory and review of paraffin archive, with indexing to CTBO database

With our continuing work on the resource of archival paraffin specimens, the paraffin archives themselves have been substantially improved. Last year we successfully finished the complete reorganization of over 3 million paraffin blocks, physically sorted and refiled all blocks, and consolidated the warehouse locations of the paraffin blocks from 3 separate sites to 2 closer, climate-controlled sites. These overall improvements have made a huge difference in ease of use of this most valuable resource, and is reflected in the large number of recuts requested from the blocks.

Of 900,000 cases available in paraffin from the pathology archives, data from the Yale Tumor Registry indicate that 10,750 are of breast cancer, including both invasive and in situ. In the past year, we have identified specific computer-based pathology accession numbers for the remainder of these not identified on the computer last year. The same report definitions as listed in last year's report were used for the completion of this task. We continue to be in the process of identifying specific blocks from each case in which breast cancer is present. This labor- and time-intensive process was started with identification of ductal carcinoma in situ cases, and has moved to invasive cancer. For this, our work has been much easier since the invasive tumors tend to be much larger than the in situ carcinomas we reviewed for the last report. We review pathology reports to find the designated tumor block. Reliance on the path report for tumor ("T") or primary tumor ("P" or "PT") block designations is sufficient for most of the invasive cases.

Year 3-3c) Continue to advertise availability of breast cancer tissue for research.

The Yale Comprehensive Cancer Center's Breast Cancer Research Program meets on a monthly basis for presentation of research seminars and ongoing communication among all breast cancer researchers at Yale School of Medicine, Yale University, and Yale-New Haven Hospital. At these monthly gatherings we continue to present information about the currently available breast tissue (frozen and paraffin-embedded), as well as general information about the ability to set up prospective collection protocols and our interface with the Yale Tumor Registry for identification of breast cancer cases. Last year, we set up the Program for Critical Technologies World Wide Web page (<http://info.med.yale.edu/pathol/crittech/ct.htm>). We have received inquiries from researchers about our resource, and have entered into an agreement with a researcher in California to provide samples from over 200 of our breast cases, should she receive funding. All appropriate administrative requirements, including IRB approvals and a Material Transfer Agreement (see appendix 11), have been completed. We expect ongoing inquiries about our resource. Because of the tissue we have available (see appendix 12)—610 cases, and over 4000 samples—and because we provide usually provide portions of the samples rather than whole tissues, we expect to be able to supply most of the breast cancer researchers who approach us.

Task 4) Develop and offer on a minimal fee-for-service basis routine molecular and histologic tissue analyses of relevance to breast cancer. Of particular interest are assays that can be carried out on minimal tissue samples.

Year 3-4a) Continue to offer routine analyses [assays from year 1: p53, prad, ras, neu, microsatellite repeat variability, histochemistry and immunohistochemistry].

The detailed methods developed in year 1 and reported in our annual report of July 1995 have been standardized for routine performance upon request of investigators. These include a functional assay for p53, PCR analysis of PRAD-1 (Cyclin D1), assay for NEU oncogene function. Somewhat surprisingly, researchers most often request immunostains for various oncogenes and tumor suppressors, including p53, neu, alpha-catenin, E-cadherin, and bcl-1/prad-1, rather than PCR-based assays. We have worked extensively on further refinement of immunostaining protocols, including specific work to adapt and optimize use of commercially-available antibodies on paraffin-embedded tissues. Often these antibodies have not been tested on paraffin sections, and we have been successful in a number of cases. Two protocols were very effective: the use of recent antigen-retrieval method of pressure-cooking, and use of a commercially available "one-step" method of staining (Dako EnVision system, antibody and HRP coupled to an inert polymer backbone; or "universal" secondary with poly-HRP). Both of these techniques can be applied to any immunohistochemical staining protocol. Pressure-cooking can also be utilized in immunoblots.

Year 3-4b) Establish protocols for analysis of at least three additional genes.

As noted above, because most investigators are interested in immunohistochemistry-based assays for changes in oncogenes and/or tumor suppressor genes, in this third year of the project we continue to concentrate on this type of molecular analysis. We currently have protocols for use of either commercially-available or lab-made antibodies for a wide range of proteins implicated in breast cancer, including p53 (5 different antibodies), neu/erbB2 (4 antibodies, including one specific for the biologically active phosphorylated form of the protein), alpha-catenin, E-cadherin, and DCC. In the past year we have critically examined antibodies for three very commonly requested assays: estrogen receptor, progesterone receptor, and the angiogenic factor 8 proteins. We analyzed and compared commercially available antibodies for use on paraffin sections. Our success is reflected in the fact that we have 2 large collaborations, to immunostain a total of 1200 cases of breast cancer for these "common" proteins, in order to standardize reporting of the results for ER, PR, and factor 8.

We tried 9 different antibodies, and several antigen retrieval methods including a microwaving based protocol (using a number of different incubation solutions) and a pressure cooking protocol (using a citrate solution). We found the pressure cooking protocol to enhance the staining intensity without causing previously negatively characterized specimens to appear positive. Although one disadvantage of this procedure was an increase in the nonspecific background, the enhancement of signal appeared to be worth the tradeoff. We subsequently routinely utilized the pressure cooking protocol for all immunohistochemistry. We have also examined the inclusion of heavy metals (cobalt and nickel) in the DAB reaction, but these were without benefit.

Year 3-4c) Advertise these services to breast cancer investigators at Yale and the University of Connecticut.

Although at first it might seem that the "routine" immunostains of estrogen and progesterone receptors would not cause much response among investigators, the opposite is in fact true. We have advertised our immunostaining services, and many researchers have expressed interest in the newly developed and optimized ER and PR stains for their breast tissues. As noted above, we have progressed to collaborate with 2 investigators, both in epidemiology, to perform these assays on large numbers of patient specimens for analysis of breast cancer risk.

Conclusions

The third full year of support for the Program for Critical Technologies in Breast Oncology has seen many encouraging developments for this important core facility. We have increased the numbers of off-site hospitals involved in the Program. We finished conversion of a database

uniquely suited to our collection, assay, and distribution of tissue products along with anonymous information describing the tissue samples. We collaborated with the Breast Cancer Research Program to obtain patient information for the tissue samples we hold. We continue to work intensely and collaboratively with many different parts of the Hospital, Medical School, University, and Cancer Center to streamline efficient data collection and access. Our numbers of collected breast tissue samples again more than doubled in the past year, and we have distributed more than 14,000 tissue products since the start of the Program.

We are in the second year of collecting and distributing breast cytology specimens, a tissue source not widely available at any institution. We have completely reorganized more than 3 million paraffin blocks so that easy, efficient access is a rule rather than an exception, and have identified all computerized breast cases with malignancies for which blocks are available. We have expanded the research community's knowledge of and requests to the PCTBO for breast tissue products and related clinical information about the samples. We continue to develop translational research, moving research assays closer to clinical utility.

The fourth year will continue in the forward direction toward the goals of the PCTBO. The PCTBO continues to be enthusiastically received by the research community, and is increasingly serving as a resource and model for other academic centers' efforts in setting up similarly successful programs.



Yale University

School of Medicine
Room IE-46 SHM
P.O. Box 208010
333 Cedar Street
New Haven, Connecticut 06520-8010

Human Investigation Committee
Sarah H. Kiskaddon, J.D.
Director

Telephone: 203/785-4688
Fax: 203/785-2847

November 21, 1996

TO: José Costa, M.D.

FROM: Sarah H. Kiskaddon, J.D.
Director

RE: Protocol #7302

TITLE: Program for Critical Technologies in Breast Oncology

Approval of this protocol was renewed by the HIC on November 20, 1996.

This reapproval is provided with the understanding that the samples continue to be distributed without identifiers or information that can be linked to any specific patient.

If you require institutional certification of this protocol for a funding agency, please send me:

1. The form (if any) on which it is to be provided,
2. HIC Form #10 (completed).

SHKkp

Enclosures: Signed HIC Form #5

HIC Form #2



Yale University

School of Medicine
Room IE-46 SHM
P.O. Box 208010
333 Cedar Street
New Haven, Connecticut 06520-8010

Human Investigation Committee
Sarah H. Kiskaddon, J.D.
Director

Telephone: 203/785-4688
Fax: 203/785-2847

REQUEST FOR REAPPROVAL Protocol for Research Involving Human Subjects

Send three (3) copies to the Human Investigation Committee (use continuation sheets if necessary).

HIC Protocol #: 7302

Title of Study: Program for Critical Technologies in
Breast Oncology

Principal Investigator: José Costa M.D. Tel. Ext.: 5-5803

(Signature)

Date: Nov 12-96

Campus Address: EP2-6071

PLEASE LIST ALL CURRENT INVESTIGATORS ON THIS PROTOCOL:

José Costa, Christine Howe, Leticia de Dios, Linda Gutierrez

Brief summary of experience with this research; this should include an estimate of the number of subjects that have been involved: during January through September 1996, we have collected 727 patient cases (4288 individual samples) with excess tissue. We have distributed 1987 samples from our frozen bank to 51 investigators. Paraffin samples (15,333) were distributed to 79 investigators.

Request for modification of protocol or consent form (names of investigators, procedures, subjects, etc.). If consent form is revised, please attach proposed revised form, otherwise attach unrevised form with the validation box on last page blank so that they may be revalidated.

Unforeseen or adverse developments:

Approved by HIC on NOV 20 1996
By: (Signature)

HIC Form #5 (revised 5/93)

Appendix 2: Expanded Protocol for Collection of Breast Tissue Specimens (including fresh viable tissue)

Program for Critical Technologies in Molecular Medicine
Yale University Department of Pathology
203-737-4198 or 203-785-5879

Brief description of the research. The Program for Critical Technologies received a multi-year grant from the U.S. Army Research and Development Command to collect human breast tissue samples and make the specimens available to basic and clinical researchers.

What to collect? Collect "everything:" all tumor specimens, other pathologic specimens, matched normal (cellular) tissue from each case, such as skin, muscle, etc.

How to collect

- 1) Collect or save any tissue needed for diagnosis
- 2) Collect both tumor/pathologic and normal tissue from the excess specimen and freeze in separate OCT molds. If the specimen is large, ALSO COLLECT SPECIMEN IN CULTURE MEDIUM (see below)

OCT molds [large molds, Miles Tissue-Tek #4557, 25x20x5 mm]

Label each mold with

- a) the part number
 - b) the case number
 - c) N "normal" or T "tumor or other pathology" for example:
 - d) a sequential number starting with 1 for each case
- 2)S93-123 N1; 2)S93-123 T2; 2)S93-123 T3, etc.

Put tissue (**maximum 1 cm x 1 cm x 0.5 cm thick**) in mold with OCT

Freeze in isopentane bath by holding mold at surface of the liquid

Label (as above) Bitran bags (3" x 6" in size, #4741-S) along the top of one *long* side.

Remove molds from isopentane, allow to drain briefly, and put molds in Bitran bag(s). If there are more than 2 samples from one case, separate the "T" from the "N" samples in separate bags.

Put samples into -80°C freezer.

- 3) To collect viable tissue in culture medium, work as aseptically as possible (e.g. use fresh razor blade or scalpel, collect from newly exposed portion of the tissue sample). Mince a small portion into approx. 1-2mm cubes and place into "RPMI culture medium" (in refrigerator in 15 ml tubes). These tubes will be collected in the afternoon by the Rapid Case Ascertainment collection person.

Tissue collection triage Timeliness of collection. Although fresher tissue is definitely better, other tissue can be useable, especially for DNA work, and should be collected. Collect tissue with the following priorities for freshness:

- a. Tissue arriving for a frozen section. [Note: extra frozen section unstained slides are useful; store in slide container in a Bitran bag at -80°C]
- b. Tissue hand-carried from the OR.
- c. Routine specimens arriving at surgical pathology.
- d. Autopsy specimens.

Critical Technologies Tissue Procurement — Collection Information

APPENDIX 3

Date Collected 7/22/96	Accession # S 96 13200	Part 1	Collected By Bifulco, C.
Tissue type Breast	How collected	Left or Right? L	
Tissue type opt desc	☒ Frozen Section ☐ Hand carried from OR ☐ Routine Delivery ☐ Autopsy Sample ☐ Hemepath Sample ☐ Possible immuno	Estimated Procurement Time Surgical: after accession Autopsy: postmortem interval	
Metastasis from		Hours	Minutes
		0	25
Thawed ☒ No ☐ Yes ☐ Unknown ☐ Problems			

Collection and Distribution of Tissue (Note: "Tumor" also represents other pathologic/abnormal tissue.)

	OCT		Slide		Snap Frozen		Paraffin		DNA		Cytology	Total
	N	T	N	T	N	T	N	T	N	T		
Collected	1	2					1	1				5
Remaining	1	1					1	1				4 *

Distributions				Add'l. Distributions			Analysis			Samples			
Click on any X to delete its line				Non Frozen Normal	Non Frozen Tumor	How non-frozen given:	OCT N	OCT T	Slide N	Slide T	Snap N	Snap T	
☒	7/22/96	IN024	Crotty, Paul					1					
☒													

Initial entry by CSM **Pairs Left** Yes **Comments**

☐ Add to special find ☐ Path report in file

Created 9/9/96 **Modified** 11/7/96 **Part** PAR8414 **Case** C6116 **PAT** 942 **D**

Critical Technologies Tissue Procurement — Collection Information

Date Collected 7/22/96 Accession # S 96 13200 Part 1 Collected By Bifulco, C.

Tissue type Breast

How collected

- ☒ Frozen Section
☐ Hand carried from OR
☐ Routine Delivery
☐ Autopsy Sample
☐ Hemepath Sample
☐ Possible immuno

Left or Right? L

Tissue type
opt desc

Estimated Procurement Time

Surgical: after accession
Autopsy: postmortem interval

Metastasis
from

Hours Minutes

0 25

Thawed ☒ No ☐ Yes ☐ Unknown ☐ Problems

Collection and Distribution of Tissue

(Note: "Tumor" also represents other pathologic/abnormal tissue.)

	OCT		Slide		Snap Frozen		Paraffin		DNA		Cytology	Total
	N	T	N	T	N	T	N	T	N	T		
Collected	1	2					1	1				5
Remaining	1	1					1	1				4 *

Distributions			Add'l. Distributions			Analysis			Samples		
Distribution Date	Investigator		OCT		Paraffin	Paraffin	Cytology	DNA	DNA		
			Section Normal	Section Tumor							
7/22/96	IN024	Crotty, Paul									

Initial entry by CSM Pairs Left Yes Comments

☐ Add to special find ☐ Path report in file

Created 9/9/96 Modified 11/7/96 Part PAR8414 Case C6116 PT PAT0942

Critical Technologies Tissue Procurement — Collection Information

Date Collected 7/22/96	Accession # S 96 13200	Part 1	Collected By Bifulco, C.
Tissue type Breast	How collected	Left or Right? L	
Tissue type opt desc	☒ Frozen Section ☐ Hand carried from OR ☐ Routine Delivery ☐ Autopsy Sample ☐ Hemepath Sample ☐ Possible immuno	Estimated Procurement Time Surgical: after accession Autopsy: postmortem interval	
Metastasis from		Hours Minutes 0 25	
Thawed ☒ No ☐ Yes ☐ Unknown ☐ Problems			

Collection and Distribution of Tissue (Note: "Tumor" also represents other pathologic/abnormal tissue.)

	OCT		Slide		Snap Frozen		Paraffin		DNA		Cytology	Total
	N	T	N	T	N	T	N	T	N	T		
Collected	1	2					1	1				5
Remaining	1	1					1	1				4 *

Distributions	Add'l. Distributions	Analysis	Samples
To create a new Tissue Analysis, enter the H & E date, then click the View button.			
Analysis ID	H & E Date		
A0010	10/1/96	View Tissue Analysis	
A0011	9/1/96	View Tissue Analysis	
		View Tissue Analysis	

Initial entry by CSM	Pairs Left Yes	Comments
☐ Add to special find ☐ Path report in file		
Created 9/9/96	Modified 11/7/96	Part PAR8414 Case C6116 PT PAT0942

Critical Technologies Tissue Procurement — Collection Information

Date Collected 7/22/96 Accession # S 96 13200 Part 1 Collected By Bifulco, C.

Tissue type Breast

How collected

Left or Right? L

- ☒ Frozen Section
- ☐ Hand carried from OR
- ☐ Routine Delivery
- ☐ Autopsy Sample
- ☐ Hemepath Sample
- ☐ Possible immuno

Estimated Procurement Time

Surgical: after accession

Autopsy: postmortem interval

Tissue type
opt desc

Metastasis
from

Hours Minutes

0 25

Thawed ☒ No ☐ Yes ☐ Unknown

☐ Problems

Collection and Distribution of Tissue

(Note: "Tumor" also represents other pathologic/abnormal tissue.)

