

## News, Opportunities and Deadlines for April 2023

### LBRN Summer Research Program

**May 22 - July 28, 2023**

After a competitive application period, we are happy to announce that we have selected awardees for the 2023 LBRN Summer Research Program. Funding for this program from the NIH and the Louisiana Board of Regents will provide 18 undergraduates, 6 graduate students, and 3 faculty members from across Louisiana with the opportunity to conduct collaborative, hands-on research that will enrich and expand their scientific experience. This year, our SRP is represented by nine of Louisiana's PUIs: Southeastern, Xavier, University of Louisiana Monroe, McNeese, Grambling, Southern BR, Louisiana Tech, Southern New Orleans, and LSU Shreveport. After three years of modified programming due to the pandemic, we are thrilled to welcome students back in-person to our flagship institutions this summer. Congratulations to our awardees! Please be on the lookout for email communications from our Program Administrator, Danielle Stanfield.

### LBRN Summer Research Program for Undergraduate and Graduate students May 22—July 28, 2023



**Danielle Stanfield - Program Administrator - will be point-of-contact for participants this summer, so please feel free to reach out via :**

**Phone:** 225-578-9545  
**Email:** [dstanfield@lsu.edu](mailto:dstanfield@lsu.edu)  
**Web:** [LBRN.lsu.edu](http://LBRN.lsu.edu)



**Louisiana Biomedical Research Network**

## Upcoming LBRN Data & Protein Science Bootcamps



## LBRN Data & Protein Science Bootcamps

**DSBBBC Bootcamp**  
Data Science, Bioinformatic, Biocomputation and Biostatistics Core

High performance computing resources  
Bioinformatics analyses  
Data science

**Save the Date!**  
**July 31 ~ Aug 5, 2023**

Gene cloning  
Protein expression  
Purification  
Characterization

**MCBC Bootcamp**  
Molecular and Cellular Biology Core

### TBD Summer 2023

This summer, the LBRN will host boot camps organized by the Data Science, Bioinformatic, Biocomputation and Biostatistics Core (**DSBBBC**) and the Molecular and Cellular Biology Core (**MCBC**). These two boot camps will be offered back-to-back so that students and faculty can maximize their training. The DSBBBC bootcamp will focus on Data Science (high performance computing resources and bioinformatics analyses) and the MCBC bootcamp will focus on gene cloning, protein expression, purification, and characterization. The tentative dates for this are **July 31-August 5**. All expenses (travel, housing, tuition, per diem for meals, etc.) will be covered for LBRN campuses. Be on the lookout for more details and registration information in our next newsletter!

## AIM-AHEAD release a new call for proposal

Artificial Intelligence/Machine Learning Consortium  
to Advance Health Equity and Researcher Diversity

## **1. Consortium Development Projects to Advance Health Equity program**

AIM-AHEAD anticipates releasing a new call for proposals opportunity in April 2023.

The Consortium Development Projects to Advance Health Equity program seeks to fund multi-disciplinary research projects that use or develop novel AI/ML algorithms to address health disparities and inequities in alignment with the AIM-AHEAD North Stars in populations that experience health disparities in the US. Applications for this solicitation will use new or existing real-world data or synthetic data, such as electronic health records (EHR), image data, social determinants of health (SDOH), and other types of data to develop and enhance existing AI/ML algorithms that have the potential to detect and mitigate bias and reduce health disparities while improving healthcare and health outcomes. This CFP Announcement invites applications from a broad range of institutions and organizations including non-traditional industry and non-profit organizations. NIH is particularly interested in applications led by institutions and organizations that have a core mission to serve under-represented or underserved groups impacted by health disparities.

More information about this anticipated call for proposals is forthcoming.

AIM-AHEAD will update the website (<https://www.aim-ahead.net>) as the solicitations are closer to release.

### **Mark Your Calendar (Tentative Dates)**

Solicitation release: April 2023

Application Deadline: June 2023

Funding Decisions: August 2023

Award Start Date: Sept 2023

## **2. Data and Infrastructure Capacity Building (DICB)**

AIM-AHEAD anticipates releasing a call for proposals on Data and Infrastructure Capacity Building (DICB) in April 2023. This opportunity seeks to increase data and infrastructure capacity at minority serving institutions in Artificial Intelligence and Machine Learning (AI/ML) models and develop institutional capabilities of this emerging technology in addressing health disparities and inequities, and develop a trained workforce in these technologies. Through this program, we intend to bring new partners to the AIM-AHEAD Coordinating Center that will support and supplement the activities of the Data and Research Core and the Infrastructure Core. In year 2 of the program, we anticipate adding 1-2 partners for the Data and Research Core, and Infrastructure Core.

