

News, Opportunities and Deadlines for December 2022



21st LBRN Annual Meeting

January 20-21, 2023

LBRN team is pleased to announce that the 21st Annual LBRN Meeting will be held at LSU school of Veterinary Medicine on the **20th and 21st of January, 2023.**

Each year the LBRN program has an annual meeting in which program participants, committee members and administrators meet to review individual research accomplishments and to discuss the overall program activity. Summer research faculty and graduate and undergraduate students are encouraged to present their LBRN sponsored research, and talks are scheduled to highlight sponsored research projects from partnered campuses across the state.

Registration has been extended! All deadlines are December 19, 2022. If hotel lodging is needed, you must register by this deadline to be eligible for reimbursement.

A detailed schedule will be updated on the LBRN webpage, check the page for the latest agenda updates and deadlines: <https://lbrn.lsu.edu/annual-meetings.html>.



Louisiana Biomedical Research Network

LBRN 21st LBRN Annual Meeting

January 20 – 21, 2023

<https://lbrn.lsu.edu/annual-meetings.html>



Louisiana State University
School of Veterinary Medicine
Baton Rouge, Louisiana



Please find the agenda of the meeting below,



21st ANNUAL MEETING OF THE LBRN – 2023



Day 1 : Friday January 20th, 2023

Registration for All Opens (SVM Lobby)

9:00 AM

LBRN Technology and Core Resources Session (Auditorium)*

*Note: This is a new session that is separate from the main conference. To register for the Tech session, you must opt-in on the regular registration form. Today's lunch will only be provided for registered attendees of this session.

MCBR Core Technology Session

Yong Lee: Overview of MCB services available through LBRN connections	10:00 AM – 10:15 AM
Gianluca Veggiani: Services through Protein Laboratory	10:15 AM – 10:30 AM
Marilyn A Dietrich: Principles and biomedical applications of flow cytometry	10:30 AM – 10:45 AM
Basel H. Abuaita: Principles and applications of Seahorse	10:45 AM – 11:00 AM

BBCB Core Technology Session

Chris Taylor: Introduction and Overview of BBC Core	11:00 AM – 11:10 AM
Elia Brodsky: Pine Biotech Educational Programs & Analysis Pipeline	11:10 AM – 11:30 AM
Emmanuelle Ruiz: RNA-Seq Analysis & Ingenuity Pathway Analysis (IPA)	11:30 AM – 11:45 AM
Le Yan / Nayong Kim: Computing Infrastructure & Computational Bootcamps	11:45 AM – 12:00 PM
Boxed Lunches and Q&A with MCBR and BBC Cores	12:00 PM – 1:00 PM

Main Conference (Auditorium)

Introduction (Welcome Remarks): Kousoulas/Stamfield/Dean Garden 1:00 PM – 1:10 PM

Keynote: TBD 1:10 PM – 2:00 PM

Full Project: Mary Caldorera-Moore
"Multifunctional Living Stem Cell-Laden Hydrogel Networks for Directed Tissue Regeneration" 2:05 PM – 2:30 PM

Full Project: Jean Christopher Chamcheu
"Development of fisetin as a novel inhibitor co-targeting PI3K/AKT/mTOR/Rac1 and IL-17A for Treating Psoriasis" 2:35 PM – 3:00 PM

Break: Refreshments 3:00 PM – 3:10 PM

Keynote: John Stewart, MD, PhD, Director LSUHSC Cancer Center 3:10 PM – 4:00 PM

Poster Session 1 (Even Numbered Abstracts) 4:00 PM – 5:00 PM

Poster Session 2 (Odd Numbered Abstracts) 5:00 PM – 6:00 PM

Celebratory Dinner (First Floor LSU-SVM) 6:00 PM – 8:00 PM

A Toast to "Celebrating the Impact of LSU A&M NIH:NIGMS IDeA Programs"