	OCT		Slide		Snap Frozen		Paraffin		DNA		Cytology	Total
	N	T	N	T	N	T	N	T	N	T		
Collected	1	2					1	1				5
Remaining	1	1					1	1				4 *

Distributions

Add'l. Distributions

Analysis

Samples

To create a new Sample, enter T1, etc. in the field T/N number.

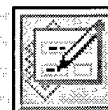
T/N number	Full Distribution	Partial Dist.	Sample ID
N1	No	No	S0010
T1	No	No	S0011

Initial entry by CSM Pairs Left Yes Comments

☐ Add to special find ☐ Path report in file

Created 9/9/96 Modified 11/7/96 Part PAR8414 Case C6116 PT PAT0942

Enter Tissue Analysis



Return to
SurgPath Initial

Tissue Site Breast

Size of Sample ☒ S (< 0.5 cm)
☐ M (0.5 – 1.0 cm)
☐ L (> 1.0 cm)

Cellularity of Tissue ☐ Low
☐ Medium
☐ High

Benign/Malignant? ☒ Normal
☐ Benign
☐ Premalignant
☐ Malignant
☐ In Situ

Size of Tumor

% T cells in sample %

Stage T N M ☐ 0 ☐ I ☐ II ☐ III ☐ IV

Stage Comments

Histologic Tumor Type ☐ Epithelial
☐ Mesenchymal
☐ Other...

Nuclear Grade ☐ Low
☐ Medium
☐ High

Mitotic Rate (for T cells) ☐ Low
☐ Medium
☐ High

Margins ☐ Positive
☐ Negative

Good Morphology? ☒ Yes
☐ No

Differentiation ☐ Good
☐ Moderate
☐ Poor

Grade ☐ I ☐ II ☐ III ☐ IV ☐ V
Grading System

Histologic Diagnosis

fat tissue without malignancy

Case & Block Number

1) S96-13200

Sample Type

☐ Cytology ☒ OCT
☐ DNA ☐ Paraffin
☐ Frozen Section Slide ☐ Snap

Date of Slide Cutting 10/1/96

Specimen Comments

Click on Samples to prepare the updated list of samples.

Samples

S0010 S96-13200 Part 1 N1

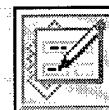
Created 7/22/97

Modified 7/22/97

Analysis A0010

Part PAR8414

Enter Tissue Analysis



Return to
SurgPath Initial

Tissue Site Breast

Size of Sample ☒ S (< 0.5 cm)
☐ M (0.5 – 1.0 cm)
☐ L (> 1.0 cm)

Cellularity of Tissue ☐ Low
☐ Medium
☐ High

Benign/Malignant? ☐ Normal
☐ Benign
☐ Premalignant
☒ Malignant
☐ In Situ

Size of Tumor

% T cells in sample 70 %

Stage T N M ☐ 0 ☐ I ☐ II ☐ III ☐ IV

Stage Comments

Histologic Tumor Type ☒ Epithelial
☐ Mesenchymal
☐ Other...

Nuclear Grade ☐ Low
☒ Medium
☐ High

Mitotic Rate (for T cells) ☐ Low
☐ Medium
☐ High

Margins ☐ Positive
☐ Negative

Good Morphology? ☒ Yes
☐ No

Differentiation ☐ Good
☐ Moderate
☐ Poor

Grade ☐ I ☒ II ☐ III ☐ IV ☐ V

Grading System

Histologic Diagnosis invasive ductal carcinoma, nuclear and histologic grade 2/3, stellate border, tumor necrosis...

Case & Block Number 1) S96-13200

Sample Type ☐ Cytology ☐ OCT
☐ DNA ☐ Paraffin
☐ Frozen Section Slide ☐ Snap

Date of Slide Cutting 9/1/96

Specimen Comments

Click on Samples to prepare the updated list of samples.

Samples

S0011	S96-13200 Part 1 T1	
-------	---------------------	--

Created 7/22/97

Modified 7/22/97

Analysis A0011

Part PAR8414

Yale
Cancer
Center

**Breast Cancer
Research
Program**

Pathology Report

Pathology #

Accession Date 9/6/95

Sign out Date 9/15/95

Surgeon Ward

Pathologist Carter

Tissue Source Breast

Part:	Gross description of Tissue (dimensions only)
Part 1: Mass Right Bre	3 x 4 x 1.2 cm
Part 2: lateral margin R	3 x 1.5 x .7 cm

Final Diagnosis Breast R: intraductal and
infiltrating ductal CA; lateral
margin biopsy benign breast
tissue

Note stellate border, no necrosis, negative
margins

Breast CA Histological grade

II

Estrogen receptors - H-score (0-100)

10

Breast CA Nuclear grade

III

Estrogen receptors - (pmol/mg)

Breast CA Current
Pathological Stage

I invasive, LN
negative

Progesterone receptors - H-score (0-100)

180

Progesterone receptors - (pmol/mg)

T Stage T1 Tumor 2 cm or less in greatest dimension

N Stage N0 No regional lymph nodes metastasis

M Stage

Save

Cancel

Age at Menarche Menses: LMP

**Estrogen
Replacement
Therapy**

Type ERT	Period of ERT
Progesterone	1987 through 1989

**Oral
Contraceptive
Use**

Type of OCP	Period of OCP use
oral contraceptive	1987

Pregnancies (specify number)

Live Births (specify number):

Child(ren)

Child	Birth year
Daughter	1952
Son	

Sibling(s)

Sibling	Birth Year
Brother	1940
Sister	

Family History of Breast CA

Relative with Breast CA	Age of Relative at diagnosis of Breast CA	Current Status	age of death
Mother			

Other Family
History of CA

Yes

grandfather with gastric CA

Save

Cancel

Date of Assessment

Follow-Patient
Status

Alive, with disease

Date of last follow-
up contact

1/1/85

Date of Death

Cause of Death

(If lost to f/u)

Date Last Known
Alive

Date of Relapse/
Progression

Relapse/progression?
(specify site(s))

Date of New
Primary Breast CA

Current Clinical
Stage

Current Pathological
Stage

T Stage

N Stage

NX Regional lymph nodes cannot be assessed

M Stage

Comments:

grandfather with gastric CA

Save

Cancel

Type of Surgery: (related to CA)	Date of Surgery	Tumor Was:	Surgeon
Progestorone			1987 through 1989

Site of Radiotherapy (organ site treated)	Start Date	Stop Date	Total Time (days)	Total Tumor Dose (cGy/rad)	Best Response	Radiation Therapist
oral contraceptive						1987

Chemotherapy:	Number of Courses:	Start date	Stop date	Best Response	Oncologist
	1				
	2				

Endocrine Therapy (list individual agents, use generic name)	Start Date	Stop Date	Best Response	Oncologist
			Complete	
			Partial	

Save

Cancel

Log sheet, breast cancer tissue collection from Connecticut hospitals, Yale IRB#7302
Program for Critical Technologies, Yale University Department of Pathology

Please include a Pathology Report for each case. Bonnie Kaye (phone 203-764-9979) will remove any patient identifiers (name, hospital number) from the Pathology Report and assign it a Yale ID. The same ID will be given to the tissue samples, and the left columns of this page will be cut off. In this way, any reference to patient identity can be destroyed before samples are received by Yale.

(These columns will be cut off to remove patient identifiers)

(Bonnie Kaye to fill out:)

[illegible]

Collection sheet 3/7/97

APPENDIX 6

HIC Form #14

HIC #

**Summary Sheet for Pathology Department Tissue and/or Information
Yale University School of Medicine and Yale-New Haven Hospital**

NOTE: THIS SHEET MUST BE RETURNED TO PATHOLOGY AFTER HIC APPROVAL IS OBTAINED.
Before planning any research involving Pathology samples or information, please consult with a
Pathology Department contact person for advice as to the feasibility and possible costs of the research.
HIC approval does NOT guarantee that any or all requested samples or information can be supplied.

Date

A. General information:Principal investigator
Last name First name

Mailing address Telephone

Other investigators to receive tissue and/or information
Last name First name

Charging number Funding source

Title of grant/contract

Grant/contract is ☐ pending ☐ funded If funded, grant number**B. Protocol will involve the following:**

Title of project:

1. Number of subjects 2. Yale-New Haven Hospital cases only? ☐ Yes ☐ No
3. Age ☐ Adult ☐ Child 0-15 yrs ☐ Fetus 20+ wks ☐ Fetus <20 wks 4. Sex ☐ Female ☐ Male ☐ Either
5. Known disease, diagnosis, etc.
6. Type(s) of tissues
7. Tissues/information to be tested/used for
8. Consent (check one) 9. Tissue requested (check one or more)
☐ a. informed consent (please attach form) ☐ a. none (skip to question 13)
☐ b. clinical notification (circle: Surgical/Autopsy/Cytology) ☐ b. recuts of paraffin blocks
☐ c. HIC waiver of consent ☐ c. frozen tissue
☐ d. fresh tissue
10. Is all of the requested tissue already collected? ☐ Yes ☐ No ☐ e. other:
11. Tissue collection method (check one) 12. Tissue identification requested (check one)
☐ a. procedure solely for research ☐ a. patient identified, e.g. Pathology case #
☐ b. additional during medical procedure ☐ b. patient not identified in any way
☐ c. excess after path. exam. ("discarded" tissue) ☐ c. patient identity coded by (fill in name):
☐ d. use of diagnostic paraffin blocks
13. Information requested (check one or more)
☐ a. account on computerized Pathology Information System (includes patient name)
☐ b. Pathology Reports (includes patient name)
☐ c. list of Pathology case #s (includes patient name); e.g. SNOMED search of database
☐ d. minimal information about unidentified or coded tissues
☐ e. other:

C. Reviewed by Pathology for submission to HIC:

Pathology department contact person

Anatomical Pathology (for tissue requests)

D. For HIC use only:

Approval date Expiration date Human Investigation Committee

Tissue Bank Collections

APPENDIX 7

Report Period: 7/1/96 to 6/30/97

Date Frozen	Accession Type & No.	Tissue type	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
7/1/96	S96-11971	Breast	2	2									
7/11/96	S96-12529	Breast	3	3									
7/17/96	S96-12813	breast							2	2			
7/18/96	S96-13032	Breast	2	2									
7/19/96	S96-13104	breast	1	1			2	1					
7/19/96	S96-13116	Breast	2	2									
7/22/96	S96-13200	Breast	1	2					1	1			
7/23/96	S96-13317	Breast	2										
7/26/96	S96-13599	Breast	1	1					1	1			
7/29/96	S96-13696	Breast					1	1					
8/2/96	S96-13819	Breast		1									
8/2/96	S96-13994	Breast				19							
8/6/96	S96-14235	Breast				19							
8/14/96	S96-14677	Breast							1	1			
8/13/96	S96-14677	Breast				23							
8/13/96	S96-14740	Breast				23							
8/14/96	S96-14845	Breast	2	2					1	1			
8/15/96	S96-14933	Breast	2	2			1						
8/19/96	S96-15151	Breast				23							
8/20/96	S96-15209	Breast	1	1									
8/21/96	S96-15409	Breast		1									
8/22/96	S96-15429	Breast				46							
8/26/96	S96-15640	Breast		1									
8/26/96	S96-15790	Breast	1	1					1	1			
8/30/96	S96-15924	Breast	1	1					1				
9/3/96	S96-16022	Breast				23							
9/3/96	S96-16028	Breast	1	1									
9/3/96	S96-16033	Breast		2									
9/4/96	S96-16112	Breast	1	1									
9/6/96	S96-16318	Breast	1	1									
9/6/96	S96-16318	Breast				23							
9/6/96	S96-16339	Breast	1	1									
9/10/96	S96-16496	Breast	2	2					1	1			
9/10/96	S96-16568	Breast											
9/12/96	S96-16688	Breast					1	1					
9/12/96	S96-16688	Breast				23							

Tissue Bank Collections

Report Period: 7/1/96 to 6/30/97

Date Frozen	Accession Type & No.	Tissue type	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
9/13/96	S96-16829	Breast	2	2									
9/16/96	S96-16903	Breast					1	1					
9/16/96	S96-16915	Breast	1	1									
9/16/96	S96-16915	Breast slides				23							
9/17/96	S96-17024	Breast					1	1					
9/18/96	S96-17111	Breast slides				23							
9/20/96	S96-17260	Breast		2									
9/20/96	S96-17314	Breast					1	1					
9/23/96	S96-17383	Breast	2	2									
9/24/96	S96-17478	Breast slides				23							
9/24/96	S96-17549	Breast modified	3	3									
9/24/96	S96-17549	Breast slides				23							
9/24/96	S96-17549	Breast		1									
9/24/96	S96-17549	Breast		1									
9/27/96	S96-17780	Breast		1									
9/30/96	S96-17850	Breast fibroadenoma		2									
10/1/96	S96-17930	Breast	1	1					1	1			
10/1/96	S96-17934	Breast	1	3					1	2			
10/4/96	S96-18242	Breast							1	1			
10/11/96	S96-18604	Breast											
10/11/96	S96-18669	Breast	1	1									
10/11/96	S96-18669	Breast slides				23							
10/14/96	S96-18828	Breast		1									
10/18/96	S96-19220	Breast slides				23							
10/21/96	S96-19355	Breast	1	1									
10/21/96	S96-19355	Breast slides				23							
10/22/96	S96-19386	Breast slides				23							
10/22/96	S96-19428	Breast slides				23							
10/22/96	S96-19436	Breast slides				23							
10/22/96	S96-19436	Breast		1									
10/23/96	S96-19542	Breast slides				20	12	12	2	2			
10/23/96	S96-19542	Breast slides				23							
10/25/96	S96-19724	Breast	1	1									
10/25/96	S96-19724	Breast		1									
10/25/96	S96-19738	Breast	2	2									
10/28/96	S96-19839	Breast	1	1									

-31-

Tissue Bank Collections

Report Period: 7/1/96 to 6/30/97

Date Frozen	Accession Type & No.	Tissue type	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
10/29/96	S96-19905	Breast				6							
10/30/96	S96-20019	Breast				23							
10/31/96	S96-20090	Breast	1	1									
10/31/96	S96-20090	Breast				23							
11/6/96	S96-20209	Breast	1	1									
11/4/96	S96-20282	Breast				19							
11/11/96	S96-20663	Breast					1	1					
11/8/96	S96-20663	Breast				23							
11/13/96	S96-21002	Breast				23							
11/20/96	S96-21494	Breast							1	1			
11/22/96	S96-21790	Breast	4	3									
11/22/96	S96-21790	Breast				23							
11/22/96	S96-21790	Breast	4	3					1	1			
11/22/96	S96-21790	Breast											
11/22/96	S96-21790	Breast											
11/22/96	S96-21790	Breast											
11/22/96	S96-21790	Breast											
11/26/96	S96-21954	Breast	3	3									
11/26/96	S96-21954	Breast	2	2									
11/27/96	S96-22120	Breast					1	1					
12/13/96	S96-22622	Breast				23							
12/9/96	S96-22755	Breast	1	1									
12/9/96	S96-22785	Breast	1	1									
12/18/96	S96-23498	Breast					1						
12/27/96	S96-23952	Breast				23							
1/3/97	S97-76	Breast				23							
1/6/97	S97-180	Breast	2	2									
1/8/97	S97-359	Breast	2	2									
1/8/97	S97-359	Breast				15							
1/10/97	S97-592	Breast	2	2									
1/13/97	S97-592	Breast	2	2									
1/10/97	S97-592	Breast				23							
1/13/97	S97-694	Breast					1	2					
1/13/97	S97-694	Breast					1	2					
1/16/97	S97-975	Breast				23							
1/17/97	S97-1156	Breast		3									
1/28/97	S97-1834	Breast	1	1						1			
1/27/97	S97-1834	Breast				23							
1/28/97	S97-1865	Breast	1	1									

-32-

Tissue Bank Collections

Report Period: 7/1/96 to 6/30/97

Date Frozen	Accession Type & No.	Tissue type	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
1/28/97	S97-1865	Breast				15							
2/11/97	S97-2402	Breast				23							
2/6/97	S97-2644	Breast							1	1			
2/7/97	S97-2695	Breast	1	1									
2/12/97	S97-3027	Breast	4	10				3	2	2			
2/18/97	S97-3455	Breast	2	2									
2/18/97	S97-3455	Breast				15							
2/19/97	S97-3509	Breast	3	3					2	2			
2/19/97	S97-3524	Breast	1	1									
2/19/97	S97-3524	Breast											
2/24/97	S97-3840	Breast			1	23							
2/26/97	S97-3987	Breast	1	1		1							
2/27/97	S97-4099	Breast	2	2									
2/27/97	S97-4099	Breast				23							
3/4/97	S97-4438	Breast	1	1									
3/4/97	S97-4438	Breast				23							
3/13/97	S97-5192	Breast				15							
3/14/97	S97-5224	Breast				23							
2/27/97	S97-5237	Breast	1	1									
2/27/97	S97-5237	Breast				23							
3/18/97	S97-5432	Breast	1	1									
3/20/97	S97-5612	Breast	1	1									
3/14/97	S97-5828	Breast				23							
3/24/97	S97-5862	Breast	1	1									
3/31/97	S97-6237	Breast	1	1									
3/31/97	S97-6297	Breast	2	2									
4/1/97	S97-6318	Breast				23							
4/4/97	S97-6623	Breast	2	3									
4/7/97	S97-6735	Breast	1	1									
4/7/97	S97-6735	Breast				15							
4/7/97	S97-6779	Breast				15							
4/7/97	S97-6786	Breast	1	1									
4/11/97	S97-7157	Breast		2									
4/15/97	S97-7412	Breast							1	1			
4/22/97	S97-7890	Breast	2	5									
4/23/97	S97-7957	Breast	3	5			1	1					

