

## News, Opportunities and Deadlines for August 2022

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Welcome!

### Dr. Brent Stanfield, LBRN Coordinator

We are pleased to introduce our new LBRN Coordinator the LBRN Community! Welcome Dr. Stanfield.



"I am excited to assume the role of coordinator of the Louisiana Biomedical Research Network (LBRN). I appreciate your patience as I transition into this position. My background is primarily in research relating to microbial pathogenesis and cancer. I'm thrilled to be involved in the LBRN and I am personally committed to help expand and improve the critical mass of biomedical investigators at Louisiana's primarily undergraduate institutions. I look forward to working with you." - Brent

Welcome!

### Dr. Emmanuelle M. Ruiz, LBRN BBCC Assistant Director

We are pleased to introduce our new LBRN Bioinformatics, Biostatistics, and Computational Biology Core (BBCC) assistant director to the LBRN Community! Welcome Dr. Ruiz.



"I am excited to be welcome in the LBRN community. With my molecular biology and pharmacology background, I principally worked on cancer. During my pre- and post-doctoral career, I realized the deep need of bioinformatics to analyze and understand the "new" extensive data available and I decided to add these new tools as my expertise list. Hence, it will be a privilege to collaborate with research teams in order to help build strong bioinformatics and biostatistics projects. I love working with people who have diverse research interests and as my curiosity has few limits, I will gladly expand my abilities to respond to your needs." - Emmanuelle

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## LBRN Project Update

The following are new and current projects supported by LBRN. We are honored to be able to support these researchers, we look forward to the development of their projects and their results when we have our Annual Meeting in 2023. Congratulations to our new project awards!

You can see more information about these projects on our LBRN Project Investigators web page: <https://lbrn.lsu.edu/project-investigators.html>.



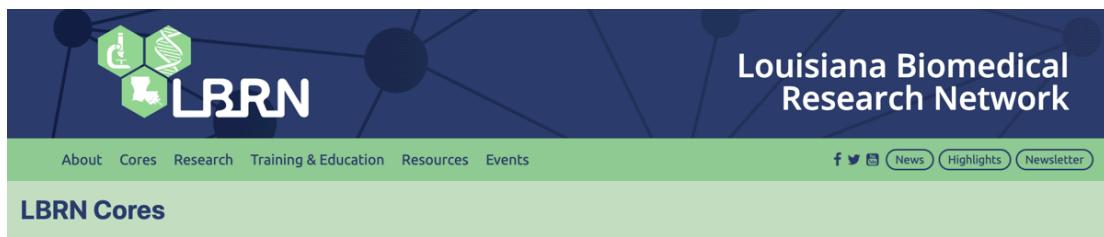
LBRN

## Louisiana Biomedical Research Network

Name	Campus	Project Type	Project Title
Jean Chamcheu	ULM	Full Project	Development of fisetin as a novel inhibitor co-targeting PI3K/AKT/mTOR/Rac1 and IL-17A for Treating Psoriasis
Devaiah Kambiranda	SUBR	Full Project	Proteasomes / immunoproteasomes: Role of lipid rafts in compartmentalization / activation in e-cigarettes vapor exposed lung epithelial cells
Georgios Matthaiolapakis	ULM	Full Project	miR-mediated Inhibition of Lung Cancer Progression
Siva Murru	ULM	Full Project	Development of Pyrazoles and Related Heterocyclic Compounds as Anti-Cancer Agents : Design, Synthesis and Anti-cancer Activity Studies
Vonny Salim	LSUS	Full Project	Elucidation of Plant-Derived Drug Biosynthetic Pathways and Molecular Mechanisms as Anticancer Agents
Kyle Piller	SELU	Full Project	Life in the fast lane: Testing for congruence among transcriptomic signatures
Mary Caldorera Moore	LATECH	Full Project	Multifunctional Living Stem Cell-Laden Hydrogel Networks for Directed Tissue Regeneration
Vladimir Kolesnichenko	XULA	Full Project	Nano particulate magnetic imaging Agents for Cancer Diagnostic
Omer Soysal	SELU	Full Project	MindPrint: Exploring uniqueness of individuals' brain signals
Cory Coehoorn	LSUS	Pilot Project	Impact of rapid heat acquisition on neural function, decision-making, stress, and inflammation
Nektarios Barabutis	ULM	Pilot Project	Protective role of Growth Hormone Releasing Hormone Antagonists in Endothelial Barrier Dysfunction
Anthony Walker	ULM	Pilot Project	Formulation and characterization of pluronic lecithin organogel as an efficient transdermal delivery vehicle of the flavonol fisetin and its potent derivatives
Kazim Sekeroglu	SELU	Pilot Project	A Multi-View Spatiotemporal Hierarchical Deep Fusion Learning Model for Decoding Human Brain Activity
Santosh D'Mello	LSUS	Translational Project	Preclinical Development of Small Molecule Therapeutics for Alzheimer's Disease
Erika Perez	XULA	Startup Project	The interaction between kainate (KRs) and nicotinic acetylcholine receptors (nAChRs) in modulating nicotine-associated behaviors
John Rakus	ULM	Startup Project	Characterization of Hsc70 interactions regulating LPS stimulated RAW264.7 cells
Subhajit Chakrabarty	LSUS	Startup Project	Ischemic Stroke in COVID-19 Patients – Predicting Outcomes with Machine Learning

