

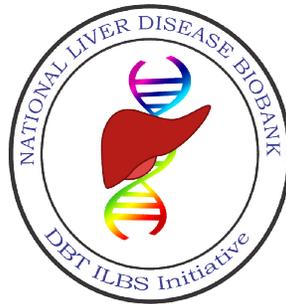


Institute of Liver & Biliary Sciences
(An autonomous society under government of NCT
of Delhi)



सत्यमेव जयते

Department of Biotechnology
Ministry of Science & Technology
Government of India



National Liver Disease Biobank
DBT-ILBS

Services/facilities offered to researchers

&

Sharing Policy

**BIOBANK, PHASE-II,
INSTITUTE OF LIVER & BILIARY SCIENCES
D-1, VASANT KUNJ, NEW DELHI-110070
Email: nldb.ilbs@gmail.com, biobank.ilbs@gmail.com
Website: www.nldb.in**

PREAMBLE

Importance of Biobank

A biobank is a biorepository that stores biological samples along with clinical annotation for use in research. Biobank is an important resource in medical research, supporting many types of contemporary research like genomics and personalized medicine. It gives researchers access to data and biological samples representing a large number of people. Samples in biobanks and the data derived from those samples are used by multiple researchers for cross purpose research studies

Purpose of National Liver Disease Biobank

The purpose of this biorepository is to maintain biological specimens, and associated information, for use for research. The biorepository assures the quality, and manages the accessibility and distribution/disposition of the biospecimens in its collection. In NLDB, researchers can carry out their research from start to end in one go under one roof with advanced and world class research equipments.

Types of samples can be stored / Availed from NLDB

Fresh Tissue, Frozen Tissue, Formalin Fixed Tissue, Body fluid, blood, serum, plasma, urine, sputum, FFPE block, sample slide, DNA, RNA, PBMCS

Services offered by NLDB

- ✓ Standardized sample collection and storage of human and animal biosamples with clinical data annotation as per international standards (-80 & Liquid Nitrogen)
- ✓ Clinical trial and project sample storage
- ✓ Analytical services on mass spectrometer, flow cytometer with cell sorting, NGS, automated immunostaining, immunofluorescence, imaging
- ✓ Training and courses in biobanking
- ✓ Histopathological services
- ✓ NLDB provides Consultancy Services to Hospitals/research institutes for opening or maintaining biorepository.

HOW RESEARCH CAN BE BENEFITED USING NLDB SERVICES

As our primary and most important focus is to promote research programs and facilitate researchers with cutting edge technology and high quality bio-samples, researchers can avail the following benefits:

- **Biosamples:** We collect and maintain highest quality as per international standards for researchers to get best and accurate results
- **Storage:** Our storage system assures almost no modification/changes in the state of the stored samples, below are the lists of NLDB storage equipments:
 - ✓ Liquid Nitrogen Tanks
 - ✓ -80c Freezers
 - ✓ Full Freezer on lease
 - ✓ Freezer racks
- **Processing:** With highly trained technical staffs at our Biobank, we are able to process your samples right from the collection from the subject
- **Customized data sets/Clinical Annotation:** Clinical annotations are maintained in LIMS software and also we can provide customized data sets as per project requirements.
- **Analytical Services:** Advanced analytical facilities like mass spectrometry, Flow Cytometry, Next Generation Sequencing, ImmunoHistochemistry, Polymerase Chain Reaction etc. are available at NLDB.
- **Prospective sample collection:** We have collaboration with various hospitals/satellite centres from where we are able provide samples based on your requirements.
- **Cohort Studies:** Cohort studies for specific group are one of the unique features of NLDB provided to researchers.
- **Time Management:** We take your load for collection, data management, biospecimen handling, storage, analytical services which saves your time and help you to reach conclusion in faster and easier way.
- **Saves Money:** This facility will acquire a non-profitable business and financial model, thus you can avail storage and analytical services at very nominal charges and joint projects with NLDB is also like to get funded easily because of requirement of less funds.

SHARING POLICY

Every potential sample shall be submitted to biobank with blanket informed consent form to be considered as a potential bioresource.

A. Biobank Utilisation Policy Host Institute

1. Rental for Storage Faculty/PI/Clinicians/Researcher [Complete Custodianship]

You can store your samples at biobank in various storage systems as per your requirement, the list of which is mentioned in the service price list which is separate for the Host, Non host academic institute and industry.

2. Students [Partial Custodianship]

- I. Student protocol samples will be discounted 75% (standard charges Rs. 200/year/sample)
- II. MD/PHD/Research students will not be charged for storage of Biosamples, if they will collect equal number of biosamples and donate to biobank in the common pool.
- III. Students will get one week training with certificate on one of instruments Biobank/FACS/NGS/mass spectrometer, if they will facilitate 25 samples to NLDB.
- IV. Student can get another type of samples in exchange, depending upon the availability (eg. may get PBMC in exchange of plasma)