-33-

Tissue Bank Collections

Report Period: 7/1/96 to 6/30/97

Date Frozen	Accession Type & No.	Tissue type	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
4/23/97	S97-7957	Breast				23							
5/28/97	S97-8226	Breast				15							
5/1/97	S97-8545	Breast	1	1									
5/9/97	S97-9271	Breast				15							
5/13/97	S97-9441	Breast	1	1									
5/13/97	S97-9451	Breast				23							
5/13/97	S97-9456	Breast				23							
5/16/97	S97-9732	Breast				23							
5/30/97	S97-10411	Breast				15							
5/30/97	S97-10676	Breast	1	1									
5/30/97	S97-10676	Breast				15							
6/17/97	S97-10715	Breast				15							
6/3/97	S97-10915	Breast	1	1									
6/3/97	S97-10915	Breast				15							
6/4/97	S97-11013	Breast	4	4				1					
6/4/97	S97-11013	Breast				15							
6/10/97	S97-11381	Breast	2	2									
6/10/97	S97-11492	Breast					1	1					
6/13/97	S97-11873	Breast	1	1									
6/17/97	S97-12022	Breast	1	1									
6/17/97	S97-12022	Breast				23							
6/17/97	S97-12063	Breast	1	1									
6/17/97	S97-12063	Breast				23							
6/27/97	S97-12930	Breast							1	1			
6/27/97	S97-12930	Breast				23							
6/30/97	S97-13104	Breast	1	1									
6/30/97	S97-13104	Breast				23							
Total Entries: 171			115	147	1	1337	27	30	23	24	0		

-34-

Cytology Tissue Bank Collections

Report Period: 7/1/96 to 6/30/97

Breast related specimens

APPENDIX 8

Date Frozen	Accession # & part #	Tissue type	Cytology Volume	Cytology Box #	Diagnosis
7-18-96	C96-5966	FNA LT BREAST WASH	12	39	- CONTENTS OF A CYST AND FEW GROUPS OF
7-24-96	C96-6102	2 FNA LT BREAST WASH	10	39	-POSITIVE: DUCTAL CARCINOMA.
7-8-96	C96-5607	2 FNA LT BREAST WASH	20	40	- POSITIVE FOR MALIGNANT CELLS
7-11-96	C96-5755	2 FNA LT BREAST WASH	12	41	- FRAGMENTS OF FAT WITH A SUGGESTION OF FAT
7-15-96	C96-5827	2 FNA LT BREAST WASH	20	41	- PURULENT EXUDATE CONSISTENT WITH ABSCESS.
7-17-96	C96-5906	2 FNA LT BREAST WASH	20	41	- INADEQUATE SPECIMEN: FEW SQUAMOUS CELLS
7-18-96	C96-5935	2 FNA RIGHT BREAST	15	41	- PAUCICELLULAR SPECIMEN
8-1-96	C96-6394	BREAST FNA-FINE	20	42	-NON-DIAGNOSTIC. SPECIMEN CONSISTS OF
8-1-96	C96-6396	2 BREAST FNA-FINE	20	42	-NEGATIVE FOR MALIGNANT CELLS.
8-8-96	C96-6590	2 FNA LT BREAST WASH	17	44	- NEGATIVE FOR MALIGNANT CELLS
8-8-96	C96-6634	FNA LT BREAST FLUID	20	44	- NEGATIVE FOR MALIGNANT CELLS
8-14-96	C96-6806	2 FNA LT BREAST WASH	20	45	- POSITIVE FOR MALIGNANT CELLS (SEE NOTE)
8-2-96	C96-6455	2 RIGHT BREAST 11:00;	13	45	- NEGATIVE FOR MALIGNANT CELLS
8-15-96	C96-6857	2 FNA RT BREAST WASH	15	46	- POSITIVE FOR MALIGNANT CELLS
8-19-96	C96-6921	LEFT BREAST CYST	20	46	- NEGATIVE FOR MALIGNANT CELLS
8-20-96	C96-6982	FNA LT BREAST WASH	20	46	- MARKEDLY ATYPICAL DUCT CELLS ARE PRESENT
9-4-96	C96-7385	1 FNA LT BREAST 3:00	20	48	- MARKED PURULENT EXUDATE CONSISTENT WITH
9-4-96	C96-7385	3 FNA LT BREAST 2:00	20	48	- MARKED PURULENT EXUDATE CONSISTENT WITH
9-5-96	C96-7421	FNA RT BREAST FLUID	16	48	- CYSTIC CONTENTS AND APOCRINE CELLS
9-5-96	C96-7463	2 FNA RT BREAST WASH	18	48	FEW GROUPS OF CYTOLOGICALLY BLAND BREAST
9-6-96	C96-7484	2 FNA RT BREAST WASH	15	48	- INADEQUATE FOR PROPER EVALUATION (NO
9-6-96	C96-7485	2 FNA BREAST WASH	10	48	- SCATTERED GROUPS OF CYTOLOGICALLY BLAND
9-9-96	C96-7572	2 RT BREAST CYST	20	49	- NUMEROUS NEUTROPHILS, POSSIBLY
9-13-96	C96-7784	FNA RT BREAST FLUID	10	49	- NEGATIVE FOR MALIGNANT CELLS
9-18-96	C96-7890	2 FNA LT BREAST WASH	10	50	- NEGATIVE FOR MALIGNANT CELLS
9-27-96	C96-8312	2 FNA LT BREAST WASH	10	51	- POSITIVE FOR MALIGNANT CELLS
10-1-96	C96-8384	2 FNA RT BREAST WASH	20	51	- NEGATIVE FOR MALIGNANT CELLS
10-2-96	C96-8457	2 FNA LT BREAST WASH	15	51	- NEGATIVE FOR MALIGNANT CELLS
10-3-96	C96-8463	FNA LT BREAST FLUID	15	51	- NEGATIVE FOR MALIGNANT CELLS
10-8-96	C96-8673	2 FNA LT BREAST WASH	52	52	- SEVERELY ATYPICAL CELLS (SEE NOTE)
10-10-96	C96-8784	2 BREAST FNA-FINE	20	52	-POSITIVE FOR MALIGNANT CELLS
10-16-96	C96-9030	2 FNA LT BREAST WASH	20	53	- NEGATIVE FOR MALIGNANT CELLS
10-17-96	C96-9076	2 FNA LT BREAST WASH	15	53	- NEGATIVE FOR MALIGNANT CELLS

Cytology Tissue Bank Collections

Report Period: 7/1/96 to 6/30/97

Breast related specimens

Date Frozen	Accession # & part #	Tissue type	Cytology Volume	Cytology Box #	Diagnosis
10-21-96	C96-9168	RT BREAST FLUID	2	54	- NEGATIVE FOR MALIGNANT CELLS
11-7-96	C96-9803	2 RIGHT BREAST WASH	20	56	NON-DIAGNOSTIC.
10-29-96	C96-9460	2 FNA LT BREAST WASH	10	56	SEVERELY ATYPICAL CELLS (SEE NOTE)
10-31-96	C96-9546	2 FNA LT BREAST WASH	17	56	SEVERELY ATYPICAL CELLS
11-12-96	C96-9891	FNA LT BREAST FLUID	10	57	NEGATIVE FOR MALIGNANT CELLS
11-14-96	C96-10050	2 FNA RT BREAST WASH	20	57	POSITIVE FOR MALIGNANT CELLS
11-19-96	C96-10189	FNA RT BREAST FLUID	17	58	-RARE SMALL CLUSTERS OF APOCRINE-TYPE CELLS
11-25-96	C96-10336	2 FINE NEEDLE	1	59	GROUPS OF CYTOLOGICALLY BLAND DUCTAL
11-25-96	C96-10340	2 FNA; LEFT BREAST	10	59	CELLULAR SMEAR COMPOSED OF MARKEDLY
11-26-96	C96-10427	2 FNA RT BREAST WASH	1	59	MODERATELY ATYPICAL EPITHELIAL CELLS (SEE
12-9-96	C96-10769	2 BREAST FNA-FINE	20	63	NON-DIAGNOSTIC DUE TO INSUFFICIENT
12-17-96	C96-11045	FNA RT BREAST FLUID	10	64	NEGATIVE FOR MALIGNANT CELLS
12-17-96	C96-11059	2 FNA RT BREAST WASH	20	64	SEVERELY ATYPICAL CELLS (SEE NOTE)
12-18-96	C96-11108	2 FNA RT BREAST WASH	10	64	: This patient shows clusters of atypical ductal cells
12-26-96	C96-11350	FNA LT BREAST FLUID	15	65	NEGATIVE FOR MALIGNANT CELLS
1-7-97	C97-91	FNA RT BREAST FLUID	20	65	CYSTIC FEATURES AND DUCTAL CELLS EXHIBITING
1-9-97	C97-278	FNA RT BREAST FLUID	15	66	TOO FEW CELLS PRESENT FOR ADEQUATE
1-13-97	C97-468	FNA LT BREAST FLUID	17	66	NEGATIVE FOR MALIGNANT CELLS
1-13-97	C97-475	2 FNA LT BREAST WASH	15	66	CELLULAR SMEARS SHOW NUMEROUS
1-22-97	C97-968	2 FNA RT BREAST WASH	20	70	DEGENERATED CELLULAR DEBRIS AND RARE
1-22-97	C97-969	2 FNA LT BREAST WASH	15	70	NEGATIVE FOR MALIGNANT CELLS.
1-22-97	C97-970	2 FNA LT BREAST WASH	10	70	POSITIVE FOR MALIGNANT CELLS CONSISTENT
1-23-97	C97-1076	FNA RT BREAST FLUID	20	70	NEGATIVE FOR MALIGNANT CELLS.
1-23-97	C97-1076	FNA RT BREAST FLUID	20	70	NEGATIVE FOR MALIGNANT CELLS.
1-24-97	C97-1171	FNA BREAST	10	70	CLUSTERS OF EPITHELIAL CELLS ARE PRESENT IN A
2-13-97	C97-2203	2 FNA RT BREAST WASH	17	75	NEGATIVE FOR MALIGNANT CELLS
3-13-97	C97-3685	2 BREAST FNA-FINE	3	79	NON DIAGNOSTIC DUE TO INSUFFICIENT
5-5-97	C97-6454	2 FNA LT BREAST WASH	20	79	NEGATIVE FOR MALIGNANT CELLS
5-8-97	C97-6643	FNA LT BREAST FLUID	15	79	NEGATIVE FOR MALIGNANT CELLS
5-13-97	C97-6954	2 FNA LT BREAST WASH	2	79	NON-DIAGNOSTIC
5-19-97	C97-7349	2 FNA RT BREAST WASH	3	79	CELLULAR CLUSTERS OF DUCTAL EPITHELIAL CELLS
5-22-97	C97-7627	2 FNA LT BREAST WASH	10	79	POSITIVE FOR MALIGNANT CELLS
5-22-97	C97-7629	2 FNA RT BREAST WASH	3	81	NEGATIVE FOR MALIGNANT CELLS

Cytology Tissue Bank Collections

Report Period: 7/1/96 to 6/30/97

Breast related specimens

Date Frozen	Accession # & part #	Tissue type	Cytology Volume	Cytology Box #	Diagnosis
6-4-97	C97-8141 2	FNA LT BREAST WASH	2	81	NEGATIVE FOR MALIGNANT CELLS
6-10-97	C97-8492 2	FNA LT BREAST WASH	2	81	FIBROADIPOSE TISSUE ONLY
6-10-97	C97-8553 2	FNA RT BREAST WASH	20	81	CYSTIC CONTENTS AND SCATTERED ATYPICAL
6-13-97	C97-8837 2	FNA RT BREAST WASH	2	81	HIGH CELLULARITY
6-16-97	C97-8853 2	FNA LT BREAST WASH	2	81	ABUNDANT BENIGN DUCTAL EPITHELIUM
6-19-97	C97-9183 2	FNA LT BREAST WASH	15	81	CLUSTERS OF POORLY PRESERVED DUCTAL CELLS
6-20-97	C97-9271 2	FNA LT BREAST WASH	10	81	POSITIVE FOR MALIGNANT CELLS

Totals: 73 Cases collected

APPENDIX 9

Tissue Distribution Report

Report Period: 7/1/96 to 6/30/97

Tissue Type	Accession #	Dist. Date	Non-frozen Normal	Non-frozen Tumor	OCT Normal Whole	OCT Normal Sect.	OCT Tumor Whole	OCT Tumor Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
CROTTY, PAUL												
breast	S96-13104	7/19/96									2	1
Breast	S96-13200	7/22/96					1					
Breast	S96-13116	8/12/96			1						1	
Breast	S96-14933	8/15/96									1	1
Breast	S97-694	1/20/97									4	2
Breast	5 Cases	Sect			1		1				4	2
Total for PI	5 Cases	Sect			1		1				4	2
DECAMILLI, PIETRO												
Breast	S95-792	1/24/97					1					
Breast	S95-16934	1/24/97					1					
Breast	S96-280	1/24/97			1							
Breast	S96-2704	1/24/97			1							
Breast	S96-5085	1/24/97					1					
Breast	S96-7741	1/24/97					1					
Breast	S96-9109	1/24/97										
Breast	S96-10799	1/24/97			1							
Breast	S96-10950	1/24/97					1					
Breast	S96-11690	1/24/97					1					
Breast	S96-16496	1/24/97					1					
Breast	S96-17383	1/24/97					1					
Breast	S96-17549	1/24/97					1					
Breast	13 Cases	Sect			3		10					
Total for PI	13 Cases	Sect			3		10					
GAREN, ALAN												
Breast	S96-167	8/19/96				20						
Print Date: 7/25/97 Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997 Page 1												

Tissue Distribution Report

Report Period: 7/1/96 to 6/30/97

Tissue Type	Accession #	Dist. Date	Non-frozen Normal	Non-frozen Tumor	OCT Normal Whole	OCT Normal Sect.	OCT Tumor Whole	OCT Tumor Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
Breast	S96-11174	11/6/96				10						
Breast	S96-16915	11/11/96						10				
Breast	3 Cases	40 Sect				30		10				
Total for PI	3 Cases	40 Sect				30		10				
GOMES, FAY												
Breast	S96-15924	8/30/96	1									
Breast	1 Cases	Sect	1									
Total for PI	1 Cases	Sect	1									
HOCHBERG, RICHARD												
Breast	slides	S96-13994								4		
Breast	slides	S96-14235								4		
Breast	slides	S96-14740								8		
Breast	slides	S96-14677								8		
Breast	slides	S96-15151								8		
Breast	slides	S96-15429								16		
Breast	slides	S96-16318										
Breast	slides	S96-16022								8		
Breast	slides	S96-16688								8		
Breast	slides	S96-16915								8		
Breast	slides	S96-17111								8		
Breast	slides	S96-17478								8		
Breast	slides	S96-17549								8		
Breast	slides	S96-18669								8		
Breast	slides	S96-19220								8		
Breast	slides	S96-19355								8		
Breast	slides	S96-19386								8		

Print Date: 7/25/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 2

Tissue Distribution Report

Report Period: 7/1/96 to 6/30/97

Tissue Type	Accession #	Dist. Date	Non-frozen Normal	Non-frozen Tumor	OCT Normal Whole	OCT Normal Sect.	OCT Tumor Whole	OCT Tumor Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
Breast	S96-19428	10/22/96								8		
Breast	S96-19436	10/22/96								8		
Breast	S96-19542	10/23/96								8		
Breast	S96-20019	10/30/96								8		
Breast	S96-20090	10/31/96								8		
Breast	S96-20282	11/4/96								4		
Breast	S96-20663	11/8/96								8		
Breast	S96-21002	11/13/96								8		
Breast	S96-21790	11/22/96								8		
Breast	S96-22622	12/13/96								8		
Breast	S96-23952	12/27/96								8		
Breast	S97-76	1/20/97								8		
Breast	S97-592	1/20/97								8		
Breast	S97-975	1/20/97								8		
Breast	S97-1834	1/27/97								8		
Breast	S97-2402	2/11/97								8		
Breast	S97-3524	2/19/97								8		
Breast	S97-4099	2/27/97								8		
Breast	S97-4438	3/4/97								8		
Breast	S97-5224	3/14/97								8		
Breast	S97-5237	3/14/97								8		
Breast	S97-5828	3/24/97								8		
Breast	S97-6318	4/1/97								8		
Breast	S97-9451	5/30/97								8		
Breast	S97-9456	5/30/97								8		
Breast	S97-7957	5/30/97								8		
Breast	S97-9732	5/30/97								8		
Breast	S97-11013	6/4/97								8		1
Breast	S97-12063	6/17/97								8		