More information about this anticipated call for proposals is forthcoming.

AIM-AHEAD will update the website (<https://www.aim-ahead.net>) as the solicitations are closer to release.

### **Mark Your Calendar (Tentative Dates)**

Solicitation release: April 2023

Application Deadline: June 2023

Funding Decisions: August 2023

Award Start Date: Sept 2023

### **3. Program for Artificial Intelligence Readiness (PAIR)**

AIM-AHEAD anticipates releasing a call for proposals on the Program for Artificial Intelligence Readiness (PAIR) in April 2023. This solicitation seeks to fund minority serving institutions with low resources to build AI/ML research capacity to advance health equity and researcher diversity. Through a two-phase funding model, PAIR will support such institutions with AIM-AHEAD resources, AI/ML experts, and grant-writing coaches to help establish AI Health Equity Research Labs that host cross-disciplinary teams to jumpstart research projects, bond with AIM-AHEAD resources, and provide the framework for the sustainability of AI research and education within these institutions.

More information about this anticipated call for proposals is forthcoming.

AIM-AHEAD will update the website (<https://www.aim-ahead.net>) as the solicitations are closer to release.

#### **Mark Your Calendar (Tentative Dates)**

Solicitation release: April 2023

Application Deadline: June 2023

Funding Decisions: August 2023

Award Start Date: Sept 2023

### **4. Hub-Specific Pilot Projects**

AIM-AHEAD anticipates releasing a call for Hub-Specific Pilot Projects in April 2023 to cultivate new stakeholders in their regions to conduct small-scale, community-engaged research studies that align with the overall goal of AIM-AHEAD. Each hub will solicit pilot grant applications that: 1) provide new stakeholders with support to address critical issues related to their unique culture and context; 2) allow direct interaction between key stakeholder organizations, AIM-AHEAD hubs, and AIM-AHEAD technical cores; 3) provide stakeholders from underrepresented communities with capacity building opportunities; and 4) enhance local stakeholder understanding of and facility with AI/ML methods. AIM-AHEAD hubs will solicit high-quality applications that can be completed within one year through a request or call for proposal process. Hubs will conduct an internal review of applications for completeness, adherence to guidelines, and potential to advance the field of AI/ML in healthcare. Finally, these pilot projects must be aligned with the AIM-AHEAD North Stars.

More information about this anticipated call for proposals is forthcoming.

AIM-AHEAD will update the website (<https://www.aim-ahead.net>) as the solicitations are closer to release.

#### **Mark Your Calendar (Tentative Dates)**

Solicitation release: April 2023  
Application Deadline: June 2023  
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## 2023 Mid-South Biophysics Symposium

Initiated in 2008, the Mid-South Biophysics Symposium began as an annual meeting for biophysics researchers in Mississippi. Since then, it has grown to include enthusiastic researchers from states all over the south, including Alabama, Arkansas, Louisiana, Tennessee, and Texas. The aim is to build collaborations and partnerships throughout the mid-south and provide networking and speaking experiences to the trainees. This year's one-day event will be held on May 22, 2023 at The University of Mississippi in Oxford, Mississippi. There will also be a welcome dinner the night before for all attendees who can make it.

Where: University of Mississippi, Oxford, MS

When: Monday, May 22, 2023

Website and Abstract Portal: <http://biophysics23.com>

Abstract Priority Deadline: April 21, 2023



# 2023 Mid-South Biophysics Symposium

*A Biophysical Society Networking Event*



**Where:** University of Mississippi, Oxford, MS

**When:** Monday, May 22, 2023

**Website and Abstract Portal:** <http://biophysics23.com>

**Abstract Priority Deadline:** April 21, 2023

**Platform Talks | Trainee Poster Session | Networking**

## **Keynote Speaker**

**Marija Zanic, Ph.D., Vanderbilt University**

Associate Professor of Cell and Developmental Biology  
Associate Professor of Chemical and Biomolecular Engineering  
Associate Professor of Biochemistry



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**Funding Opportunity from NSF**



National  
Science  
Foundation

**Building Research Capacity of New Faculty in Biology (BRC-BIO)**

Supports pre-tenure faculty in the biological sciences at institutions that traditionally do not receive significant NSF funding in this field, including minority-serving institutions, predominantly undergraduate institutions and R2 institutions.

