

News, Opportunities and Deadlines for September 2023

LBRN - Requesting Proposals for Research Projects

Applications Are Open!



The application period for Research Funding Proposals (RFPs) is now open through **December 8, 2023**. Submit your proposal here: <https://lbrn.infoready4.com/>

Information sessions will be available via Zoom on **Thursday, October 12 and Friday, October 20 at 4:00pm**. Please register to join this RFP information [zoom meeting](#) session [here](#).

Registration



About

The LBRN receives funds from NIH/NIGMS to fund biomedical research throughout the state.

Please note that starting this year, **all Louisiana Primarily Undergraduate Institutions are eligible for funding** in the following areas:

- **Computational & Structural Biology**

This area includes development of new computational approaches to solving significant biomedical questions, biological modeling, bioinformatics, or investigations of molecular structure.

- **Molecular Mechanism of Disease**

This area includes investigations focused on understanding the molecular mechanisms of significant human diseases, including, but not restricted to cancer, metabolic disorders, and infectious diseases.

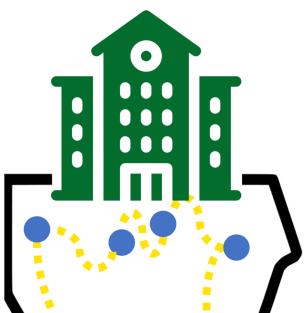
- **Preventive Medicine**

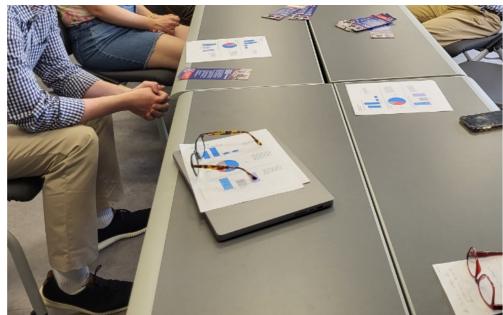
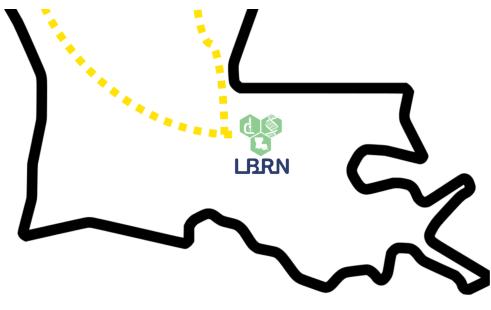
This area includes basic research important in the prevention of major human diseases.

Research topics might include work such as the development vaccines, tissue engineering, drugs or new diagnostic tests.

Additional information on funding can be found on the application page. You can also email Program Coordinator Brent Stanfield at bstanf5@lsu.edu with questions.

LBRN Northern Louisiana Campuses Visits





A team of LBRN administrators visited our northern Louisiana campus. It started at Louisiana State University in Shreveport and headed east to Grambling State University, Louisiana Tech University and finally the University of Louisiana at Monroe. To make this happen, we listened to many voices from each campus, shared many stories for cooperation, and shared more opinions. We sincerely appreciate the hospitality on each campus. Now we are planning to visit the southern Louisiana campuses.

LBRN at the Southeast Regional IDeA Conference



September 15-17, the South Carolina INBRE hosted the 2023 Southeast Regional IDeA conference. Recipients of NIH/NIGMS IDeA funding came together in beautiful Columbia, SC to engage in meaningful conversations and celebrate innovative science that results from the IDeA program. Congratulations and thank you to our LBRN members who participated. We would like to specially recognize those who shared their voices on the "Engaging Diverse Perspectives" session, moderated by LBRN PD/PI Dr. Kousoulas. A special talk was given by LBRN EAC member and Southern University graduate, Dr. Rafael Luna. The panel included: Dr. Thomas

Huckaba (Xavier), Dr. Keith McGee (Alcorn), Dr. Ezio Fasoli (University of Puerto Rico), Dr. Patrick Mensah (Southern BR), and Dr. Connie Walton (Grambling).