Print Date: 7/25/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 3

Report Period: 7/1/96 to 6/30/97

Page 4

Tissue Distribution Report

Report Period: 7/1/96 to 6/30/97

13300 Distribution Report

Tissue Type	Accession #		Dist. Date	Non-frozen Normal	Non-frozen Tumor	OCT Normal Whole	OCT Normal Sect.	OCT Tumor Whole	OCT Tumor Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
Breast	1 Cases	1 Wholes	Sect										
Total for PI	1 Cases	1 Wholes	Sect										
PERROTA, PETER													
Breast	upper quadrant	S96-2281	1/21/97								5		
Breast	slides	S96-1171	1/21/97								5		
Breast	slides	S96-319	1/21/97								5		
Breast	slides	S96-797	1/21/97								5		
Breast	slides	S96-800	1/21/97								5		
Breast	slides	S96-900	1/21/97								5		
Breast	slides	S96-946	1/21/97								5		
Breast	slides	S96-2595	1/21/97								5		
Breast	slides	S96-3130	1/21/97								5		
Breast	slides	S96-3344	1/21/97								5		
Breast	slides	S96-3765	1/21/97								5		
Breast	11 Cases	0 Wholes	55 Sect								55		
Total for PI	11 Cases	0 Wholes	55 Sect								55		
PIZZORNO,													
Breast		S96-4873	5/7/97					1					1
Breast		S96-19542	5/7/97										
Breast		S97-11013	6/18/97						1				
Breast	3 Cases	3 Wholes	Sect					1					1
Total for PI	3 Cases	3 Wholes	Sect					1					1
REISS, MICHAEL													
Breast		S95-4997	5/15/97						5				

Print Date: 7/25/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 5

Tissue Distribution Report

Report Period: 7/1/96 to 6/30/97

Tissue Type	Accession #	Dist. Date	Non-frozen Normal	Non-frozen Tumor	OCT Normal Whole	OCT Normal Sect.	OCT Tumor Whole	OCT Tumor Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
Breast	S95-6255	5/15/97						5				
Breast	S95-6687	5/15/97						5				
Breast	S95-2940	5/15/97						5				
Breast	S95-4153	5/15/97						5				
Breast	S95-12161	5/15/97						5				
Breast	S95-10548	5/15/97						5				
Breast	S95-10798	5/15/97						5				
Breast	S95-11709	5/15/97						5				
Breast	S95-11746	5/15/97						5				
Breast	S95-20273	5/15/97						5				
Breast	S95-20259	5/15/97						5				
Breast	S95-17985	5/15/97						5				
Breast	S95-22574	5/15/97						5				
Breast	S96-946	5/15/97						5				
Breast	S96-1808	5/15/97						5				
Breast	S96-2281	5/15/97						5				
Breast	S96-2595	5/15/97						5				
Breast	S96-3130	5/15/97						5				
Breast	S96-4093	5/15/97						5				
Breast	S96-4104	5/15/97						5				
Breast	S96-4629	5/15/97										
Breast	S96-4775	5/15/97						5				
Breast	S96-5085	5/15/97						5				
Breast	S96-5683	5/15/97						5				
Breast	S96-6365	5/15/97						5				
Breast	S96-7457	5/15/97						5				
Breast	S96-8335	5/15/97						5				
Breast	S96-10337	5/15/97						5				
Breast	S96-10541	5/15/97						5				

slides

Tissue Distribution Report

Report Period: 7/1/96 to 6/30/97

Tissue Type	Accession #	Dist. Date	Non-frozen Normal	Non-frozen Tumor	OCT Normal Whole	OCT Normal Sect.	OCT Tumor Whole	OCT Tumor Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
Breast	S96-10630	5/15/97						5				
Breast	S96-10704	5/15/97						5				
Breast	S96-11631	5/15/97						5				
Breast	S96-11690	5/15/97						5				
Breast	S96-11971	5/15/97						5				
Breast	S96-13200	5/15/97						5				
Breast	S96-16022	5/15/97						5	5			
Breast	S96-16496	5/15/97						5				
Breast	S96-17549	5/15/97						5				
Breast	S96-11566	5/15/97						5				
Breast	S96-7741	5/15/97						5				
Breast	S96-4443	5/15/97						5				
Breast	S96-3302	5/15/97						5				
Breast	S96-2709	5/15/97						5				
Breast	S97-359	5/15/97						5				
Breast	S97-592	5/15/97						5				
Breast	46 Cases	225 Sect						220	5			
Total for PI	46 Cases	225 Sect						220	5			
RIMM, DAVID												
Breast	S96-10541	7/18/96			1		1					
Breast	S96-11434	7/18/96			1		1					
Breast	S96-11227	7/18/96			1		1					
Breast	3 Cases	Sect			3		3					
Total for PI	3 Cases	Sect			3		3					
SAPI, EVA												
Breast	S96-946	3/10/97				3						
Print Date: 7/25/97 Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997 Page 7												

Tissue Distribution Report

Report Period: 7/1/96 to 6/30/97

Tissue Type	Accession #	Dist. Date	Non-frozen Normal	Non-frozen Tumor	OCT Normal Whole	OCT Normal Sect.	OCT Tumor Whole	OCT Tumor Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
Breast	S96-2281	3/10/97				3						
Breast	S96-2595	3/10/97				3						
Breast	S96-3344	3/26/97		slides						5		
Breast	S96-4095	3/26/97		slides						5		
Breast	S96-3765	3/26/97		slides						5		
Breast	6 Cases	24 Sect				9				15		
Total for PI	6 Cases	24 Sect				9				15		
Grand Totals	157 Cases	38 Wholes	1		9	39	15	310	447		4	4

128 R

APPENDIX 10

LOG OF BREAST TISSUE SPECIMENS

N = new case
D = old case

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Examination	Date In	Date Out	Amount
6/28/96	S96-111074	prt 1		1				1 small
6/28/96	S96-11129	prt 1		1				3 small
6/28/96	S96-11434	prt 1		1				3 small
6/28/96	S96-11204	prt 2		1				1 small
6/28/96	S96-11229	prt 1		1				1 small
6/28/96	S96-11532	prt 1		1				2 small
6/28/96	S96-11620	prt 1		1				1 small
7/1/96	S96-11983	prt -1		1				1 small
7/1/96	S96-11991	prt -1		1				1 small
7/1/96	S96-11984	prt 1+2		1				2 small
7/1/96	S96-11984	prt -1		2	✓	7/1/96	7/1/96	1 small
7/2/96	S96-11566	prt 2		1	✓	6/24/96	7/2/96	2 small
7/2/96	S96-11583	prt 3		1	✓	6/26/96	7/2/96	3 small
7/2/96	S96-12084	prt 1		1				1 small

Dr Ward

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Examination	Date In	Date Out	Amount
7/8/96	S96-12315	part 1		1				1 small DR Ward
7/8/96	S96-12334	part 1		1				1 small Dr. Ward
7/9/96	S96-11566	part 2		1				1 small
7/9/96	S96-11971	part 1		1				1 small
7/9/96	S96-11983	part 1		1				1 small
7/9/96	S96-11984	part 2		1				3 small
7/9/96	S96-11984	part 1		1				3 small
7/9/96	S96-12257	part 1		1				2 small
7/9/96	S96-12257	part 2		1				2 small
7/10/96	S96-12474	part 1		1				1 small
7/11/96	S96-12529	part 1		1				1 small
7/15/96	S96-12678	part 1		1				1 small DR Ward
7/15/96	S96-12772	part 1		1				1 small Dr. Horowitz

Contact:

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Dr. Zheng (5-2882)
 Dr. Dubrow (5-6268)
 Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Estimable	Date In	Date Out	Amount
7/6/96	S96-12876	part 1 & 2		1				2 small Dr. Ward
7/16/96	S96-11690	prt. 1		1				2 small
7/16/96	S96-12876	prt. 1		1				1 small
7/16/96	S96-12828	prt. 1		1				1 small
7/17/96	S96-12813	prt. 1		1	1	7/16/96	7/17/96	1 small
7/18/96	S96-12529	prt. 1		1	1	7/11/96	7/18/96	2 small
7/18/96	S96-12693	prt. 1		1	1	7/12/96	7/18/96	1 small
7/18/96	S96-12703	prt. 1		1	1	7/15/96	7/18/96	1 small
7/18/96	S96-12746	prt. 1		1	1	7/16/96	7/18/96	1 small
7/18/96	S96-12849	prt. 1		1				1 small
7/19/96	S96-12936	prt. 1		1				1 small
7/18/96	S96-13104	prt. 1		1				3 small
7/18/96	S96-13081	prt. 1		1				1 small Dr. Sellars
7/19/96	S96-13116	prt. 1		1				

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOVAge	Type of Tissue	Examination	Date in	Examination	Amount
7/19/96	S96-13104	part 1		1				1 small
7/19/96	S96-13200	part 1		1				1 small
7/22/96	S96-13116	part 1		1				1 small
7/23/96	S96-13316	part 1		1	✓	7/23/96	7/24/96	1 small
7/24/96	S96-13200	part 1		1				1 small
7/24/96	S96-13316	part 2		1	✓	7/23/96	7/24/96	1 small
7/24/96	S96-13316	part 1		1	✓	7/24/96	7/25/96	1 small
7/24/96	S96-13432	part 1		1				1 small
7/24/96	S96-13564	part 1		1				1 small
7/26/96	S96-13584	part 1		1				1 small
7/26/96	S96-13586	part 1		1				1 small
7/26/96	S96-13586	part 1		1	✓	7/26/96	7/26/96	1 small
7/26/96	S96-13599	part 1		1				1 small
7/30/96	S96-13696			1				1 small

Dr. Hornum
Dr. Hornum
Deleted
Dr. Hornum

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-5268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

132

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Estimated	Final Jn.	Date Out	Final Initial
7/30/96	S96-13716	part 1		1	✓	7/29/96	7/30/96	1 small
7/30/96	S96-137099	part 1		1				1 small Dr. Ward
7/30/96	S96-13796	part 1		1				1 small Dr. Brown
7/30/96	S96-12936	part 1		1	✓	7/17/96	7/30/96	3 small
7/30/96	S96-12996	part 1		1	✓	7/17/96	7/30/96	2 small
7/30/96	S96-13116	part 1		1	✓	7/19/96	7/30/96	3 small
7/30/96	S96-13104	part 1		1	✓	7/19/96	7/30/96	2 small
7/30/96	S96-13200	part 1		1	✓	7/22/96	7/30/96	1 small
7/30/96	S96-13265	part 1		1	✓	7/22/96	7/30/96	1 small
7/30/96	S96-13319	part 1		1	✓	7/23/96	7/30/96	1 small
7/30/96	S96-13790	part 1		1				1 small
7/30/96	S96-13812	part 2		1				1 small Dr. Ward
7/31/96	S96-13882	part 1		1				1 small
7/31/96	S96-13900	part 1		1				1 small Dr. Reuter

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Expendable	DATE IN	DATE OUT	Amount
8/2/96	S96-14029	part 2					1 small
8/2/96	S96-13994	part 1					1 small
8/5/96	S96-14191						1 small
8/6/96	S96-14235	part 2					1 small
8/8/96	S96-14504	part 1					1 small
8/13/96	S96-14680			✓	8/13/96	8/13/96	1 small
8/13/96	S96-14677	part 1					1 small
8/13/96	S96-14709	part 1					1 small
8/13/96	S96-13812	part - 2		✓	7/30/96	8/13/96	1 small
8/13/96	S96-14038	part - 1		✓	8/2/96	8/13/96	1 small
8/13/96	S96-14130	prt - 1		✓	8/5/96	8/13/96	1 small
8/13/96	S96-14235	prt - 3		✓	8/6/96	8/13/96	1 small
8/13/96	S96-14334	prt - 1		✓	8/7/96	8/13/96	1 small
8/13/96	S96-14342	prt - 2		✓	8/7/96	8/13/96	1 small

Dr. Annwitz
Dr. Annwitz
Dr. Ward

Contact:

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

134

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	ED/Normal	DATE IN	DATE OUT	Amount
8/14/96	S96-14484	part 1		1	✓	8/9/96	8/14/96	1 small
8/14/96	S96-14504	prt. 2		1	✓	8/9/96	8/14/96	1 small
8/14/96	S96-14709	prts 1 & 2		1	✓	8/13/96	8/14/96	2 small
8/14/96	S96-14621	prt. 1		1	✓	8/12/96	8/14/96	1 small
8/14/96	S96-13994	prt 1		1	✓	8/2/96	8/14/96	1 small
8/14/96	S96-14124	prt 1		1	✓	8/5/96	8/14/96	1 small
8/14/96	S96-14029	prt. 2		1	✓	8/2/96	8/14/96	1 small
8/14/96	S96-14303	prt. 1		1	✓			1 small
8/14/96	S96-14845	prt 1		1	✓			1 small
8/14/96	S96-14845	prt 1		1	✓			1 small
8/14/96	S96-14863	prt. 1		1	✓			1 small
8/19/96	S96-15151	prt. 1		1	✓			1 small
8/20/96	S96-15209	prt 1		1	✓	8/14/96	8/24/96	1 small
8/21/96	S96-14845	prt. 1		1	✓			1 small

Dr. Shadani
Dr. Shadani
Dr. McCullough

Contact:

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Estimated	DATE	DATE	Size
8/22/96	S96-15429	part 1		1				1 small
8/23/96	S96-14845	part 2		1	✓	8/23/96	8/23/96	1 small
8/23/96	S96-15490	part 1		1				1 small
8/23/96	S96-15627	part 1		1				1 small
8/27/96	S96-15683	part 1		1				1 small
8/27/96	S96-15682	part 1		1				1 small
8/27/96	S96-15208	part 1		1	✓	8/20/96	8/27/96	1 small
8/27/96	S96-15208	part 2		1	✓	8/20/96	8/27/96	1 small
8/27/96	S96-15209	part 1		1	✓	8/20/96	8/27/96	3 small
8/27/96	S96-15050	part 1		1	✓	8/16/96	8/27/96	1 small
8/27/96	S96-15709	part 1		1				1 small
8/28/96	S96-15668	part 1		1				1 small
8/28/96	S96-15790	part 1		1				1 small
8/29/96	S96-15862	part 1		1				1 small

Dr. B. Howard
Dr. Horowitz
Dr. Horowitz

Dr. Ward

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Specimen	Collected	Date	Pathology #	Unit #	DOB/Age	Specimen	Collected	Date
8/30/96	S96-15924	part 1		1						1 small		
9/3/96	S96-16022	part 3		1						1 small		
9/3/96	S96-16028	part 1		1						1 small		
9/3/96	S96-16033	part 1		1						1 small		
9/4/96	S96-16062	part		1						1 small		
9/4/96	S96-16112	part		1						1 small		
9/5/96	S96-16059	part		1						1 small		
9/4/96	S96-16148	part 1		1						1 small		
9/5/96	S96-16226	part 1		1						1 small		
9/6/96	S96-16318	part 1		1						2 small		
9/6/96	S96-16339	part 1		1						1 small		
9/9/96	S96-16463	part 1		1						1 small		
9/10/96	S96-16496	part 1		1						1 small		
9/10/96	S96-16318	part 1		1						1 small		

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Explant Tissue	Examinable	DATE IN	DATE OUT	Final Aliquot
9/10/96	S96-16226	part 1		1	✓	9/5/96	9/10/96	1 small
9/10/96	S96-16364	part 1		1	✓	9/6/96	9/10/96	3 small
9/10/96	S96-16022	part 1		1	✓	9/3/96	9/10/96	2 small
9/10/96	S96-16148	part 1		1	✓	9/4/96		1 small
9/10/96	S96-16568	part 1		1				1 small
9/10/96	S96-16028	part 1		1	✓	9/3/96	9/10/96	3 small
9/12/96	S96-16677	part 1		1				1 small
9/12/96	S96-16711	part 1		1				1 small
9/13/96	S96-16438	part 1		1	✓	9/9/96	9/13/96	1 small
9/13/96	S96-16339	part 1		1	✓	9/6/96	9/13/96	2 small
9/13/96	S96-16340	part 2		1	✓	9/6/96	9/13/96	3 small
9/13/96	S96-16059	part 1		1	✓	9/3/96	9/13/96	3 small
9/13/96	S96-16496	part 1		1	✓	9/10/96	9/13/96	1 small
9/13/96	S96-16028	part 1		1	✓	9/3/96	9/13/96	1 small

