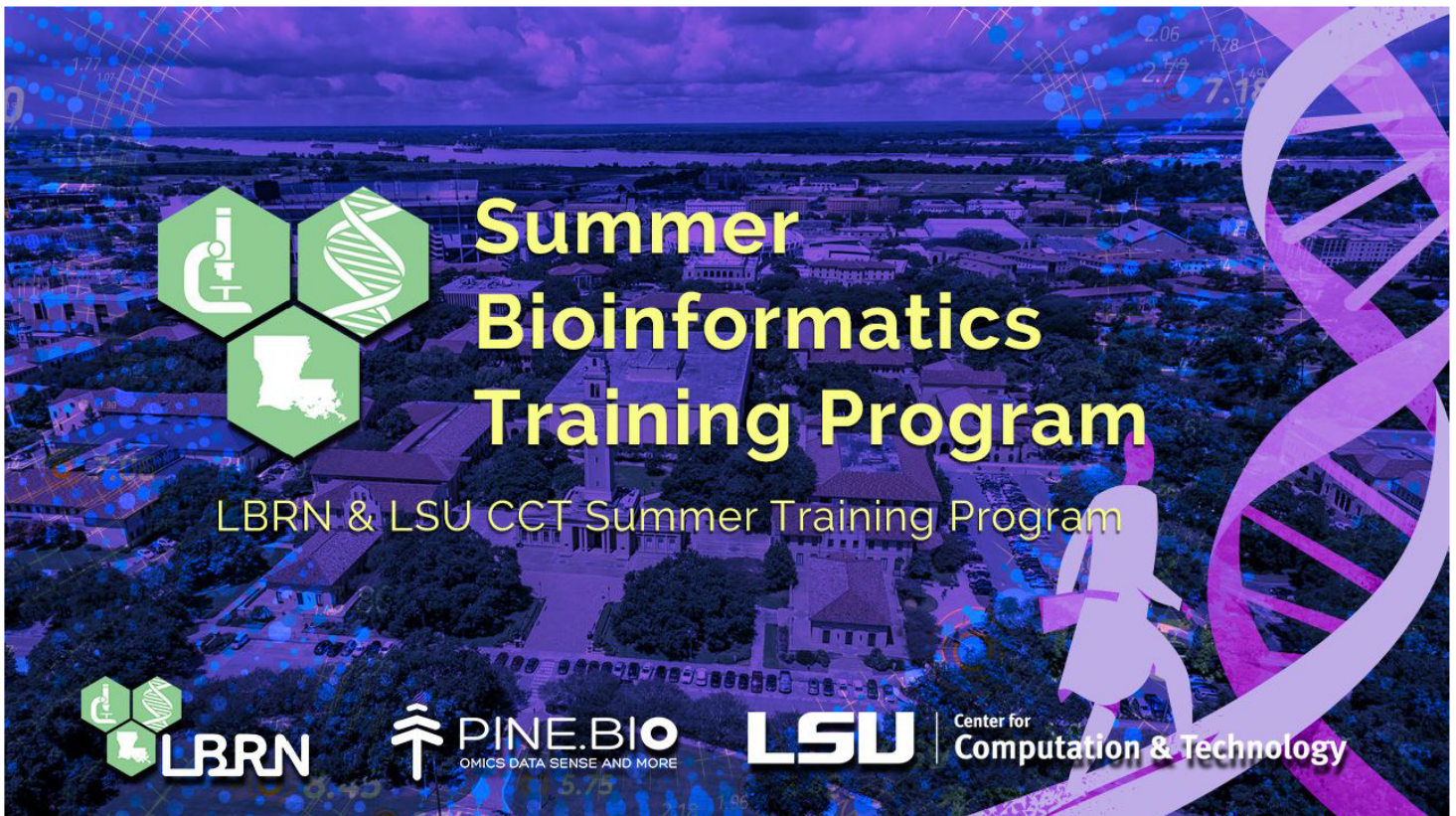


## News, Opportunities and Deadlines for June 2019

### LBRN Summer Bioinformatics Training Program



The Louisiana Biomedical Research Network (LBRN) is happy to announce registration for the second Summer Bioinformatics Training Program. The Summer Bioinformatics Training Program will focus on transcriptomics data and will support an independent or team project with workshops, online materials and a hackathon. The topics we will cover include finding and evaluating Next Generation Sequencing data, data acquisition, quality control, processing, differential analysis and interpretation.