National Institute of General Medical Sciences (NIGMS) News



NIGMS Job Vacancies

- Scientific Review Officers

We're seeking highly qualified scientists to serve as scientific review officers in the Scientific Review Branch (SRB) of our [Division of Extramural Activities](#). The selected candidates will be responsible for conducting the initial administrative and scientific merit review of grant applications for research programs and/or research training and career development grants.

- Biophysics Program Directors

We're recruiting accomplished scientists for program officer positions in the [Division of Biophysics, Biomedical Technology, and Computational Biosciences \(BBCB\)](#). The selected candidates will be responsible for scientific and administrative management of a portfolio of research grants, and will stimulate, plan, advise, direct, and evaluate program activities related to their field of expertise.

- Division of Genetics and Molecular, Cellular, and Developmental Biology Program Directors

We're seeking two highly qualified scientists to serve as program directors in the Genetic Mechanisms and Developmental and Cellular Processes Branches of our [Division of Genetics and Molecular, Cellular, and Developmental Biology \(GMCDB\)](#).

NIGMS Notes

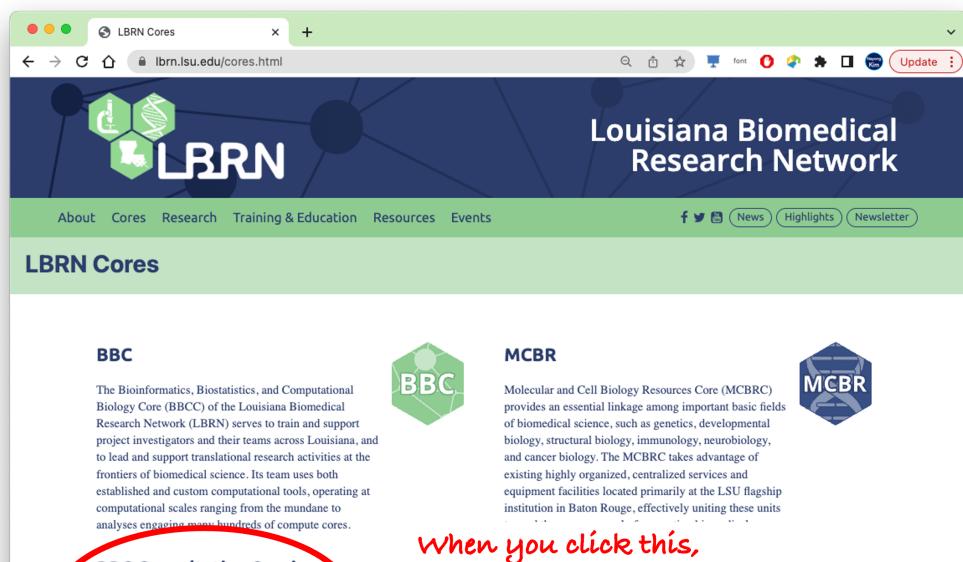
- Request for Information: Inviting Comments and Suggestions on Opportunities and Challenges for the Collection, Use, and Sharing of Real-World Data Including Electronic Health Records, for NIH-Supported Biomedical and Behavioral Research ([NOT-OD-23-180](#))
- Ruth L. Kirschstein National Research Service Awards:

- Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31-Diversity) ([PA-23-271](#))
- Individual Postdoctoral Fellowship (Parent F32) ([PA-23-262](#))
- Individual Fellowship for Students at Institutions Without NIH-Funded Institutional Predoctoral Dual-Degree Training Programs (Parent F30) ([PA-23-261](#))
- Notice of NIGMS Participation in the NIH-NSF Ecology and Evolution of Infectious Diseases Program ([NOT-TW-23-007](#))
- Notice of NIGMS Participation in PAR-23-219 "SBIR/STTR Commercialization Readiness Pilot Program Technical Assistance and Late-Stage Development (SB1, Clinical Trial Not Allowed)" ([NOT-GM-23-051](#))
- Notice of Special Interest: Research Supplements to Promote Re-Entry, Re-integration Into, and Re-Training in Health-Related Research Careers (Admin Supp - Clinical Trial Not Allowed) ([NOT-OD-23-170](#))
- [Judith H. Greenberg Early Career Investigator Lecture](#) on September 27, 1:00 to 2:00 p.m. ET

Bioinformatic consultation service through iLAB

Bioinformatic consultation service through iLAB was recently added to the LBRN webpage. Please read it and if you need help or need more information, please contact Dr. Emmanuelle M. Ruiz (ruiz10@lsu.edu).