Contact:

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

138 R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Examination	Date Recd	Amount
9/10/96	S96-16568	part 1		1	✓	9/10/96	1 small
9/15/96	S96-16688	part 1		1			1 small
9/15/96	S96-16829	part 1		1			1 small
9/16/96	S96-16915	part 1		1			1 small Dr Ward
9/17/96	S96-16992	part 1		1			1 small Dr Ward
9/17/96	S96-16903	part 1		1			1 small
9/17/96	S96-16915	part 1		1			1 small
9/17/96	S96-16878	part 1		1		9/12/96	3 small
9/17/96	S96-16688	part 1		1	✓	9/12/96	1 small
9/17/96	S96-16744	part 1		1	✓	9/13/96	1 small
9/17/96	S96-16829	part 1		1			1 small
9/17/96	S96-16992	part 1		1			1 small
9/17/96	S96-17047	part 3		1			1 small
9/18/96	S96-17111	part 1		1			1 small Dr Ward

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Examinable	Date In	Date Out	Amount
9/20/96	S96-16903	part 1		1	✓	9/16/96	9/20/96	1 small
9/20/96	S96-17314	part 1		1				1 small
9/20/96	S96-17319	part 1		1				1 small
9/23/96	S96-17383	part 1		1				1 small
9/24/96	S96-17518	part 1		3	✓	9/24/96	9/24/96	1 small
9/24/96	S96-17737	part 1		1				1 small
9/24/96	S96-16992	part 1		1				3 small
9/30/96	S96-16903	part 3		1				1 small
9/30/96	S96-17047	part 1		1				3 small
9/30/96	S96-17234	part 1		1				2 small
9/30/96	S96-17319	part 1		1				1 small
9/30/96	S96-17383	part 1		1				3 small
9/30/96	S96-17976	part 1		1				1 small
10/1/96	S96-17930	part 1		1				1 small

Dr. Knowlton
Dr. Ward
Dr. Ward

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Volume of Tissue	Estimable	Date In	Date Out	Unit
10/1/96	S96-17934	part 1		1				1 small
10/2/96	S96-18018	part 1		1				1 small
10/4/96	S96-18199	part 1		1				1 small
10/7/96	S96-18199	part 1		1				1 small Dr. Horowitz
10/7/96	S96-18316	part 1		1				1 small
10/7/96	S96-18392	part 1		1				1 small Dr. Horowitz
10/8/96	S96-18392	part 1		1	✓	10/1/96	10/8/96	1 small
10/8/96	S96-19930	part 1		1	✓	10/1/96	10/8/96	2 small
10/8/96	S96-19934	part 1		1	✓	10/4/96	10/8/96	2 small
10/8/96	S96-18233	part 1		1				1 small Dr. Ward
10/8/96	S96-18413	part 1		1	✓	9/9/96	10/1/96	1 small
10/11/96	S96-16466	part 1		1	✓	9/9/96	10/1/96	2 small
10/11/96	S96-16466	part 4		1	✓	9/9/96	10/1/96	1 small
10/11/96	S96-18213	part 1		1				1 small Dr. Ward
10/11/96	S96-18541	part 1		1				1 small

Contact:

Dr. Zheng (5-2882)
 Dr. Dubrow (5-6268)
 Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat

14/

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Unit	Pathology #	Unit #	DOB/Age	Examination	Specimen	Remarks
10/15/96	S96-18899	part 1			1	1 small Dr. Ward
10/15/96	S96-18907	part 1			1	1 small Dr. Ward
10/16/96	S96-18954	part 1			1	1 small Dr. Ward
10/17/96	S96-19099	part 1			1	1 small Dr. Perkel
10/18/96	S96-19212	part 1			1	1 small Dr. Horvath
10/18/96	S96-19230	part 1			1	1 small Dr. Horvath
10/21/96	S96-19001	part 1			1	1 small
10/21/96	S96-19046	part 1			1	1 small
10/21/96	S96-19099	part 1			1	1 small
10/21/96	S96-19326	part 1			1	1 small
10/22/96	S96-19436	part 1			1	1 small
10/23/96	S96-19542	part 1			1	1 small
10/25/96	S96-19707	part 1			1	1 small
10/25/96	S96-19724	part 1			1	1 small

Contract

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for 'Type of Tissue':

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Examination	Specimen	Remarks
10/28/96	S96-19738	part 1		1			1 small
10/28/96	S96-19839	part 1		1			2 small
10/29/96	S96-19898	part 2		1			1 small Du Annuity
10/29/96	S96-19905	part 1		1			2 small
10/29/96	S96-19832	part 1		1			1 small
10/29/96	S96-19923	part 1		1			1 small
10/31/96	S96-20019	part 1		1			1 small
10/31/96	S96-20090	part 1		1		10/10/96 11/1/96	1 small
11/1/96	S96-19046	part 1		1		10/17/96 11/1/96	3 small
11/1/96	S96-19099	part 1		1		10/18/96 11/1/96	1 small
11/1/96	S96-19205	part 1		1		10/21/96 11/1/96	1 small
11/1/96	S96-19355	part 1		1		10/22/96 11/1/96	3 small
11/1/96	S96-19436	part 1		1		10/24/96 11/1/96	1 small
11/1/96	S96-19667	part 1		1			

Conflicts:

Dr. Zheng (5-2882)

Dr. Dubrow (5-6268)

Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

***** INFORMATION *****

Conclude:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Drenst Disease Study Office (7-1501)

- 19 -

144_R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Specimen	Specimen	Specimen	Specimen	Specimen	Specimen
11/8/96	S96-20718	part 1	29 yrs.	/					1 small 29 yr old
11/8/96	S96-20691	part 1		/					1 small
11/11/96	S96-20395	part 1		/					1 small Dr. Ward
11/11/96	S96-20800	part 1		/					1 small
11/11/96	S96-20796	part 1		/					1 small
11/15/96	S96-21319	part 1		/					1 small Dr. Hammett
11/20/96	S96-21371	part 1		/					1 small Dr. Ward
11/20/96	S96-21399	part 1		/					1 small
11/8/96	S96-20725	part 1		/				11/8/96	1 small
11/11/96	S96-20800	part 1		/				11/11/96	1 small
11/14/96	S96-21099	part 1		/				11/14/96	1 small
11/11/96	S96-20777	part 1		/				11/11/96	1 small
11/6/96	S96-20499	part 1		/				11/6/96	1 small
11/6/96	S96-20491	part 1		/				11/6/96	1 small

Contact:

Dr. Zheng (5-2882)

Dr. Dubrow (5-6268)

Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

145 R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Primary Tissue	Secondary Tissue	Comments
11/13/96	S96-21002	part 1		1	11/13/96	1 small
11/13/96	S96-21058	part 1		1	11/13/96	3 small
11/21/96	S96-21674	part 1		1		1 small
11/22/96	S96-21494	part 1		1		1 small
11/22/96	S96-21790	part 1		1		1 small
11/22/96	S96-21885	part 1		1		1 small
11/25/96	S96-21954	part 2		1		1 small
11/26/96	S96-22034	part 1		1		1 small
11/26/96	S96-21885	part 1		1		1 small
11/27/96	S96-22120	part 1		1		1 small
11/27/96	S96-22395	part 1		1		1 small
12/3/96	S96-22354	part 1		1	12/3/96	1 small
12/3/96	S96-22354	part 1		1	12/3/96	1 small

33 yrs Dr. Stahl
Dr. Ward

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

LOG OF BREAST TISSUE SPECIMENS

146R

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
12/4/96	S96-22434	part 1		1	✓	12/3/96	12/4/96	1 small
12/4/96	S96-22463	part 1		1				1 small
12/4/96	S96-22485	part 1		1	✓	12/4/96	12/4/96	1 small
12/4/96	S96-22485	part 1		1				1 small
12/5/96	S96-20445	part 2		1	✓	11/5/96	12/5/96	2 small
12/5/96	S96-20691	part 1		1	✓	11/8/96	12/5/96	3 small
12/5/96	S96-20974	part 1		1	✓	11/13/96	12/5/96	3 small
12/5/96	S96-21002	part 1		1	✓	11/13/96	12/5/96	2 small
12/9/96	S96-22753	part 4		1				1 small
12/9/96	S96-22785	part 1		1				1 small
12/10/96	S96-22843	part 1		1				1 small
12/10/96	S96-22838	part 3		1				1 small
12/11/96	S96-22945	part 1		1				1 small
12/12/96	S96-21314	part 1		1	✓	11/18/96	12/12/96	1 small

Dr. Ward

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

147R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
12/12/96	S96-21705	part 1		1	/	11/21/96	12/12/96	1 small
12/12/96	S96-21768	part 1		1	/	11/22/96	12/12/96	1 small
12/12/96	S96-22036	part 1		1	/	11/26/96	12/12/96	1 small
12/12/96	S96-21494	part 1		1	/	11/26/96	12/12/96	6 small
12/12/96	S96-22021	part 1		1	✓	11/26/96	12/12/96	3 small
12/12/96	S96-22034	part 1		1	✓	11/26/96	12/12/96	1 small
12/12/96	S96-21361	part 1		1	✓	11/18/96	12/12/96	3 small
12/12/96	S96-21790	part 1		1	✓	11/22/96	12/12/96	3 small
12/12/96	S96-22120	part 1		1	✓	11/27/96	12/12/96	3 small
12/13/96	S96-23148	part 1		1				1 small
12/16/96	S96-23276	part 1		1				1 small
12/18/96	S96-21954	part 2		1	✓	11/26/96	12/18/96	25 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
1/3/97	S97-101	part 1		1				1 small
1/6/97	S97-180	part 1		1				1 small
1/6/97	S97-189	part 1		1				1 small
1/7/97	S97-234	part 1		1				1 small 26 y/o
1/7/97	S97-303	part 1		1				1 small
1/8/97	S97-359	part 1		1				1 small
1/8/97	S96-23952	part 1		1	✓	12/27/96	1/8/97	1 small
1/9/97	S96-23925	part 1		1	✓	12/26/96	1/9/97	1 small
1/9/97	S96-23284	part 1		1	✓	12/16/96	1/9/97	1 small
1/9/97	S96-23279	part 1		1	✓	12/16/96	1/9/97	1 small
1/9/97	S96-23422	part 1		1	✓	12/17/96	1/9/97	1 small
1/9/97	S96-23498	part 1		1	✓	12/18/96	1/9/97	2 small
1/9/97	S97-499	part 1		1				1 small
1/9/97	S97-526	part 1		1	✓	1/9/97	1/9/97	1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
1/9/97	S97-499	part 1		1				1 small
1/10/97	S96-20209	part 1		1	✓	11/1/96	1/10/97	2 small
1/10/97	S97-592	part 1		1				1 small
1/10/97	S97-564	part 1		1				1 small
1/18/97	S97-650	part 1		1				1 small
1/13/97	S97-180	part 1		1	✓	1/6/97	1/13/97	2 small
1/13/97	S97-101	part 1		1	✓	1/3/97	1/13/97	3 small
1/13/97	S97-303	part 1		1	✓	1/7/97	1/13/97	1 small
1/13/97	S97-359	part 1		1	✓	1/8/97	1/13/97	2 small
1/10/97	S97-592	part 1		1				1 small
1/14/97	S97-694	part 1		1				1 small
1/14/97	S97-713	part 1		1				1 small
1/14/97	S97-799	part 1		1				1 small
1/15/97	S97-873	part 1		1				1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

150R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
1/15/97	S97-494	part 1		1	✓	1/9/97	1/15/97	2 small
1/15/97	S97-526	part 1		1	✓	1/9/97	1/15/97	3 small
1/15/97	S97-592	part 1		1	✓	1/10/97	1/15/97	1 small
1/21/97	S97-1350	part 1		1				1 small
1/22/97	S97-499	part 1		1				1 small
1/24/97	S97-101	part 1		1	✓	1/3/97	1/24/97	3 small
1/24/97	S97-180	part 1		1	✓	1/6/97	1/24/97	3 small
1/24/97	S97-199	part 1		1	✓	1/6/97	1/24/97	1 small
1/24/97	S97-221	part 1		1	✓	1/6/97	1/24/97	1 small
1/24/97	S97-359	part 1		1	✓	1/8/97	1/24/97	1 small
1/24/97	S97-564	part 1		1	✓	1/10/97	1/24/97	2 small
1/24/97	S97-995	part 1		1	✓	1/16/97	1/24/97	2 small
1/24/97	S97-1069	part 1		1	✓	1/16/97	1/24/97	3 small

DR. ward

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
1/24/97	S97-1124	part 2		1	✓	1/16/97	1/24/97	1 small
1/27/97	S97-1834	part 1		1				1 small
1/28/97	S97-1865	part 1		1				1 small
1/28/97	S97-1834	part 1		1				1 small
1/28/97	S97-1340	part 1		1	✓	1/21/97	1/30/97	2 small
1/30/97	S97-1148	part 1		1	✓	1/17/97	1/30/97	2 small
1/30/97	S97-2034	part 1		1				1 small
2/3/97	S97-2369	part 1		1				1 small
2/4/97	S97-2397	part 1		1				1 small
2/4/97	S97-2447	part 1		1				1 small
2/5/97	S97-2484	part 1		1				1 small
2/5/97	S97-1599	part 1		1	✓	1/23/97	2/5/97	1 small
2/5/97	S97-1537	part 1		1	✓	1/23/97	2/5/97	1 small
2/5/97	S97-1834	part 1		1	✓	1/27/97	2/5/97	1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

R
15/

Dr. McTigue
Dr. Restifo

152
2

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
2/5/97	S97-1698	part 3		1	✓	1/24/97	2/5/97	1 small
2/5/97	S97-1698	part 1		1	✓	1/24/97	2/5/97	2 small
2/5/97	S97-2034	part 1		1	✓	1/29/97	2/5/97	3 small
2/5/97	S97-2034	part 2		1				1 small
2/5/97	S97-1698	part 1		1	✓	1/24/97	2/5/97	3 small
2/6/97	S97-2644	part 1		1	✓	2/6/97	2/6/97	1 small
2/7/97	S97-1148	part 1		1	✓	1/17/97	2/7/97	1 small
2/7/97	S97-1258	part 1		1	✓	1/20/97	2/7/97	3 small
2/7/97	S97-1875	part 1		1	✓	1/27/97	2/7/97	3 small
2/7/97	S97-2695	part 1		1				1 small
2/7/97	S97-2709	part 1		1	✓	2/7/97	2/7/97	1 small
2/11/97	S97-2868	part 1		1				1 small
2/11/97	S97-2447	part 1		1	✓	2/4/97	2/11/97	3 small
2/11/97	S97-2644	part 1		1	✓	2/6/97	2/11/97	2 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
2/11/97	S97-2695			1	✓	2/7/97	2/11/97	3 small
2/11/97	S97-2884			1				1 small
2/11/97	S97-2897			1				1 small
2/11/97	S97-2937			1				1 small
2/11/97	S97-2922			1				1 small
2/12/97	S97-3024			1				1 small
2/13/97	S97-3138			1				1 small
2/14/97	S97-3221			1	✓	2/14/97	2/14/97	1 small
2/14/97	S97-3256			1				1 small
2/14/97	S97-3220			1	✓	2/14/97	2/14/97	1 small
2/17/97	S97-3298			1				1 small
2/18/97	S97-3455			1				1 small
2/19/97	S97-3524			1				1 small
2/19/97	S97-3509			1	✓	2/19/97	2/19/97	1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