## **Synopsis**

With a focus on enhancing research capacity and broadening participation of new faculty of biology at minority-serving institutions (MSIs), predominantly undergraduate institutions (PUIs), and other universities and colleges that are not among the nation's most research-intensive institutions, the Directorate for Biological Sciences (BIO) offers the Building Research Capacity of New Faculty in Biology (BRC-BIO) program. The BRC-BIO program aims to a) broaden participation by expanding the types of institutions that submit proposals to BIO, and b) expand opportunities to groups underrepresented in the biological sciences, including Blacks and African Americans, Hispanics, Latinos, Native Americans, Alaska Natives, Native Hawaiians and other Pacific Islanders, and persons with disabilities, especially those serving at under-resourced institutions. Awards will provide the means for new faculty to initiate and build independent research programs by enhancing their research capacity. These projects might also include biology-focused research collaborations among faculty within the same institution, across peer-, or research-intensive institutions, or partnerships with industry or other non-academic partners that advance the candidate's research program. By providing this funding opportunity, BIO recognizes the national urgency to broaden, strengthen, and diversify the science, technology, engineering, and mathematics (STEM) workforce. In particular, these awards will build capacity for research at institutions that have a primary focus on teaching and undergraduate education, or that have limited capacity for research. Projects should enable the establishment of sustainable research programs for faculty and also enrich undergraduate research experiences and thereby grow the STEM workforce. BRC-BIO welcomes proposals from principal investigators who share NSF's commitment to diversity, equity, and inclusion.

Proposals in response to this solicitation must be submitted to the Division of Biological Infrastructure (DBI) in the Directorate for Biological Sciences (BIO).

## **Program contacts**

BRC-BIO Working Group; [BRC-BIO@nsf.gov](mailto:BRC-BIO@nsf.gov)

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**Weekly Update from DRCB / NIGMS**

## **Updates from DRCB/NIGMS**

**Issue 128, 04/17/2023**

**NIH Funding Opportunity and/or Policy Announcements**

- Change to Institutional Eligibility Criteria for COBRE Phase 1 applications ([NOT-GM-23-040](#)). See the [NIGMS Feedback Loop Post](#) for details.
- Science Education Partnership Award (SEPA) ([PAR-23-137](#)). Applications Due: July 14.

## Upcoming Events

- SuRE Resource Center:
  - Budget & Justification Development Webinar, **TODAY**, April 17, 3:00-4:30 PM EST. [Register Here](#).
  - NIH Pre-Award Process, Thursday, April 27, 3:00-4:30 PM EST. [Register Here](#)
- [Business Fundamentals for Core Facility Administrators](#) course series:
  - **Session 4**—Guidance in Managing Biomedical Core Facilities: Financial Management, Monday, May 15, 2:00-3:30pm ET. [Register Here](#).
  - **Session 5**—Guidance in Managing Biomedical Core Facilities: Value Assessment And Contributions To The Academic Mission, Monday, June 12, 2:00-3:30pm ET. [Register Here](#).

Slides and recordings of previous sessions are available on the [website](#).
- Workshop on Innovative Approaches to Improve Maternal Health, May 8-9, 9:00am-6:00pm ET. [More Info](#) and [Register Here](#).

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## Issue 127, 04/10/2023

### NIH Funding Opportunity and/or Policy Announcements

- Change to Institutional Eligibility Criteria for COBRE Phase 1 applications ([NOT-GM-23-040](#)). See the [NIGMS Feedback Loop Post](#) for details.
- Science Education Partnership Award (SEPA) ([PAR-23-137](#)). Applications Due: July 14.
- Instrumentation Grant Program for Resource-Limited Institutions ([PAR-23-138](#)). Applications Due: July 3.