It is currently located at LBRN Cores (<https://lbrn.lsu.edu/cores.html>), please refer to the following.



The screenshot shows the LBRN Cores webpage. At the top, there's a navigation bar with links for About, Cores, Research, Training & Education, Resources, and Events. Below the navigation is a header for the "Louisiana Biomedical Research Network". The main content area features two prominent cores:

- BBC (Bioinformatics, Biostatistics, and Computational Biology Core):** A green hexagonal icon with the letters "BBC" is shown next to a brief description of the core's mission to train and support project investigators across Louisiana, using both established and custom computational tools for complex analyses.
- MCBRC (Molecular and Cell Biology Resources Core):** A blue hexagonal icon with the letters "MCBRC" is shown next to a description of the core's role in providing essential linkage among fields of biomedical science, including genetics, developmental biology, structural biology, immunology, neurobiology, and cancer biology.

A red curved arrow points from the BBC section towards the MCBRC section, with the handwritten text "When you click this," written below the arrow.

BBC Consultation Services

Bioinformatic
Consultation Service
through iLAB

BBC Personnel

Personnel Page Section

MCBR Personnel

Personnel Page Section

you can see/download PDF file

With CLOUD our researchers have full access to state-of-the-art equipment and modern research techniques and services.

The Albany Conversations at Louisiana Tech University

Please join the Next Gen. Conversations.

Albany at Tech

Tuesday June 11 to Saturday June 25, 2024

Louisiana Tech University

After a very successful 40 year series of Conversations at SUNY Albany,
the Next Gen. Conversations will be held at Louisiana Tech

If you would like to organize a session or just attend please fill out the
google interest form: <https://forms.gle/xoDFN9qhBRKYoEXC7>

Additional information is at <https://coes.latech.edu/albany-conversations/>



Weekly Update from DRCB / NIGMS

Updates from DRCB/NIGMS

Issue 150, 09/18/2023

NIH Funding Opportunity and/or Policy Announcements

- COBRE Phase 3 NOFO ([PAR-23-216](#)). Applications Due: September 26.
- IDeA Clinical & Translational Research Network (CTR-N) Award ([PAR-23-241](#)) & IDeA Clinical & Translational Research Development (CTR-D) Award ([PAR-23-257](#)). Applications Due: November 9. See ***Pre-application webinar*** info below.

Upcoming Events

- NIGMS Informational Webinar for [Biomedical Technology Optimization and Dissemination Center](#), September 27, 4:00-5:30 pm ET. See more information [here](#).

Reports/News/Program Messages

- NIGMS is recruiting a Tribal Health Research Strategy Coordinator. See [here](#) for more details.
- Animal Welfare Noncompliance: Data and Process. See more information [here](#).
- Understanding What Program Officials Can and Can't Do for You. See more information [here](#).
- **[ScHARe Think-a-Thons](#)** are monthly webinars for researchers and students to increase participation of underrepresented populations in data science and cloud computing. See schedule [here](#).
- Save the date: NISBRE biennial conference June 16-20, 2024.
- Save the date: SuRE biennial conference July 23-24, 2024.

Issue 148, 09/05/2023

NIH Funding Opportunity and/or Policy Announcements

- COBRE Phase 3 NOFO ([PAR-23-216](#)). Applications Due: September 26.
- Administrative Supplements to IDeA awards: Women's Health Research ([NOT-GM-22-005](#)). Applications Due: October 17.
- IDeA Clinical & Translational Research Network (CTR-N) Award ([PAR-23-241](#)) & IDeA Clinical & Translational Research Development (CTR-D) Award ([PAR-23-257](#)). Applications Due: November 9. See ***Pre-application webinar*** info below.
- Request for Information (RFI): Inviting Comments and Suggestions on Updating the NIH Mission Statement ([NOT-OD-23-163](#)). Responses Due: November 24.
- Single Budget Line Item Requirement for Data Management and Sharing Costs Rescinded ([NOT-OD-23-161](#)). [See more information](#).

