

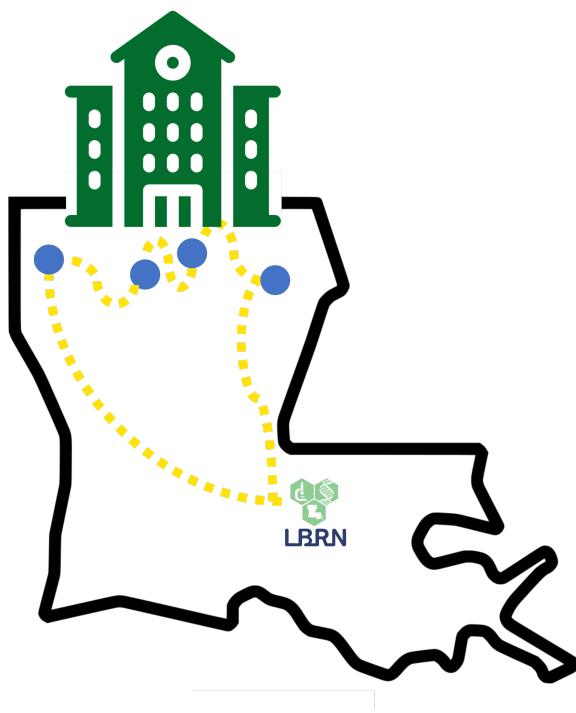
News, Opportunities and Deadlines for August 2023

LBRN Summer Research 2023 SURF

Congratulations to our 2023 Summer Research Program undergraduates, who presented their posters after 10 weeks of research and hands-on lab experience at LSU! Special thanks to [LSU School of Veterinary Medicine](#), [LSU Department of Biological Sciences](#), and [LSU Department of Chemistry](#) for hosting LBRN students this summer.



LBRN North Louisiana Campuses Visits



The LBRN Administrator's visit is scheduled for September 11 at 9:00 AM starting at LSU-S and moving east to Grambling (11:00 AM), then LA-Tech (1:00 PM), and finally to ULM (3:00 PM). Due to a very complicated schedule, we will inevitably only stay for about an hour at each campus. If LBRN steering committee members on each campus are unable to attend this visit, please arrange for another faculty member to attend accordingly.

IDeA Southeast Regional Conference 2023

Event Name: IDeA Southeast Regional Conference 2023

Where: Columbia, South Carolina

When: September 15-17, 2023

Register: https://secure.touchnet.net/C21544_ustores/web/product_detail.jsp?PRODUCTID=5940



Financial support may be available for LBRN PUI students or faculties to attend conferences if deemed necessary (conference presentation, paper submission). Please contact the Program Administrator, Danielle Stanfield, for more information.

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 page. On the left, there's a section for 'BBC Consultation Services' which includes a button labeled 'BBC Biostatistic Consultation Service through iLAB'. A red circle highlights this button, and a red arrow points from it to the text 'When you click this, you can see/download PDF file'.

LBRN Achievements

Collaborative Research Achievements

We are pleased to acknowledge the impactful collaboration provided by **Dr. Brent Stanfield**, LBRN grant coordinator and also a preclinical faculty at the LSU College of Veterinary Medicine. Dr. Brent Stanfield's recent publication in Cancers describes an Artificial Intelligence-driven approach to drug response prediction in cancer.



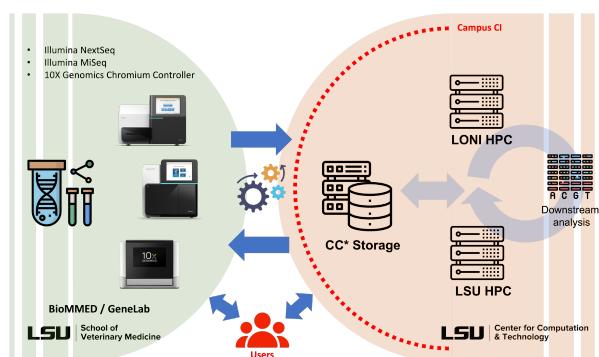
National Science Foundation (NSF) Awards

Dr Nayong Kim, LBRN admin core and BBC core Associate Director, participated as a Co-PI and recently awarded a grant from the NATIONAL SCIENCE FOUNDATION.

The project title is *CC* Data Storage: Tiger Den: A Sustainable, Campus-Wide Data System Supporting CI-Supported Research and Education*.

The project will run for two years from next month, with the LBRN Summer Scientific Computing Boot Camp and a proposal to support these systems, such as data generated by GeneLab and BIOMMED.

The following is a schematic description of the NGS sequencing data analysis based on experiments on campus and collaboration through high-performance computing used in the proposal.