## Upcoming Events

- [Business Fundamentals for Core Facility Administrators](#) course series:
  - **Session 3**—Guidance in Managing Biomedical Core Facilities: Enhance Data Management and Service Core Use, **TODAY**, Monday, April 10, 2:00-3:30pm ET. [Register Here](#).
  - **Session 4**—Guidance in Managing Biomedical Core Facilities: Financial Management, Monday, May 15, 2:00-3:30pm ET. [Register Here](#).
  - **Session 5**—Guidance in Managing Biomedical Core Facilities: Value Assessment And Contributions To The Academic Mission, Monday, June 12, 2:00-3:30pm ET. [Register Here](#).

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## Issue 126, 04/03/2023

### NIH Funding Opportunity and/or Policy Announcements

- Change to Institutional Eligibility Criteria for COBRE Phase 1 applications ([NOT-GM-23-040](#)).
- Science Education Partnership Award (SEPA) ([PAR-23-137](#)). Applications Due: July 14.
- Instrumentation Grant Program for Resource-Limited Institutions ([PAR-23-138](#)). Applications Due: July 3.
- Supplements to IDeA Awards to Fund Team Science Development Projects ([NOT-GM-23-034](#)). Applications Due: June 01. Open to all IDeA awardees. See Pre-application Webinar info below.
- Supplements to Advance the Use of Electronic Health Records for Research ([NOT-GM-23-035](#)). Applications Due: May 15. Open to CTR awardees. See Pre-application Webinar info below.

### Upcoming Events

- SuRE Resource Center:
    - Budget & Justification Development Webinar, Monday, April 17, 3:00-4:30 PM EST. [Register Here](#).
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  - [Business Fundamentals for Core Facility Administrators](#) course series:
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  - Workshop on Innovative Approaches to Improve Maternal Health, May 8-9, 9:00am-6:00pm ET. [More Info](#) and [Register Here](#).
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## Issue 125, 03/27/2023

### NIH Funding Opportunity and/or Policy Announcements

- Instrumentation Grant Program for Resource-Limited Institutions ([PAR-23-138](#)). Applications Due: July 3.
- Supplements to IDeA Awards to Fund Team Science Development Projects ([NOT-GM-23-034](#)). Applications Due: June 01. Open to all IDeA awardees. See Pre-application Webinar info below.
- Supplements to Advance the Use of Electronic Health Records for Research ([NOT-GM-23-035](#)). Applications Due: May 15. Open to CTR awardees. See Pre-application Webinar info below.
- Support the Exploration of Cloud in NIH-supported Research ([NOT-OD-23-070](#)). Applications Due: April 11.
- Enhance Software Tools for Open Science ([NOT-OD-23-073](#)). Applications Due: May 9.
- Support Collaborations to Improve the AI/ML-Readiness of NIH-Supported Data ([NOT-OD-23-082](#)). Applications Due: May 16.

## Upcoming Events

- SuRE Resource Center:
  - Institutional Responsibilities for NIH Applications and Awards Webinar, Thursday, March 30, 4:00-5:00 PM EST. [Register Here](#).
  - Budget & Justification Development Webinar, Monday, April 17, 3:00-4:30 PM EST. [Register Here](#).
- Workshop on Inclusive Participation in Clinical Research, March 30-31, 11:00am-5:00pm ET. [Register Here](#).
- [Business Fundamentals for Core Facility Administrators](#) course series:
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## NIH Extramural Nexus

- **NIH Clinical Trials Reporting Compliance: A Shared Commitment**

As the largest public funder of clinical trials in the United States, NIH is committed to the timely dissemination of clinical trial results information so that the benefits of the trial data can be realized. In support of this goal, in September 2016, NIH issued the [NIH Policy on Dissemination of NIH-Funded Clinical Trial Information](#) to establish our expectation that summary results of NIH-supported clinical trials be submitted to ClinicalTrials.gov within 365 days of the actual [primary completion date](#). This policy is complementary to a [2016 updated HHS regulation](#) aimed at further increasing the availability of information about clinical trials.

This policy has already proven to be effective as recent analyses have demonstrated increased clinical trial results information reporting. However, we acknowledge that we still have work to do to increase *timely* compliance. As such, NIH has implemented multiple strategies, including targeted compliance actions, to get us to our goal. As partners in the clinical trial enterprise, we can fulfill our shared commitment to ensuring clinical trials results information is available to benefit all human health.

