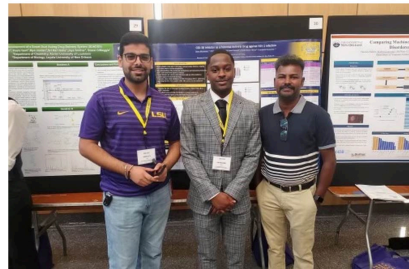
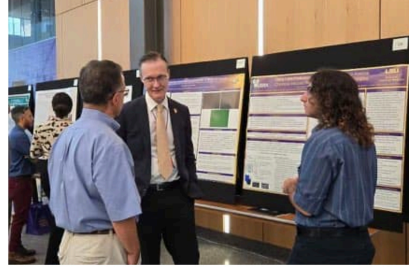


News, Opportunities and Deadlines for August 2024

2024 LBRN Summer Undergraduate Research Forum (SURF)



The Louisiana Biomedical Research Network (LBRN) organizes a summer research program that supports undergraduate students, graduate students, and faculty across Louisiana state. 20+ students are participating in the SRP out of which 17 undergraduate students will present the poster of their summer research at the Summer Undergraduate Research Forum (SURF) program on Friday, August 02, 2024, at Louisiana State University, Baton Rouge. LBRN undergrad students participating in the LSU Discover zProgram, several of them worked with Vet Med investigators.

Funding Opportunities provided by LBRN



We are pleased to inform you that LBRN is currently in the process of assembling a carryover request, allocating \$30,000 per PUI for equipment needs. This initiative aims to support our partner institutions in enhancing their research capabilities. Recently, we convened a meeting with the Steering Committee to discuss this proposal in detail, ensuring that the funds are effectively utilized to meet the specific needs of each PUI. We look forward to seeing the positive impact this will have on our collective research endeavors.

NIH National Cancer Institute



NCI Director Dr. Kimryn Rathmell and Division of Cancer Biology Director Dr. Dan Gallahan explain how the R15 grant program supports researchers at smaller institutions and encourages students to pursue careers in cancer research.

Growing the Cancer Research Pipeline by Expanding Opportunities

In his senior year at Oakland University in Michigan, Tyler Parsons started working on a research project led by Gerard Madlambayan, Ph.D.

Tyler was able to be part of the NCI-funded project—investigating how certain types of [stem cells](#) affect tumors' ability to grow in the aftermath of radiation therapy—because of the type of NCI grant Dr. Madlambayan had received, called [a Research Enhancement Award, or an R15](#).



Tyler flourished in the lab and decided to remain at Oakland, working on the R15-funded project, to get his Ph.D. However, while he was in the home stretch of getting his doctoral degree, Tyler's life took an extremely worrisome turn: After a series of health problems caused by blood clots, he was finally diagnosed with a type of blood cancer called [polycythemia vera](#).

[..... Continue Reading](#)

How to Use the Cancer Data Aggregator

What is the Cancer Data Aggregator?

The [Cancer Data Aggregator](#) (CDA) is a resource that lets you search for data across NCI's [Cancer Research Data Commons](#) (CRDC). The CDA includes standardized and indexed terms from the [Genomic Data Commons \(GDC\)](#), [Imaging Data Commons](#), [Proteomic Data Commons \(PDC\)](#), [Integrated Cancer Data Commons](#), and the [Cancer Data Service](#).

This accessible and easy-to-use tool not only allows you to [collect data](#) but also [explore and analyze that data](#), making it an invaluable asset if you're following the [cancer data science lifecycle research process](#). You can find information using harmonized, common language terms. You can then easily work with your search results in Excel, integrate them into a pipeline, or upload to an [NCI Cloud Resource](#).

Fundamental Tips for Using the CDA Effectively

The CDA has many features that will help you with your cancer research.

CDA tools for beginners include:

- [a point-and-click search tool](#).
- [Google Colab notebooks](#) that provide templates you can use to write queries and run them against the CDA API without the need for installation. This tool is perfect if you're learning how to code but still need some help.

