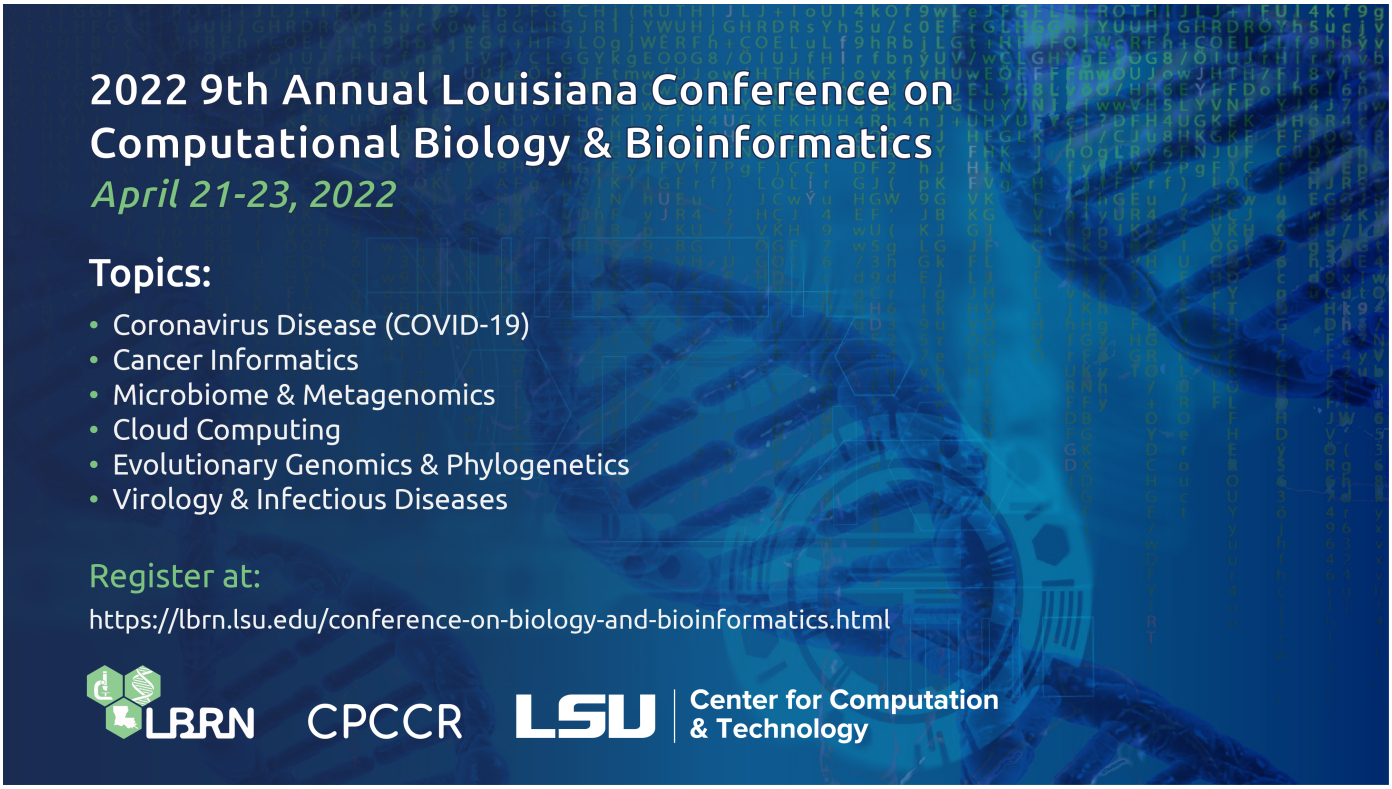
News, Opportunities and Deadlines for April 2022

Report: 2022 9th Annual Louisiana Conference on Computational Biology & Bioinformatics