Opening session: July 1, 2019 (Monday, 10AM - 1PM)

Review Session: July 22, 2019 (Monday, 10 AM - 1PM)

ackathon: August 9, 2019 (Friday, 10AM - 1PM)

After completing the workshop participants will be able to:

1. **Transfer sequencing data onto a server**
2. **Perform quality control on raw sequencing data**
3. **Pre-process and filter sequencing reads for further analysis**
4. **Map sequencing reads to the relevant reference genome**
5. **Quantify transcript abundance and estimate transcript expression**
6. **Perform statistical analysis to identify differential expression among samples, conditions or treatments**

The entire summer program will be delivered remotely including all sessions and review workshops. The program costs will be covered by LBRN for LBRN PUI campuses for faculty, postdoctoral fellows and students. All supported registrations subject to approval. Limited number of applicants will be accepted on a first come first serve basis. Interested parties need to register at the following website as soon as possible. Registration:

<https://redcap.lbrn.lsu.edu/surveys/?s=KKFPYDY33F>

Registration deadline: June 24, 2019



Register

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## **LBRN Summer Research Experiences for Undergraduate and Graduate students**

The Louisiana Biomedical Research Network (LBRN) sponsors a summer research program in support of undergraduate students, graduate students and faculty from any Louisiana institute. We offer qualified participants the opportunity to work in established research laboratories at Louisiana State University, LSU Health Sciences Center in New Orleans, LSU Health Sciences Center in

Shreveport, Tulane Medical Center, or Tulane National Primate Research Center. The goal of our program and funding is to support biomedical research through an increase in graduate school admissions in these scientific fields and make Louisiana researchers more competitive in obtaining federal funding for research.

The schedule for undergraduate students covers nine weeks during the summer; the summer program dates are May 20 - July 26, 2019. The schedule for graduate students and faculty is more flexible. It is expected that an agreement be reached between the program participant (undergraduate student, graduate student or funded faculty) and the intended mentor. It is expected that the agreement to mentor an LBRN participant is a mutual one between the intended mentor and the funded participant.



The aim of this network is to enhance the quality of biomedical research conducted throughout the state of Louisiana by increasing access to state of the art research infrastructure.

### What do students say about the LBRN program?

- Overall great view into the research world that is not given at my home institution.
- Gaining research experience and developing new friendships.
- Learning techniques in lab because that will be something I take with me forever.
- It gives students an opportunity to work in a research lab and it also allows them to determine what career path to follow.
- I've learned so much about research. My mentor has been very effective in delivering post-grad information.
- My research experience has reinforced my plans for the future.

### Program Date

May 20 - July 26, 2019



### Awards

- Undergraduate and Graduate students will receive support of \$4,000 and \$6,000 respectively
- Housing is provided, if needed

### Application Deadline

Friday, February 11, 2019

If you would like to know more about this program, please go to Research Programs at: <https://lbrn.lsu.edu/summer-research-program.html>

If you have any questions, please contact **Alexis M. White** at [lbrn@lsu.edu](mailto:lbrn@lsu.edu)

Louisiana Biomedical Research Network is supported by an Institutional Development Award (IDeA) from the National Institute of General Medical Sciences of the National Institutes of Health grant number 5P20 GM103424-15, 3P20 GM103424-1551 and the Louisiana Board of Regents for the purpose of improving the competitiveness of Louisiana biomedical researchers.