More advanced CDA tools include:

- a [local install of cdapython](#) for a more hands-on experience if you're comfortable with complex search queries.

And remember, the CDA Team is always available to help! Whether you need assistance with running complex queries, guidance with writing code, general advice, and more, you can reach the CDA Team through the [helpdesk](#) or [email](#).

NCI CDA Resources and Initiatives

NCI-Supported Projects

You'll find CDA contributions in other NCI-supported projects that may be helpful for your cancer research. Explore them to see whether you could benefit from these resources.

- [ISB-CGC](#) is an NCI cloud resource that lets you access, explore, and analyze large-scale cancer data through the Google cloud platform. ISB-CGC provides mutation data to CDA, and CDA provides ISB-CGC with aggregated data from across the CRDC. Through ISB-CGC, you can access smaller, easier to use files that ISB-CGC has processed from CRDC data commons. You can also find data through the CDA and then export the data to ISB-CGC to do your analysis. Explore the ISB-CGC BigQuery Table Search to browse tables of metadata and molecular cancer data!
- [FireCloud](#) and [SB-CGC](#) are NCI-funded cloud platforms you can use for data analysis. Once you've found the data you want on CDA, both platforms provide you with user-friendly access to a range of analysis pipelines. Just upload the identifiers you found at CDA to start your analysis.

\$500K in Cash Prizes Available in 2024 DataWorks!

NIH and the Federation of American Societies for Experimental Biology invite you to showcase the power of data reuse in advancing human health by better understanding the development and progression of diseases, such as cancer.

Through the "[2024 Dataworks! Prize Challenge](#)," you and a team of fellow researchers can submit ideas for creative approaches to secondary analysis and data reuse that yield novel insights for the broader research community.

Put together a team and submit your solution to the challenge by **Wednesday, October 23, 2024**. NIH's Office of Data Science Strategy (ODSS) will award up to \$500,000 total in cash prizes to the

challenge winners!

[..... Continue Reading](#)

NCI Data Catalog

The NCI Data Catalog is a listing of data collections resulting from major NCI initiatives and other widely used data sets. Data collections in the catalog meet the following criteria:

- Products of NCI intramural researchers or major NCI initiatives, or regularly referenced NCI-funded extramural research data
- Available to all researchers and may be Open or Controlled Access (requiring approval by a Data Access Committee)
- Well documented and available for download

Categories of data sets include:

- [Biospecimen](#)
- [Cancer Screening Trial](#)
- [Clinical](#)
- [Drug Discovery](#)
- [Epidemiology](#)
- [Genomics](#)
- [Imaging](#)
- [Multiple](#)
- [Nanomaterial Characterizations](#)
- [Networks](#)
- [Pediatric, Adolescent, and Young Adult \(AYA\)](#)
- [Proteomics](#)
- [Target Discovery](#)

[..... Continue Reading](#)

NIH Funding Opportunities and Notices



Policy Notices

- [NIHs Adoption of Common Forms for Biographical Sketch and Current and Pending \(Other\) Support by May 25, 2025](#)

(NOT-OD-24-163)

National Institutes of Health

General Notices

- [Notice of Pre-application Webinar for Notices of Funding Opportunity PAR-23-152 and PAR-23-153: Impacts of climate change across the cancer control continuum](#)

(NOT-CA-24-082)

National Cancer Institute

- [Notice of Early Expiration of NOT-CA-24-060 - Notice of Special Interest \(NOSI\): Advancing Diet and Physical Activity Biomarkers for Assessing Lifestyle Interventions in Cancer Prevention and Cancer Interception Research](#)

(NOT-CA-24-092)

National Cancer Institute

- [Notice of Informational Webinar for the NIGMS Innovative Programs to Enhance Research Training \(IPERT\) Program \(R25\)](#)

(NOT-GM-24-047)

National Institute of General Medical Sciences

Notices of Changes to Funding Opportunities

- [Notice of Change to Expiration Date for PAR-21-217 and PAR-21-218](#)

