BRB Lobby

| 31 Ne 32 CD 33 Bic 34 Ne | eurobehavior Testing Core BB Microscopy Core oinformatics Core ext Generation Sequencing Core | Test mice in state of the art assays of simple and complex behaviors; comprehensive behavior phenotyping of mice or training to perform the tests within our facility and analyze data; consultation in behavior battery design, data analysis and interpretation of results; mouse surgical and tissue harvest procedures Offers training and access to a variety of light microscopes; imaging for customers who are not trained; scanning electron microscopy services (sample preparation and imaging) Professional bioinformatics services, including data analysis and consultation to Penn biomedical research community; dedicated to building efficient pipelines to handle various next-generation sequencing (NGS) data Ultra high throughput sequencing services; library quality assessments, sequencing, and optional preliminary data analysis for a wide variety of experimental protocols including ChIP-seq, RNA-Seq, HITS-CLIP, miR-Seq, exome capture, and BIS-seq; limited library preparation services; advises on library preparation techniques Provides training and services in cell culture and related procedures including cell culture at various scales, large scale growth of hybridoma and other cell lines, antibody purification, EBV induced transformation of lymphocytes, and mycoplasma and endotoxin testing. Additionally, it offers hybridoma generation by cell fusion and screening, and the | Affiliation Perelman School of Medicine Perelman School of Medicine Perelman School of Medicine |
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| | ell Center Services Facility | growth of hybridoma and other cell lines, antibody purification, EBV induced transformation of lymphocytes, and | Perelman School of Medicine |
| | ell Center Services Facility | | r ereiman school of Wedicine |
| | ell Center Services Facility | Impropriating and endotoxin testing. Additionally, it offers hybridoina generation by cell lusion and screening, and the | |
| | ell Center Services Facility | transfection of mammalian cells. The facility prepares specialized cell culture media, drosophila media, and various | |
| 36 DN | | tissue culture and molecular biological reagents. | |
| 36 DN | | Provides sequencing services on two platforms, Sanger sequencing on ABI capillary sequencers, and next-generation | Perelman School of Medicine |
| 36 DN | | sequencing (NGS) on Ion Torrent PGM and its upgrade, S5 along with experimental design and data analysis. Other services include microsatellite genotyping and fragment analysis, human cell line authentication. The molecular | |
| | NA Sequencing Facility | biological services are PCR, cloning, constructs, mutagenesis, and DNA preps at different scales. | |
| | w. ocque.ne.ng r. de.mey | | Perelman School of Medicine |
| | | GeneChips & Gene Titan, Agilent aCGH, Fluidigm BioMark HD, Luminex FlexMap 3D, and ABI QS 12K Flex real-time | |
| | | PCR. Consultation and training are available throughout the user projects, including during experimental design and | |
| 37 Mc | olecular Profiling Facility | budget development, sample accrual, data management and analyses, and manuscript/grant preparation. | |
| 38 Clii | inical Cell and Vaccine Production Facility | Provides focused scientific, technical and regulatory support for investigator initiated investigational new drug applications (INDs) in cell and gene therapy | Perelman School of Medicine |
| JO CIII | micur cell and vaccine Froduction Facility | | Perelman School of Medicine |
| 39 Ele | ectron Microscopy Resource Laboratory | imaging services at low cost; full spectrum of both transmission EM and scanning EM services | Suitos of Medicille |
| | • | Centralized germ-free and gnotobiotic mouse services; access to small experimental isolators for a variety of in vivo | Perelman School of Medicine |
| | | studies utilizing germ-free mice; maintains several common strains of germ-free mice, such as C57BL6, and RAG | |
| | | knockout mice (available immediately upon request); developing method to provide re-derivation services for | |
| 10 Pei | enn Gnotobiotic Mouse Facility | generating customized germ-free and gnotobiotic mouse strains & generation of bone marrow chimeras, in the near future; offers technical support to investigators for numerous experimental procedures | |
| | | Provides high quality, cost effective services and scientific expertise necessary for investigators to use cytomics in | Perelman School of Medicine |
| | | their clinical and basic science research efforts; services for cell sorting/analysis & 24/7 access to operator- | |
| 11 Flo | ow Cytometry and Cell Sorting Facility | independent bench top analysis instruments and FACS Aria II cell sorters (after facility-provided training) | |
| | | | Perelman School of Medicine |
| 12 Ve | ector Core | vector technology for preclinical studies and other basic research applications 4 kinds of services for simple and very complex protein samples: Enzyme digestions: Trypsin, Chymotrypsin, | Perelman School of Medicine |