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/xoDFN9ghBRKYoEXC7>

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



Weekly Update from DRCB / NIGMS

Updates from DRCB/NIGMS

Issue 145, 08/14/2023

NIH Funding Opportunity and/or Policy Announcements

- Research Opportunity Announcements for the HEAL Initiative: Native Collective Research Effort to Enhance Wellness ([NCREW](#)): Addressing Overdose, Substance Use, Mental Health, and Pain Program ([NOT-DA-23-030](#)). Applications Due: November 1.

Upcoming Events

- [SuRE Resource Center](#):
 - NIH Peer Review Process, August 15, 3:00-4:00 pm ET. [Register here](#).
 - Vertebrate Animal Research, August 28, 1:00-2:00 pm ET. [Register here](#).
- NHLBI Biostatistics Workshop on Clinical Trial Designs (hybrid), September 18-19. See more information [here](#), and [register](#).
- Mark your calendars for NISBRE 2024, June 16-20, 2024, Washington Hilton, Washington, D.C. More Information to follow.

Reports/News/Program Messages

- 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](#).

Issue 144, 08/07/2023

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Upcoming Events

- NHLBI Biostatistics Workshop on Clinical Trial Designs (hybrid), September 18-19. See more information [here](#), and [register](#).

Reports/News/Program Messages

- [Slides \[PDF\]](#) and [recording](#) of the STARTUP Central I-Red Program Seminar are available on the [I-RED website](#).

Issue 143, 07/31/2023

NIH Funding Opportunity and/or Policy Announcements

- COBRE Phase 3 NOFO ([PAR-23-216](#)). Applications Due: September 26.
- Change to the Composition of the Advisory Committee in [COBRE Phase 2 NOFO \(NOT-GM-23-047\)](#).
- Parent SBIR ([PA-23-230](#), [PA-23-231](#)) and STTR ([PA-23-232](#), [PA-23-233](#)) NOFOs. Applications Due: September 5.

Upcoming Events

- Pre-application Webinar for COBRE Phase 3, **TODAY**, 2:30-4:00 pm ET. [Zoom link](#). See more information [here](#).
- Pre-Submission Webinar for [Interactive Digital Media \(IDM\) Biomedical Science Resources](#), August 2, 3:00-4:30 pm ET. [Zoom link](#).
- NHLBI Biostatistics Workshop on Clinical Trial Designs (hybrid), September 18-19. See more information [here](#), and [register](#).

Reports/News/Program Messages

- [Slides \[PDF\]](#) and [recording](#) of the STARTUP Central I-Red Program Seminar are available on the [I-RED website](#).
- Strengthening Integrity and Fairness in Peer Review Through New Required Trainings. See information [here](#).
- NIH All About Grants Podcast: Clinical Trials Reporting Requirements – Our Shared Commitment. See information [here](#).
 - What Researchers and Recipients Should Know About ClinicalTrials.gov, [link](#).
 - Basic Experimental Studies with Humans (BESH), [link](#).
- The Modernized ClinicalTrials.gov Website Is Here. See information [here](#).

NIH Extramural Nexus

• Addressing Rigor in Scientific Studies

Science communication is rapidly evolving. The [growing use of preprints](#) and the sheer number of published studies make it increasingly difficult to determine which findings are worthy of attention. Not all scientific studies are created equal. Communicators need to discern which are reputable in order to know what to convey to their target audience. Inaccurate or untrustworthy information can have dire consequences, so it is important to understand how to assess whether studies have robust findings and how to communicate this to audiences.

Science communicators need to describe the major conclusions from a study, along with its implications for future research and public health practice, without overstating the results. Science is a continual process of updating knowledge that is conditional on how the results were obtained; it is not a series of discovered “facts.” All scientific conclusions are subject to interpretation, and all have some degree of uncertainty. Responsible science communicators will report important details of a study: the number of subjects, species involved, techniques used, major outcomes, and caveats. But, even this level of reporting does not provide enough information to know how much to trust the results.

As [NIH has been emphasizing](#) for [more than a decade](#), the [rigor and transparency](#) of a study are key for gleanng the robustness of its results. This includes the design, implementation, analysis, and interpretation of experiments. If a study's validity isn't known, the rest is moot.

How does one know if a study is rigorous? And how can this be communicated to broad audiences? A single person can't keep up with all of the limitations of every scientific approach, and even savvy readers of original research articles need to beware of [mistaking “spin” for reasonable conclusions](#) within a given study. Fortunately, there are some generally agreed-upon [principles of rigorous research](#) that apply across fields and methods.

Transparent publications follow established guidelines to ensure that important research practices are reported. These include the [CONSORT statement](#) for clinical trials, [ARRIVE guidelines](#) for animal studies, and [PRISMA statement](#) for systematic reviews. It is difficult to assess the rigor and robustness of studies that do not fully follow these guidelines. Yet, [many papers do not report important practices](#).