Most recently, [a report from the DHHS Office of the Inspector General \(OIG\)](#) reviewed NIH-funded clinical trials for which the HHS regulation and NIH policy required the results to be reported in calendar year 2019 or 2020. The OIG found that compliance with Federal reporting requirements could be enhanced by strengthened procedures for ensuring that responsible parties submitted the results of clinical trials. NIH agreed with this finding as it was one of the impetuses for championing the 2016 policy and updated HHS regulation.

Alongside strengthening our policies, NIH has committed to updating our internal controls over the course of the last 5 years NIH to improve our ability to track and enforce clinical trial results information submission, including:

- Developing a compliance review process and associated systems controls that provide a robust and automated system for centralized tracking of registration and results reporting information.
- Substantially investing in the human subjects eRA module that collects structured data from application forms and links those data to [ClinicalTrials.gov](#), enabling NIH staff to rapidly identify potentially noncompliant trials and to take actions to ensure compliance.
- Initiating internal quarterly reporting to NIH Institutes and Centers (ICs) of all NIH grant-funded clinical trials that have not submitted results information to ClinicalTrials.gov within the deadline, enabling NIH to send an initial notification to recipients of potential noncompliance.

[..... continue reading](#)

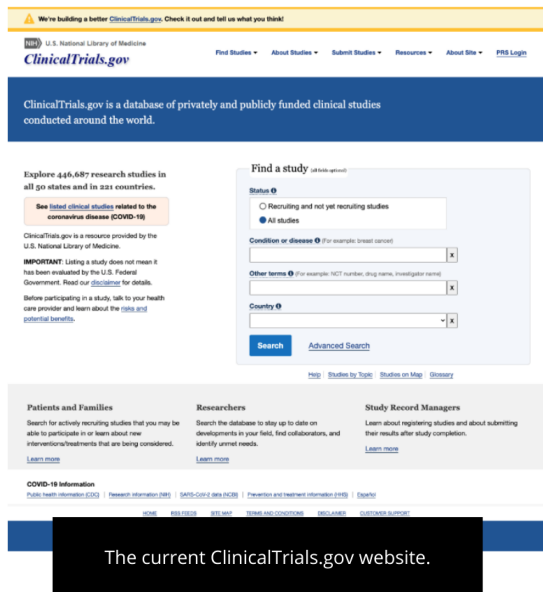
## • ClinicalTrials.gov is Modernizing to Serve You Better

*Guest post by Anna M. Fine, PharmD, MS, Acting Director of ClinicalTrials.gov at the National Library of Medicine (NLM), National Institutes of Health. Originally posted on the [Musings from the Mezzanine blog](#).*

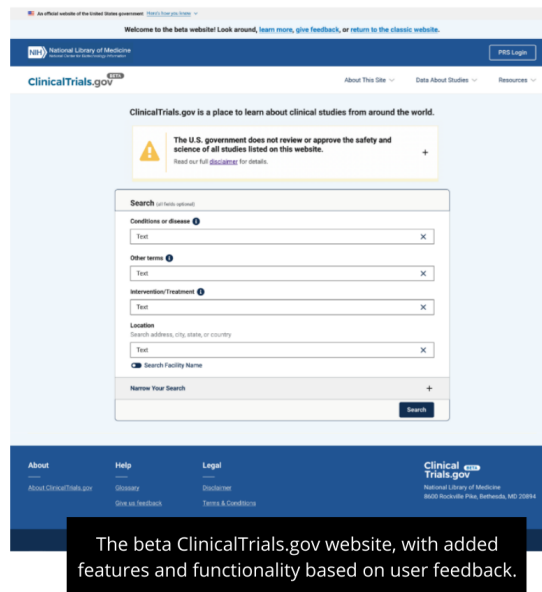
ClinicalTrials.gov is the world's largest database of privately and publicly funded clinical trials. It provides easy access to clinical trial information for millions of users every month—from patients

and their advocates to data submitters, data researchers, and the broader public. NLM is in the midst of [a multi-year effort to modernize ClinicalTrials.gov](#) to deliver an improved user experience on an updated platform that will accommodate future growth and enhance efficiency.

In June 2023, we will reach an important milestone: replacing the current website with the modernized ClinicalTrials.gov website. This modernized site will implement the innovations we have designed based on user feedback, including an updated look and feel and improved functionality for searching, viewing, and downloading information about clinical trials.