| | | Thermolysin, Glu C; SPE Sample Cleanup; nanoUPLC/Orbitraps: Pro, Elite, QE, Fusion; Mass Spectrometry Data | Pereiman school of Medicine |
| 13 Qu | uantiative Proteomics Resource Core | Analysis/Database Search | |
| | | | Perelman School of Medicine |
| 14 Re: | esearch Instrumentation Shop | electronics/optics and repairs of simple lab equipment | |
| | | Professional HTS screening services to identify genes or organic small molecule modulators of signaling pathways, | Perelman School of Medicine |
| | | cellular phenotypes, and protein function in models of human disease; educates and assists scientists with HTS assay | |
| | | development, optimization, miniaturization, and validation; maintains libraries of siRNA, shRNA, cDNA, and FDA approved/FDA-like organic small molecule libraries for HTS; provides robotics infrastructure and technically trained | |
| 15 Hig | gh-Throughput Screening Core | staff for HTS, including small screens of user defined libraries | |
| | 5 5 . | | Perelman School of Medicine |
| 16 Cli | inical Research Computing Unit | Comprehensive research operation services – project management, data management and research technology | |
| | | Our mission is to streamline procedures that facilitate investigators' use of the CRISPR/Cas9 genome editing | Perelman School of Medicine |
| 17 CR | RISPR Cas9 Mouse Targeting Core | technology for the rapid and economic generation of novel mouse genetic tools. Produces infection-free transgenic founder, chimeric and genome-edited strains of mice carrying transgenes or gene | Perelman School of Medicine |
| | | "knockouts" of specific interest to Penn researchers; services including DNA pronuclear injection into fertilized | r ereiman school of Wedicine |
| | | oocytes (& genotyping of transgenic founders), ES cell injection into blastocysts, cytoplasmic RNA injection (for | |
| | | CRISPR technology), embryo/sperm cryopreservation, in vitro fertilization, re-derivations of live and cryopreserved | |
| 18 Tra | ansgenic and Chimeric Mouse Facility | lines; oversees cyropreservation facility for long-term storage of mouse embryos & sperm samples | |
| | | A University service center, established in 1973 to provide a full range of cell culture media and molecular biology | Perelman School of Medicine |
| 19 Cel | ell Center Stockroom | reagents needed by investigators to perform cell culture techniques in their own laboratories | Dorolman Cabasil of Admiliar |
| 20 Ste | em Cell and Xenograft Core | Comprehensive resource laboratory that integrates a viable tissue bank of normal human hematopoietic cells and hematopoietic malignancies with a full range of xenograft services | Perelman School of Medicine |
| | | The Biostatistics Analysis Center (BAC) is a University of Pennsylvania service center offered by the Perelman School | Perelman School of Medicine |
| | | of Medicine's Center for Clinical Epidemiology and Biostatistics. The BAC is staffed by professionally trained | |
| | | biostatisticians, biostatistical programmers and data managers, and provides a wide range of biostatistical and | |
| 1 | ostatistics and Analysis Center | epidemiological consulting services to the University's biomedical research community and externally. | |
| 21 Bic | | ID | Perelman School of Medicine |
| 21 Bio | | Provides Radioimmunoassays and ELISAs as high-volume/cost-effective service; assay over 50 different diabetes and | |
| 21 Bic | | endocrinology-related markers using absorbance/fluorescence technology; offer multiple analyte (multiplex) services | |
| 21 Bio | | endocrinology-related markers using absorbance/fluorescence technology; offer multiple analyte (multiplex) services using the established Luminex multiplex ELISA services (in conjunction with CTSA); uses cell-sorting technology to | |
| | enn Diabetes Center RIA Biomarker Core | endocrinology-related markers using absorbance/fluorescence technology; offer multiple analyte (multiplex) services | |
| | enn Diabetes Center RIA Biomarker Core | endocrinology-related markers using absorbance/fluorescence technology; offer multiple analyte (multiplex) services using the established Luminex multiplex ELISA services (in conjunction with CTSA); uses cell-sorting technology to measure multiple proteins simultaneously (plastic or magnetic beads); multiplex platform allows screening of human | Perelman School of Medicine |
| 21 Per | ecruitment, Outcomes and Assessment | endocrinology-related markers using absorbance/fluorescence technology; offer multiple analyte (multiplex) services using the established Luminex multiplex ELISA services (in conjunction with CTSA); uses cell-sorting technology to measure multiple proteins simultaneously (plastic or magnetic beads); multiplex platform allows screening of human cohorts in disease research (particularly small volume in repeated sampling protocols) Available to meet the needs of investigators participating in cancer-related studies; offers assistance with recruiting subjects, including the development of recruitment plans, materials, and media campaigns, as well as with study | Perelman School of Medicine |