154R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
2/19/97	S97-3540	part 1		1				1 small
2/24/97	S97-3660	part 2		1	✓	2/20/97	2/24/97	1 small
2/24/97	S97-3397	part 1		1	✓	2/18/97	2/24/97	1 small
2/24/97	S97-3223	part 1		1	✓	2/14/97	2/24/97	1 small
2/24/97	S97-3520	part 1		1	✓	2/19/97	2/24/97	1 small
2/24/97	S97-3298	part 1		1	✓	2/17/97	2/24/97	3 small
2/25/97	S97-3804			1				1 small
2/25/97	S97-3768			1				1 small
2/25/97	S97-3877	part 2		1				1 small
2/25/97	S97-3879	part 1		1				1 small
2/25/97	S97-3898	part 1		1				1 small
2/25/97	S97-3927	part 1		1				1 small
2/27/97	S97-3455	part 1		1	✓	2/18/97	2/27/97	2 small
2/27/97	S97-3527	part 1		1	✓	2/19/97	2/27/97	2 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
2/27/97	S97-4099							1 small
3/2/97	S97-3987	part 1		1	✓	2/26/97	3/4/97	1 small
3/4/97	S97-3877	part 2		1	✓	2/25/97	3/4/97	3 small
3/4/97	S97-3524	part 1		1	✓	2/19/97	3/4/97	2 small
3/4/97	S97-3540	part 1		1	✓	2/19/97	3/4/97	2 small
3/4/97	S97-4427	part 1		1				1 small Dr. Harvey
3/4/97	S97-4438	part 1		1				1 small
3/5/97	S97-3840	part 1		1	✓	2/24/97	3/5/97	3 small
3/5/97	S97-3689	part 1		1	✓	2/21/97	3/5/97	2 small
3/5/97	S97-4018	part 1		1	✓	2/26/97	3/5/97	3 small
3/5/97	S97-3520	part 1		1	✓	2/19/97	3/5/97	1 small
3/5/97	S97-3383	part 3		1	✓	2/18/97	3/5/97	1 small
3/5/97	S97-3927	part 1		1	✓	2/25/97	3/5/97	2 small
3/7/97	S97-4705	part 1		1				1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
8/10/97	S97-713	part 1		1	✓	1/13/97	3/10/97	3small
3/10/97	S97-3298	part 2		1	✓	1/14/97	3/10/97	3small
3/10/97	S97-4375	part 1		1	✓	3/3/97	3/10/97	1small
3/10/97	S97-4360	part 2		1	✓	3/3/97	3/10/97	1small
3/10/97	S97-4438	part 1		1	✓	3/4/97	3/10/97	1small
3/11/97	S97-4872	part 1		1	✓			1small
3/11/97	S97-4924	part 1		1				1small
3/11/97	S97-4971	part 2		1				1small
3/12/97	S97-1168	part 1		1				1small
3/12/97	S97-4216	part 1		1				1small
3/12/97	S97-3940	part 1		1				1small
3/14/97	S97-5239	part 1		1				1small
3/17/97	S97-4575	part 1		1	✓	3/5/97	3/17/97	1small
3/17/97	S97-4705	part 1		1	✓	3/7/97	3/17/97	1small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

rounded
note

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
3/17/97	S97-4924	part 1		1	✓	3/11/97	3/17/97	1 small
3/14/97	S97-5283	part 1		1				1 small
3/17/97	S97-5381	part 1		1				1 small
3/18/97	S97-5410	part 1		1	✓	3/18/97	3/17/97	1 small
3/18/97	S97-5432	part 1		1				1 small
3/19/97	S97-5564	part 1		1				1 small
3/20/97	S97-5612	part 1		1				1 small
3/20/97	S97-5694	part 1		1				1 small Inward
3/20/97	S97-4971	part 2		1	✓	3/11/97	3/20/97	3 small
3/20/97	S97-5215	part 1		1	✓	3/13/97	3/20/97	3 small
3/20/97	S97-5224	part 1		1	✓	3/14/97	3/20/97	3 small
3/20/97	S97-5237	part 2		1	✓	3/14/97	3/20/97	1 small
3/20/97	S97-5283	part 1		1	✓	3/14/97	3/20/97	2 small
3/20/97	S97-5694	part 1		1				1 small In Ward

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
3/20/97	S97-5708	part 1	77	1				1 small
3/25/97	S97-5974	part 1	50	1				1 small
3/25/97	S97-5972		74	1				1 small
3/26/97	S97-6040	part 1	58	1				1 small
3/26/97	S97-6056	part 1	44	1	✓	3/26/97	3/26/97	1 small
3/26/97	S97-6093	part 1	47	1				1 small
3/27/97	S97-5613	part 1	40	1	✓	3/19/97	3/27/97	2 small
3/27/97	S97-5708	part 1	77	1	✓	3/20/97	3/27/97	1 small
3/27/97	S97-5432	part 1	52	1	✓	3/18/97	3/27/97	3 small
3/27/97	S97-5721	part 1	62	1	✓	3/20/97	3/27/97	3 small
3/31/97	S97-6237	part 1	41	1				1 small
3/31/97	S97-6297	part 1	55	1				1 small
3/31/97	S97-6297	part 2	55	1				1 small
4/1/97	S97-5410	part 1	58	1	✓	3/17/97	4/1/97	1 small

wmg.
mol.

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

159₂

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formatin	Date In	Date Out	# of Aliquots
4/1/97	S97-5612	part 1		1	✓	3/20/97	4/1/97	1 small
4/1/97	S97-5723	part 7		1	✓	3/24/97	4/1/97	2 small
4/1/97	S97-5862	part 1		1	✓	3/24/97	4/1/97	2 small
4/1/97	S97-5966	part 1		1	✓	3/25/97	4/1/97	1 small
4/1/97	S97-5967	part 1		1	✓	3/25/97	4/1/97	1 small
4/1/97	S97-6040	part 1		1	✓	3/26/97	4/1/97	1 small
4/1/97	S97-6056	part 1		1	✓	3/26/97	4/1/97	1 small
4/1/97	S97-6093	part 1		1	✓	3/26/97	4/1/97	1 small
4/1/97	S97-6228	part 1		1	✓	3/28/97	4/1/97	3 small
4/1/97	S97-6358	part 1						1 small Dr. Ward
4/3/97	S97-6554	part 1						1 small
4/7/97	S97-6297	part 2		1	✓	3/31/97	4/7/97	3 small
4/7/97	S97-6463	part 1		1	✓			1 small
4/7/97	S97-4756	part 1		1				1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

160^R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
4/7/97	S97-6735	part 1		1				1 small
4/14/97	S97-6623	part 1		1				1 small
4/8/97	S97-6828	part 1		1				1 small
4/7/97	S97-6786	part 1B		1				1 small
4/10/97	S97-6632	part 1		1	✓	4/4/97	4/10/97	3 small
4/14/97	S97-7250	part 1		1				2 small
4/14/97	S97-7282	part 1		1				1 small
4/14/97	S97-7260	part 1		1				1 small
4/14/97	S97-7303	part 1		1				1 small
4/14/97	S97-7303	part 1		1				1 small
4/15/97	S97-7360	part 2		1				1 small
4/15/97	S97-6941	part 1		1	✓	4/9/97	4/15/97	3 small
4/15/97	S97-6926	part 1		1	✓	4/9/97	4/15/97	3 small
4/15/97	S97-7002	part 1		1	✓	4/9/97	4/15/97	3 small
4/15/97	S97-7412	part 1		1	✓	4/15/97	4/15/97	1 small
4/15/97	S97-7425	part 1		1				

Contact: 1 small

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

4/16/97 - S97-7455 part 1

LOG OF BREAST TISSUE SPECIMENS

161 R

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
4/17/97	S97-71182			1				1 small
4/18/97	S97-7638	part 1		1				1 small
4/18/97	S97-6786	part 107		1	✓	4/7/97	4/18/97	3 small
4/18/97	S97-71507	part 1		1	✓	4/11/97	4/18/97	2 small
4/18/97	S97-7209	part 1		1	✓	4/11/97	4/17/97	3 small
4/18/97	S97-7675	part 1		1				2 small
4/18/97	S97-7675	part 2		1				1 small
4/22/97	S97-7407	part 1		1	✓	4/15/97	4/22/97	2 small
4/22/97	S97-7603	part 1		1	✓	4/17/97	4/22/97	1 small
4/22/97	S97-7890	part 1		1				1 small
4/23/97	S97-7414	part 1		1 (back)	✓	4/15/97	4/23/97	1 small
4/23/97	S97-7890	part 1		1	✓	4/23/97	4/22/97	1 small
4/23/97	S97-7937	part 1		1				1 small
4/24/97	S97-8046			4*				1 small

* uterine

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

162 R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
4/30/97	S97-7890	part 1		1	✓	4/22/97	4/30/97	3 small
4/30/97	S97-7482	part 2		1	✓	4/16/97	4/30/97	2 small
4/30/97	S97-7959	part 1		1	✓	4/23/97	4/30/97	3 small
4/30/97	S97-7482	part 1		1	✓	4/16/97	4/30/97	3 small
5/1/97	S97-8283	part 1		1	✓	4/28/97	5/1/97	3 small
5/1/97	S97-8534	part 1		1	✓	4/30/97	5/1/97	1 small
5/13/97	S97-9441	part 1		1				1 small
5/15/97	S97-8725	part 1		1	✓	5/2/97	5/15/97	1 small
5/15/97	S97-8919	part 1		sp. Lipoma chest	✓	5/6/97	5/15/97	1 small
5/15/97	S97-9292	part			✓	5/9/97	5/15/97	1 small (Lipoma chest)
5/15/97	S97-8631	part 1		1	✓	5/1/97	5/15/97	1 small
5/15/97	S97-9211	part 4		1	✓	5/9/97	5/15/97	1 small
5/15/97	S97-8545	part 1		1	✓	5/1/97	5/15/97	1 small
5/15/97	S97-9266	part 1		1	✓	5/9/97	5/15/97	1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
 Dr. Dubrow (5-6268)
 Breast Disease Study Office (7-1501)

163^R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
5/15/97	S97-9718	part 1		1				1 small
5/16/97	S97-9732	part 4		1				1 small
5/27/97	S97-10420	part 1		1	✓	5/27/97	5/27/97	1 small
5/19/97	S97-9865	part 1		1				1 small
5/9/97	S97-9266	part 1		1				1 small
5/28/97	S97-10555	part 2		1				1 small
5/28/97	S97-10556	part 1		1				1 small
5/30/97	S97-10676	part 1		1				1 small
5/12/97	S97-9441	part 1		1	✓	5/12/97	5/11/97	3 small
6/2/97	S97-10811	part 1		1				1 small
6/4/97	S97-11013	part 1		1				1 small
6/5/97	S97-8545	part 3		1	✓	5/11/97	6/5/97	3 small
6/5/97	S97-9143	part 1		1	✓	5/8/97	6/5/97	3 small
6/5/97	S97-9310	part 1		1	✓	5/9/97	6/5/97	3 small

-18-

Dr. Ward

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
 Dr. Dubrow (5-6268)
 Breast Disease Study Office (7-1501)

- 505715010000

164_R

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION *****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
6/5/97	S97-10811	part 1		1	✓	6/2/97	6/5/97	2 small
6/5/97	S97-10860	part 1		1	✓	6/2/97	6/5/97	1 small
6/30/97	S97-10713	part 1		1				1 small
6/10/97	S97-11381	part 2		1				1 small
6/10/97	S97-11492	part 2		1				1 small
6/10/97	S97-11478	part 1		1				1 small
6/11/97	S97-11600	part 1		1				1 small
6/12/97	S97-11223	part 1		1	✓	6/4/97	6/12/97	3 small
"	S97-11102	part 1		1	✓	6/4/97	6/12/97	3 small
"	S97-11536	part 1		1	✓	6/10/97	6/12/97	1 small
"	S97-11492	part 2		1	✓	6/10/97	6/12/97	1 small
"	S97-11381	part 2		1	✓	6/4/97	6/12/97	1 small
"	S97-11002	part 1		1	✓	6/13/97	6/12/97	1 small
"	S97-11013	part 1		1	✓	6/4/97	6/12/97	1 small

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Contact:

Dr. Zheng (5-2882)
Dr. Dubrow (5-6268)
Breast Disease Study Office (7-1501)

165

LOG OF BREAST TISSUE SPECIMENS

*****TISSUE INFORMATION*****

Date	Pathology #	Unit #	DOB/Age	Type of Tissue	Formalin	Date In	Date Out	# of Aliquots
6/12/97	S97-11687	part 1		1				1 small
6/13/97	S97-11873	part 1		1				1 small
6/13/97	S97-11824	part 1		1				1 small
6/16/97	S97-11979	part 1		1				1 small
6/18/97	S97-12183	part 1		1	✓	6/18/97	6/18/97	1 small
6/19/97	S97-12136	part 1		1				1 small
6/19/97	S97-11873	part 1		1	✓	6/13/97	6/19/97	2 small
6/19/97	S97-11452	part 1		1	✓	6/9/97	6/19/97	2 small
6/19/97	S97-11492	part 2		1	✓	6/10/97	6/19/97	1 small
6/19/97	S97-11536	part 1		1	✓	6/10/97	6/19/97	2 small
6/19/97	S97-12086	part 1		1	✓	6/17/97	6/19/97	1 small
6/19/97	S97-10555	part 2		1	✓	5/28/97	6/19/97	2 small
6/26/97	S97-12022	part 1		1	✓	6/17/97	6/26/97	1 small
6/26/97	S97-12772	part 1		1	✓	6/25/97	6/26/97	1 small
6/24/97	S92-12590	part 1		1				1 small

Contact:

Codes for Type of Tissue:

- 1 = breast fat
- 2 = abdominal fat
- 3 = axillary fat
- 4 = other (specify)

Dr. Zheng (5-2882)
 Dr. Dubrow (5-6268)
 Breast Disease Study Office (7-1501)

Yale University

Grant and Contract Administration
 School of Medicine
 L 202 SHM
 P.O. Box 208047
 New Haven, Connecticut 06520-8047

Campus address:
 L 202 Sterling Hall of Medicine
 333 Cedar Street
 Telephone: 203 785-4689
 Fax: 203 785-4159

April 10, 1997

Daisy deLeon, Ph.D. Associate Professor
 Department of Physiology and Pharmacology
 Loma Linda University, School of Medicine
 Loma Linda, CA 92350

Dear Dr. deLeon:

In response to your request, we will make available to you the biological material described below:

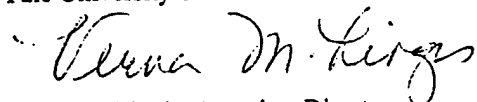
Normal and tumor breast samples, for various analyses

Because Yale University has ascertained that this biological material (the "Material") may have potential commercial value, we ask you to agree to the following conditions concerning its use and distribution:

1. The Material is to be used solely by the Recipient and research personnel supervised by him/her. Recipient, and Recipient's Institution agree that it will not permit transfer of the Material, including any progeny and any genetically engineered modification which is substantially based on and incorporates an essential element of the Material, to any other individual or entity without prior written consent of Yale University.
2. The Material is provided for non-commercial research purposes and will not be used in humans under any circumstances. No grant is made hereby of any rights granted to make, use or sell for any commercial purposes any products or processes derived from or with the Material. Any such commercial manufacture, use or sale of any such products or processes may be made only pursuant to a license granted by Yale University. Except as otherwise provided by DOC 37 CFR Part 401 Yale University shall not be obligated to grant such a license, and reserves the right to grant exclusive or non-exclusive licenses to others.
3. The Recipient acknowledges that the Material is experimental in nature, and that YALE UNIVERSITY MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, AS TO THE MERCHANTABILITY OR FITNESS OF THE MATERIAL FOR A PARTICULAR PURPOSE, or that the use of the Material or any product or process derived therefore will not infringe any patent, copyright or other rights of third parties. In no event shall Yale University be liable for any damages, direct, indirect, or consequential, resulting from any use of the Material or any derivatives therefrom by the recipient or any other party.
4. This Agreement is subject to any rights which any research sponsor of Yale University may have with respect to the Material.

Please indicate your agreement with the above terms by having the enclosed copy of this letter signed by a duly authorized official, and return to the above listed address. Upon receipt of a signed copy of this letter the Material will be forwarded immediately.

