

Existing Biorepository Resources

There are a number of biorepositories which may have specimens available for research in HIV; below are some of the most well-known. Some of the following may be restricted access, fee-for-service, or via concept sheet approval only. Consult the website or contact person for further information; many researchers, especially those at other CFAR institutions, may be interested in collaborative opportunities. Please remember that no matter where you obtain your specimens, you should be aware of IRB requirements for all of your research.

Name/Title	Description	Link
AIDS and Cancer Specimen Resource	The AIDS and Cancer Specimen Resource (ACSR) is a resource for investigators working in the fields of HIV/AIDS, cancer, virology, immunology, pathology, epidemiology, tumor biology assay development, and many others. It is a biorepository for HIV-infected human biospecimens from a wide spectrum of HIV-related or associated diseases, including cancer, and from appropriate HIV-negative controls.	http://acsr.ucsf.edu/
AIDS Malignancy Consortium	Four of the working groups deal with the cancers that affect HIV-positive patients—Kaposi’s Sarcoma, Lymphoma, Human Papillomavirus-related Cancers (for example, anal and cervical cancers), and Non-AIDS Defining Cancers (for example, lung cancer, head and neck cancer, liver cancer).	http://oham.cancer.gov/oham_research/programs/consortium/
Baylor College of Medicine/UT Houston	The “PBMC, Serum, and Plasma Bank” stores adult patient samples obtained from five cohorts: (i) antiretroviral-naïve HIV-infected individuals, (ii) HIV-positive long-term non-progressors, (iii) HIV-negative individuals who have an HIV-positive partner, (iv) HIV/HCV co-infected patients, and (v) patients with diagnosis of acute HIV infection.	Contact: Betty Slagle (bslagle at bcm.tmc.edu)
Baylor CFAR	Multiple local and international patient databases via their extensive EMR. Lab specimens also available.	https://mediasrc.bcm.edu/documents/2015/d1/potentialstudypopulations-sept-3-2015.pdf
California NeuroAIDS Tissue Network	CNTN is an organization of research scientists and clinicians dedicated to the study of neurological and psychological impairment in HIV infection. Funded by the National Institute of Mental Health, CNTN is one of four sites participating in the larger National NeuroAIDS Tissue Consortium. Together, these researchers use their shared knowledge and resources to develop uniform methods for studying HIV-affected populations with neurological disorders.	https://cntn.hivresearch.ucsd.edu/

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CFAR Translational Virology Core	The facilities are coordinated with the Translational Virology Core of the Center for AIDS Research. The repository collects over 350 blood plasmas, 100 peripheral blood mononuclear cell samples, 40 genital secretions, and 15 cerebrospinal fluid clinical samples each month. The Biorepository has cryopreserved and inventoried more than 100,000 aliquots of blood plasma, 65,000 viably stored aliquots of peripheral blood mononuclear cells, and 5,000 aliquots of cerebrospinal fluid.	http://cfar.ucsd.edu/core-facilities/translational-virology-core/faculty-and-staff-1/california-lab-members/tv-core-director-1/tv-core-director
Cross-CFAR HIV Positive Specimen Repository Collaboration	The Cross-CFAR HIV Positive Specimen Repository collaboration has been established to increase the awareness of the HIV specimen repositories maintained at CFARs throughout the US. Individual CFAR repositories contain different types of specimens tagged with clinical data that also varies between institutions. Our hope is that by providing a single web-portal, we will more effectively reach translational scientists and match the needs of individual researchers to the specific resources of the varied repositories. A brief description of each repository with key contact information is included.	
Chicago CFAR	Newly funded; stay tuned.	http://www.thirdcoastcfar.org/
UCSF CFAR Clinical and Population Sciences Core Research	The Core has an active role in several of the most significant human subjects studies of HIV disease at UCSF. These studies constitute a Core resource for the entire UCSF HIV/AIDS research community and include:	http://cfar.ucsf.edu/cores/clinical/research
UCSF-Gladstone CFAR Specimen Bank Core	The Specimen Bank Core has provided repository services to many cohorts and clinical studies based in San Francisco since 1987, including the Women's Interagency HIV Study (WIHS), Biology of HIV Transmission (Options Cohort), Staying Well (Clinical trial of mindfulness-based stress reduction and education groups for HIV), and SFGH Observational Cohort Evaluating Long-Term Consequences of Virologic Failure (SCOPE).	http://cfar.ucsf.edu/cores/aids-specimen-bank
The CNICS Research Network (includes data as well as specimens)	The CFAR Network of Integrated Clinical Systems (CNICS) research network is the first electronic medical records-based network poised to integrate clinical data from the large and diverse population of HIV-infected persons in the modern HAART era. CNICS provides research infrastructure to support HIV clinical outcomes and comparative effectiveness research using data collected at one of 8 Center for AIDS Research (CFARs). The eight	http://www.uab.edu/cnics/ http://www.uab.edu/cnics/specimen-webform-request