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| Table | Core Facility/Service | Services Offered | Affiliation |
|-------|--|--|---|
| | Johnson Foundation Biophysical and Structural | The Department of Biochemistry and Biophysics at Penn has a wide range of unique equipment and expertise to facilitate modern biophysical characterization and structural analysis of proteins and other biomolecules. These facilities, funded in large part through the generosity of the Johnson Foundation, are available for use by the research | Perelman School of Medicine |
| B25 | Biology Core Facilities | community at Penn. Provides consultation as well as whole body and tissue metabolic analyses: glucose and lipid homeostatic parameters: clamps, tolerance tests, secretion and uptake; energy homeostasis: indirect calorimetry | Perelman School of Medicine |
| B25 | Mouse Phenotyping, Physiology, and Metabolism Core | during normal behavior, cold exposure and exercise, in vivo metabolic flux: stable isotope infusions coupled with MS, and body composition: NMR and DEXA. New assay design and validation Provides oversight in the responsible use/application of Magnetic Resonance in research through leadership, | Perelman School of Medicine |
| | | education, and guidance: the development of new research/collaborations which can translate into advanced clinical techniques; training in safe/efficient use and dissemination of current, accurate and evolving MR Technology; scheduling upgrades of MR Systems/facilities; scheduling systems operations and personnel within MR department; | . S. Sandar Striver of Medicine |
| | Center for Advanced MRI & Spectroscopy | receiving and acting on recommendations pertaining to the administration of CAMRIS Facilities. | Developer Colored of Mandieler |
| | Center for Advanced Computed Tomography Imaging Services (CACTIS) | Oversees proposed research protocols involving human, animal, phantom or specimen studies; ensures all research performed on the CT scanners comply with CACTIS and University policy and Federal Regulations | Perelman School of Medicine Perelman School of Medicine |
| B27 | Human Immunology Core | Provides immune assays, cellular products and immunological expertise for clinical trials and immunology research; specimens and reagents to facilitate basic and translational research Provides multi-modality radiological imaging and image analysis for cells, tissues, and small animals, primarily mice | Perelman School of Medicine |
| B28 | Small Animal Imaging Facility | and rats School-wide computing infrastructure (network, server, storage, and desktop support), web/database design, | Perelman School of Medicine |
| B29 | Penn Medicine Academic Computing Services (PMACS) | application development, sponsored project/program development and support; access to/management of enterprise-grade applications (LIMS, HPC, CTMS,DMS) in support of research, educational and administration missions across Penn Medicine. | |
| B29 | Penn Medicine Data Analytics Center (DAC) | The Data Analytics Center is an enterprise wide group centered on Decision Support, Data Access, Data Visualization and Data Warehousing & Big Data. Our team is responsible for guiding researchers, clinicians, analysts, and many others through the challenges of requirements gathering and decision making and on to the realized end-product. | Perelman School of Medicine |
| | | Outdoor Tent | |
| Table | Core Facility/Service | Services Offered | Affiliation |
| T1 | Healthcare Analytics Core | The Healthcare Analytics Unit (HAU) Core is a service unit of two centers at CHOP: The Center for Pediatric Clinical Effectiveness and PolicyLab. The core serves as a resource for investigators who want to use administrative or other existing data to answer research questions. HAU is staffed by PhD and Masters-level research statisticians and statistical scientists who pull, clean, manage, and analyze complex data. The HAU also has expertise in geographic information systems and geospatial analyses. Some of the data sources for which HAU provides expertise include: PHIS, HCUPS databases, Medicaid, NAMCS, NHDS, Premier Perspective and OPTUM. | Children's Hospital of Philadelphia |
| T2 | Bioanalytical Core Lab | The Bioanalytical Core serves as a central component of the Center for Clinical Pharmacology and specializes in developing and validating robust liquid chromatography/ tandem mass spectrometry (LC-MS/MS) methods for the analysis of natural products, drugs, and metabolites in various biological samples (blood, dried blood spot, urine) | Children's Hospital of Philadelphia |
| | CIRP - Center for Injury Research and Prevention Driving Simulator | The Driving Simulator Core provides the technical and administrative support for conducting simulator-based observational studies to monitor and analyze driving behaviors and performance in our high fidelity, fixed-base simulator with a rich, customizable auditory/visual environment as well as integrated advanced, lightweight eyetracking capabilities. | Children's Hospital of Philadelphia |