The current ClinicalTrials.gov website.



The beta ClinicalTrials.gov website, with added features and functionality based on user feedback.

[..... continue reading](#)

## • Trends in Extramural Research Integrity Allegations Received at NIH

At the start of the year, we briefly touched on our efforts to address research integrity violations in our [2022 Year In Review](#). Today we are sharing some more information on the overall trends in research integrity allegations associated with the NIH grants process. I want to note that while we are sharing these aggregate data, NIH does not discuss grants compliance reviews on specific funded awards, recipient institutions, or supported investigators, and whether such reviews occurred or are underway.

Table 1 shows the total number of new research integrity allegation types that NIH received between calendar years (CYs) 2013 and 2022. These include allegations related to traditional research misconduct and professional misconduct, such as peer review, foreign interference, harassment, grant fraud, and other types. We generally handled an average of 100 violations each year up to around 2017. Over the last five years, however, the numbers rose precipitously.

Calendar Year	Allegations*
2013	104
2014	110
2015	89
2016	77
2017	117
2018	342
2019	549
2020	531
2021	573
2022	564

**Table 1: Total Research Integrity Allegation Types: CYs 2013 to 2022**

[..... continue reading](#)

## • New FY 2022 Categorical Spending Data Are Now Available

NIH recently updated its annual categorical information with fiscal year (FY) 2022 actual spending data and estimates for FY 2023 and 2024. Available on the [Research, Condition, and Disease Categorization \(RCDC\) page](#), you will find the annual support level for various research, condition, and disease categories. The data are based on grants, contracts, and other funding mechanisms used across NIH.

There were 215 public categories when RCDC information began being reported in 2008. Now in our fifteenth year, there are a total of 315 categories. The following new categories were added in FY 2022:

- Cocaine
- PASC (Post-Acute Sequelae of SARS-CoV-2), including Long COVID
- Polycystic Ovary Syndrome (PCOS)
- Pulmonary Fibrosis
- Pulmonary Hypertension
- Sarcoidosis
- Stimulant Use and Misuse

There were also several existing categories that were renamed including:

- Migraines renamed to Migraine

- Prescription Drug Abuse renamed to Prescription Drug Misuse
- Screening and Brief Intervention for Substance Abuse renamed to Screening and Brief Intervention for Substance Misuse
- Substance Abuse Prevention renamed to Substance Misuse Prevention

For more background on RCDC, please see [this NIH Open Mike blog](#) and [the RCDC process here](#).

## **• How Do I Budget Effort for Personnel Whose Duties Are Included and Budgeted as Part of the Data Management and Sharing Plan?**

All costs for data management and sharing activities, including personnel costs, must be included in the single line item on the R&R Budget Form in section F. Other Direct Costs. This includes the salary and fringe benefits corresponding to the time it takes personnel to undertake data activities (e.g., formatting, curating, developing supporting documentation).

Do not include personnel costs related to data management and sharing activities in section A. Senior/Key Person or section B. other Personnel.

Supporting details, including a breakdown of any personnel effort, must be included in the budget justification.

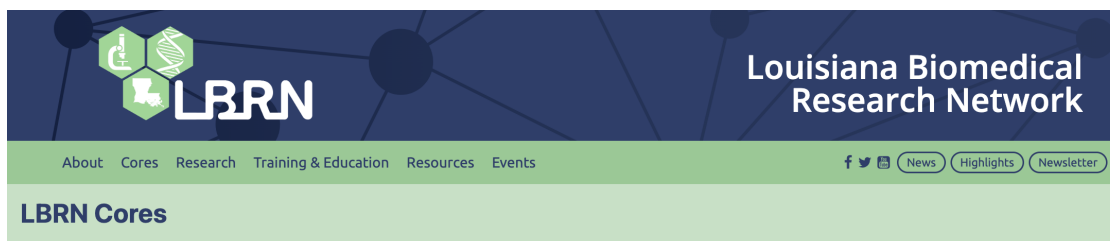
Have additional DMS Policy-related questions? Check out our [2023 Data Management & Sharing Policy FAQs](#) including a new set of Budget/Cost FAQs.