# LBRN Cores Support Form

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, ask via our website [Cores Contact form](#) and we will get back to you with the appropriate resource. Look for the "Cores Contact" link on the Cores page.



## BBC

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.



## MCBR

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>	<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 <small>select all that apply</small>
<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>	<input type="text"/> <small>Expand</small>
<input type="button" value="Submit"/>	

## Public University Partnership Program



The Louisiana Department of Health (LDH) Bureau of Health Services Financing (Medicaid) is pleased to announce continuation of this funding opportunity for Louisiana public colleges and universities for State Fiscal Year 23.

The Louisiana **Public University Partnership Program (PUPP)** involves cost sharing between the public college/university and LDH for research opportunities that will advance Louisiana Medicaid priorities. Research can consist of a new project or an expansion of existing efforts. Successful proposals will demonstrate how the

findings of the project will promote delivery of evidence-based, high-quality, accessible, and cost-effective care to Louisiana Medicaid members.

### **Medicaid Priorities:**

- Improving maternal and neonatal outcomes
- Improving early childhood health and development
- Improving health outcomes from the most common causes of morbidity and mortality with an emphasis on preventive health
- Improving outcomes related to mental health and substance use disorders
- Understanding and reducing health disparities and improving health equity
- Increasing uptake of evidence-based care and reduce utilization of low-value care.

**Eligible Organizations:** Any public institution of postsecondary education in Louisiana governed by the Board of Regents, the Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, the Board of Supervisors of Southern University and Agricultural and Mechanical College, the Board of Supervisors for the University of Louisiana System, or the Board of Supervisors of Community and Technical Colleges that is engaged in health sciences research.

Private non-profit and private for-profit colleges and universities are **not** eligible for this opportunity.

Full details of this opportunity, along with application submission requirements, are outlined in the Notice of Funding Opportunity.

- [Notice of Funding Opportunity](#)
- [Frequently Asked Questions](#)
- [Budget Template for Proposals](#)
- [Application Cover Page](#)

The application period opens May 20, 2022 with the submission deadline of September 30, 2022 to [PUPP@LA.GOV](mailto:PUPP@LA.GOV). Applicants are encouraged to submit in advance of the deadline to ensure they have time to make any application corrections that might be necessary for successful submission.

An online Q&A session is scheduled for **Thursday, July 14, 2022 at 10 am** for interested parties. Registration for this session is available now through the Zoom link.

Award notification will occur **Tuesday, November 1, 2022** with implementation beginning **January 1, 2023**.

Please submit any application related communication regarding this funding opportunity to [PUPP@LA.GOV](mailto:PUPP@LA.GOV).

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

# Updates from DRCB/NIGMS

## Issue 94 (8/15/2022)

### NIH Funding Opportunity and/or Policy Announcements

- Upcoming Prize Competition for the NICHD “Connecting the Community for Maternal Health Challenge” ([NOT-HD-22-039](#)). Applications due: September 22.
- Upcoming Prize Competition Announcement for the RADx® Tech for Maternal Health Challenge ([NOT-HD-22-035](#)). Applications due: November 1.
- Implementation Details for the NIH Data Management and Sharing Policy ([NOT-OD-22-189](#)).