| | Tumor Tissue and Biospecimen Bank (TTAB) | Provides investigators the resources and organizational capabilities to maximize the potential of using tissue and other biospecimens for basic and translational research; works to define data driven standards for tissue and biospecimen banking practices at Penn | Perelman School of Medicine |
| | Penn Medicine BioBank | The Penn Medicine BioBank (PMBB) coordinates the ethical collection, storage, annotation, and distribution of tissue and peripheral blood samples. Access to cohorts of properly preserved and well-characterized tissue and blood samples accompanied by high quality data is available to Penn researchers with IRB-approval and meeting PMBB governance review. | Perelman School of Medicine |
| | Singh Center for Nanotechnology | The Singh Center for Nanotechnology is a nanotechnology and microfluidics research center that opens its doors to all of academia and industry. The Singh Center currently houses over 90+ pieces of instrumentation for the fabrication, characterization and measurement of nanomaterials and devices. Currently one third of the Center's User Base comes from the Life Sciences, with multiple pieces of equipment specifically related to nanobiotechnology. | University of Pennsylvania |
| | Office of Clinical Research (OCR) | The Office of Clinical Research (OCR) is a central office in the Perelman School of Medicine (PSOM) designed to support the management and conduct of clinical research while promoting compliance. This is accomplished through standardizing the approach to clinical research across the various research centers and departments in the Perelman School of Medicine, and supporting investigative teams through regulatory and operational assistance, and enhancements in study management and oversight. | Perelman School of Medicine |
| | | The Translational Core Laboratory (TCL) at CHOP provides a variety of services ranging from laboratory testing to specimen special processing. We support investigators at both CHOP and UPENN for patient-orientated research as well as preclinical studies. Lab testing services include immunoassays, biochemical assays, clinical chemistry, | Children's Hospital of Philadelphia |
| | TCL - Translational Core Lab Protein and Proteomics Core | DNA/RNA extraction and gene analysis, cell culture, and hematology (CBC) analysis. The Protein and Proteomics Core Facility provides access to state-of-the-art mass spectrometry-based proteomics technologies. These include: quantitative whole proteome, phosphoproteome, and ubiquitylome analysis; targeted multiplexed quantification of proteins and peptides in complex matrices; intact mass and post-translational modification of specific proteins; and discovery of protein-protein interacting partners. We also provide expert assistance for protein purification and characterization. | Children's Hospital of Philadelphia |
| T10 | BDMC - Biostatistics and Data Management | The Biostatistics and Data Management Core (BDMC) supports the biostatistical and data management needs of the investigators at CHOP from virtually all subspecialties of pediatric medicine. The BDMC supports studies ranging from narrowly defined basic science projects to large multi-site clinical trials. The BDMC is supported by Westat, a large health research organization with extensive biostatistics, information technology, and data management resources. | Children's Hospital of Philadelphia |
| T11 | Pathology Core | Pathology Core unites several main components: Histopathology, Tissue Microarray, Laser Capture Microdissection, and Whole Slide Imaging. The core offers a full range of histopathology services, including tissue processing, embedding and cutting for both paraffin and frozen tissue. The core also performs most standard stains as well as immunohistochemistry, antibody workup, and fluorescence. The core can also help with basic imaging and whole slide scanning and analysis. | Children's Hospital of Philadelphia |
| | NeuronsRUs - CNS Cell Culture Core | NeuronsRUs produces high quality cell cultures of mouse or rat neocortex or hippocampus in a variety of formats at very low prices. We also supply cells for those who choose to make their own cultures. Special dissections are available. We can also advise about tailoring the cultures for specific experiments. | Perelman School of Medicine |
| | Cooperative Human Tissue Network (CHTN) | The CHTN is a prospective human tissue procurement service assisting investigators with collection, processing and preservation of research samples. Our staff will personalize sample acquisition and processing to meet project requirements. Samples (malignant, normal, diseased, etc.) and biofluids can be preserved in a range of methods (fresh, frozen, fixed, etc.) | Perelman School of Medicine |
| | | Research support offerings at the STEM Libraries include: 3D and poster printing, systematic reviews, research consultations for your clinical and basic science projects, NIH open access troubleshooting, support in using NCBI databases, copyright guidance, and evaluating research impact at the institution, individual researcher, journal, and article levels. Visit: http://guides.library.upenn.edu/hlthsci-research-resources for more information. | University of Pennsylvania |