Upcoming Events

- [NIGMS Advisory Council Meeting](#) on Thursday, September 7 (watch the open session live or later on [videocast](#)).
- Pre-application webinar for [CTR-N](#) and [CTR-D](#), Friday, September 8, 2:00-4:00 p.m. ET. [Zoom link](#).
- Informational Webinar on the Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC, K99/R00 and UE5), September 12, 1:00-3:00pm ET. See more information [here](#). [Zoom link](#).
- NIGMS Informational Webinar for [Biomedical Technology Optimization and Dissemination Center](#), September 27, 4:00-5:30 pm ET. See more information [here](#).
- Mark your calendars for NISBRE 2024, June 16-20, 2024, Washington Hilton, Washington, D.C. More Information to follow.

Reports/News/Program Messages

- [ScHARe Think-a-Thons](#) are monthly webinars for researchers and students to increase participation of underrepresented populations in data science and cloud computing. See schedule [here](#).
- Wanted: NIGMS Tribal Health Research Strategy Coordinator. See [more information](#).
- [Michele McGuirl](#) has been selected as the Acting Division Director of DRCB. [Fed Bernal](#) will become Acting Chief of the Research Advancement Programs Branch.
- Job Opportunity at DRCB! A Program Director to manage [NARCH](#) and [IDeA](#) programs at DRCB, NIGMS. Individuals with a strong background in clinical, translational, or behavioral research and expertise in Tribal affairs and culture are strongly encouraged to apply. See more information [here](#).
- [Webinar recording and supporting materials](#) are available on *Animal Research: Reporting of In Vivo Experiments (ARRIVE)*. See [more information](#).
- Extramural Nexus: [Tool Tip: Age Data Table for Inclusion Enrollment Reports](#).
- Extramural Nexus: [Addressing Rigor in Scientific Studies](#).

Issue 147, 08/28/2023

NIH Funding Opportunity and/or Policy Announcements

- Single Budget Line Item Requirement for Data Management and Sharing Costs Rescinded ([NOT-OD-23-161](#)). [See more information](#).
- Administrative Supplements to IDeA awards: Women's Health Research ([NOT-GM-22-005](#)). Applications Due: October 17.
- Research Opportunity Announcements for the HEAL Initiative: Native Collective Research Effort to Enhance Wellness ([N CREW](#)): Addressing Overdose, Substance Use, Mental Health, and Pain Program ([NOT-DA-23-030](#)). Applications Due: November 1.
- Request for Information (RFI): Inviting Comments and Suggestions on Updating the NIH Mission Statement ([NOT-OD-23-163](#)). Responses Due: November 24.

Upcoming Events

- [SuRE Resource Center](#):
 - Vertebrate Animal Research, August 28, 1:00-2:00 pm ET. [Register here](#).
- Informational Webinar on the Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC, K99/R00 and UE5), September 12, 1:00-3:00pm ET. See more information [here](#). [Zoom link](#).
- NIGMS Informational Webinar for [Biomedical Technology Optimization and Dissemination Center](#), September 27, 4:00-5:30 pm ET. See more information [here](#).
- Mark your calendars for NISBRE 2024, June 16-20, 2024, Washington Hilton, Washington, D.C. More Information to follow.

Reports/News/Program Messages

- [Michele McGuirl](#) has been selected as the Acting Division Director of DRCB. [Fed Bernal](#) will become Acting Chief of the Research Advancement Programs Branch.
- Job Opportunity at DRCB! A Program Director to manage [NARCH](#) and [IDeA](#) programs at DRCB, NIGMS. Individuals with a strong background in clinical, translational, or behavioral research and expertise in Tribal affairs and culture are strongly encouraged to apply. See more information [here](#).
- OHRP free online human subjects research training program in 5 lessons with completion certificates for NIH-funded human subjects research, investigators, and key personnel. [Link](#).
- [Webinar recording and supporting materials](#) are available on *Animal Research: Reporting of In Vivo Experiments (ARRIVE)*. See [more information](#).
- Extramural Nexus: [Tool Tip: Age Data Table for Inclusion Enrollment Reports](#).
- Extramural Nexus: [Addressing Rigor in Scientific Studies](#).