Louisiana Biomedical Research Network

21st ANNUAL MEETING OF THE LBRN – 2023

Day 2 : Saturday January 21st, 2023

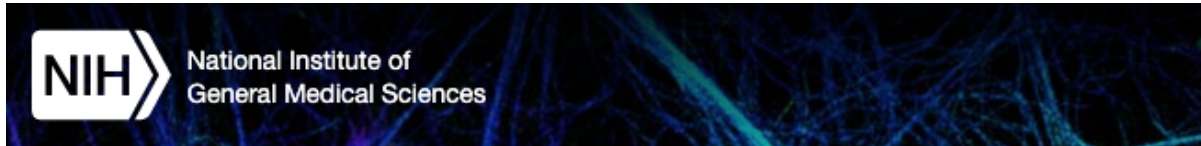
Welcome: LSU Administration/EAC	8:15 AM – 8:30 AM
Pilot Project: Nektarios Barabutis “Protective role of Growth Hormone Releasing Hormone Antagonists in Endothelial Barrier Dysfunction”	8:31 AM – 8:41 AM
Pilot Project: Anthony Walker “Formulation and characterization of pluronic lecithin organogel as an efficient transdermal delivery vehicle of the flavonol fisetin and its potent derivatives”	8:42 AM – 8:52 AM
Pilot Project: Cory Coehoorn “Impact of rapid heat acquisition on neural function, decision-making, stress, and inflammation”	8:53 AM – 9:03 AM
Pilot Project: Kazim Sekeroglu “A Multi-View Spatiotemporal Hierarchical Deep Fusion Learning Model for Decoding Human Brain Activity”	9:04 AM – 9:14 AM
Translational Project: Santosh D’Mello “Preclinical Development of Small Molecule Therapeutics for Alzheimer’s Disease”	9:15 AM – 9:25 AM
Break: Refreshments	9:25 AM – 9:30 AM
Full Project: Devaiah Kambiranda “Proteasomes / immunoproteasomes: Role of lipid rafts in compartmentalization / activation in e-cigarettes vapor exposed lung epithelial cells”	9:30 AM – 9:55 AM
Full Project: Vladimir Kolesnichenko “Nano particulate magnetic imaging Agents for Cancer Diagnostic”	10:00 AM – 10:25 AM
Break: Refreshments	10:25 AM – 10:40 AM
Full Project: Georgios Matthaiolampakis “miR-mediated Inhibition of Lung Cancer Progression”	10:40 AM – 11:05 AM
Full Project: Siva Murru “Development of Pyrazoles and Related Heterocyclic Compounds as Anti-Cancer Agents : Design, Synthesis and Anti-cancer Activity Studies”	11:10 AM – 11:35 AM
Full Project: Kyle Piller “Life in the fast lane: Testing for congruence among transcriptomic signatures”	11:40 AM – 12:05 PM
Break: LUNCH	12:05 PM – 1:00 PM
FLASH TALKS: Summer Research Graduate Students (6 minutes)	1:00 PM – 2:00 PM
Full Project: Vonny Salim “Elucidation of Plant-Derived Drug Biosynthetic Pathways and Molecular Mechanisms as Anticancer Agents”	2:05 PM – 2:30 PM
Full Project: Omer Soysal “MindPrint: Exploring uniqueness of individuals' brain signals”	2:35 PM – 3:00 PM
Awards and Closing Remarks	3:05 PM – 3:20 PM



Louisiana Biomedical Research Network

COBRE Phase 1 Funding Opportunities

COBRE Phase 1 Funding Opportunities for Data Sciences and Women's Health Research



NIH Office of Data Science Strategy (ODSS) and Office of Research for Women's Health (ORWH) will fund COBRE awards in their areas of interests, in addition to regular IDeA funding.

Centers of Biomedical Research Excellence (COBRE) Phase 1 (P20 Clinical Trial Optional), to build research capacity in data sciences ([NOT-GM-23-011](#)) and women's health ([NOT-GM-23-012](#)) in IDeA states.