(NOT-AG-24-057)

National Institute on Aging

- [Notice to Extend the Expiration Date of PAR-22-025, "NIDCD Clinical Research Center Grant \(P50 Clinical Trial Optional\)"](#)

(NOT-DC-24-036)

National Institute on Deafness and Other Communication Disorders

- [Notice of Information: NICHD to Change from a Research Opportunity Announcement for ACT ENDO \(Advancing Cures and Therapies and ending ENDOmetriosis diagnostic delays\) to a Prize Competition Announcement](#)

(NOT-HD-24-027)

Eunice Kennedy Shriver National Institute of Child Health and Human Development



[..... further information can be found here](#)

QIAGEN Ingenuity Pathway Analysis (IPA) training

A one-day training session was held on August 20th, hosted by LBRN and CCT, covering a variety of topics, including an introduction to QIAGEN's Ingenuity Pathway Analysis, data formatting and upload, result interpretation, RNA-seq analysis in IPA, Perform Pathway Analysis on 'OmicData, QIAGEN CLC Genomics Workbench, and Mine IPA's rich database for novel discoveries.



QIAGEN Ingenuity Pathway Analysis (IPA) Training Louisiana State University

9 am – 4 pm, Tuesday, August 20th, 2024

Location: LSU Main Campus, Baton Rouge, Digital Media Center at LSU, DMC 1034

This training is sponsored by the Louisiana Biomedical Research Network (LBRN) and the LSU School of Veterinary Medicine Department of Biotechnology and Molecular Medicine (BIOMMED)

9 am – 9:30 am: Introduction to IPA

Learn how IPA can help you with your grant applications and publications

9:30 am – 12 pm: Perform Pathway Analysis on 'Omic Data

Users will learn how to:

- Perform pathway analysis on user's data
 - Dataset format, upload, and pathway/core analysis
 - Discover key biological mechanisms, regulators and targets
- Compare different groups (time points, treatments, single cell clusters etc.)
 - Activity heatmap for pathways, regulators and biological functions
 - Compare contrast activity of pathways, biological functions and regulators
 - Discover condition specific biomarkers
- Compare user data with public data
 - Analysis Match heatmap
- Generate network using genes, chemicals, and disease of interest even without dataset
 - Design your own pathways using My Pathways
 - Find information on molecules of interest using IPA Gene View page
 - Predict activity of custom network using Molecule Activity Predictor

1 pm – 2 pm: QIAGEN CLC Genomics Workbench

Powerful and scalable NGS data analysis for any species, any platform, any workflow

2 pm – 3:30 pm: Mine IPA's rich database for novel discoveries

Users will learn how to:

- Leverage public data
 - Easily search and open pathway analyses of public data (GEO, SRA, etc.)
 - Study biological mechanisms and discover key regulators/drug targets
 - Identify gene signatures and key regulators common across datasets
- Edit, expand, modify, and overlay public data on a network for genes, chemicals and diseases of interest
- Study gene or biomarker expression across different tissues, diseases, cell types and more from public sources

3:30 pm – 4 pm: QIAGEN QIAseq solutions

4 pm – 4:30 pm: Q&A session

Registration Link: <https://forms.office.com/e/DGKau387Cw>

Participation requires a confirmation e-mail due to limited seating

Instructor:

Tim Hou, PhD
Field Application Scientist
QIAGEN Digital Insights

For questions, contact:

Brittany Kilb
Senior Account Development Manager
QIAGEN Digital Insights
Brittany.Kilb@qiagen.com

Loretta Zainine
Senior Customer Solutions Manager
QIAGEN Digital Insights
Loretta.Zainine@qiagen.com



Registration QR Code

If you are interested in academic collaboration using QIAGEN's Ingenuity Pathway Analysis, please get in touch with Dr. Emmanuelle Ruiz, Coordinator of LBRN's Bioinformatic training program (er Ruiz10@lsu.edu).