### Upcoming Events

- NIH Data Management and Sharing (DMS) Policy Webinar Series, August 11, 1:30 – 3:00 PM ET; September 22; 1:30 – 3:00 PM ET. [See NOT-OD-22-184](#).
- NIGMS Grant Writing Webinar Series for Institutions Building Research and Research Training Capacity, August 16, 2:00 – 3:15 PM ET; September 26, 2:00 – 3:15 PM ET; November 1, 2:00 – 3:15 PM ET. See [more information](#) and [register](#).

### Reports/News/Program Messages

- As part of the implementation of the 2023 NIH Data Management and Sharing Policy, new NIH "FORMS-H" grant application forms and instructions coming for due dates on or after January 25. See [NOT-OD-22-195](#) for details.
- Adjustments to NIH and AHRQ Grant Application Due Dates Between September 22 and September 30 ([NOT-OD-22-190](#)). This impacts applications to DRBC's **SuRE-First, COBRE 2, and I-CRRC** programs.

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## Issue 93 (8/8/2022)

### NIH Funding Opportunity and/or Policy Announcements

- Upcoming Prize Competition Announcement for the RADx® Tech for Maternal Health Challenge ([NOT-HD-22-035](#)). Applications due: November 1.
- Implementation Details for the NIH Data Management and Sharing Policy ([NOT-OD-22-189](#)).

### Upcoming Events

- NIH Data Management and Sharing (DMS) Policy Webinar Series, August 11, 1:30 – 3:00 PM ET; September 22; 1:30 – 3:00 PM ET. [See NOT-OD-22-184](#).
- NIGMS Grant Writing Webinar Series for Institutions Building Research and Research Training Capacity, August 16, 2:00 – 3:15 PM ET; September 26, 2:00 – 3:15 PM ET; November 1, 2:00 – 3:15 PM ET. See [more information](#) and [register](#).

## Reports/News/Program Messages

- Adjustments to NIH and AHRQ Grant Application Due Dates Between September 22 and September 30 ([NOT-OD-22-190](#)). This impacts applications to DRCB's **SuRE-First, COBRE 2, and I-CRRC** programs.
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## Issue 92 (8/1/2022)

- **NIH Funding Opportunity and/or Policy Announcements**
  - Administrative Supplements to IDeA awards: Women's Health Research ([NOT-GM-22-005](#)). Applications Due: October 17.
  - Modern Equipment for Shared-Used Biomedical Research Facilities: Advancing Research-Related Operations ([PAR-22-190](#)). Applications due: November 7.
  - **Upcoming Events**
  - NIH Data Management and Sharing (DMS) Policy Webinar Series, August 11, 1:30 – 3:00 PM ET; September 22; 1:30 – 3:00 PM ET. See [NOT-OD-22-184](#).
  - **Reports/News/Program Messages**
  - eRA Retirement of All Application Form Versions Prior to FORMS-E ([NOT-OD-22-182](#)).
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  - NIGMS Grant Writing Webinar Series for Institutions Building Research and Research Training Capacity, August 16, 2:00 – 3:15 PM ET; September 26, 2:00 – 3:15 PM ET; November 1, 2:00 – 3:15 PM ET. See [more information](#) and [register](#).
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## Issue 91 (7/25/2022)

### NIH Funding Opportunity and/or Policy Announcements

- Modern Equipment for Shared-Used Biomedical Research Facilities: Advancing Research-Related Operations ([PAR-22-190](#)). Applications due: November 7.
- Alzheimers-Focused Administrative Supplements for NIH Grants that are Not Focused on Alzheimers Disease ([NOT-AG-22-025](#)). Applications due: October 1.

### Upcoming Events

- NIH Data Management and Sharing (DMS) Policy Webinar Series, August 11, 1:30 – 3:00 PM ET; September 22; 1:30 – 3:00 PM ET. [See more information](#).

### Reports/News/Program Messages

- eRA Retirement of All Application Form Versions Prior to FORMS-E ([NOT-OD-22-182](#)).
- Call for Papers: Design and Analytic Methods to Evaluate Multilevel Interventions to Reduce Health

Disparities, from the NIH Office of Disease Prevention. More information found [here](#). Submissions due September 1.

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## LSU HPC Training



Our first HPC training will be held on Wednesday, September 7 at 9:00 AM. Due to concern about COVID-19, all training sessions are Zoom online events from 9:00AM to 11:00AM. The sessions will be recorded for later review.