# LBRN

## Louisiana Biomedical Research Network

### Summer Research Program for Undergraduate and Graduate students

May 20—July 26, 2019



**Phone:** 225-578-9683  
**Email:** [LBRN@lsu.edu](mailto:LBRN@lsu.edu)  
**Web:** [LBRN.lsu.edu](http://LBRN.lsu.edu)



### Who are we?

Louisiana Biomedical Research Network was established in September 2001 with funding by NIH, NCRR's IDeA Networks of Biomedical Research Excellence Program (Grant P20RR016456) and National Institute of General Medical Sciences (Grant P20GM103424) and Louisiana Board of Regents, the LBRN program is committed to raising the research competitiveness of Louisiana researchers.

### What do we do?

Louisiana State University A&M, in conjunction with the NIH/NIGM, is hosting research opportunities for eligible faculty, graduate and undergraduate students in Bioinformatics, Computational Biology, and Cell and Molecular Biology. Our focus is providing research opportunities to faculty and students from primarily undergraduate institutes in the state of Louisiana. Those interested in working on projects at the interface between the biological and computational sciences are encouraged to apply to this program. Women and members of under-represented minorities are urged to apply.

### Who can apply?

- Full-time undergraduate and graduate students with at least a 3.0 GPA.
- Students enrolled in a College or University in Louisiana (excluding LSU and Tulane).
- Students with research interests in the Biological or Computational Sciences.
- Students who have to completed the appropriate science introductory courses.
- Students interested in attending graduate, medical or professional schools.

### What do you get out of the LBRN program?

- Hands on research experience in the laboratory and/or the field.
- Experience using different types of research instruments and techniques.
- Meet other young investigators from across the state and the country.
- Exposure to a wide range of ongoing research projects.
- Tips on scientific writing and presentation.



### Where will research be done?

- Work will be done in established laboratories at LSU School of Veterinary Science, Pennington Biomedical Research Center, LSUHSC in New Orleans or Shreveport, Tulane Medical Center and Tulane National Primate Research Center. Please contact the LBRN Program Office for details.

### Research Forum

The program culminates in a professional poster session (Summer Undergraduate Research Forum, SURF) where each participant presents the results of their summer project along with participants from multiple REU programs.



### Student Scholar Program

Eligible students will have the opportunity to continue their mentored research during the academic year.

### Future Plans

Participants are encouraged to attend local or regional science meetings to present their research.

### Mailing address

Louisiana Biomedical Research Network  
School of Veterinary Medicine  
Louisiana State University  
VMED 3110, Baton Rouge, LA 70803

## Finalists of the 4th Annual Regional Scholars Forum

Congratulations Prerana Ramesh! She won the Undergraduate Poster Presentation award at the 2019 LSUS Student Scholars Forum using her **LBRN 2018 summer research poster**.

SHREVEPORT, LA- The 4th Annual LSUS Regional Scholars Forum was held on March 15, 2019 from 8 am to 4 pm at the LSUS University Center. The event allowed undergraduate and graduate students from all disciplines to present original research as poster presentations or oral presentations. Each year, the Regional Scholars Forum is open to university students and their mentors from Louisiana, Arkansas, Mississippi, Texas, and Oklahoma.

Dr. Pierre Goovaerts, renowned expert on Medical Geography and Geostatistics, was the plenary

speaker for this year's forum. Students from 18 different universities participated, combining for 40 posters and 32 oral presentations. Prizes ranged from \$100 for winners and \$50 for runners-up, and were donated by the LSUS Foundation in each of the following categories: Graduate Poster, Graduate Oral, Undergraduate Poster, and Undergraduate Oral.

- Undergraduate Poster Presentation Winner
- Name: Prerana Ramesh
- University: LSU Shreveport
- Effects of Fusarochromanone on Mitochondrial Function in Squamous Cell Carcinoma and Salivary Gland Carcinoma



## Webinar for Postdoctoral Research Associate Training (PRAT) Program Applicants

**Wednesday, June 19, 2:00-3:00 p.m. ET**

PRAT is a competitive 3-year fellowship program that prepares trainees for leadership positions in biomedical careers. Training includes a mentored laboratory research experience and intensive career and leadership development activities. PRAT fellows conduct research in laboratories in the [NIH Intramural Research Program](#) (IRP) in basic biomedical research areas within the [NIGMS mission](#). These areas include, but are not limited to, biological chemistry, biophysics, bioinformatics, cellular and molecular biology, computational biosciences, developmental biology, genetics, immunology, neuroscience, pharmacology, physiology, and technology development.