These NOSIs highlight the [Office of Data Science Strategy's](#) interest in supporting meritorious applications on data science relevant to biomedical research, and the [Office of Research on Women's Health's](#) interest in supporting a meritorious application on women's health.

Next application receipt date: January 30, 2023

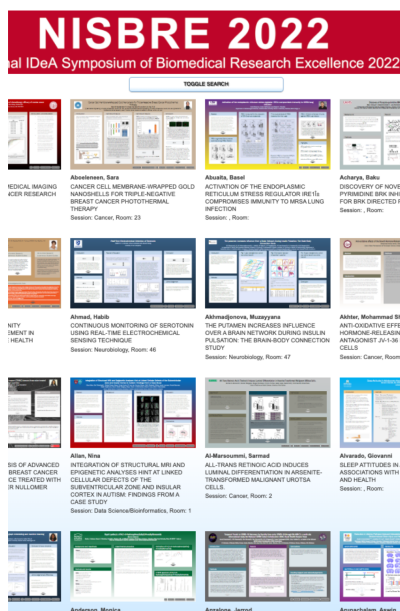
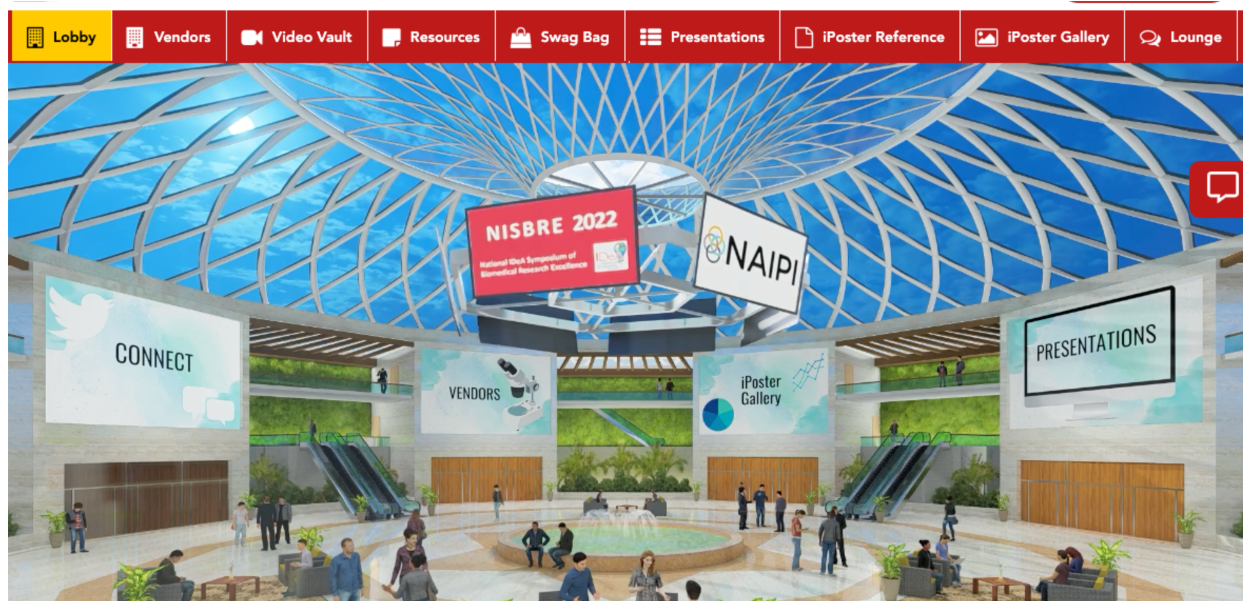
Earliest start date: December 2023

The 8th NISBRE Meeting

December 12-14, 2022

The 8th Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE) was held virtually December 12-14, 2022, while the 2024 and 2026 NISBRE will be held in Washington, DC. Louisiana State University (LSU) has been awarded an NIH: NIGMS U13 grant to organize 2022, 2024, and 2026 NISBRE Meetings.