The 2022 9th Annual Louisiana Conference on Computational Biology & Bioinformatics was held on April 21-23, 2022 with 195 registrations and a virtual format with 22 submitted abstracts for posters from our Project PI's, Graduate, and Undergraduate students from our partner and outreach campuses that are part of the LBRN system throughout the state of Louisiana. The conference aims to expose Louisiana to the cutting edge of Computational Biology, Bioinformatics Research and Applications while also providing a platform for exchange of information and technical knowledge among Louisiana-based scientists involved in different aspects of computational biology & bioinformatics. The conference is co-sponsored by the Louisiana Biomedical Research Network (LBRN)**,** The Center for Lung Biology and Disease (CLBD)**,** the **Center for PreClinical Cancer Research (CPCCR)**, and the **LSU Center for Computation & Technology (CCT)**.

Topics included:

- Coronavirus Disease (COVID-19)
- Cancer Informatics
- Microbiome and Metagenomics
- Cloud Computing
- Evolutionary Genomics and Phylogenetics
- Virology and Infectious Diseases



Media:

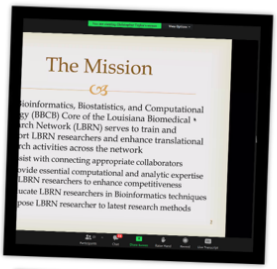
Nearly all the talks will be available online on the event media page available here to access at your convenience: https://lbrn.lsu.edu/2022-LCCBB-Media.html

Event Images:


LA Computational Biology and Bioinformatics Conference
Basel Abuaita Ph.D.
Louisiana State University School of Veterinary Medicine
Department of Pathological Sciences (PBS)
April 21, 2022

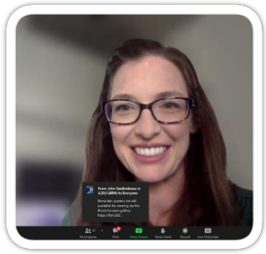

Research Support
LSU BIOMED
PINE.BIO
Gathering Requirements
Listening and Understanding your project
Expert Team
Standard Processing Outputs
Standard and predictable pricing
Algorithm Development
Answering Custom Research Questions
Flexibility and Stability
Infrastructure Support
Publication Support
Reproducible research and support
TAUBER


Lakshmi Kumar Matukumalli
Program Director
Division for Research Capacity Building, NIGMS


The Mission
Bioinformatics, Biostatistics, and Computational
(BBCB) Core of the Louisiana Biomedical
rch Network (LBRN) serves to train and
rt LBRN researchers and enhance translational
rch activities across the network
ist with connecting appropriate collaborators
vide essential computational and analytic expertise
LBRN researchers to enhance competitiveness
ucate LBRN researchers in Bioinformatics techniques
pose LBRN researcher to latest research methods


LSU
Results, Discussion, and Conclusion
Acknowledgements
302
18
240
Classic Venn Diagram


Experiment Results
Ablation Analysis

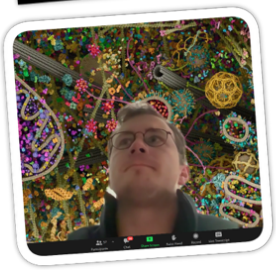



LBRN

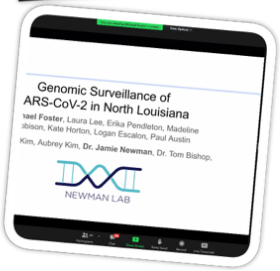

animal viruses don't replicate on human cells


LSU
Social Research & Evaluation Center
Timothy T. Reiling, Ph.D.
Research Associate


tion matters for alignment




National IDeA Symposium of Biomedical Research Excellence
October 5-7, 2022 Virtual Conference
Division of Biotechnology and Molecular Medicine, LSU School of Veterinary Medicine
U13GM143856, Konstantin Kousoulas, PI
NAIPI
LBRN