## **• Revised Post-Submission Material Policy**

With the expiration of the Public Health Emergency on May 11 comes the end of the special exception that allowed applicants to submit a one-page update of preliminary data as post-submission materials. However, going forward, NIH is revising our standard post-submission material policy to allow a one-page update with preliminary data to be submitted as post-submission material for Type 1 R01, R21, or R03 applications, including resubmissions, as long as the funding opportunity used for submission allows preliminary data in the application. For applications submitted for the May 25, 2023 receipt date and beyond, the special exception is ended and applicants should follow the new policy. Check out our [2023 Data Management & Sharing Policy FAQs](#) including a new set of Budget/Cost FAQs.



LBRN Bioinformatics, Biostatistics, and Computational Biology Core (BBCC) and Molecular and Cell Biology Resources Core (MCBRC) remind you that they are available for questions and contact via our LBRN Cores website. If you're not sure who to reach out to, you can ask via our website [Cores Contact form](#) and we will get back to you with the appropriate resource to do the best we can to answer your question. Look for the "Cores Contact" on the Cores page.



### BBCC

The Bioinformatics, Biostatistics, and Computational Biology Core (BBCC) of the Louisiana Biomedical Research Network (LBRN) serves to train and support project investigators and their teams across Louisiana, and to lead and support translational research activities at the frontiers of biomedical science. Its team uses both established and custom computational tools, operating at computational scales ranging from the mundane to analyses engaging many hundreds of compute cores.



### MCBRC

Molecular and Cell Biology Resources Core (MCBRC) provides an essential linkage among important basic fields of biomedical science, such as genetics, developmental biology, structural biology, immunology, neurobiology, and cancer biology. The MCBRC takes advantage of existing highly organized, centralized services and equipment facilities located primarily at the LSU flagship institution in Baton Rouge, effectively uniting these units toward the common goal of supporting biomedical research performed by PUI investigators. The MCBRC will provide technical and logistical support, enabling the ready exchange of information, ideas, technology, and research capabilities among PUI investigators. MCBRC will ensure that PUI researchers have full access to state-of-the-art equipment and modern research techniques and services.



### Cores Training & Support

The cores provide one on one training. If you have a question or would like to talk about your training needs, you would like more information about services provided by the cores, or you would like to talk to someone in the core about how someone can assist you, please use Cores Contact link:



[Cores Contact](#)

## LBRN Cores Contact Form

Resize font:  
+ | -

Please complete the questions below.

Thank you!

<b>Your Name</b> <small>* must provide value</small>	<input type="text"/>
<b>Your Email</b> <small>* must provide value</small>	<input type="text"/>
<b>Your Institution</b> <small>* must provide value</small>	<input type="text"/>
<b>Indicate which core(s) that best fits / you'd like to contact:</b> <small>* must provide value</small>	<div><input type="checkbox"/> Administrative Core <input type="checkbox"/> Bioinformatics, Biostatistics, and Computational Core <input type="checkbox"/> Molecular and Cell Biology Resources Core <input type="checkbox"/> Other/Not Sure</div> <p><a href="#">select all that apply</a></p>
<b>Please describe what you would like to ask and the question will get routed to the appropriate person in the core or the administrative core will contact you to try to help who is the appropriate person to contact you.</b> <small>* must provide value</small>	<div><input type="text"/></div> <p><a href="#">Expand</a></p>
<input type="submit" value="Submit"/>	

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**LONI HPC Allocation for LBRN**

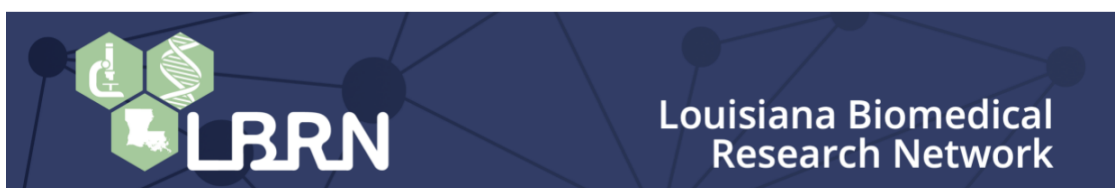


To support the LBRN / BBC Core community on LONI HPC systems, we have renewed our high-performance computing allocation for 2022 / 2023.

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](#).

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## 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 proflin 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>

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## 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:

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