HPC Training



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

Wednesday, September 4, 2024: 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 HPC Trainings:

Wednesday, September 11, 2024: HPC User Environment 1, Job Management on HPC Clusters

Wednesday, September 18, 2024: 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 11 and September 18.
- Prerequisite: Familiarity with Linux/Unix commands and editors.

Upcoming LBRN Web Server Replacement



The IT group notified LBRN that they will have a maintenance window in the first week of September to replace two servers hosting the LBRN web page and REDCap. During this period, all servers for operations will need to be shut down.

While the IT group is doing its best to ensure that your data and operations on the system are not affected, we always recommend that you have a backup plan if needed.

Research Training Program (RTP)



Virtual, in-depth training on essential areas of research, featuring key leaders over six sessions.

**Tuesdays | August 27-October 8
1-4:30pm via Zoom**

*Registration closes on August 23rd at 5 PM.

Who?

For study coordinators, billing staff, regulatory coordinators, and other research staff.

Why?

To educate on implementing and managing a clinical study or trial with an emphasis on Good Clinical Practices (GCP), compliance, and other key topics.

Cost:

\$150 enrollment fee. Enrollment will be confirmed once payment has been received.

If you have any questions, please contact CRSPtraining@uabmc.edu.

[REGISTER FOR EVENT](#)

ABRCMS 2024



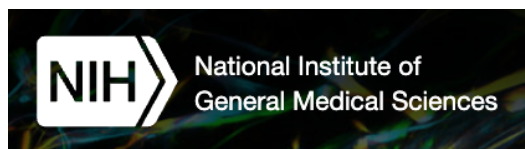
Join a vibrant community of the brightest minds in STEM at the [Annual Biomedical Research Conference for Minoritized Scientists \(ABRCMS\)](#), taking place, November 13-16 in Pittsburgh, PA and the Graduate Symposium occurring November 16-17. Through cutting-edge scientific sessions in [12 scientific disciplines](#) and interactive professional development sessions, covering topics like career pathways, curriculum development and more, ABRCMS delivers timely and relevant content for students and non-students in STEM fields to learn, connect and share. Get involved, and join us:

- [Submit a Session Proposal](#) — deadline July 10
- [Become a Judge](#) — deadline for travel award Aug. 20

- [Become a Reviewer](#) — deadline to sign up Aug. 31
- [Student Abstract Submission](#) — deadline Sept. 6 for abstracts. [Travel awards are available.](#)

As one of the largest communities for underrepresented groups in STEM, ABRCMS is the go-to conference for scientific and professional development. Learn more at <https://abrcms.org>.

Weekly opportunities and events from NIGMS



Issue 198, 08/19/2024

- Administrative Supplements to IDeA awards: Women's Health Research ([NOT-GM-22-005](#)). Applications Due: October 17.
- B-INSPIRE: Research on Behavioral Interventions that Promote Careers in the Biomedical Research Enterprise (R01 and MIRA R35 - Clinical Trial Not Allowed) [PAR-24-230](#). Applications Due: October 17. [Pre-application webinar](#) Wednesday, August 21, 10:30 a.m. - 12:00 p.m. ET.
- Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations ([PAR-24-259](#)). Applications Due: September 25.

Issue 197, 08/12/2024

- Administrative Supplements to IDeA awards: Women's Health Research ([NOT-GM-22-005](#)). Applications Due: October 17.
- B-INSPIRE: Research on Behavioral Interventions that Promote Careers in the Biomedical Research Enterprise (R01 and MIRA R35 - Clinical Trial Not Allowed) [PAR-24-230](#). Applications Due: October 17. [Pre-application webinar](#) Wednesday, August 21, 10:30 a.m. - 12:00 p.m. ET.
- Interactive Digital Media (IDM) Biomedical Science Resources for Pre-College Students and Teachers (SBIR) ([PAR-23-213](#)). Applications Due: September 5.
- Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations ([PAR-24-259](#)). Applications Due: September 25.
- Clarification of Data Management and Sharing Plan Instructions in [CTR-N](#) NOFO ([NOT-GM-24-036](#)) and [CTR-D](#) NOFO ([NOT-GM-24-037](#)).
- Attention NARCH PIs: Building Partnerships and Broadening Perspectives to Advance Ethical, Legal, and Social Implications (ELSI) Research (BBAER) Program ([RFA-HG-24-026](#)). Applications Due: November 15. *See more information about [ELSI Research Program](#).*