**Note that all HPC trainings will start at 9:00AM.**

### **Wednesday, September 7, 2022: Introduction to Linux**

The aim of this training is to get users familiar with using Linux systems e.g. the HPC resources. This training will cover basic Linux commands and editors (emacs and vi) on Linux systems. Anyone who is interested in learning about using a Linux based computer is encouraged to attend. If you are not familiar with using a Linux system particularly creating/writing files then this course is a prerequisite for the forthcoming training on HPC User Environment 1 & 2.

This training is **\*mandatory\*** for HPC users who are not familiar with using a Linux/Unix system.

Prerequisite: Access to a Linux/Unix based computer i.e. Linux (VirtualBox images), Mac OSX and Windows with Cygwin or Bash installed.

Next two HPC Trainings:

### **Wednesday, September 14, 2022: HPC User Environment 1, Job Management on HPC Clusters**

### **Wednesday, September 21, 2022: HPC User Environment 2, Job Management on HPC Clusters**

This training provides an overview of the HPC/LONI general account and allocation policies, hardware and software environments, queuing system, compiling programs, writing submit scripts, running and monitoring jobs on HPC systems.

This training is a **\*mandatory\*** two-day training event for all HPC/LONI new users held on September 14 and September 21.

Prerequisite: Familiarity with Linux/Unix commands and editors.

Please visit <https://www.hpc.lsu.edu/training/tutorials.php> for more details and register using the link provided. Users will be provided with a zoom link in their registration confirmation email. Please see the system

requirements at <https://support.zoom.us/hc/en-us/articles/201362023-System-Requirements-for-PC-Mac-and-Linux>.

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## NIH Extramural Nexus

### • 2022-2023 Virtual NIH Grants Conference and PreCon Events: New Name! New Approach! Deeper Dive!

**Reimagine:** to reinterpret (an event, work of art, etc.) imaginatively; rethink

If you have followed my blogs through the years, you know I am a huge fan of an NIH event focused on bringing the extramural research community together with NIH experts to share knowledge, perspectives, guidance, and resources on the NIH grants process and policies. The event has evolved through the years in format, reach, and trans-NIH involvement. Each year, I thought its success would be hard to top...yet somehow it happened. For decades it was known as the "NIH Regional Seminar on Program Funding and Grants Administration." We capped events at 900 attendees. In 2020, it was hosted online and became the "NIH Virtual Seminar." Last year, over 15,000 attendees participated, representing every state, and over 100 countries. Yet here we are again...reimagining what it could be...reimagining what it should be.

For the past two years, our virtual seminar has spanned four days and included 50 sessions. That is a lot of information for attendees to digest in a short period of time! This year, we thought participants would appreciate the opportunity to get the content over a longer period, allowing time for the information to digest. In addition, by pulling select topics out of the larger conference and sharing them in monthly preconference events, there is the opportunity to dive deeper into issues and build time for additional Q&A, case studies, and conversation.

To this end, I'd like to introduce you to our new, [NIH Grants Conference and PreCon Events](#)... all hosted within our virtual conference center. Visit the [Conference Calendar of Events](#) to view the times and descriptions for each:

August 25:	NIH Loan Repayment Programs: Supporting the Next Generation of Researchers
September 15:	Navigating Early Career Funding Opportunities
October 14:	Research Misconduct & Integrity
November 9:	Foreign Collaborations: Policies, Processes, & Partnerships
December 6 & 7:	Human Subjects: Policies, Clinical Trials, & Inclusion
January 12, 2023	Making the Most of the 2023 NIH Grants Conference
February 1 & 2, 2023:	2023 Virtual NIH Grants Conference: Funding, Policies, & Processes

**I am excited about the new opportunities this conference approach will provide everyone involved.** Here are additional details about some of this year's conference features.