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	<p>CNICS sites include CFARs with HIV clinics that have implemented point of care electronic data collection systems. These sites include: Case Western Reserve University, University of Alabama at Birmingham, University of California San Francisco, the University of Washington, the University of California San Diego, Fenway Health/Harvard University, University of North Carolina Chapel Hill, and John Hopkins University.</p>	(specimen request form)
Duke CFAR	<p>The Clinical Core has established a database and biorepository. This Database includes nearly 1900 HIV-infected persons receiving care in the Duke University Adult Infectious Diseases Clinic and will soon include approximately 100 HIV-infected children and adolescents receiving care in the Pediatric Infectious Diseases Clinic. The demographics of these patient populations mirror the reported demographics for North Carolina. There are currently over 60,000 plasma specimens in this biorepository.</p>	https://cfar.duke.edu/cores/clinical-core
Einstein CFAR	<ul style="list-style-type: none"> • A unified web-based clinical research databases that combines data from diverse cohorts and specimen repositories into one centralized relational database. The HIV Integrated Clinical Database (HICDB) provides access to the full array of clinical data for ~15,000 HIV+ and 217,000 HIV-negative patients. • The HIV Integrated Research Database (HIRDB) with Virtual Biorepository centralizes data from HIV+ research participants (and HIV-negative controls) to provide CFAR members with access to a broad-based Biobank derived from “remainder” specimens, including tissue from individuals newly infected with HIV, infected with HIV and HCV and elite controllers as well as other biorepositories of vaginal swabs, CVL, plasma, and PBMCs from over 300 women, including adolescents, HIV-infected and uninfected women, pregnant women, and post-coital samples of whom a subset also provided cervical or vaginal biopsies. • Access to data and samples from cohorts from Rwanda, Cameroon, Burundi and South Africa. 	<p>For a demo of the database using screen captures, please click here.</p> <p>Username:dbmu\cfar and Password: D3m0S1t3 and click the red boxes.</p>
Einstein Clinical & Translational Implementation Science Core	<p>This database includes 16,194 PLWH seen since 1997 and the current in-care diverse population of >5,700 PLWH in the Bronx, NY who are nearly 50% women, 45% Hispanic and 45% African American and provides an outstanding resource for clinical, epidemiological and translational research and the identification and recruitment of individuals for specific clinical studies.</p>	http://www.einstein.yu.edu/centers/erh-center-for-aids-research/core-facilities/clinical-translational-implementation-science-core

