

# CHOP BioREPOSITORY RESOURCE CENTER



## **BioRC** Mission

#### Our Mission

 To procure, process, store and distribute precious bio-samples following best

## Our Goal

- Establish a premier biobank with a well-defined and targeted set of biospecimens and supporting services.
- Enable support for both ongoing research and future studies that employ new and emerging technologies.
- Provide the highest quality biomaterials, specimen services, technical consultation and logistical support.

#### **Our Vision**

To become a world-class collaborative pediatric biobank.

## **How We Operate**

- We work mainly on a project by project basis.
- We support Investigator-initiated, Divisional, and Center-based IRB-approved biobanking efforts.
- Projects are approved via the **BioRC Operational Committee (BOC\*).**
- Projects must meet the institutional principles for biobanking.

## **CHOP Biobanking Principles**

- Biobanking specimens must be accessioned via the Nautilus LIMS system and the DBHi Bioportal-Honest Broker system for tracking and linking data.
- Specimen and associated data (PI-approved) will be made available (de-identified) on the CHOP ARCUS data platform to allow for collaboration across the institute.
- Specimen distribution is encouraged; however, all biobank specimen distribution via collaborative requests from CHOP investigators must be approved by the PI of the collecting study.
- Projects that agree to the principles and are approved by the BOC will receive free specimen accession, tracking, and storage.

## BioRC LIMS

## **BioRC LIMS Study Design Module:**

Creation of study based on specimen collection protocol.

-Biobank Study -Groups (Participants) -Collection Events -Primary Samples -Derived Aliquots Specimen Collection Kits Collection Guide

Tracking of Collection goals

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EXTERNAL

Initial

Blood Collection

BLD01

BLD02

CSF Collection

CSF01

CSF02

CSF03

FFRZ Tissue Collection FFRZ01
FFRZ02
FFRZ03
FRZM Tissue Collection

Name	Description	Sequence	Volume	Unit	Container Type
3LD01	EDTA Blood	1	4000	ul	EDTA (6ml)
BLD02	EDTA Blood	2	4000	ul	EDTA (6ml)
Name	Description	Sequence	Volume	Unit	Container Type
CSF01	Cerebral Spinal Fluid	1		ul	Cryovial (1.8ml)
CSF02	Cerebral Spinal Fluid	2		ul	Cryovial (1.8ml)
CSF03	Cerebral Spinal Fluid	3		ul	Cryovial (1.8ml)
Name	Description	Sequence	Volume	Unit	Container Type
FFRZ01	Flash Frozen Tissue	1		ug	Cryovial (1.8ml)
FFRZ02	Flash Frozen Tissue	2		ug	Cryovial (1.8ml)
FFRZ03	Flash Frozen Tissue	3		ug	Cryovial (1.8ml)
Name	Description	Sequence	Volume	Unit	Container Type
FRZM01	Freezing Media Tissue	1		mg	Cryovial (1.8ml)
FRZM02	Freezing Media Tissue	2		mg	Cryovial (1.8ml)
FRZM03	Freezing Media Tissue	3		mg	Cryovial (1.8ml)
FRZM04	Freezing Media Tissue	4		mg	Cryovial (1.8ml)
FRZM05	Freezing Media Tissue	5		mg	Cryovial (1.8ml)

## **BioRC** Services

## Sample Tracking and Processing

- Enterprise LIMS system.
- Labeling and tracking with barcoding (1D & 2D) and scanning systems.
- Tracking and storage of all sample derivatives.
- **Blood fractionation.**
- PBMC isolation and cryopreservation.
- Aliquoting for distribution.

### Sample Extraction and Purification

- Automated format for efficient throughput.
- DNA and RNA.
- Optimized technology for a wide range of sample types:
  - Blood

- Tissue
- Buffy coat
- Buccal swab

- Saliva

- Cells

### Sample Storage

- Dedicated and customized storage.
- Temperature monitoring and redundant alarm systems.

#### **BioRC** Lab: A440 Colket Translational Research Building

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