NIH Extramural Nexus

- **The FY 2024 Loan Repayment Program Cycle is Here: New Features and Expanded Program**

Applications for Fiscal Year (FY) 2024 NIH Loan Repayment Program (LRP) awards will open on September 1, 2023. LRP awards can repay up to \$100,000 of qualified educational debt for those who are eligible and agree to perform NIH mission-relevant research. The deadline to submit an application is November 16, 2023.

The LRP awards help recruit and retain highly qualified health professionals to careers in biomedical or behavioral research. Several different [extramural LRP categories](#) are available, so review each to see which may be the right fit for your research. Please also take a couple minutes to watch [this video](#).

[prior video](#) where Matthew Lockhart, M.B.A. Director of the OER Division of Loan Repayment (DLR) discusses [eligibility criteria](#) and the [program categories](#).

Similar to when we [expanded the Health Disparities Research LRP](#) for the FY 2020 LRP program cycle, we are doing the same for the [Clinical Research LRP for Individuals from Disadvantaged Backgrounds](#). The recently published [funding opportunity](#) explains who qualifies as an individual from a disadvantaged background and [this post](#) shares some other related information.

The process of applying for and managing an LRP award is also now simpler and more cybersafe. Along with moving the [application](#) to ASSIST to prepare and submit applications electronically a couple years ago, we also recently launched two new portals that can be accessed through eRA Commons. The enhanced cybersecurity features afforded by eRA means their financial and other personal information is more safe and secure.

- The LRP Participant Portal allows awardees to see their student loans as well as payment and verification history.
- [Research supervisors](#) can use their portal to verify an LRP awardee's research service by answering a series of questions about LRP recipients under their supervision, including their research service hours and ensuring they are fulfilling other necessary requirements.

We hope all eligible candidates consider applying for the FY 2024 LRP cycle. Be sure to review each [Institute or Center Mission and Research Priorities](#) first, and consider discussing the process and your ideas with appropriate [scientific LRP liaisons at NIH](#). Research and funding priorities can change on a yearly basis, so it is essential that applicants contact a liaison – ideally in advance of the opening of the application cycle – to ensure an appropriate understanding of each NIH Institute and Center research priorities. DLR is also available to answer any questions you may have [by phone, or email](#), Monday through Friday, 9.a.m. to 5 p.m. ET.

- **Inviting Comments and Suggestions on Updating the NIH Mission Statement**

NIH has issued a [Request for Information \(RFI\)](#) inviting feedback on a proposed update to the NIH mission statement, in response to recommendations from the Advisory Committee to the Director (ACD) Working Group on Diversity, [Subgroup on Individuals with Disabilities](#). NIH leadership committed to evaluate the mission statement, particularly reviewing the inclusion of the phrase “reduce [...] disability”, and to update it to better reflect the current and future vision for the agency.

This RFI invites input from interest groups throughout the scientific research, advocacy, and clinical practice communities, those employed by NIH or at institutions receiving NIH support, and the public, on a proposed revised mission statement that reflects the NIH mission as accurately as possible.

[Submit your thoughts](#) on the proposed revised mission statement by November 24, 2023. Read the full [guide notice](#) for more details.

- **NIH Webinar: Join NIH Policy Experts for a Guided Tour of Subaward Agreements – Sections, Requirements, & Key Policies**

Whether you are a principal investigator considering a subaward arrangement with either a domestic or foreign institution, or a research administrator eager to deepen your understanding of the prerequisites and regulations governing compliant subaward agreements, mark your calendar for October 17 and virtually accompany us as we provide invaluable insights during an engaging [event](#).

NIH Subaward Requirements: Domestic and Foreign

- **Date:** October 17, 2023
- **Time:** 1:00 – 2:00 PM (Eastern Time Zone)

Join experts from the NIH Office of Policy for Extramural Research Administration (OPERA) as they guide you through the various sections of a subaward agreement, offering detailed guidance and highlighting key policies. This is your opportunity to gain insights and seek clarification during the live Q&A.