Graduate students considering postdoctoral research opportunities at NIH, or current [NIH Intramural Research Training Award](#) postdoctoral fellows who started no earlier than July 1, 2018, are eligible to apply. All applications require connecting with an investigator in the NIH IRP in

advance of writing the application.

To access the webinar, visit the [WebEx meeting page](#) and enter the meeting number (access code) 626 200 454 and the password nigms. You can also attend by phone by calling 1-650-479-3208 from anywhere in the United States or Canada and entering the meeting number. Slides will be posted on the [PRAT website](#) following the event.

#### **NIGMS Staff and PRAT Fellows Participating in June 19 Webinar:**

- Kenneth Gibbs, Director, PRAT Program
- Mercedes Rubio, Program Officer, PRAT Program
- Miriam Bocarsly, PRAT Fellow
- Tommy Vo, PRAT Fellow
- Sofia Beas, PRAT Fellow

The NIGMS PRAT Program is a competitive three-year postdoctoral fellowship program that provides high quality research training in the basic biomedical sciences in [NIH intramural research laboratories](#). The program prepares trainees for leadership positions in biomedical careers through mentored laboratory research, networking, and intensive career and leadership development activities.

The program places special emphasis on training fellows in all areas that are within the [NIGMS mission](#), including but not limited to biological chemistry, biophysics, bioinformatics, cellular and molecular biology, computational biosciences, developmental biology, genetics, immunology, neuroscience, pharmacology, physiology, and technology development. The PRAT program includes professional development activities tailored to the PRAT fellows, such as a monthly seminar series featuring presentations by current PRAT fellows and outside speakers whom the fellows have invited, and training sessions focused on grant-writing, career planning, communications skills, and leadership skills.

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**2019 Southeast Regional IDeA Conference**



The **2019 Southeast Regional IDeA Conference** is scheduled for November 6-8, 2019 in Louisville, Kentucky at the Galt House Hotel. We encourage you to attend. This will include various workshops, oral and poster presentation sessions from COBRE, INBRE and IDeA-CTR programs in the southeast region, as well as presentations from NIGMS Program Officials. The website link for more information is: <https://seidea19.com/>.

#### **DEADLINES:**

Conference Early Registration deadline: August 9, 2019

Conference Registration deadline: September 27, 2019

Hotel Registration deadline: September 27, 2019

**ABSTRACTS:** Abstract submission is not yet open. The deadline to submit an abstract is August 9, 2019.

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## **HPC Training: Introduction to Linux**

The first HPC training will be held on Wednesday, June 12 at 9:00 AM in 307 Frey Computing Service Center and broadcast through WebEx for remote users.

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

#### **Wednesday, June 12, 2019: 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 provided at HPC website), Mac OSX and Windows with Cygwin and Bash installed.

Next two HPC Trainings:

**Wednesday, June 19, 2019: HPC User Environment 1, Job Management with PBS**

**Wednesday, June 26, 2019: HPC User Environment 2, Job Management with PBS**

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 June 19 and June 26.

Prerequisite: Familiarity with Linux/Unix commands and editors

Please visit <http://www.hpc.lsu.edu/training/tutorials.php> for more details and register using the link provided.

Users who plan on joining remotely will be provided with a WebEx Link in their registration confirmation email. Please see the system requirements at <https://grok.lsu.edu/Categories.aspx?parentCategoryId=3381>.

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## 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. More details can be found in the attached CFP.

[More details can be found in the attached CFP.](#)

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# BBC Core Educational Resource



The BBC Core provides introductory educational lecture series on informatics topics that are recorded and streamed. Prior offerings that are available for on demand streaming include;

- An Introduction to Computers and Informatics in the Health Sciences

<http://metagenomics.lsuhsu.edu/lectures/introinformatics/>

- An Introduction to Microbial Community Sequencing and Analysis

<http://metagenomics.lsuhsu.edu/lectures/intromicrobiota/>

On demand streaming links are available by each lecture along with downloadable lecture slides.