- **All-Access Conference Pass:** There are no fees for signing up. Once you [register](#), your log-in and password provide you access to all of the PreCon Events, 2-Day Conference, On-Demand Library, Exhibit Hall, and additional opportunities to engage with NIH and your peers.
- **Virtual Conference Center:** The conference and designated preconference events will take place on a single, online platform called vFairs, the same one used for the past two NIH Virtual Seminars. The Exhibit Hall will be available throughout the year for perusing NIH Institute and program booths and collecting valuable information; booths will be staffed for the 2-day conference.
- **Build Your Personalized Agenda.** Once you register to access our conference center, you can add any of the on-demand videos, PreCon Events, or NIH Grants Conference sessions to your agenda, guaranteeing that you won't miss out!
- **First Event:** Thursday, August 25, from 2:00 – 3:30 PM ET – We are pleased to kick off the PreCon Events with experts from the NIH Loan Repayment Program (LRP). This informative and interactive virtual event will provide participants a valuable opportunity to gain program information on how NIH can help pay off a researcher's student debt, as well as guidance on the LRP application process.

We hope you are as excited as we are about the opportunities the virtual conference center and the planned events offer participants. [Register](#) today to get your All-Access Conference Pass. Within a couple of weeks, the conference center will open and be ready for you to explore and plan your NIH Grants Conference experience! [#NIHgrantsconf](#)

## • Preliminary Data on Childcare Cost Support for National Research Service Award (NRSA) Individual Fellows

In April 2021, recognizing the high cost of childcare, NIH began allowing recipients of full-time National Research Service Awards (NRSA) fellowships to [request](#) support for childcare costs. Fellows could make these requests in new and continuation applications or as [administrative supplements to existing awards](#). Each fellow is now eligible to receive up to \$2,500 per budget period to defray childcare costs. Here, we share preliminary data on childcare cost requests and issuances.

NIH received 229 childcare requests in fiscal year (FY) 2021 and 357 requests in FY 2022 from NRSA fellows (Table 1). We issued 228 childcare cost awards in FY 2021, totaling \$572,083, and 196 awards so far in FY 2022, for a total of \$509,687. Table 1 shows additional data disaggregated by the specific [fellowship grant type](#): [F30](#), [F31](#), and [F32](#). Note, the FY 2022 data are as of July 22, 2022, and are likely to change before the end of the fiscal year.

	FY 2021			FY 2022		
Fellowship Type	Application Count	Award Count	Awarded Dollars (\$)	Application Count	Award Count	Awarded Dollars (\$)
F30	29	29	72,500	43	25	63,125
F31	72	72	177,500	104	54	137,500
F32	128	127	322,083	210	117	309,062
Total	229	228	572,083	357	196	509,687

This childcare cost benefit was also [extended to all NRSA trainees](#) last October, and we have plans to report similar data on its progress at a later date.

One of NIH's main goals continues to be ensuring that early career researchers can successfully complete their training and fully participate in the extramural research workforce. These childcare cost awards, along with other [family friendly policies](#), help to foster a well-trained and diverse biomedical research workforce. We encourage you to review the other available policies and initiatives (also discussed on [this NIH All About Grants podcast](#)) aimed at balancing work and family life for all biomedical researchers.

- Implementation Updates for the New NIH Data Management and Sharing Policy**

As we work towards the January 25, 2023 effective date of the new [NIH Data Management and Sharing \(DMS\) Policy](#), we continue to develop resources and implementation information to help the community prepare (see recently released [NOT-OD-22-189](#)). For some scientific communities, data sharing is already standard and things will largely be business as usual. For others, this policy may require some pretty big adjustments. We acknowledge that there will be a learning curve. We will be supporting you with additional resources and guidance through the change (see [here](#) and [here](#) for previous blogs).

The central tenets of the DMS Policy are: 1) that investigators and institutions prospectively plan for how they will manage and appropriately share data by developing a Data Management and Sharing Plan (DMS Plan), and 2) that they follow-through with this DMS Plan. Prospective planning is key. The goal of this policy is to get investigators thinking about and preparing for data management and data sharing as early as possible. We've seen many issues arise when data sharing is only addressed once research is already underway.

To aid researchers in establishing robust DMS Plans, NIH released an optional [DMS Plan format page](#) that walks investigators through the [Elements of a DMS Plan](#). A preview version of this format page is available now as a reference. A final, fillable version of this format page along with detailed instructions for preparing DMS Plans will be incorporated into the FORMS-H NIH Application Instructions, available in the fall.

Additionally, to reduce burden on investigators also subject to the Genomic Data Sharing (GDS) Policy (see [here](#) for more details), NIH will no longer require submission of separate GDS Plans. Instead, one plan will be expected where applicants describe genomic data sharing within their DMS Plan elements (notice with details coming soon).