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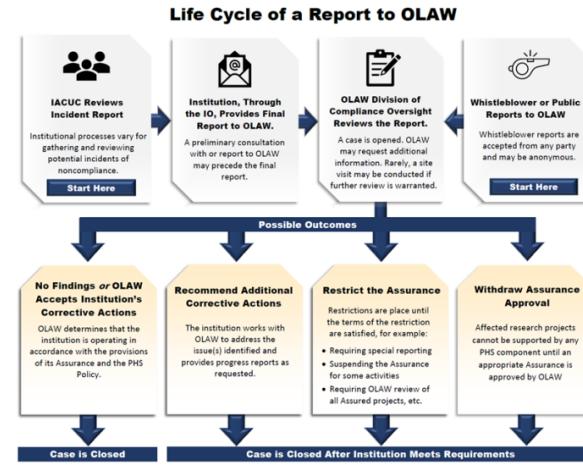
• Animal Welfare Noncompliance: Data and Process

As part of proper stewardship of taxpayer funds, we at NIH are obligated, both legally and ethically, to ensure the welfare and reduce risks for those involved in our supported research activities. This obligation includes research animals. Their humane care and use is something we take very seriously. We appreciate that Congress, the research community, interest groups, and other members of the public look towards us to observe this commitment. Today we are taking some time to touch upon our policies to protect animal welfare, discuss how we process reports of noncompliance, and provide resources to help recipients and researchers ensure their work involving animals is conducted appropriately.

Institutions that receive funds from the Public Health Service (PHS), which includes NIH, must conduct research involving live vertebrate animals in accordance with the [PHS Policy on the Humane Care and Use of Laboratory Animals](#) (PHS Policy). The PHS Policy requires all institutions to comply, as applicable, with the [Animal Welfare Act](#) and other Federal statutes and regulations relating to animals. Our [Animals in NIH Research](#) page discusses [relevant policies](#) in more detail and has other resources which may be of interest.

Proper animal welfare means, among other things, appropriate environments, husbandry, veterinary care, and minimization of pain and distress. Proper animal welfare also [strengthens the rigor, reproducibility, and translatability](#) of research findings (see also [this recent webinar on the ARRIVE guidelines](#)).

Figure 1. NIH Process for Handling Reports of Potential Noncompliance with the PHS Policy



[... continue to read](#)

• Meet Sheila Garrity, the New Director of the HHS Office of Research Integrity

Sheila Garrity, JD, MPH, MBA, [began as](#) director of the [HHS Office of Research Integrity \(ORI\)](#) in March. As our offices work closely together to address research misconduct in NIH-funded biomedical research, we recently took some time to sit down and chat to get to know her better and welcome her to this new role.

Ms. Garrity has many outstanding credentials, with over 30 years supporting research integrity efforts within academia and professional societies. She previously led research integrity and responsible conduct of research efforts at Johns Hopkins University, George Washington University, and the [Association for Research Integrity Officers](#) (where she was a founding member and first president). When discussing her philosophy, she says, "Research integrity, we cannot just put it into a little box; we have to put it into our daily lives." I agree.

"We have a responsibility, institutions, those that do what we do, to train the next generation of researchers...People know to do the right thing. You look at fabrication, falsification, and plagiarism. You're basically telling people don't lie, don't cheat, don't steal."

Sheila Garrity

• You're Invited: Town Hall on Federal Demonstration Partnership NIH Data Management and Sharing Pilot

NIH is collaborating with the Federal Demonstration Partnership ([FDP](#)) on a [Data Management and Sharing \(DMS\) pilot](#). As part of Phase 1 of the pilot, which tested standardized DMS Plan templates including new web-based [DMPTool](#) templates to support generation of compliant plans, applicants and participating recipient institutions are invited to participate in a [Town Hall](#) between the FDP and the NIH staff on July 17, 2023. Please join us and provide your feedback on the DMS plan templates currently being tested.

Town Halls will be [recorded](#), and the recordings will be posted for those not able to join us live. Additional Town Hall times may be added after September 2023. We hope to see you there!

• Single Budget Line Item Requirement for Data Management and Sharing Costs Rescinded

Currently, grant applicants submitting detailed budgets must request costs to support Data Management and Sharing (DMS) Plan activities as a single line item on the R&R Budget Form titled "Data Management and Sharing Costs." **This requirement will be rescinded for due dates on or after October 5, 2023 (NOT-OD-23-161).**

For applications with due dates on or after October 5, 2023, DMS costs must be included with other costs in the appropriate cost categories (e.g., personnel, equipment, supplies, other expenses), following standard form instructions. For example, personnel costs associated with data management and sharing activities, must be entered in section A. Senior/Key person or section B. Other Personnel. Supporting details, including a breakdown of any personnel effort, and the estimated associated total direct costs must be included in the budget justification.

The application form instructions on the [How to Apply – Application Guide](#) page and the [Budget/Costs FAQs](#) on the [Scientific Data Sharing](#) site have been updated to reflect this change.



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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