## LONI HPC Allocation for LBRN



We are happy to announce that High Performance Computing allocation for supporting LBRN/BBC Core community from the LONI HPC system.

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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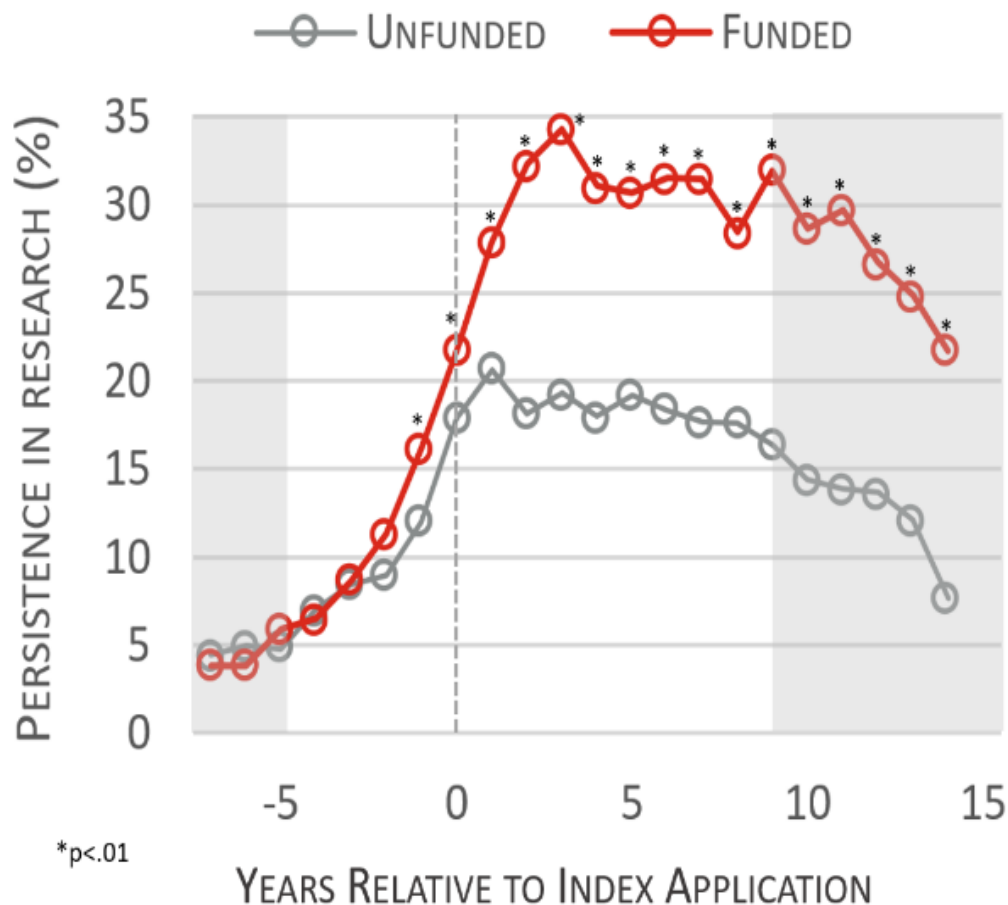
# NIH Extramural Nexus (NIH/OD)



## • Outcomes for NIH Loan Repayment Program Awardees: A Preliminary Look

Since 1988, the [NIH Loan Repayment Programs \(LRPs\)](#) have been successful in recruiting and retaining early stage investigators into promising biomedical and behavioral research careers. As [I have written about before](#), one of the most significant benefits of these programs is that NIH can repay up to \$35,000 in [educational loans](#) per year for these talented professionals, which helps alleviate an often cited barrier to entering the biomedical research workforce. Since their inception, NIH LRPs have funded more than 25,000 new and renewal awards totaling more than \$950 million (see more data on the [LRP Dashboard](#)).