As a reminder, DMS Plans will be reviewed and assessed by NIH program staff, not by peer reviewers, so plans

will not factor into the Overall Impact score of the application. Peer Reviewers may, however, comment on the reasonableness of proposed data management and sharing costs based on the information provided in the budget justification section (see [NOT-OD-22-189](#) for details). NIH staff at the proposed NIH Institute or Center will determine if recommended DMS Plan elements are reasonably addressed, and applications will only be funded if the DMS Plan is found to be acceptable. If there are any concerns with the submitted DMS Plan, NIH staff may request additional information or modifications to the DMS Plan prior to award through the standard Just-in-Time process.

Interested in learning more? We invite you to bring your questions and join us for our [2-part webinar series titled A Conversation with NIH: Implementing the New Data Management and Sharing Policy](#). In this series, our policy experts will break down what the policy means for you and discuss key factors to consider when sharing data. Register now and submit your questions in advance!

In closing, we want to underscore that while this policy will make great strides towards changing the culture of data sharing, participation from the entire research ecosystem is critical to see real change. From researchers to institutional officials, to data librarians and data curators, to journal publishers to NIH staff, we all have an important role to play.

Be sure to visit the [NIH Scientific Data Sharing website](#) and [subscribe](#) for real-time updates on the latest news, resources, and policy information.

- Reminder to Review Accuracy of Grant Information Before October 3, 2022**

We make data on all funded NIH grants available to the public on the [RePORT](#) website. One of the ways we provide information is by school/department, which you can explore using the [Awards by Location](#) feature. Because of inconsistencies in the way information on department and school names are provided in grant applications, recipient officials may want to make changes in how that information is reflected in NIH systems. See [this Nexus post](#) for more on how and why schools and departments are assigned to NIH grants.

NIH's fiscal year ends on September 30, 2022, so now is the time for Signing Officials to verify the accuracy of their grant assignments to departments or components within institutions of higher education using the Grant Re-assign function in eRA Commons. Since the data in these files are "frozen" annually to ensure the reporting files produce consistent and meaningful results, any corrections must be made by 8:00 PM EDT on Monday, October 3, 2022 to be reflected in NIH annual reports.

NIH guide Notice [NOT-OD-22-194](#) includes additional information on what Authorized Organization Representatives or Signing Officials should know, how to verify information, making corrections, and more.

- FORMS-H Coming for January 2023 Due Dates**

Applicants applying to NIH funding opportunities with due dates on or after January 25, 2023 must use updated application forms and instructions identified with a Competition ID of "FORMS-H" ([NOT-OD-22-195](#)).

The primary change to the updated application forms is the addition of an "Other Plan(s)" attachment on the PHS 398 Research Plan and PHS 398 Career Development Supplemental forms as part of the implementation of the 2023 NIH Data Management and Sharing Policy. Applicants must attach the required Data Management and

Sharing Plan in this new field in FORMS-H applications ([NOT-OD-22-189](#)).

Although NIH Data Sharing Policies are not applicable to institutional training or fellowship applications, the “Other Plan(s)” attachment was also added to the PHS 398 Research Training Program Plan and PHS Fellowship Supplemental forms for potential future use with other plans.

Application guides for FORMS-H application packages will be posted to the [How to Apply – Application Guide](#) page no later than October 25, 2022.

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## National Research Mentoring Network



Our mission is to provide researchers across all career stages in the biomedical, behavioral, clinical, and social sciences with the evidence-based mentorship and professional development programming that emphasizes the benefits and challenges of diversity, inclusivity and culture.

As an NRMN mentor, you can attest first-hand to the impact mentoring has on the careers of young scientists. The Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS), one of the nation's largest STEM conferences for scientists from historically marginalized communities, recognizes the importance of mentorship in STEM and actively promotes its benefits to conference attendees. This year, ABRCMS will be held November 9-12 in Anaheim, CA.



ABRCMS is seeking active researchers to serve as mentor judges to the 2,000+ students who present their research at the conference. In addition to mentoring opportunities, judges will have the chance to network with

like-minded colleagues who are passionate about increasing diversity in STEM as well as participate in cutting edge scientific sessions.