Yale University School of Medicine



Verna M. Lingis, Associate Director
 Grant and Contract Admin

Accepted and Agreed to by Recipient's
 Institution:

Signature

Title

Date

cc: Dr. Christine L. Howe

Tissue Available

By Tissue Type

APPENDIX 12

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
2/12/93	* S93-2570	Breast	1	1	1	1			0	0					
2/15/93	S93-2661	breast	1	1	1	1			1	1					
2/17/93	S93-2790	Breast	1	1	1	1			1	1					
2/17/93	S93-2804	breast	1	1	1	1			1	0					
2/19/93	S93-2959	breast	1	1	1	1			1	1					
3/5/93	S93-3831	Breast	1	1	1	1			1	1					
3/8/93	S93-3935	breast	1	1	1	1			1	1					
3/12/93	S93-4279	Breast	1	1					1	1					
3/18/93	S93-4675	Breast	1	1		1			1						
3/22/93	S93-4776	Breast								1					
3/25/93	S93-5036	breast	1	1	1	1			1	1					
3/26/93	S93-5105	breast	1	1	1	1			1	1					
4/6/93	* S93-5700	breast	1	1					1	1					
4/8/93	S93-5860	breast	1	1	1	1			1	1					
4/12/93	* S93-6026	breast	1	1	1	1			1	1					
4/16/93	S93-6323	breast								1					
4/21/93	S93-6575	breast	1	3	4	4			2	4					
4/29/93	S93-7087	breast			1	1									
5/10/93	S93-7718	breast			1	1				1					
5/25/93	S93-8598	breast			2	2				1					
7/6/93	S93-11023	Breast			1	1				1					
7/14/93	S93-11600	Breast	1	1	1	1			1	1					
7/15/93	S93-11721	Breast	1	1	1	1			2	1					
7/27/93	S93-12403	Breast			1	1				1					
8/2/93	S93-12734	Breast			1	1				1					
8/3/93	S93-12800	Breast			1	1									
8/4/93	S93-12894	Breast			1	1				1					
8/9/93	S93-13145	Breast							1	0					
8/17/93	S93-13630	Breast	1	4	2	2			3						
8/23/93	S93-13998	Breast	1	1					2	1					
8/30/93	S93-14328	Breast			2	2									
8/30/93	S93-14357	Breast			8	8				0					

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 1

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
08/31/93	S93-14458	Breast	1						1	1					
09/07/93	S93-14743	Breast				1									
09/07/93	S93-14827	Breast				1									
09/08/93	S93-14850	Breast				2									
9/21/93	S93-15607	Breast				3			0	5					
9/29/93	S93-16089	Breast		1		3			2	0					
10/5/93	S93-16331	Breast							1						
10/11/93	S93-16650	Breast		1		1				1					
10/11/93	S93-16676	Breast				1									
11/10/93	S93-18541	Breast		1		2									
11/10/93	S93-18548	Breast				1									
11/30/93	S93-19650	Breast				1									
11/30/93	S93-19660	Breast				1			0						
11/30/93	S93-19661	Breast		1		1									
11/30/93	S93-19699	Breast				1									
12/9/93	S93-20068	Breast		1		1									
12/09/93	S93-20263	Breast		1		1									
12/09/93	S93-20268	Breast		1		1									
12/20/93	S93-20934	Breast				2				0					
12/20/93	S93-20981	Breast				1									
1/10/94	S94-439	Breast								1					
1/13/94	* S94-679	Breast				1				0					
1/28/94	* S94-1665	Breast		1		3			3						
2/15/94	* S94-1799	Breast								1					
2/1/94	* S94-1799	Breast								1					
2/7/94	* S94-2137	Breast				3				6					
2/7/94	* S94-2186	Breast		1		1									
2/10/94	* S94-2455	Breast		1		2				1					
2/11/94	* S94-2510	Breast							1						
2/15/94	* S94-2608	Breast				1									
2/15/94	S94-2673	Breast				1									
2/17/94	S94-2792	Breast		1		4			2	1					

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 2

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
2/22/94	* S94-3094	Breast							2						
2/23/94	* S94-3146	Breast	1		2	2				0					
3/1/94	* S94-3527	Breast	1		4	3									
3/7/94	S94-3815	Breast				1				0					
3/7/94	S94-3826	Breast						1							
3/9/94	* S94-3966	Breast	1		4	5			2	3					
3/9/94	* S94-3972	Breast						2							
3/9/94	* S94-3989	Breast	1		3	0		3		2					
3/22/94	S94-4814	Breast				2									
3/25/94	S94-5054	Breast	1		4	3									
3/25/94	S94-5074	Breast	1		5	3				0					
3/28/94	S94-5176	Breast	1		1	1									
3/28/94	* S94-5198	Breast	1		2	1									
4/12/94	* S94-6096	Breast	1		5	3			0	0					
4/12/94	S94-6154	Breast			1										
4/15/94	S94-6301	Breast						8							
4/15/94	S94-6374	Breast			2										
5/11/94	* S94-8130	Breast			3										
5/16/94	S94-8349	Breast				1									
6/3/94	* S94-9518	Breast	1		5	11				-1					
6/10/94	* S94-10033	Breast	1		1	1									
6/14/94	S94-10172	Breast	1		1	1				0					
6/15/94	S94-10235	Breast			4										
7/6/94	* S94-11472	Breast	1		3	2									
7/8/94	S94-11688	Breast	1		2	2									
7/15/94	* S94-12104	Breast			2										
7/15/94	* S94-12126	Breast	1		1	1									
7/15/94	S94-12136	Breast	1		1	1									
7/22/94	* S94-12603	Breast	1		1	1									
7/26/94	S94-12778	Breast				3									
7/27/94	S94-12912	Breast	1		2	2									
8/1/94	S94-13117	Breast	1		1	1									

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 3

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
8/2/94	S94-13199	Breast	1	1	1	1			1	1					
8/9/94	S94-13631	Breast	1						1						
8/11/94	* S94-13831	Breast			1										
8/31/94	S94-15063	Breast	1		1	1									
9/2/94	* S94-15249	Breast				1									
9/2/94	* S94-15249	Breast				1									
9/16/94	* S94-15938	Breast				1									
9/21/94	* S94-16244	Breast			1										
9/21/94	* S94-16244	Breast	1		1	2									
10/7/94	S94-17299	Breast				2									
10/10/94	S94-17390	Breast				6									
10/13/94	S94-17451	Breast	1					1	1	1					
10/13/94	S94-17659	Breast				1									
10/17/94	S94-17822	Breast	1		3	2									
10/17/94	* S94-17899	Breast	1		2	1									
10/18/94	* S94-17899	Breast				1									
10/31/94	S94-18677	Breast	1		2	3		0	0	0					
11/1/94	* S94-18820	Breast			1										
11/1/94	* S94-18820	Breast									4				
11/3/94	S94-18988	Breast	1		2	6		0	0	0					
11/3/94	S94-19004	Breast	1		1	1									
11/7/94	S94-19163	Breast	1		2	2									
11/21/94	S94-20131	Breast			1										
11/30/94	* S94-20650	Breast	1					1	1	1					
12/7/94	S94-21123	Breast	1		2	1									
12/16/94	S94-21791	Breast	1		2	3		0	0	0					
12/16/94	* S94-21796	Breast	1		1	1									
12/22/94	S94-22158	Breast						1	1	1					
12/28/94	S94-22349	Breast				8									
1/16/95	S95-792	Breast	1		1	2									
1/17/95	S95-876	Breast	1		1	1									
1/31/95	S95-1852	Breast	1		2	2									

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 4

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
2/6/95	S95-2274	Breast										1			
2/7/95	* S95-2302	Breast		1	2	2									
2/15/95	* S95-2897	Breast			1										
2/22/95	* S95-2940	Breast		1	2	2									
2/27/95	* S95-2940	Breast				0	15								
2/16/95	* S95-2988	Breast				0	15								
2/22/95	* S95-2988	Breast		1	2	2		1	1						
2/24/95	* S95-3320	Breast			1										
2/22/95	* S95-3320	Breast			2										
2/27/95	* S95-3551	Breast				6			1			1			
2/27/95	* S95-3551	Breast				15									
2/28/95	* S95-3684	Breast		1	2	2									
3/3/95	S95-3910	Breast		1				1	1						
3/6/95	S95-3998	Breast				0	15								
3/7/95	S95-4078	Breast				0	15								
3/7/95	* S95-4153	Breast				7			0						
3/8/95	* S95-4153	Breast		1							3	3			
3/10/95	S95-4386	Breast		1	2	3									
3/14/95	* S95-4556	Breast		1	3	3									
3/17/95	S95-4893	Breast		1							1	1			
3/20/95	* S95-4921	Breast		1	1	1									
3/20/95	* S95-4921	Breast				0									
3/20/95	* S95-4952	Breast				0	13								
3/20/95	S95-4954	Breast		1	2	2	14								
3/20/95	S95-4961	Breast		1	2	2									
3/21/95	S95-4990	Breast		1	3	2									
3/21/95	* S95-4997	Breast		1	2	2									
3/22/95	* S95-4997	Breast				0	15								
3/22/95	S95-5073	Breast		1	2	2									
3/23/95	* S95-5152	Breast		1	2	2									
3/29/95	* S95-5257	Breast		1							2	3			
3/31/95	* S95-5470	Breast				0	15								

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 5

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
3/31/95	* S95-5668	Breast	1	1	2	2									
3/31/95	* S95-5668	Breast				0		15							
4/3/95	S95-5798	Breast	1	1	2	2									
4/10/95	* S95-6255	Breast	1	1	2	3			0	0					
4/13/95	* S95-6255	Breast				0		15							
4/12/95	S95-6435	Breast	1	1	2	1						1			
4/12/95	* S95-6445	Breast			2										
4/13/95	* S95-6445	Breast				0		15							
5/6/95	S95-6657	Breast				0		8							
4/17/95	* S95-6658	Breast	1	1	1	1						1			
5/6/95	* S95-6658	Breast				0		8							
4/17/95	S95-6664	Breast	1	1	2	2									
4/17/95	S95-6687	Breast	1	1	1	1									
4/24/95	* S95-7192	Breast	1	1	1	1									
4/28/95	* S95-7192	Breast	1	1	1	1									
4/24/95	* S95-7215	Breast	1	1	1	1						2			
4/25/95	* S95-7286	Breast	1	1	1	1									
5/3/95	S95-7359	Breast										4			
5/3/95	S95-7408	Breast										2			
5/1/95	* S95-7583	Breast	1	1	2	2									
5/8/95	* S95-7583	Breast										1			
5/1/95	S95-7599	Breast	1	1	2	2						1			
5/1/95	* S95-7601	Breast	1	1	2	2						1			
5/5/95	* S95-7601	Breast										2			
5/1/95	S95-7647	Breast	1	1	2	2									
5/17/95	* S95-8820	Breast	1	1	2	4									
5/25/95	S95-9166	Breast				0		15							
5/25/95	S95-9167	Breast				0		15							
5/24/95	* S95-9272	Breast	1	1	1	1									
5/25/95	* S95-9272	Breast				0		15							
5/26/95	S95-9486	Breast	1	1	1	1									
5/31/95	* S95-9729	Breast	1	1	6	15									

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 6

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
6/2/95	S95-9927	Breast				2									
6/12/95	S95-10463	Breast		1	1	1									
6/13/95	* S95-10548	Breast		1	2	2					1	1			
6/20/95	* S95-10548	Breast										2			
6/14/95	* S95-10659	Breast		1	1	1					1	1			
6/21/95	* S95-10659	Breast										1			
6/16/95	S95-10798	Breast		1	1	1									
6/21/95	* S95-11124	Breast		1	1	1									
6/21/95	* S95-11124	Breast				0		15							
6/21/95	* S95-11125	Breast		1							2	2			
7/5/95	* S95-11125	Breast		1							2	1			
6/23/95	S95-11240	Breast		1	1	1									
6/26/95	* S95-11358	Breast				2									
6/26/95	* S95-11358	Breast				0		15							
6/27/95	S95-11427	Breast				0		15							
6/27/95	* S95-11445	Breast		1	2	1									
6/27/95	* S95-11445	Breast				0		15							
6/28/95	S95-11610	Breast		1	2	2									
6/29/95	S95-11709	Breast		1					1	1					
6/30/95	* S95-11746	Breast		1	2	2						1			
6/27/95	* S95-11746	Breast				0		15							
6/21/95	S95-11921	Breast				0		15							
7/6/95	S95-11962	Breast				1									
7/19/95	S95-11972	Breast				1									
7/10/95	* S95-12114	Breast		1	2	4			1	1	2	2			
7/11/95	S95-12161	Breast		1	3	5									
7/12/95	S95-12253	Breast		1	1	2									
7/18/95	S95-12627	Breast				0		15							
7/18/95	S95-12647	Breast		1	2	2									
7/25/95	S95-13137	Breast				7				3					
7/26/95	S95-13293	Breast		1	5	1									
8/7/95	S95-13963	Breast				3									

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
8/9/95	* S95-14172	Breast				0		15							
8/9/95	* S95-14172	Breast		1	4	2									
8/9/95	S95-14209	Breast		1	6	6			0	0	1	1			
8/11/95	S95-14350	Breast		1	1	1									
8/12/95	* S95-14374	Breast		1	3	6									
8/16/95	S95-14612	Breast				4									
8/30/95	* S95-15465	Breast		1	9	4									
8/30/95	* S95-15484	Breast		1	2	1									
9/5/95	S95-15759	Breast		1	3	3						1			
9/6/95	S95-15789	Breast			2										
9/6/95	* S95-15854	Breast		1	2	2									
9/6/95	* S95-15854	Breast				0		15							
9/11/95	* S95-16148	Breast		1	1	3									
9/18/95	* S95-16562	Breast		1	6	9			0	0					
9/18/95	* S95-16562	Breast				0		15							
9/19/95	* S95-16716	Breast				1									
9/19/95	* S95-16716	Breast				0		15							
9/22/95	S95-16934	Breast		1	5	5			0	0					
9/22/95	S95-16934	Breast				0		15							
9/26/95	S95-17122	Breast				0		15							
10/02/95	S95-17500	Breast				0		15							
10/11/95	* S95-17513	Breast				1									
10/02/95	* S95-17513	Breast				0		15							
10/10/95	* S95-17985	Breast		1	3	3			0	0	1	1			
10/17/95	S95-18259	Breast										2			
10/17/95	* S95-18398	Breast		1	1	1									
10/18/95	* S95-18398	Breast		1							1	1			
10/17/95	* S95-18398	Breast				0		15							
10/17/95	* S95-18398	Breast		1							1	1			
10/17/95	* S95-18398	Breast										1			
10/17/95	S95-18434	Breast				0		15							
10/17/95	S95-18434	Breast										1			

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 8

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
10/19/95	S95-18603	Breast				0		15							
10/27/95	S95-18603	Breast		1							2	2			
10/20/95	S95-18666	Breast				0		15							
11/7/95	* S95-19426	Breast		1							1	1			
11/1/95	* S95-19426	Breast				0		15							
11/6/95	* S95-19566	Breast		1		1	1								
11/3/95	S95-19577	Breast		1		1	1								
11/6/95	* S95-19643	Breast				0		15							
11/6/95	* S95-19703	Breast		1		1	1								
11/6/95	* S95-19703	Breast				0		15							
11/7/95	* S95-19769	Breast				1									
11/7/95	* S95-19769	Breast				0		15							
11/10/95	S95-20072	Breast		1		1	1								
11/14/95	S95-20259	Breast		1		2	2								
11/14/95	* S95-20273	Breast				1									
11/14/95	* S95-20273	Breast				0		15							
11/15/95	S95-20362	Breast				0		15							
11/15/95	S95-20362	Breast				1									
11/17/95	S95-20580	Breast				1									
11/17/95	S95-20580	Breast				0		15							
11/20/95	S95-20743	Breast		1		1	1								
11/21/95	* S95-20890	Breast		1		1	1								
11/22/95	S95-20952	Breast				0		15							
11/28/95	* S95-21114	Breast				0		15							
11/28/95	S95-21152	Breast		1		1	1								
12/8/95	* S95-21877	Breast				2									
12/8/95	* S95-21877	Breast				0		15							
12/11/95	* S95-22012	Breast		1		1	1								
12/11/95	* S95-22042	Breast		1		1	1								
12/11/95	* S95-22042	Breast				0		15							
12/12/95	* S95-22067	Breast		1							1	1			
12/12/95	* S95-22067	Breast				0		15							

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
12/12/95	S95-22156	Breast				2									
12/19/95	S95-22566	Breast				0		15							
12/19/95	* S95-22574	Breast		1	1	1									
12/19/95	* S95-22574	Breast				0		15							
12/19/95	* S95-22577	Breast				1									
12/19/95	* S95-22577	Breast				0		15							
12/19/95	S95-22583	Breast		1	2	2					1	1			
12/19/95	* S95-22591	Breast		1	2	2									
12/22/95	* S95-22724	Breast				2									
1/3/96	S96-77	Breast		1							1	1			
1/3/96	S96-86	Breast		1	1	1					1	1			
1/4/96	* S96-167	Breast		1	1	1									
1/6/96	S96-280	Breast		1	1	1									
1/5/96	* S96-319	Breast				0		15							
1/10/96	* S96-471	Breast				0		38							
1/16/96	S96-797	Breast				0		15							
1/16/96	* S96-800	Breast				0		15							
1/16/96	* S96-872	Breast		1	1	1									
1/17/96	* S96-872	Breast				0		15							
1/16/96	* S96-900	Breast		1	2	4									
1/17/96	* S96-900	Breast				0		15							
1/17/96	S96-937	Breast		1	1	1									
1/17/96	* S96-946	Breast		1	2	2					1	1			
1/23/96	* S96-946	Breast				0		15							
1/23/96	S96-992	Breast				0		15							
1/19/96	* S96-1171	Breast		1	1	1									
1/23/96	* S96-1171	Breast				0		15							
1/23/96	* S96-1319	Breast				0		15							
1/23/96	* S96-1340	Breast		1	1	1									
1/23/96	* S96-1340	Breast				0		15							
1/26/96	S96-1610	Breast				0		15							
1/26/96	* S96-1643	Breast				0		15							

