

Central Resources and Services

SHARED RESOURCES AVAILABLE TO ALL INSTITUTES AND CENTERS						
Research Resource	Location	Participants	Governance	Contact	Research Services	Review
Bioengineering (Lab of Bioengineering and Physical Sciences)	Building 13	Lead IC: NIBIB	NIBIB	Richard Leapman, Scientific Director http://www.nibib.nih.gov/Research/intramural/LBPS	Drug delivery, molecular interactions, image analysis, instrumentation development, supramolecular structure, nanoscale immunodiagnostics	SRS, ICs, Coordination Committee
Center for Information Technology (CIT) Division of Computational Bioscience	Building 12 complex	All ICs	CIT	Benes Trus, Acting Director http://www.cit.nih.gov/science.html	Image processing, bioinformatics, computational methods and algorithms, computer engineering, bioscience, molecular modeling, mathematical and statistical computing	Review: SRS, ICs
Center for Human Immunology (CHI)	CRC		Steering Committee	Neal Young, Director http://www1.od.nih.gov/oir/sourcerebook/ir-communicatns/chi.htm	Translational research in immunity, autoimmunity, and inflammation	SRS, SDs
Clinical Research Center	Building 10	Access to the Clinical Center is available to all ICs	ABCR, Director NIH	John Gallin, Director http://www.cc.nih.gov/	Research hospital that accommodates 234 inpatients and outpatients and provides comprehensive services and facilities in support of clinical research sponsored by the ICs	Review: Joint Commission on Accreditation of Healthcare Organizations (JCAHO), BSC, CAP,
Division of Medical Arts	Building 10, B2 level	All ICs	ORS	Lem Canady, Chief http://medarts.nih.gov/	Medical illustration, photomicroscopy, photomacroscopy, scientific posters	
Division of Library Services	Building 10	All ICs	ORS	Suzanne Grefsheim, Director http://nihlibrary.nih.gov	Full-service library, including electronic journals, electronic document desktop delivery and translations	Review: Users committee, ICs
Division of Scientific Equipment and Instrumentation Services	Building 13	All ICs	ORS	Johnny Robbins, Chief http://seib.od.nih.gov	Maintain scientific equipment and computers; design and fabricate custom instruments; lease and sell scientific and medical equipment	Review: SRS, ICs
Division of Veterinary Resources (DVR)	Building 14–28 complex, Bethesda; Poolesville	All ICs	Office of Research Services (ORS).	Charmaine Foltz, Acting Director http://dvnet.ors.od.nih.gov/	Veterinary services (surgery, radiology, pharmacy, nutrition, animal behavior and enrichment); animal husbandry, procurement, quarantine, and health surveillance; diagnostics (pathology, bacteriology, parasitology, serology)	Review: Shared Resources Subcommittee (SRS), ICs

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MULTI-INSTITUTE SHARED SERVICES AND RESOURCES						
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Biotechnology Unit (pilot plant)	Building 6, Room B1-33	Lead IC: NIDDK; Major client: NICHD		Joseph Shiloach, Director http://www.niddk.nih.gov/intram/people/jshiloac.htm	Production and purification of biological material, especially scale-up protein production and purification	Review: BSC, ICs
Bone Marrow Stromal Cell Transplantation Center	Building 10	Steering Committee: CC, NIDCR, NIAID, NIAMS, NIBIB, NCI, NINDS	Oversight Committee: NINDS, NAID, NCI, NIDCR	Harvey Klein (CC) Pamela Robey (NIDCR)	Production facility for bone marrow stromal (mesenchymal) stem cells for clinical research	
Center for Inherited Disease Research	Bayview Research Campus, Baltimore	Lead contracting IC: NHGRI; all ICs may participate	Review: CIDR Board of Governors	David Valle, Johns Hopkins University PI; Access Committee: http://www.cidr.jhmi.edu ; Review: CIDR Access Committee (Camilla Day, NHGRI)	Genotyping, DNA banking, statistical genetics consultation, mouse genotyping.	
Facility for Biotechnology Resources (FBR): CBER Biotechnology Core Facility	Building 29, Rooms 200-208	Participants: NHGRI, NIDCD, NHLBI, NIDDK, NICHD, NEI, NIAMS, NIDCR, CC, NCI - fee-for-service	CBER	Lead: Nga Y. Nguyen; http://128.231.52.66/default.htm	Services include: amino acid sequence analysis; DNA sequencing; oligonucleotide synthesis; peptide synthesis; mass spectrometry services; analytical and preparative HPLC services; capillary electrophoresis	Associate Director for Research, CBER
Genomics Core	Building 8	Lead IC: NIDDK; available on fee-for-service basis to other ICs		Michael Krause, George Poy http://www2.niddk.nih.gov/NIDDKLabs/GENOMICS/GCLHome.htm	Expression arrays, Illumina sequencer	NIDDK SD
Imaging Probe Development Center(IPDC)	9800 Medical Center Dr., Building B, Room 3042	Lead IC: NHLBI	Roadmap Initiative	Garry Griffiths, Director http://nihroadmap.nih.gov/molecularlibraries/ipdc/contact.asp	Production of new imaging probes for the intramural NIH research community	
Integrative Neural Immune Program	Multiple locations	NIMH, NINDS, NCI, NIAID, NIAMS, NIA		Esther Sternberg, Director http://intramural.nimh.nih.gov/nip/	Lecture series, conferences, workshops, retreat; training that bridges neuroscience and immunology; cyberlab to oversee virtual cores	
Mass Spectroscopy	Building 8A, Room B2A19-21; Building 10	Lead ICs: NIDDK, NHLBI, NIMH, NIAID, NINDS	Advisory Group	http://intramural.niddk.nih.gov/research/labbranch.asp?OrgID=572	QTOF-LCMS; high-resolution magnetic sector; MALDI, LC-ion trap	Review: BSC, ICs