3. Clinician/Scientist: If they donate 50% in the common pool of Biobank with ethical approval and consent

1. Free storage and retrieval of their 50% samples, if they donate 50% samples to the biobank common pool. The stake will be as in table-1 on the common pool samples facilitated by them, if they are to be released.
2. Will get 50% ownership of their stored samples
3. Data annotation will be maintained in the biobank software.
4. Facility like FACS, NGS, MASS spectrometer, DNA, RNA Isolation will be provided on subsidized utilization rate by upto maximum of 50%.
5. Biobank will facilitate Rs 200 per sample to the institute; if the samples are procured by other researchers.
6. Sample exchange can be provided
7. Co-ordinate to develop joint project proposals.
8. Joint authorship, Co-authorships and acknowledgements.
9. Rental on 50% subsidized rates.
10. PI/institute who participates in the strengthening process of biobank will be given certificate of participation.
11. Ownership of the biosamples provided by surgeon/PI with NLDB will be as follows on the common pool sample, *against the retrieval charges*:

Table-1

YEAR	BIOBANK COMMON POOL	SURGEON/PI/ILBS (stake on common pool samples)
First	25%	75%
Second	50%	50%
Third	65%	35%
Fourth	80%	20%
Fifth	100%	00%

4. Policy regarding the host institute's samples, which are kept in the common pool of biobank under the Flagship of ILBS

The samples donated by the ILBS/ILBS researchers/Pis to NLDB, can be retrieved with 50% of standard charges as mentioned in the list. Priority will be given to PI's; if unused same can be given to Co-PI's with permission of PI of the concern project for usage, if still unused other scientists/PI's of host institute who has requirement for those samples for their projects/research can use them, but with permission of the PI. The remaining samples can be provided to academic institutions and lastly for industrial collaboration, if institute permits. In all scenarios PI who facilitated the samples collection to be acknowledged by the end user.

B. Biobank Utilisation Policy Non Host Institutes

1. Rental for Storage Faculty/PI/Clinicians/Researcher [Complete Custodianship]

You can store your samples at biobank in various storage systems as per your requirement, the list of which is mentioned in the service price list which is separate for the Host, Non host academic institute and industry.

2. Students Protocol with IRB and Consent [Partial Custodianship]

1. MD/PHD/Research students will not be charged for storage of Biosamples, if they will collect two aliquot of biosamples and donate one to biobank.
2. Students will get training with certificate of Biobank FACS/NGS/mass spectrometer, if they will donate 50 samples to NLDB.
3. Samples owned by students and stored at NLDB can be exchanged with other disease type of samples.

3. Institute/pathologist/Surgeon/PI/scientist from the non-host institute: if they donate 50% in the common pool of Biobank with ethical approval and consent [Partial Custodianship]

Ownership of the 50% biosamples will remain with the PI FREE OF CHARGE if they donate 50% samples to NLDB: The stake on common pool samples would remain, against standard retrieval charges as below Table-2

YEAR	BIOBANK	SURGEON/PI
First	50%	50%
Second	75%	25%
Third	85%	15%
Fourth	100%	00%

4. In addition the following benefits would be provided for the stakeholders

1. Free Biobank training for 1 employee.
2. Subsidized rates on analytical equipments by 25% or fees will be in actual.
3. Sample exchange can be provided
4. Co-ordinate to develop joint project proposals.
5. Joint authorship, Co-authorships and acknowledgements.
6. Rental on 50% subsidized rates.
7. PI/institute who participates in the strengthening process of biobank will be given certificate of participation.

C. Sample donation [Academic Institutes]

Institutes/medical professionals/ researchers, those who are participating in the great cause by donating biospecimens to NLDB, will be acknowledged as CO-PI, Co-Authors in the projects, research papers published by their immense contribution. We will include your kind cooperation on our website, brochures, banners, introductory letters and all possible platforms where we will proudly show your co-operation and extreme support in this endeavour. Apart from this nodal officer will also be part of sample release board, thus we can have an editorial board like system where many scientist will be on the board to oversee the effective utilization of bio-resources.

D. Fees sharing (NLDB-private organizations)

Fee generated at NLDB by industrial collaboration can be shared between NLDB and Hospital/PI/Institute for the stored samples by the provider.

Biosamples	Fees for samples provider *Per sample (INR)	Duration
Plasma	50	Upto five years
FFPE Block	300	Upto five years
Serum	50	Upto five years
Frozen Tissue	300	Upto five years
Formalin Fixed Tissue	100	Upto five years

*After five years rates will be revised.

PI/institute who participates in the strengthening process of biobank will be given certificate of participation.

Industrial usage will be charged as per the biobank standard charges and 30% of the Fees will be shared with the institutes/hospital.

Facilitate joint project/co-authorship, acknowledgement as per standard policy for non-host institutes, wherever Fees sharing not applies.

E. Avail Credit and Debit Facilities

Credit: Suppose there is provision of pre-allocated funds in your project for using storage/analytical services, and the amount is deposited in Biobank's account. You can use the storage or analytical services, the amount will be deducted as per real time usage of facilities and the same will be informed. The remaining balance will be refunded to your account, once your requirement for storage and analytical facilities at NLDB are fulfilled

Debit: If there is delay for approval of funds from the funding agencies, you still can avail biobank services (storage/analytical). Invoice for using NLDB facilities will be sent as per your usage, and you can transfer the amount to biobank account once you receive them from the funding agency within 6(Six) Months.

F. Training Facilities

Technical training on NGS, FACS, and Mass Spectrometry etc. are also provided at NLDB.

G. Academic Courses

Academic courses are being offered for scientific, medical and technical professionals in the biobanking.

For further information please write us at: nldb.ilbs@gmail.com or contact 011-46300000 (24813, 24814)