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## NIGMS - High School and Undergraduate Programs

- **High School**

### [Research Supplements to Promote Diversity in Health-Related Research \(Admin Supp\)](#)

[PA-21-071; Shakira Nelson; Zuzana Justinova](#)

This program employs the research project grant as the platform for intensive mentored research experiences within the scope of the grant during the continuum from high school to the postdoctoral level and investigators developing independent research careers. The goal is to increase the nation's pool of students from underrepresented groups by preparing them to continue their training and career advancement in biomedical research.

- **Community College Student**

### [Bridges to the Baccalaureate \(T34\)](#)

[PAR-22-125; Shakira Nelson; Laurie Stepanek](#)

The goal of the program is to provide structured activities to prepare a diverse cohort of community college students to transfer to and complete a bachelor's degree in biomedical research fields. The program supports institutions that develop and implement effective, evidence-informed approaches to biomedical training and mentoring. This program requires partnerships between two-year post-secondary educational institutions granting the associate degree with four-year colleges or universities that offer the baccalaureate degree.

### [NIH Common Fund Initiative: The Diversity Program Consortium - Enhancing the Diversity of the NIH-Funded Workforce, Building Infrastructure Leading to Diversity \(BUILD\)\(U54\)](#)

[RFA-RM-13-016; Edgardo Falcón-Morales; Sydella Blatch; Laurie Stepanek](#); Consortium contact: [Alison Gammie](#)

BUILD awards are designed to implement and study innovative approaches to engaging and retaining students from diverse backgrounds in biomedical research, potentially helping them on the pathway to become future contributors to the NIH-funded research enterprise. BUILD awards differ from other NIH-funded training grants in that they aim to achieve simultaneous impact at the student, faculty, and institutional levels.

## [NIH Common Fund Initiative: The Diversity Program Consortium - Enhancing the Diversity of the NIH-Funded Workforce, National Research Mentoring Network \(NRMN\)\(U24\)](#)

[RFA-RM-18-002](#); [RFA-RM-18-003](#); [RFA-RM-18-004](#); [Michael Sesma](#); Consortium contact: [Alison Gammie](#)

The National Research Mentoring Network (NRMN) resource center provides mentoring and networking opportunities for biomedical researchers from diverse backgrounds, including those from underrepresented groups, from the undergraduate level through early career faculty. The NRMN coordination center brings together the NRMN awardees, including the resource center and the research on mentoring, networking and navigating critical transition points.

- **Undergraduate Student**

### [Maximizing Access to Research Careers \(MARC\) \(T-34\)](#)

[PAR-21-147](#); [Patrick Brown](#); [Sydella Blatch](#)

The goal of the program is to develop a diverse pool of undergraduates who complete their baccalaureate degree, and transition into and complete biomedical, research-focused higher degree programs (e.g., Ph.D. or M.D./Ph.D.). MARC is an undergraduate student training program for institutions with research-intensive environments. Eligible institutions must have a 3-year average of NIH research project grant funding greater than or equal to \$7.5 million in total costs per year.

### [Undergraduate Research Training Initiative for Student Enhancement \(U-RISE\)\(T34\)](#)

[PAR-21-146](#); [Kenneth Gibbs](#); [Baishali Maskeri](#)

The goal of the program is to develop a diverse pool of undergraduates who complete their baccalaureate degree, and transition into and complete biomedical, research-focused higher degree programs (e.g., Ph.D. or M.D./Ph.D.). U-RISE is an undergraduate student training program for institutions with research-active environments. Eligible institutions must have a 3-year average of NIH research project grant funding less than \$7.5 million in total costs per year.

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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 2021/2022.

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 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.

## CFA for Short Term Core Projects



Molecular Cell Biology Research Resources Core (**MCBRC**) and Bioinformatics, Biostatistics, and Computational Biology Core (**BBCC**) are calling for proposals to carry out short term projects in collaboration with the Cores. All LBRN researchers can submit a proposal for a defined project that can be carried out in collaboration with the Core facilities listed in the attached Call for Proposals (CFP) on a competitive basis. Each selected project will be allocated \$1,500 to fully or partially offset Core expenses. [Please contact your LBRN Steering Committee Member.](#)

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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:

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 GM103424-20.

- 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 P20GM103424-20.*

- 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 (2P20GM103424-20) an Institutional Development Award (IDeA) from the National Institute of General Medical Sciences of the National Institutes of Health.*

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