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Emory University	<p>Samples: PBMC, Plasma, Serum, DNA Pellets</p> <p>All specimens are linked to all available clinical data including demographics, HIV and ARV history. Longitudinal specimens are collected from HIV infected patients with a particular focus on those who are naive, naive starting therapy, elite and viremic controllers, long term nonprogressors, those with acute HIV, acute HBV or acute HCV infection and others of particular research interest.</p>	<p>Contact: Cameron Tran (t.cameron.tran at emory.edu)</p>
Emory University Repositories	<p>Thousands of repositories with contact information for inquiries about usage and collaboration.</p>	<p>http://medicine.emory.edu/documents/researchbiorepositories.pdf#biorepositories</p>
Global Registry of Biorepositories (GRBio)	<p>BioMedUSA serves as an exclusive open access internet platform for sharing and licensing of Biological Research Materials and related technologies. Within BioMedUSA is GRBio, a comprehensive clearinghouse of information about biological collections in natural history museums, herbaria, and other biorepositories. This online-registry is a source for authoritative information about collections as well as validated, standardized data such as addresses, contacts, and values for the Darwin Core identifiers for institutions and collections.</p>	<p>http://biomedusa.org/biorepositories/</p>
GW Biorepository	<p>The GW Biorepository assists researchers in the medical school by housing samples in the repository in a temperature-controlled environment. The GW Biorepository presently holds a collection of over 100,000 biospecimens. This inventory represents 16 categories of AIDS-associated malignancies and controls, as well as other biospecimens pertinent to HIV, including: Biospecimens representing malignant and benign tumors, infectious and reactive processes, and control biospecimens from involved and uninvolved tissue/organs.</p>	<p>Write Dr. Sylvia Silver regarding collection and storage of new specimens (ssilver@gwu.edu)</p> <p>Contact the ASCR for information about use of existing specimens http://acsr.ucsf.edu/</p>
GW National Chimpanzee Brain Resource for Neuroscience Research	<p>GW will serve as a brain repository, where scientists can request tissue samples from the university's collection to be sent to their own labs. The project team also will make available their assemblage of high-resolution MRI scans of chimpanzee brains along with observational data collected from studies on chimpanzees' motor, social and cognitive skills. With this information, the researchers plan to create an online, searchable</p>	<p>http://gwtoday.gwu.edu/gw-establish-national-chimpanzee-brain-resource-neuroscience-research</p>

Name/Title	Description	Link
	database that scientists can easily access. They also will build a detailed chimpanzee brain atlas and gene-expression map that can be used for research on the molecular pathways related to cognition and brain disease. (There are no chimpanzees housed at GW.)	
Harvard CFAR	The HU CFAR Clinical Core connects HIV-related research cohorts with resources. In turn, many of these studies have data and specimens available for further investigation. Dozens of domestic and international clinical cohort databases available for data and specimens.	http://cfar.globalhealth.harvard.edu/pages/research-cohort-database
Hemophilia Growth and Development Study (HGDS)	The HGDS represents one of the early cohorts of hemophilia patients with HIV or without HIV but at risk of HIV infection. It is the largest early cohort of hemophiliacs with and without HIV infection (n=333; 1988 – 1996/1997) and the largest cohort of hemophiliacs who were postnatally infected with HIV, e.g. through transfusion transmission. The samples are accompanied by rich phenotypic and genotypic data.	https://dash.nichd.nih.gov/study/2567
International Repository Locator (IRL)	The International Repository Locator (IRL) is an initiative by ISBER to help investigators locate biospecimen and data repositories by developing a directory of repository information that can be searched online. The International Repository Locator also seeks to increase the profile of research and biobanking activities being supported by individual repositories amongst key global stakeholders including scientific societies, researchers, funding bodies, governments, consortia and private industry.	https://www.irlocator.isber.org/
Johns Hopkins Biological Repository (JHBR) Service Center	The JHBR Service Center provides, on a fee-for-service basis, a wide range of services including, but not limited to, phlebotomy, blood and other body fluid collection, specimen fractionation and processing, testing, storage, as well as DNA and RNA isolation.	http://www.jhsph.edu/research/labs/biorepository/
Lifespan/Tufts/Brown	Samples: PBMC, cervicovaginal lavage, plasma Laboratory data available on some including CD4, PVL, ARV history, resistance profile	Contact: BRamratnam at Lifespan.org
Los Alamos National Lab	The HIV databases contain data on HIV genetic sequences, immunological epitopes, drug resistance-associated mutations, and vaccine trials. The website also gives access to a large number of tools that can be used to analyze these data. This project is funded by the Division of AIDS of the National Institute of Allergy and Infectious Diseases (NIAID), a part of the National Institutes of Health (NIH). Click on any of the links below to access a database.	http://www.hiv.lanl.gov/content/index