We had a record number of meeting registrations of 1113 for the event and we also navigated setting up a virtual format with over 295 submitted posters over iPoster.



14th December		iPoster Sessions	
Speaker / Topic	Duration	Start	End
Gus Kousoulas, PhD	3 minutes	12:00	12:05
Michele McGuire, PhD	4 minutes	12:05	12:10
Krishan Arora, PhD	3 minutes	12:10	12:15
odoy-Vitorino, PhD "The microbiome as key for cervical cancer prevention"	15 minutes	12:15	12:30
Jigley, PhD "Theft of Host Iron Machinery by Toxoplasma gondii"	15 minutes	12:30	12:45
las-Bradoo, PhD "Mutations in DNA polymerase epsilon and the roles of the non-catalytic module in the eukaryotic replisome"	15 minutes	12:45	13:00
ettieri, PhD "Metabolic Control of Porphyrin Biosynthesis in a Planarian Model of Acute Porphyrria"	15 minutes	12:45	13:00
Hamilton, PhD "Phenolic Bioactive Molecules for..."			

LBRN Achievements

LASM plans special tour of Louisiana Tech VISTA work

The VISTA (Visual Integration of Science Through Art) Center offers two interdisciplinary minors-- [Pre-Medical Illustration](#) and [Scientific Visualization](#)-- where faculty from art, biology, and biomedical engineering work together to offer students a unique opportunity to communicate science through art.



Louisiana Tech VISTA Center Co-Directors Professor Nick Bustamante and Dr. Jamie Newman will lead the exhibition tour.

“The Louisiana Tech VISTA Center’s program was a perfect match for LASM’s interdisciplinary mission and I’m very excited for visitors to hear Dr. Newman and Professor Bustamante speak on this exhibition,” LASM Curator Tracey Barhorst said. “VISTA students are encouraged to combine their love of art and science to encourage discovery, inspire creativity, and foster the pursuit of knowledge.”

“Working with the LASM team of professionals has been fantastic in making *Illustrating Health* a first-class museum exhibition,” Bustamante said. “Louisiana Tech’s VISTA Center is thankful for the opportunity to showcase undergraduate scientific illustrations and underline visuals’ role in health communication.”

LASM’s annual exhibition program, including the presentation of *Illustrating Health*, is sponsored by Entergy. *Illustrating Health* is also supported by Louisiana Tech University, Justin and Jeanette Hinckley, Kean Miller, and the Baton Rouge Clinic.

Weekly Update from DRCB / NIGMS

Updates from DRCB/NIGMS

Issue 110, 12/12/2022

NIH Funding Opportunity and/or Policy Announcements

- New Inbox for Inquiries Related to Federal Financial Reports (FFRs) and Financial Closeout ([NOT-OD-23-035](#)).
- Research Evaluation and Commercialization Hubs (REACH) Awards ([RFA-OD-23-005](#)). Applications due: February 9.
- IDeA Regional Entrepreneurship Development (I-RED) Program (STTR) ([PAR-22-254](#)). Applications due: January 6.
- COBRE Phase 1 ([PAR-22-250](#)). Applications Due: January 30.
- Administrative Supplements to INBRE Awards to Fund Research Collaborations ([NOT-GM-22-001](#)). Applications due: January 31.
- Administrative Supplements to Prepare Data Assets for Infectious and Immune-mediated Diseases for Inclusion into the NIAID Data Ecosystem ([NOT-AI-23-009](#)). Applications due: February 13.
- Leading Equity and Diversity in the Medical Scientist Training Program (LEAD MSTP) ([PAR-23-030](#)). Applications due: January 25.
- Administrative Supplements to Recognize Excellence in Diversity, Equity, Inclusion, and Accessibility (DEIA) Mentorship ([NOT-OD-23-002](#)).