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|------------------------------------|--|--|--|
| T16 | The Raymond G. Perelman Center for Cellular and Molecular Therapeutics Human Pluripotent Stem Cell Core | The Human Pluripotent Stem Cell (HPSC) Core provides expertise and quality-control reagents for the culture, differentiation, and genome editing of embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs) to the CHOP and University of Pennsylvania academic communities. | Children's Hospital of Philadelphia |
| T17 | CHPS - Center for Human Phenomic Science (CHOP) | The Center for Human Phenomic Science (CHPS) provides the resources, environment, operations, and training to support and promote the highest quality clinical and translational research by qualified investigators. These include outpatient services for research activities, a scatterbed nursing program, and a range of other research services and expertise. The CHPS is a major component of the Clinical and Translational Science Award - providing child and adult research programs and services at The Children's Hospital of Philadelphia and the University of Pennsylvania Health System. | Children's Hospital of Philadelphia |
| T18 | CHPS - Center for Human Phenomic Science (Penn) | The Center for Human Phenomic Science is located on 4 PCAM and Presby, providing the staffing and service cores to do almost any outpatient research procedure from blood draws, echocardiograms, vascular monitoring, pK/pD, exercise and diet studies. Visit us at: http://www.med.upenn.edu/chps/ | Perelman School of Medicine |
| T19 | Cell Culture and iPS Core (CCIP) | Our mission is to provide support in the design and implementation of experiments involving the use of human iPSCs, human embryonic stem cells (hESCs) and primary and established mouse and human cells of the gastrointestinal system. Our services include derivation of patient-specific iPSCs, genome engineering of existing stem cell lines using CRISPR/Cas9 technology, and lineage specific differentiation of iPSCs/hESCs including hepatocytes, cardiomyocytes and endothelial cells. | Perelman School of Medicine |
| T20 | Molecular Pathology and Imaging Core (MPIC) | The Molecular Pathology and Imaging Core provides histological services and microscope usage to its members. The histological services include parrafin and frozen sectioning, standard histological stains, and access to reagents for immunohistochemistry (IHC) and immunoflorescent (IF) stain. | Perelman School of Medicine |
| T21 | Host-Microbial Analytic and Reporsitory Core (H-MARC) | The mission of H-MARC is to provide services for the analysis of both host and microbial biological processes as well as facilitate translation into the clinical arena via human subject research. | Perelman School of Medicine |
| T22 T23 | The Wistar Institute | The faculty and senior scientific staff of The Wistar Institute have assembled state-of-the-art technologies into Shared Resources to function as engines of discovery for biomedical research initiatives. It is our privilege and responsibility to share these resources, when possible, with the greater research community. Wistar Shared Resources, also known as core facilities, are available to Wistar investigators, affiliates, and outside researchers. Visit the individual core websites (wistar.org/resources) or browse our online brochure below to explore the opportunities Wistar provides for your research. | Wistar Institute |
| T24 | Microbiome (CHOP) | The CHOP Microbiome Center is comprised of a Sequencing Core and an Analytical Core. Together we support all aspects of microbiome sequencing projects including study planning and design, sample processing, DNA purification, library preparation, high-throughput sequencing, and bioinformatic and statistical analysis | Children's Hospital of Philadelphia |
| T25 | Microbiome (PENN) | The goals of the Microbiome Program are to understand the human microbiome and alter its properties to improve health. | Perelman School of Medicine |
| | CyTOF Service Center, Penn Institute for | The CyTOF2 is a new generation mass cytometer. The system uses heavy metal labeled antibodies instead of fluorescent—labeled antibodies, which allows multi-parametric single cell analysis for more than 40 channels with minimal background and compensation problems. IFI offers a wide variety of CyTOF-related services including | Perelman School of Medicine |
| | Immunology | consultation, antibody-conjugation, and data acquisition. | Vendor |
| T26 | | | |
| T26 T27 T28 | VWR iLab | Vendor Vendor | Vendor |
| T27 | VWR | Vendor | |
| T27 T28 | VWR iLab | | |
| T27 | VWR iLab Core Facility/Service | Vendor ARC Lobby Services Offered The Research Institute's Shipping Core is available for shipment of hazardous substances for all Research Institute | Vendor |
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