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Microarray Services	1. Multiple sites			NHGRI, NCI, NIA	Chips prepared by special arrangement. Review: ICs	
Microarray Services	2. Building 12A			CIT (Peter Munson, John Powell), with contributions from NINDS, CC, NHLBI, NIAID, NCI	Analysis, database storage and retrieval, bioinformatics services for microarray data. Review: ICs	
Mouse Imaging Facility	Building 10, In Vivo NMR Center	Lead ICs: NINDS, NHLBI Participants All ICs but NIEHS are paid charter members	Steering Committee	Alan Koretsky, Director http://intranet.nmrf.nih.gov/	Mouse radiologic imaging (from fall 2001); 7T rodent MRI, microCT, high-frequency ultrasound, laser Doppler	SRS, ICs, steering committee
NIH Magnetic Resonance Imaging Facility	Building 10, In Vivo NMR Center	Lead IC: NINDS; all ICs except NIEHS	Steering Committee	Alan Koretsky, Director http://intranet.nmrf.nih.gov/	Human and animal MRI; other IC MRI instruments available	Review: SRS, ICs, steering committee
NIH Chemical Genomics Center (NCGC)	9500 Medical Center Drive, Rockville, MD	Lead IC: NHGRI		Chris Austin, Director; www.ncgc.nih.gov	Ultrahigh-throughput screening center of the Molecular Libraries Screening Center Network that generates chemical probes to understand molecular and cellular functions and serve as starting points for drug development, particularly for rare and orphan diseases	
NIH Intramural Sequencing Center (NISC)	5625 Fishers Lane, 5th Floor, Rockville MD	Participants: NHGRI, NCBI, NIDCD, NIAAA, NIDA, NHLBI, NIDDK, NICHD, NEI, NIAMS, NINDS, NIDCR, NIEHS, NIMH	Users Committee	Eric Green, Director www.nisc.nih.gov	Production-scale DNA sequencing, assimilation and analysis of sequence data; instrumentation; sequence analysis software	
Pet Imaging	Building 10, Room 1C401	Lead IC: CC	Steering Committee	Peter Herscovitch, Director http://www.cc.nih.gov/pet/index.html	State-of-the-art facility with three medical cyclotrons and ten hot cells to produce positron-labeled radiopharmaceuticals as well as four PET scanners	
Protein Expression Lab	Building 6B, Room 1B130	Lead IC: NIAMS; Participants: NHGRI, NCBI, NIDCD, NIAAA, NIDA, NHLBI, NIDDK, NICHD, NEI, NIAMS, NINDS, NIDCR, NIEHS, NIMH; any IC may request service		Paul Wingfield, Chief http://www.niams.nih.gov/Research/Ongoing_Research/Branch_Lab/Protein_Expression/default.asp	Expression, purification, and structural characterization of HIV and HIV-related proteins via a variety of techniques; protein EXE software; supply HIV-1 protease	Review: IATAP, ICs

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Stem Cell Unit	Building 35, Room 3A201	Lead IC: NINDS	Steering Committee	Ron McKay, Director http://stemcells.nih.gov/research/nihresearch/scunit/	Facility uses a standardized paradigm to conduct side-by-side comparisons of the available cell lines on the NIH Human Embryonic Stem Cell Registry, and shares the results with the scientific community.	
Structural Biology NMR	Buildings 5, 6A, and 50	All ICs	Steering Committee	Lead ICs: NIDDK, Ad Bax; NHLBI, Nico Tjandra	Study of macromolecular structure and interaction: 500, 600 and 800 MHz cryoprobe NMR spectrometers; 900 MHz spectrometer to be installed late 2008	Review: ICs
<u>Synchrotrons:</u>						
1. Advanced photon source	Argonne National Lab	DOE		http://www.aps.anl.gov	High-brilliance X-ray beams	
2. National synchrotron light source	Brookhaven National Lab	Lead IC: NCI; Major Users: NIDDK, NIEHS, NIAID, NHLBI		http://www.nsls.bnl.gov/	Intense focused beamlines throughout the spectrum	