Upcoming Events

- Research Evaluation and Commercialization Hubs (REACH) Program Informational Webinar, December 12, 3:30-4:30 pm ET. See more information and register [here](#).
- 8th Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE) Conference (Virtual), December 12-14. See more information and register [here](#).

Reports/News/Program Messages

- American Indian and Alaska Native Collaborative Research to Enhance Wellness: Addressing Opioid/Drug Misuse, Mental Health, and Pain, Research Concept. See more information [here](#).
- COBRE Phase 1 Data Sciences and Women's Health Research NOSI Informational Webinar Video and Slides. The slides and the video recording for the webinar are now available on the COBRE website [here](#).
- Question and Answer "Office Hour" with NIGMS Staff for IMSD and G-RISE Applicants. See more information [here](#).

Special Edition

The 8th Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE) will be held Monday-Wednesday, December 12-14 (starting at 12:00 noon EST on each day). Thanks to the organizing committee, there will be general sessions as well as special sessions or talks interesting to everyone.

The conference is Virtual and Free. Please invite and encourage all in your program including students and your institutional leaders to register at <https://nisbre2022.vfairs.com/>. Thank you!

Sincerely,

Issue 109, 11/28/2022

NIH Funding Opportunity and/or Policy Announcements

- IDeA Regional Entrepreneurship Development (I-RED) Program (STTR) ([PAR-22-254](#)).
- Administrative Supplements to Prepare Data Assets for Infectious and Immune-mediated Diseases for Inclusion into the NIAID Data Ecosystem ([NOT-AI-23-009](#)). Applications due: February 13.
- Leading Equity and Diversity in the Medical Scientist Training Program (LEAD MSTP) ([PAR-23-030](#)). Applications due: January 25.
- Administrative Supplements to Recognize Excellence in Diversity, Equity, Inclusion, and Accessibility (DEIA) Mentorship ([NOT-OD-23-002](#)).
- Notice of Intent to Publish Maximizing Investigators Research Award (MIRA) for Early Stage Investigators (ESI) ([NOT-GM-23-017](#)).

Upcoming Events


- Informational Webinar for [Leading Equity and Diversity in the Medical Scientist Training Program](#) (LEAD MSTP), December 6, 2:00 pm ET, [Zoom link](#). See more information [here](#).
- Human Subjects Research: Policies, Clinical Trials, & Inclusion, December 6-7, 12:00-4:00 pm ET. See more information and register [here](#).
- 8th Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE) Conference (Virtual), December 12-14. See more information and register [here](#).

Reports/News/Program Messages

- Slides of COBRE Phase 1 NOSIs to support Data Science and Women's Health Research in IDeA states preapplication webinar have been posted on the COBRE [website](#). The recording of the webinar will be posted at a later date.
- Question and Answer "Office Hour" with NIGMS Staff for IMSD and G-RISE Applicants. See more information [here](#).
- **Reminder:** FORMS-H Grant Application Forms & Instructions Must be Used for Due Dates On or After January 25, 2023 ([NOT-OD-23-012](#)). [Instructions](#) and [significant changes to form instructions](#) are available for applicant reference.




LBRN Cores Support Form

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.



Louisiana Biomedical
Research Network

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LBRN Cores

BBC

The Bioinformatics, Biostatistics, and Computational Biology Core (BBC) 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](#)

Please complete the questions below.

Thank you!