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 10

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
1/30/96	* S96-1808	Breast	1	2	2	0	15	15	1	1	1	1			
1/30/96	* S96-1808	Breast				0	15	15							
2/1/96	S96-2038	Breast				0	15	15							
2/6/96	* S96-2200	Breast	1								1	1			
2/5/96	* S96-2222	Breast	1	2	2	15									
2/5/96	* S96-2281	Breast				1	1	1			1	1			
2/5/96	* S96-2281	Breast	1	2	2	2	4	4			4	4			
2/8/96	* S96-2531	Breast	1			0	15	15							
2/8/96	* S96-2538	Breast	1	1	1	0					1	1			
2/9/96	* S96-2595	Breast	1	1	1	0	15	15							
2/9/96	* S96-2595	Breast	1	1	1	0	15	15							
2/12/96	* S96-2704	Breast	1	1	1	1									
2/12/96	S96-2709	Breast	1	1	1	1									
2/19/96	* S96-3130	Breast				1									
2/19/96	* S96-3130	Breast	1			0	15	15							
2/20/96	* S96-3131	Breast	1	1	1	1					1	1			
2/21/96	S96-3302	Breast	1	1	1	1									
2/21/96	S96-3344	Breast				0	15	15							
2/22/96	* S96-3414	Breast	1								1	1			
2/27/96	S96-3591	Breast	1								1	1			
2/27/96	* S96-3624	Breast	1								1	1			
2/28/96	* S96-3765	Breast	1	1	1	1									
2/5/96	* S96-3765	Breast				0	30	30							
3/4/96	* S96-4093	Breast	1	1	1	1									
3/4/96	* S96-4093	Breast				0	15	15							
3/4/96	* S96-4095	Breast	1	1	1	1									
3/4/96	* S96-4095	Breast				0	15	15							
3/4/96	* S96-4104	Breast	1	1	1	1									
3/4/96	* S96-4104	Breast				0	15	15							
3/7/96	* S96-4306	Breast	1	2	2	2									
3/8/96	* S96-4410	Breast	1	1	1	1									
3/12/96	* S96-4410	Breast				0	15	15							

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 11

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
3/8/96	* S96-4443	Breast	1	1	1	1									
3/8/96	* S96-4443	Breast				0		15							
3/12/96	S96-4629	Breast				15									
3/14/96	S96-4775	Breast	1	1	1	1									
3/15/96	* S96-4873	Breast		1	1	0									
3/15/96	* S96-4873	Breast				0		15							
3/2/96	S96-4925	Breast				0		30							
3/19/96	S96-5078	Breast	1	1	1	1									
3/19/96	* S96-5081	Breast	1	1	1	1									
3/19/96	* S96-5085	Breast				2									
3/19/96	* S96-5085	Breast						15							
3/21/96	S96-5244	Breast	1								1	1			
3/21/96	* S96-5266	Breast				0		15							
3/25/96	* S96-5404	Breast	1	1	1	1					1	1			
3/25/96	S96-5452	Breast	1	1	1	1									
3/27/96	S96-5639	Breast									3				
3/28/96	* S96-5683	Breast	1	3	3	3									
4/3/96	* S96-5683	Breast				0		15							
4/3/96	* S96-5812	Breast				0		15							
4/3/96	* S96-5812	Breast				1									
4/2/96	* S96-6029	Breast	1	2	2	2									
4/3/96	S96-6092	Breast				0		15							
4/3/96	S96-6109	Breast				0		15							
4/4/96	S96-6178	Breast	1	1	1	1									
4/17/96	S96-6365	Breast				1		15							
4/9/96	S96-6416	Breast				0		15							
4/16/96	* S96-6848	Breast	1	2	2	2					1	1			
4/23/96	* S96-7376	Breast	1	3	3	3					1	1			
4/24/96	* S96-7457	Breast	1	2	2	3									
4/24/96	* S96-7457	Breast				0		15							
4/29/96	S96-7741	Breast	1	2	2	2									
4/30/96	S96-7903	Breast				0		15							

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 12

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
5/2/96	S96-8073	Breast	1	1	1	1									
5/3/96	* S96-8213	Breast				0	15								
5/3/96	* S96-8213	Breast				1									
5/6/96	S96-8236	Breast	1	1	1	1									
5/7/96	* S96-8335	Breast	1	2	2	1						1			
5/7/96	* S96-8335	Breast				0	15								
5/7/96	* S96-8393	Breast	1	1	1	1									
5/7/96	* S96-8393	Breast				0	15								
5/14/96	* S96-8852	Breast	1	1	1	1									
5/14/96	* S96-8852	Breast				0	15								
5/16/96	S96-8966	Breast		2	2						2				
5/16/96	* S96-9109	Breast	1	1	1	1									
5/17/96	S96-9194	Breast	1	1	1	1						1			
5/20/96	S96-9247	Breast	1	1	1	1					1	1			
5/21/96	* S96-9385	Breast	1	2	2	2					1	1			
5/22/96	S96-9425	Breast	1	2	2						1	1			
5/24/96	* S96-9568	Breast	1	1							1	1			
5/14/96	S96-9588	Breast				0	15								
6/17/96	* S96-9882	Breast				0	15								
6/3/96	S96-10119	Breast	1	2	2	2		0	0						
6/3/96	* S96-10125	Breast	1	1	1	1									
6/17/96	* S96-10125	Breast				0	15								
6/5/96	* S96-10337	Breast	1	1	1	2					1	1			
6/5/96	* S96-10337	Breast				0	15								
6/7/96	S96-10389	Breast	1								1	1			
6/7/96	S96-10485	Breast		1	1						1				
6/7/96	* S96-10541	Breast	1	1	1	2		0	0		1	1			
6/7/96	* S96-10541	Breast				0	15								
6/7/96	* S96-10547	Breast	1	2	2	1									
6/17/96	* S96-10547	Breast				0	15								
6/10/96	S96-10626	Breast	1	1	1	1									
6/10/96	* S96-10630	Breast				2						1			

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
6/17/96	* S96-10630	Breast				0		15							
6/11/96	S96-10704	Breast	1		2	2									
6/12/96	* S96-10799	Breast	1		2	2			0	0					
6/12/96	* S96-10821	Breast	1		1	1					1	1			
6/17/96	* S96-10821	Breast				0		15							
6/14/96	* S96-10950	Breast	1		2	2					1	1			
6/17/96	* S96-10950	Breast				0		15							
6/17/96	S96-10954	Breast				0		15							
6/18/96	S96-11174	Breast	1		1	1									
6/19/96	S96-11204	Breast	1		1	1									
6/19/96	* S96-11227	Breast	1		1	1									
6/19/96	* S96-11227	Breast				0		15							
6/28/96	S96-11244	Breast				0		15							
6/19/96	* S96-11250	Breast				0		15							
6/21/96	* S96-11434	Breast	1		1	1									
6/24/96	* S96-11566	Breast			2										
6/25/96	* S96-11583	Breast	1		1	1									
6/25/96	* S96-11583	Breast				0		15							
6/25/96	S96-11620	Breast				0		15							
6/25/96	* S96-11631	Breast	1		1	1									
6/25/96	* S96-11631	Breast				0		15							
6/26/96	* S96-11690	Breast	1		2	4				0					
6/25/96	* S96-11690	Breast				0		15							
7/1/96	* S96-11971	Breast	1		2	2									
7/11/96	* S96-12529	Breast	1		3	3									
7/17/96	* S96-12813	breast	1								2	2			
7/18/96	S96-13032	Breast	1		2	2									
7/19/96	S96-13104	breast	1		1	1			0	0					
7/19/96	* S96-13116	Breast	1		1	1									
7/22/96	* S96-13200	Breast	1		1	1					1	1			
7/23/96	S96-13317	Breast			2										
7/26/96	S96-13599	Breast	1		1	1					1	1			

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 14

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
7/29/96	S96-13696	Breast	1						1	1					
8/2/96	S96-13819	Breast				1									
8/2/96	* S96-13994	Breast						15							
8/6/96	S96-14235	Breast						15							
8/14/96	* S96-14677	Breast	1					15			1	1			
8/13/96	* S96-14677	Breast						15							
8/13/96	S96-14740	Breast						15							
8/14/96	S96-14845	Breast	1	1	2	2					1	1			
8/15/96	S96-14933	Breast	1	1	2	2			0						
8/19/96	S96-15151	Breast						15							
8/20/96	S96-15209	Breast	1	1	1	1									
8/21/96	S96-15409	Breast				1									
8/22/96	S96-15429	Breast						30							
8/26/96	S96-15640	Breast				1									
8/26/96	S96-15790	Breast	1	1	1	1					1	1			
8/30/96	S96-15924	Breast	1	1	1	1					1				
9/3/96	* S96-16022	Breast						15							
9/3/96	S96-16028	Breast	1	1	1	1									
9/3/96	S96-16033	Breast				2									
9/4/96	S96-16112	Breast	1	1	1	1									
9/6/96	* S96-16318	Breast	1	1	1	1									
9/6/96	* S96-16318	Breast						23							
9/6/96	S96-16339	Breast	1	1	1	1									
9/10/96	S96-16496	Breast	1	1	2	2									
9/10/96	* S96-16568	Breast	1	1							1	1			
9/12/96	* S96-16688	Breast	1	1					1	1					
9/12/96	* S96-16688	Breast						15							
9/13/96	* S96-16829	Breast	1	1	2	2									
9/16/96	S96-16903	Breast	1	1					1	1					
9/16/96	* S96-16915	Breast	1	1	1	1									
9/16/96	* S96-16915	Breast						15							
9/17/96	S96-17024	Breast	1						1	1					

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 15

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
9/18/96	* S96-17111	Breast						15							
9/20/96	S96-17260	Breast				2									
9/20/96	S96-17314	Breast	1					1	1						
9/23/96	S96-17383	Breast	1		2	2									
9/24/96	* S96-17478	Breast						15							
9/24/96	* S96-17549	Breast	1		3	3									
9/24/96	* S96-17549	Breast						15							
9/24/96	* S96-17549	Breast				1									
9/24/96	* S96-17549	Breast				1									
9/27/96	S96-17780	Breast				1									
9/30/96	S96-17850	Breast				2									
10/1/96	S96-17930	Breast	1		1	1									
10/1/96	S96-17934	Breast	1		1	3					1	1			
10/4/96	S96-18242	Breast	1								1	2			
10/11/96	* S96-18604	Breast	1								1	1			
10/11/96	* S96-18669	Breast	1		1	1									
10/11/96	* S96-18669	Breast						15							
10/14/96	S96-18828	Breast				1									
10/18/96	S96-19220	Breast						15							
10/21/96	* S96-19355	Breast	1		1	1									
10/21/96	* S96-19355	Breast						15							
10/22/96	S96-19386	Breast						15							
10/22/96	* S96-19428	Breast						15							
10/22/96	* S96-19436	Breast						15							
10/22/96	* S96-19436	Breast				1									
10/23/96	* S96-19542	Breast	1					20	12	12	2	2			
10/23/96	* S96-19542	Breast						15							
10/25/96	* S96-19724	Breast	1		1	1									
10/25/96	* S96-19724	Breast				1									
10/25/96	S96-19738	Breast	1		2	2									
10/28/96	S96-19839	Breast	1		1	1									
10/29/96	S96-19905	Breast						6							

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 16

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
10/30/96	S96-20019	Breast						15							
10/31/96	* S96-20090	Breast	1	1	1	1									
10/31/96	* S96-20090	Breast					15								
11/6/96	S96-20209	Breast	1	1	1	1									
11/4/96	S96-20282	Breast					15								
11/11/96	* S96-20663	Breast	1	1					1	1					
11/8/96	* S96-20663	Breast					15								
11/13/96	* S96-21002	Breast					15								
11/20/96	S96-21494	Breast	1	1							1	1			
11/22/96	S96-21790	Breast	1	1	4	3									
11/22/96	S96-21790	Breast					15								
11/22/96	S96-21790	Breast	1	1	4	3					1	1			
11/22/96	S96-21790	Breast	1	1	3	3									
11/26/96	S96-21954	Breast	1	1	2	2									
11/27/96	S96-22120	Breast	1	1					1	1					
12/13/96	S96-22622	Breast					15								
12/9/96	S96-22755	Breast	1	1	1	1									
12/9/96	S96-22785	Breast	1	1	1	1									
12/18/96	S96-23498	Breast							1						
12/27/96	S96-23952	Breast					15								
1/3/97	S97-76	Breast					15								
1/6/97	S97-180	Breast	1	1	2	2									
1/8/97	S97-359	Breast	1	1	2	2									
1/8/97	S97-359	Breast					15								
1/10/97	S97-592	Breast	1	1	2	2									
1/13/97	S97-592	Breast	1	1	2	2									
1/10/97	S97-592	Breast					15								
1/13/97	S97-694	Breast							0	1					
1/13/97	S97-694	Breast	1	1					1	2					
1/16/97	S97-975	Breast					15								
1/17/97	S97-1156	Breast				3									

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 17

-101-

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
1/28/97	S97-1834	Breast	1	1	1	1						1			
1/27/97	S97-1834	Breast					15								
1/28/97	S97-1865	Breast	1	1	1	1									
1/28/97	S97-1865	Breast					15								
2/11/97	S97-2402	Breast					15								
2/6/97	S97-2644	Breast	1								1	1			
2/7/97	S97-2695	Breast	1	1	1	1									
2/12/97	S97-3027	Breast	1	4	4	10				3	2	2			
2/18/97	S97-3455	Breast	1	2	2	2									
2/18/97	S97-3455	Breast					15								
2/19/97	S97-3509	Breast	1	3	3	3					2	2			
2/19/97	S97-3524	Breast	1	1	1	1									
2/19/97	S97-3524	Breast					15								
2/24/97	S97-3840	Breast	1				1								
2/26/97	S97-3987	Breast	1	1	1	1									
2/27/97	S97-4099	Breast	1	2	2	2									
2/27/97	S97-4099	Breast					15								
3/4/97	S97-4438	Breast	1	1	1	1									
3/4/97	S97-4438	Breast					15								
3/13/97	S97-5192	Breast					15								
3/14/97	S97-5224	Breast					15								
2/27/97	S97-5237	Breast	1	1	1	1									
2/27/97	S97-5237	Breast					15								
3/18/97	S97-5432	Breast	1	1	1	1									
3/20/97	S97-5612	Breast	1	1	1	1									
3/14/97	S97-5828	Breast					15								
3/24/97	S97-5862	Breast	1	1	1	1									
3/31/97	S97-6237	Breast	1	1	1	1									
3/31/97	S97-6297	Breast	1	2	2	2									
4/1/97	S97-6318	Breast					15								
4/4/97	S97-6623	Breast	1	2	2	3									
4/7/97	S97-6735	Breast	1	1	1	1									

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 18

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
4/7/97	S97-6735	Breast						15							
4/7/97	S97-6779	Breast						15							
4/7/97	S97-6786	Breast	1	1	1	1									
4/11/97	S97-7157	Breast				2									
4/15/97	S97-7412	Breast	1	1							1	1			
4/22/97	S97-7890	Breast	1	1	2	5									
4/23/97	S97-7957	Breast	1	1	3	5			1	1					
4/23/97	S97-7957	Breast						15							
5/28/97	S97-8226	Breast						15							
5/1/97	S97-8545	Breast	1	1	1	1									
5/9/97	S97-9271	Breast						15							
5/13/97	S97-9441	Breast	1	1	1	1									
5/13/97	S97-9451	Breast						15							
5/13/97	S97-9456	Breast						15							
5/16/97	S97-9732	Breast						15							
5/30/97	S97-10411	Breast						15							
5/30/97	S97-10676	Breast	1	1	1	1									
5/30/97	S97-10676	Breast						15							
6/17/97	S97-10715	Breast						15							
6/3/97	S97-10915	Breast	1	1	1	1									
6/3/97	S97-10915	Breast						15							
6/4/97	S97-11013	Breast	1	1	3	4				0					
6/4/97	S97-11013	Breast						15							
6/10/97	S97-11381	Breast	1	1	2	2									
6/10/97	S97-11492	Breast	1	1					1	1					
6/13/97	S97-11873	Breast	1	1	1	1									
6/17/97	S97-12022	Breast	1	1	1	1									
6/17/97	S97-12022	Breast						15							
6/17/97	S97-12063	Breast	1	1	1	1									
6/17/97	S97-12063	Breast						15							
6/27/97	S97-12930	Breast	1	1							1	1			
6/27/97	S97-12930	Breast						15							

* Tissue samples are available for this patient from multiple cases and/or parts.

Print Date: 7/24/97

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Page 19

Tissue Available

By Tissue Type

As of: July 24, 1997

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
6/30/97	S97-13104	Breast		1	1	1									
6/30/97	S97-13104	Breast						15							
		BREAST	610	315	484	671	1	2621	83	87	82	102			
		TOTALS:	610	315	484	671	1	2621	83	87	82	102			

-104-