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National NeuroAIDS Tissue Consortium (NNTC)	As of October 25, 2015, 2,903 participants have enrolled into the clinical evaluation/tissue donation program and 2,097 individuals have donated CNS material to the bank. The Consortium is actively following 596 HIV+ individuals and 31 HIV- individuals at four clinical sites across the US.	https://www.nntc.org/
NIH reagents program	The NIH AIDS Reagent Program evolved from a small bank of HIV research materials into a unique worldwide resource of state-of-the-art reagents for HIV and other pathogens. Many of these reagents are not commercially available. Since the publication of the first catalog in 1988, listing 62 reagents from 20 contributors, the AIDS Reagent Program has grown significantly. We currently offer over 2000 reagents from hundreds of contributors. Reagents are shipped to scientists all over the world. The value of the AIDS Reagent Program is evident from the diversity of registered users; as of May 15 2013, over 1,500 scientists from the US and 53 foreign countries are currently actively registered to receive reagents. Although the majority of registrants are scientists at academic institutions, many are also from private industry and the US Government.	https://www.aidsreagent.org/
SpecimenRepository.org	Large NIH-funded repository containing millions of specimens from ACTG and IMPAACT trials. The specimens stored at the repositories were initially collected for specific studies that have concluded, and are now available to investigators conducting new research. The website has been completely redesigned with modern data visualizations and dashboards, expanded study and publication search capabilities, a tutorial and links to PubMed and ClinicalTrials.gov.	https://www.specimenrepository.org
Women's Interagency HIV Study (WIHS)	The Women's Interagency HIV Study (WIHS) is an NIH funded project aimed at improving knowledge on how HIV impacts women's lives. Beginning in August 1993, participants (both HIV infected and uninfected), staff and researchers have worked together to accomplish this goal across a broad range of topics both medical and psychosocial. Repository includes cervical biopsy tissue, whole blood, and oral rinse donations from both HIV positive and HIV negative WIHS participants for future HIV research.	Operationalized via http://acsr.ucsf.edu/
UAB CFAR	The Clinical Core maintains and provides patient samples from a comprehensive and efficient Specimen Repository obtained from well-characterized patients for collaborative investigations involving multiple research disciplines. Contact the Clinical Core to have samples processed or obtain samples for research	http://www.uab.edu/medicine/cfar/core-facilities/clinical-core