Your Name <small>* must provide value</small>	<input type="text"/>
Your Email <small>* must provide value</small>	<input type="text"/>
Your Institution <small>* must provide value</small>	<input type="text"/>
Indicate which core(s) that best fits / you'd like to contact: <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>select all that apply</p>
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. <small>* must provide value</small>	<div><input type="text"/></div> <p>Expand</p>
<input type="submit" value="Submit"/>	

NIH Extramural Nexus

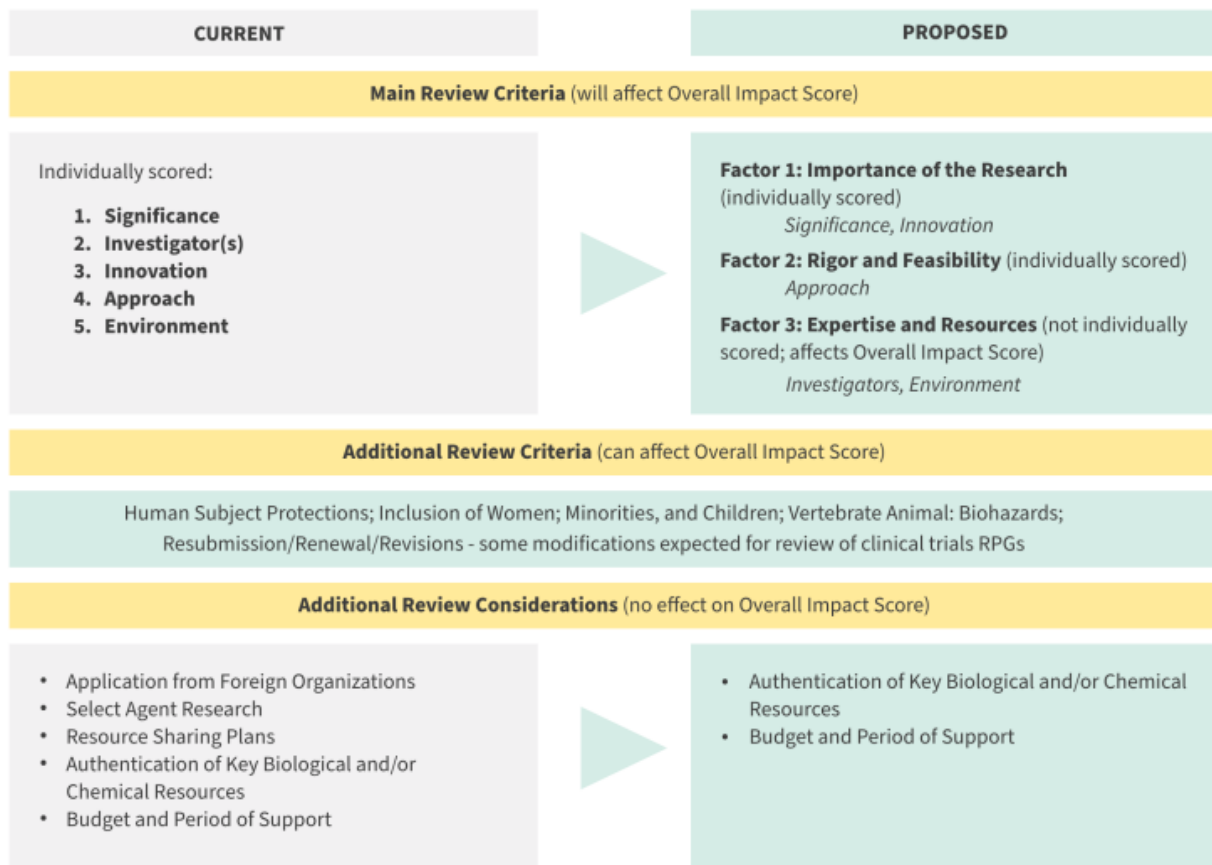
• Update on Simplifying Review Criteria: A Request for Information

NIH has issued a request for information (RFI) seeking feedback on revising and simplifying the peer review framework for research project grant applications. The goal of this effort is to facilitate the mission of scientific peer review – identification of the strongest, highest-impact research. The proposed changes will allow peer reviewers to focus on scientific merit by evaluating 1) the scientific impact, research rigor, and feasibility of the proposed research without the distraction of administrative questions and 2) whether or not appropriate expertise and resources are available to conduct the research, thus mitigating the undue influence of the reputation of the institution or investigator.