Issue 196, 08/05/2024

- B-INSPIRE: Research on Behavioral Interventions that Promote Careers in the Biomedical Research Enterprise (R01 and MIRA R35 - Clinical Trial Not Allowed) [PAR-24-230](#). Applications Due: October 17. [Pre-application webinar](#) Wednesday, August 21, 10:30 a.m. - 12:00 p.m. ET.
- Interactive Digital Media (IDM) Biomedical Science Resources for Pre-College Students and Teachers (SBIR) ([PAR-23-213](#)). Applications Due: September 5.
- Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations ([PAR-24-259](#)). Applications Due: September 25.
- Clarification of Data Management and Sharing Plan Instructions in [CTR-N](#) NOFO ([NOT-GM-24-036](#)) and [CTR-D](#) NOFO ([NOT-GM-24-037](#)).
- Attention NARCH PIs: Building Partnerships and Broadening Perspectives to Advance Ethical, Legal, and Social Implications (ELSI) Research (BBAER) Program ([RFA-HG-24-](#)

[026](#)). Applications Due: November 15. *See more information about [ELSI Research Program](#).*

Issue 195, 07/29/2024

- Interactive Digital Media (IDM) Biomedical Science Resources for Pre-College Students and Teachers (SBIR) ([PAR-23-213](#)). Applications Due: September 5.
- Clarification of Data Management and Sharing Plan Instructions in [CTR-N](#) NOFO ([NOT-GM-24-036](#)) and [CTR-D](#) NOFO ([NOT-GM-24-037](#)).
- Attention NARCH PIs: Building Partnerships and Broadening Perspectives to Advance Ethical, Legal, and Social Implications (ELSI) Research (BBAER) Program ([RFA-HG-24-026](#)). Applications Due: November 15. *See more information about [ELSI Research Program](#).*
- Bridges to the Doctorate Research Training Program ([PAR-24-232](#)). Applications Due: September 27.
- Innovative Programs to Enhance Research Training ([PAR-24-252](#)). Applications Due: October 17.

SuRE R16 NOFO Announcement



SuRE R16 NOFO Announcement

The National Institutes of Health (NIH) has published NOFOs for the SuRE (PAR-24-144) and SuRE-First (PAR-24-145) R16 grant mechanisms. Notable changes include:

Deadlines

Beginning in 2024, each SuRE R16 grant now has two annual submission deadlines, with the due dates being the same for each. The next due date for both SuRE and Sure-First applications is May 29, 2024.

- 2024: May 29 and Sept 27
- 2025: May 28 and Sept 29
- 2026: May 27 and Sept 28

PEDP Attachment

The NIH now requires that an attachment called a Plan for Enhancing Diverse Perspective (PEDP) be included with all R16 submissions. This is a summary of strategies to advance the scientific and technical merit of the proposed project through inclusivity. The PEDP is submitted as a one-page "Other Attachment" to be included in grant applications. You may learn more by visiting this NIH page on PEDPs.

NIH Extramural Nexus

• New Decision Matrix Further Clarifies NIH Processes for Handling Allegations of Foreign Interference

Today NIH issued a [decision matrix](#) for assessing potential foreign interference as part of its ongoing efforts to be transparent about its [policies and procedures](#). The decision matrix builds on

the detailed information already available on [our site](#), including [the process we take to handle new allegations of foreign interference](#), and also offers additional detail as to how NIH considers whether to contact institutions to request additional information.