[Register now](#) for this free event and embark on your path toward collaborative success! We encourage you to share this link with anyone you believe would benefit from this invaluable event.

- **Understanding What Program Officials Can and Can't Do for You**

NIH Program Officials (POs) are responsible for the programmatic, scientific, and technical aspects of NIH programs and are a key resource for prospective applicants and recipients.

Although POs are scientists and may have previous experience seeking funding and performing research, their current focus is on the stewardship of federal funds in alignment with NIH's mission and administrative and public policies. As federal employees, they must adhere to specific rules to promote public trust and impartiality.

Having a clear understanding of what POs can and can't do for you will help you make the most of your interactions.

While identifying opportunities, POs can recommend programs that may be of interest, discuss institute or center priorities, help determine if your proposal is a good fit for a specific opportunity and clarify opportunity requirements, but ...

- Can't share information not in the public domain
- Can't discuss plans for new or potential reissue of funding opportunities not yet released
- Can't provide insights into program beyond what is included in the posted opportunity

While preparing your application, POs can pose general, thought-provoking questions, but ...

- Can't propose specific edits to any part of the application
- Can't provide specific advice on experimental design

Regarding application referral, POs can help you determine if your proposal is a good fit within the mission of their institute or center, but ...

- Can't direct your application to a specific study section

Regarding application review, POs can observe review meetings and later help clarify points made in the summary statement, but ...

- Can't discuss review prior to release of summary statement
- Can't provide review meeting insights beyond points included in the summary statement

Regarding funding decisions, POs make programmatic judgements for applications and grants, but ...

- Can't advocate for a specific application's funding
- Don't make final funding decisions

POs are a tremendous resource and can help you in many ways. Just keep in mind that their role as federal administrators and stewards limits what they can and can't help with.

- **On-Demand Training: Standardize Your Research with the NIH Common Data Element Repository**

The popular class [Standardize Your Research with the NIH Common Data Element Repository](#), presented by the National Library of Medicine, is now available in an on-demand format. Through recorded demonstrations and hands-on exercises, this course will introduce you to common data elements (CDEs) and the [NIH Common Data Element Repository \(CDE-R\)](#). The course begins with an in-depth introduction to what CDEs are and examples of how researchers are already using them. Then, you'll see how to search the repository and practice searching on your own.

Consider taking this course if you:

- Want to standardize the data you collect so it can be easily shared with and reused by colleagues and other researchers
- Have been awarded a grant that requires the use of CDEs
- Have heard that CDEs can be part of a compliant data management and sharing plan
- Assist researchers with the research data management lifecycle

Register and immediately access the course

here: <https://www.ncbi.nlm.nih.gov/training/class/standardize-your-research-data-nih-common-data-element-repository-demand>

If you do not already have an account with the Network of the National Library of Medicine, a free account is required to register and access the course.

LONI HPC Allocation for LBRN



To support the LBRN / BBC Core community on LONI HPC systems, we have renewed our high-performance computing allocation for 2022 / 2023.

This can be utilized in lieu of individual investigators having to apply for and acquire their own allocations to access the HPC resources. If any of your campus members need access to high

performance computing, please have them interface with [Dr. Nayong Kim](#).

LBRN "Core Bucks"



The BBC Core and MCBR Core offer researchers the opportunity to earn “Core Bucks” to support faculty and students upto \$1500. Requests for Core Bucks from Member Institutions must be initiated through the respective Core Contact on campus.



- The Bioinformatics, Biostatistics, and Computational Biology Core (BBC Core)

The BBC Core serves to train and support project investigators and their teams across Louisiana. It works to enable Louisiana Biomedical Research Network project PIs and their teams to employ Louisiana cyberinfrastructure (especially high performance computing), and to provide bioinformatics services, training, and educational support.

The core provides bioinformatics training, conducts workshops, and provides bioinformatics analysis services. The core also provides access to the IBM Delta Cluster and has a dedicated BBC allocation for the high performance computing resources at LSU. The BBC Core maintains software licenses and access to Ingenuity Pathway Analysis (IPA), Partek Flow, DNASTAR, and Ion Torrent analysis software. In addition, several open source tools for bioinformatics such as bowtie, tophat, cufflinks, samtools, GATK, QIIME, DADA2, Phyloseq, etc. are installed and maintained.