Currently, applications for research project grants (RPGs, such as R01s, R03s, R15s, R21s, R34s) are evaluated based on five scored criteria: **Significance**, **Investigators**, **Innovation**, **Approach**, and **Environment** (derived

from NIH peer review regulations [42 C.F.R. Part 52h.8](#); see [Definitions of Criteria and Considerations for Research Project Grant Critiques](#) for more detail) and a number of additional review criteria such as Human Subject Protections.

NIH gathered input from the community to identify potential revisions to the review framework. Given longstanding and often-heard concerns from diverse groups, CSR decided to form two working groups to the [CSR Advisory Council](#)—one on [non-clinical trials](#) and one on [clinical trials](#). To inform these groups, CSR published a [Review Matters](#) blog, which was cross-posted on the Office of Extramural Research blog, [Open Mike](#). The blog received more than 9,000 views by unique individuals and over 400 comments. [Interim recommendations](#) were presented to the CSR Advisory Council in a public forum (March 2020 [video](#), [slides](#); March 2021 [video](#), [slides](#)). Final recommendations from the CSRAC ([report](#)) were considered by the major extramural committees of the NIH that included leadership from across NIH institutes and centers. Additional background information can be found [here](#). This process produced many modifications and the final proposal presented below. Discussions are underway to incorporate consideration of a Plan for Enhancing Diverse Perspectives ([PEDP](#)) and rigorous review of clinical trials RPGs (~10% of RPGs are clinical trials) within the proposed framework.



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

• 12 Days of Data Management and Sharing Tips & Resources

As we get closer to the January 25, 2023 effective date of the new NIH Data Management and Sharing (DMS) Policy, here are 12 tips and resources we would like to gift you – but you might have to supply your own partridge in a pear tree

- [1-page flyer](#) on the who, what, where, and when of the DMS Policy
- [2-part webinar series](#) on understanding the DMS Policy and digging deeper into what's required
- [3 key steps](#) to implement the DMS Policy
- [4 sample DMS Plans](#) to assist as you develop a plan for your research, and an [optional format page](#)
- [5 minutes](#) is all it takes to determine what sharing policies apply to your research with this [decision tool](#)
- [6 elements](#) recommended for a robust DMS Plan, a key component for your funding application
- [7 examples of allowable costs](#) for data management and sharing
- [8+ slides](#) in our Implementing the DMS Policy slide deck
- [Fewer than 9 key differences](#) between the 2003 data sharing policy vs. the new DMS policy, illustrated on the policy comparison table
- [10 activities](#) that generally do and do not generate scientific data, including a [complete list of activity codes](#) generally subject to the DMS Policy
- [11+ FAQs](#) to address your questions, and [who to contact](#) for more information
- [Dozens of NIH-supported data repositories](#) and resources to help you [find](#) an appropriate repository for your research

• Free Crash Course in NIH Funding: 2023 NIH Grants Conference on Feb. 1-2

Are you new to NIH grants and looking to better understand the processes and policies behind NIH funding? Or are you experienced and want to brush up on the latest policies and information? Consider this your personal invitation to the [2023 NIH Grants Conference](#), a free and virtual event on February 1-2, 2023. During this 2-day live event, NIH and HHS experts will share policies, resources, guidance, and case studies in informative and engaging sessions.

Save the dates and add the [February 1](#) and [February 2](#) events to your calendar for easy access.

Here are some highlights of what you can expect from the conference:

- **Learn** about NIH grants policies! The jam-packed [agenda](#) offers 2 days of sessions designed to clarify the NIH grants process and policies, and opportunities to engage with presenters through Q&A and chat features.
- **Interact** with NIH experts! the 1:1 Meet the Experts which are 20-minute chats between attendees and NIH staff, designed for more specific research and administrative questions.
- **Engage** and network with your peers! The attendee search feature allows you to filter through over 13,000 attendees to network and connect with colleagues. Networking Lounges are also available for attendees to share tips and attend special events.