The resource acts like a decision tree consistent with our efforts to [remind institutions and researchers](#) about what they should know when navigating relevant long-standing grant policies. Such policies center around proper disclosure and transparency throughout the grants process. We appreciate that the vast majority of the research community understand these requirements, as evident by [fewer allegations](#) of inappropriate foreign interference arising in recent years. That said, our [case studies](#) do describe some problematic behaviors and activities to be aware of.

We strongly support [properly conducted and principled international collaborations](#) that are integral for our country to remain competitive. As we have [said before](#), these collaborations must respect the integrity of the scientific process. Routine academic research activities can be done in the absence of scientific or budgetary overlap, overcommitment, and nondisclosure of financial conflicts of interest and foreign components. This means scientists may:

- Write a letter of recommendation for a foreign scientist
- Serve on a peer review or other advisory panel for a foreign funding agency
- Co-author scientific publications (though if directly related to NIH-funded work, recipients need to secure prior approval for foreign components)
- Lecture or teach
- Receive foreign honors
- Participate in foreign research grants and/or foreign employment (aside from [malign foreign talent programs](#)); however, they must provide copies of foreign employment agreements and/or grants to their institutions and to NIH.

• **Unlocking the Potential of Data Reuse: Award Challenge for Researchers**

Biomedical research has generated millions of datasets and we are issuing a \$500,000 [challenge](#) to get the most out of them. The 2024 DataWorks! Prize, a partnership between the [NIH Office of Data Science Strategy](#) and the [Federation of American Societies for Experimental Biology \(FASEB\)](#), invites you to conduct a secondary research analysis project that generates new scientific findings from existing datasets. Data reuse plays a critical role in advancing biomedical research by making it possible to test new hypotheses without duplicating data collection efforts, and this challenge aims to highlight innovative and impactful secondary analysis projects.

The future of biological and biomedical research hinges on researcher's ability to share and reuse data. The DataWorks! Prize is an opportunity for the research community to complete a secondary analysis project and receive recognition and rewards for these innovative and impactful research endeavors. This is the [third iteration](#) of the DataWorks! Prize, a challenge focused on recognizing and rewarding the impact of data sharing and reuse on human health.

[..... Continue Reading](#)

• **Fellowship Application and Review Process Changes ... Prepare to Be Prepared! Webinar Registration is Open.**

Have you heard about upcoming changes to the NIH fellowship application and review process and are wondering about the implications for your application? If so, plan to attend the *Revisions to the Fellowship Application & Review Process* webinar on September 19, 2024, from 2:00 – 3:00 p.m. ET. During this live event, NIH experts will share details on what you can expect and how to prepare now for applications with due dates on or after January 20, 2025. Don't miss this opportunity to hear answers to participant questions submitted during the registration process. Reserve your spot to stay informed and ahead of the curve. [Registration required.](#)

• **NIH All About Grants Podcast – Considering Language Access for Participants in NIH-Supported Clinical Research**

This [episode of the NIH All About Grants podcast](#) explores language access for participants in NIH supported clinical research. Ms. Melissa McGowan, the Deputy Director of the Office of Clinical Research within the National Institute on Aging's Division of Extramural Activities, and Ms. Dawn Corbett, NIH's Inclusion Policy Officer, explain how to consider language access when proposing research in a grant application. They will discuss [language access policies](#), budgets and [allowable costs](#), importance of communication with research participants, various NIH language access resources (also mentioned below), and more.

"In order to make sure that individuals from various backgrounds and individuals with disabilities are fully included in research, we need to make sure that they understand what's going on in the research throughout the entire study." – Dawn Corbett

"When we are looking at our research portfolio...we really want to ensure that the work that we are doing, the work that we are funding, is going to be available for the broad spectrum of people in the United States who need those treatment, those prevention strategies. So that's why communication [and] language access... are so important." – Melissa McGowan

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 2024.

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

3. Molecular Immunopathology Laboratory Services

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

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

NIH LBRN Acknowledgement

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

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

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

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

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

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

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

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

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

or

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

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



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