Repaying educational debt is one thing, but what other benefits might these programs provide?







[...Continue reading](#)

## • NIH Inclusion Data by Research and Disease Category Now Available

For over two decades, NIH has required researchers to include women, members of racial and ethnic minority groups, and children in their work absent an acceptable scientific or ethical rationale for their exclusion. Now, for the first time, selected inclusion data on sex/gender and race/ethnicity are publicly available disaggregated for various research, condition, and disease areas.

This reporting step continues our move towards enhancing transparency and accountability of the research we support. As part of implementing the 21<sup>st</sup> Century Cures Act and responding to [recommendations from the Government Accountability Office](#), public reporting by NIH Research, Condition, and Disease Classification (RCDC) category helps ensure that women and minorities are appropriately included in biomedical research across a diverse array of diseases and conditions. At a recent meeting of the [NIH Advisory Committee on Research on Women’s Health](#) (go to 02:45), where this announcement was made, we also reported that in Fiscal Year (FY) 2018 over 52% of participants in NIH-supported clinical research were women, while about 29% of participants were members of racial minority groups, and 9% were ethnic minorities.

RCDC Category 	Median % Female Participants 	Median % Male Participants 	Median % Participants of Unknown or Unreported Sex/Gender 
<a href="#">ALS</a> >	45%	55%	<1%
<a href="#">Acquired Cognitive Impairment</a> >	55%	44%	<1%
<a href="#">Acute Respiratory Distress Syndrome</a> >	45%	55%	<1%
<a href="#">Adolescent Sexual Activity</a> >	52%	48%	<1%
<a href="#">Agent Orange &amp; Dioxin</a> >	76%	24%	<1%

[...Continue reading](#)

## • Where to Post Informed Consent Forms for NIH-Funded Clinical Trials

The revised Common Rule requires that an IRB-approved version of an informed consent form be posted on a public federal website for all NIH-funded clinical trials. This must be done after



enrollment ends and within 60 days of the last study visit. See Guide Notice [NOT-OD-19-050](#).

NIH has just released [additional guidance](#) regarding which federal websites allow for the posting of these informed consent forms.

### **ClinicalTrials.gov**

- You can upload an IRB-approved version of the form to the [ClinicalTrials.gov](#) study record. Note that ClinicalTrials.gov does not accept non-English documents.
- Be sure to follow the Protocol Registration and Results System (PRS) instructions for document uploads at [https://prsinfo.clinicaltrials.gov/results\\_definitions.html#DocumentUpload](https://prsinfo.clinicaltrials.gov/results_definitions.html#DocumentUpload)

### **Regulations.gov**

- You can upload an IRB-approved version of the form to [Regulations.gov](#) Docket ID: HHS-OPHS-2018-0021.
- Instructions for uploading can be found on the OHRP website at <https://www.hhs.gov/ohrp/regulations-and-policy/informed-consent-posting/index.html>
- Be sure to maintain a copy of your Regulations.gov receipt.

## **• Explore xTRACT Before Its Required Use in FY 2020**

There is much to explore on xTRACT, an electronic system for creating research training data table and tracking trainee outcomes that has been available on a pilot basis in the eRA Commons since 2015. In the xTRACT system, users can:

- access data already available in the eRA Commons to pre-populate their tables with information;
- retrieve publication information from PubMed;
- upload selected training-related data from their institutions to the xTRACT system in batches; and
- copy data already entered for one application or progress report into another.

Beginning with RPPRs due on or after October 1, 2019 (FY 2020), recipients must use the xTRACT system to create the required training tables for submission with NIH and AHRQ T15, T32, T90/R90, and TL1 progress reports. While it is not mandatory to use xTRACT for new and renewal applications for the specified types of training grants, it may be required in future years.

Gain experience with xTRACT before it is required with helpful resources such as the user guide, instructional videos, and FAQs, available on the [eRA website](#). For more details on its required use

and implementation, see the full [Guide Notice](#).

## 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 GM103424-15 and 3 P20 GM103424-15S1.

- 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 P20GM12345.*

- 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 (P20GM12345)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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