- **Gather** resources to use and share with colleagues! Explore the Exhibit Hall, where you'll encounter NIH staff and an abundance of resources located at over 45 NIH Institute, Center, and Special Program booths.

Registration is free and includes your personal "All Access Pass" to the virtual [NIH Grants Conference 2022-2023 season](#). Once registered and logged into the conference site, you are free to explore the 2-day agenda, on-demand library of related resources, and create your personal schedule.

• International Collaborations: Advice from Experts

Whether you're from a foreign organization looking to secure NIH funding, or a domestic researcher or institution partnering with a foreign collaborator, you'll find helpful information to get started in the [International Collaborations: Policies, Processes, & Partnerships](#) video. NIH experts walk you through the process of working with foreign entities through engaging case studies, panel discussions, and live Q&A. In addition, research officials from several Universities across the U.S. shared their perspective on building a supportive and successful environment for international collaborations as they also addressed questions from the audience.

Feel free to break out the popcorn and binge the whole video or check out these sections for the information you need:

- [Understanding International Collaborations](#)
- [Subaward Agreements](#)
- [A Walk-Through of the Federal Financial Report \(FFR\)](#)
- [Collaborating and Partnering with Foreign Entities from a Scientific Perspective](#)
- [Foreign Interference \(FI\)](#)
- [Programs to Support International Collaborations: The University Perspective](#)

For presentation slides and other resources, see the [event page](#). Stay tuned for more free NIH virtual events at the NIH Grants Conference: Funding, Policies, & Processes scheduled for February 1-2, 2023. Details on these upcoming events and past recordings can be found on the [NIH Grants Conference](#) website.

• Check for Fit, Before You Submit!

It takes quite a bit of time to prepare and submit a grant application. Imagine spending that time only to find out later that you submitted to the wrong opportunity. Funding opportunity announcements (FOAs) contain a lot of information. Most applicants are very good at reading the FOA description to ensure a good topic fit, but let's look at a few less obvious items that are often overlooked.

- Does your application fit within the mission of one of the participating [institutes or centers](#)? If we can't make an assignment, your application will be withdrawn.
- Does your Type of Application ([New](#), [Resubmission](#), [Revision](#), [Renewal](#)) appear in the Application Types Allowed section of the FOA?
- Is the clinical trials allowability indicator appropriate for your application? FOAs marked Clinical Trials

Optional accept all applications whether or not they propose [clinical trials](#). All other FOAs either prohibit or require clinical trials based on the indicator.

- Is your application within any budget or project period limits?
- Do you meet all the eligibility criteria in Section III of the FOA?

You must read and follow the *entire* FOA text. Please remember to [check for fit, before you submit](#).

LONI HPC Allocation for LBRN



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

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

have them interface with [Dr. Nayong Kim](#).

LBRN "Core Bucks"



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



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

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

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

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

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

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

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



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

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

Sample services:

1. Molecular Biology Reagent Equipment and Services

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

2. Protein Production, Purification and Characterization Laboratory

- Protein Purification and Characterization includes semi automated Bio-rad profinia affinity chromatography system, AKTA Explorer FPLC system, and HPLC and ultracentrifugation equipment
- Peptide Synthesis and purification
- Protein-protein interactions are investigated using primarily Surface Plasmon Resonance (SPR) implemented on Biacore and ForteBio SPR equipment. Additional physicochemical characterization of protein-protein interactions is available through collaborations with the LSU Department of Chemistry.
- Gene-to-Protein-to-Antibody Services – you provide the gene, we return an antibody

3. Molecular Immunopathology Laboratory Services

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

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

NIH LBRN Acknowledgement

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

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

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

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

Research reported in this {publication, release} was supported by an Institutional Development Award (IDeA) from the National Institute of General Medical Sciences of the National Institutes of Health under grant number 5 P20 GM103424-20.

• 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.

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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