Some examples of standard bioinformatics workflows that can be supported through core bucks requests:

- Gene Pathway Analysis
- RNA-Sequencing Processing and Analysis
- 16S rRNA Microbial Community Analysis
- ITS2 Fungal Community Analysis

Other workflows can be developed or adapted from existing software on an as needed basis.

For more information, see: <https://lbrn.lsu.edu/cores.html#corebucks>



- The Molecular and Cell Biology Resources Core (MCBR Core)

MCBR Core Services include both one-on-one training for faculty and students as well as workshops on topics like bioinformatics and protein purification.

Sample services:

1. Molecular Biology Reagent Equipment and Services

- GeneLab provides conventional and next generation nucleic acid sequencing (NGS), and recombinant DNA Service. NGS equipment includes Torrent PGM, Ion Proton etc
- NGS Services provides a reliable connection between NGS experiments and the analysis of NGS data

2. Protein Production, Purification and Characterization Laboratory

- Protein Purification and Characterization includes semi automated Bio-rad profinia affinity chromatography system, AKTA Explorer FPLC system, and HPLC and ultracentrifugation equipment

- Peptide Synthesis and purification
- Protein-protein interactions are investigated using primarily Surface Plasmon Resonance (SPR) implemented on Biacore and ForteBio SPR equipment. Additional physicochemical characterization of protein-protein interactions is available through collaborations with the LSU Department of Chemistry.
- Gene-to-Protein-to-Antibody Services – you provide the gene, we return an antibody

3. Molecular Immunopathology Laboratory Services

- Pathology Services including necropsy procedures, gross and histopathological examinations and interpretation of immunohistochemistry and special stains performed by veterinarians and histology specialists
- Flow Cytometry and immunophenotyping Services
- Multiplex/Luminex complements immunophenotyping services for rapid and standardized analysis of soluble factors e.g., lymphokines, using bead based array technology.
- Microscopy – contains transmission and scanning electron microscopes, a laser dissection microscope, a Leica TCS SP2 for 3D fluorescence microscope, and a high-throughput digital slide-scanner.

For more information, see: <https://lbrn.lsu.edu/cores.html#corebucks>

NIH LBRN Acknowledgement

So that we can most effectively communicate the scope and results of our funding support, we would like to know when you are planning news announcements about IDeA awards or program activities and achievements...

When you produce such material, please be sure to identify the IDeA program, not just the INBRE, COBRE or sub-program, and to provide context about the program's goals along the lines of:

The University of _____ has received \$XXX from the National Institutes of Health (NIH) to support an Institutional Development Award (IDeA) Center of Biomedical Research Excellence. The IDeA program builds research capacities in states that historically have had low levels of NIH funding by supporting basic, clinical and translational research; faculty development; and infrastructure improvements.

In journal articles, news releases, or other materials about your program's activities or achievements, please use funding acknowledgement language such as:

Research reported in this {publication, release} was supported by an Institutional Development Award (IDeA) from the National Institute of General Medical Sciences of the National Institutes of Health under grant number 5 P20 GM103424-21.

- In journal articles, oral or poster presentations, news releases, news and feature articles, interviews with reporters and other communications, acknowledge the IDeA program's full or partial support of the research. The citation in scientific publications should use the following format:

Research reported in this publication was supported by an Institutional Development Award (IDeA) from the National Institute of General Medical Sciences of the National Institutes of Health under grant number P20GM103424-21.

- If you wish to acknowledge NIH/NIGMS funding on your Web site or other communication product, you may use wording such as:

Funded by an Institutional Development Award (IDeA) from the National Institutes of Health.

or

Funded by the LBRN (2P20GM103424-21) an Institutional Development Award (IDeA) from the National Institute of General Medical Sciences of the National Institutes of Health.

Please do not use the NIH or NIGMS logo to acknowledge funding, as these logos are only to be used for material produced by NIH and its components.



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