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	purposes. The Core also provides samples to other CFARs and outside investigators to aid scientific research.	
UAB CFAR Cohort data (also a part of CNICS)	The UAB 1917 Clinic Cohort is a prospective cohort study established in 1992 that includes HIV positive individuals who receive primary and subspecialty care at the University of Alabama at Birmingham (UAB) 1917 Clinic. Situated in the US Deep South, the UAB 1917 Clinic Cohort provides unique insights into a region bearing a disproportionate burden of the domestic HIV epidemic. The multidisciplinary investigative team also partners with national and international investigators playing a pivotal role in large scale, multi-site collaborative cohort studies.	http://www.uab.edu/medicine/1917cliniccohort/
University of California at Los Angeles	Plasma and PBMCs linked to clinical data, demographics, and HIV history. Our tissue bank contains rectal biopsies, PBMCs, and plasma from HIV+ individuals, people with IBD/IBS and normal controls. We also have a registry of participants who are HIV positive, sero-negatives and controls willing to be contacted for participation in studies.	Contact: Helen Brown (HJBrown at mednet.ucla.edu)
Center for AIDS Research Mucosal Immunology Core Laboratory	The UCLA CFAR MICL biorepository has supported more than 75 researchers and collected over 12,000 samples from 1,370 subjects over 2,765 subject encounters.	http://gastro.ucla.edu/site.cfm?id=227
University of Massachusetts	Samples: PBMC, Plasma, B-Cell lines, Virus isolate Demographics, HIV and ARV history recorded. Many with CD4 counts, HIV RNA levels and HIV resistance tests. Contains elite controllers, long-term non-progressors and some ARV naïve patients. Also has samples from uninfected individuals.	Contact: Thomas Greenough (thomas.greenough at umassmed.edu)
UNC CFAR and UNC CFAR HIV Clinical Cohort – UCHCC	UCHCC was created to provide a resource for addressing pressing clinical care issues facing patients with HIV-infection. UCHCC has grown to include almost 5,000 HIV-infected patients, with a rich specimen repository, patient reported outcomes and a comprehensive demographic, clinical, behavioral and socio-structural survey. UCHCC has been linked with local, state and national data sources. UCHCC data are available to HIV care providers through an individual Patient Summary Report and in aggregate to support the management of HIV care provision and clinical trial enrollment at UNC. The UCHCC has supported a variety of investigator initiated research efforts, spanning basic science, translational research, clinical care, epidemiology and public health, and collaborates with leading national and	http://uchcc.unc.edu/ http://uchcc.unc.edu/data/

Name/Title	Description	Link
	international HIV multi-cohort efforts including CNICS and NA-ACCORD. Contains data and specimens.	
University of Pennsylvania	<p>Samples: PBMC, Serum, Plasma, and CSF. Specimens can be linked to all outpatient and inpatient diagnostic tests and diagnoses, HIV and non-HIV related medications, and sexual and drug using behaviors, in addition to demographic and insurance data. Apheresis products have been collected from some volunteers, so large volumes of cells may be available from patients with certain characteristics. Fresh material, such as large volumes of blood, apheresis products, gastrointestinal lymph tissue biopsies, adipose tissue biopsies, genital secretions, and cerebrospinal fluid can be obtained by individual request.</p>	Contact: Evelyn Olivieri (olivieri at mail.med.u penn.edu)
University of Washington CFAR HIV Specimen Repository	<p>The HIV Specimen Repository is a collection of frozen plasma, PBMC, serum and PaxGene specimens donated by HIV infected patients cared for at the University of Washington HIV clinics (the Madison and Roosevelt Virology Clinics). Specimens are collected in Madison Clinic and in Roosevelt Clinic. Coded clinical data gleaned from the patients' electronic medical record is linked to specimens making translational studies on the virologic, immunologic, genetic and demographic determinants of HIV disease and associated opportunistic infections possible.</p> <p>This <u>repository</u> consists of plasma and PBMC fractions donated from over 1100 patients with chronic HIV infection.</p>	<p>http://depts.washington.edu/cfar/discover-cfar/cores-and-programs/hiv-specimen-repository</p> <p>For more details on demographic and clinical characteristics of the Repository or to initiate a feasibility study or formal request for specimens, please contact <u>Lauren Sterling</u>, program coordinator for the UW Clinical Research Core and HIV Specimen Repository. Phone: (206) 744-8876</p>
UPenn CFAR	The Clinical Core maintains and Adult/Adolescent Specimen Repository linked to our Database. Serum, plasma, and PBMCs are collected at periodic intervals prior to and following the start of antiretroviral therapy. In addition, apheresis products are stored from a select number of individuals with defined characteristics,	http://www.med.upenn.edu/cfar/ClinicalServicesRepository.shtml

Name/Title	Description	Link
	including elite controllers and patients with acute or recent HIV infection.	