Genomic Surveillance of
ARS-CoV-2 in North Louisiana
Dr. Jamie Newman, Dr. Tom Bishop,
NEWMAN LAB

Poster Presentations:

- Participants exhibited 22 posters through the iPosterSessions platform, which was especially possible for presentations, conversations and Q&A through Zoom breakout rooms where all participants could engage directly with the poster presenters. You can explore and search these posters and contact the authors the platform gallery we utilized for our meeting: https://lbrn2022lccbb-lsu.ipostersessions.com/Default.aspx?s=LCCBB_2022_gallery

2022 9th Annual Louisiana Conference on Computational Biology & Bioinformatics

Browse Keywords | Presenter Type | Browse Institutions | FREE TEXT SEARCH | RESET

Rijal, Aasish
University of New Orleans
Md Wasi Ul Kabir, Thomas Soniat, Md Tamjidul Hoque
Room 18
A MACHINE LEARNING APPROACH FOR OYSTER DISEASE PREDICTION

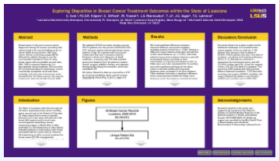
Mahdavian, Elahe
Louisiana State University Shreveport
Room 12
AN INTERDISCIPLINARY COURSE ON COMPUTER-AIDED DRUG DISCOVERY TO BROADEN STUDENT PARTICIPATION IN SCIENTIFIC RESEARCH

Pena Marquez, Luis
Louisiana State University Shreveport
Subhajit Chakrabarty
Room 16
AUTOMATIC SEGMENTATION AND CALCULATION OF THE MONOCYTE MONOLAYER ASSAY INDEX USING DEEP LEARNING

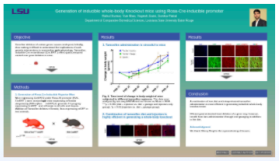
Provenzano, Stephanie
Louisiana State University Shreveport
Stephanie Provenzano1, Ryan Miller1, Phillip Kilgore2, Urska Cvek2, Elahe Mahdavian1, Vonny Salim1
Room 17
BIOINFORMATIC APPROACHES IN ELUCIDATION OF THE EVOLUTION AND FUNCTIONAL CHARACTERIZATION OF NATURAL PRODUCT METHYLTRANSFERASES

Kabir, Md Wasi Ul
University of New Orleans
Md Tamjidul Hoque
Room 8
DISPREDICT3.0: INTRINSICALLY DISORDERED PROTEIN PREDICTION ENHANCED WITH PROTEIN LANGUAGE MODEL

Clifford, Eric
Louisiana State University Shreveport
Phillip Kilgore, Urska Cvek, Marjan Trutschl, Nadejda Korneeva, Steven A. Conrad, Thomas Arnold
Room 3
DRUG SCREEN TRENDS IN EMERGENCY ROOMS AMONG CHILDBEARING-AGED FEMALES

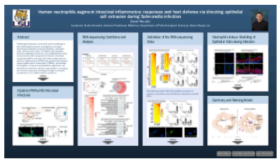


Cvek, Urska
Louisiana State University Shreveport
Urska Cvek, Phillip Kilgore, Eric Clifford, Marjan Trutschl, Tingting Li, Lauren S. Maniscalco, Jane Gulick Sugar, Terry C. Lairmore
Room 4
EXPLORING DISPARITIES IN BREAST CANCER TREATMENT OUTCOMES WITHIN THE STATE OF LOUISIANA

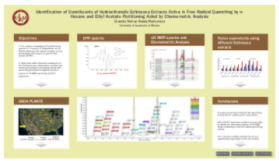


Kumar, Rahul
Louisiana State University Baton Rouge
Rahul Kumar, Yun Mao, Yogesh Saini, Sonika Patial
Room 10
GENERATION OF INDUCIBLE WHOLE-BODY KNOCKOUT MICE USING ROSA-CRE-INDUCIBLE PROMOTER

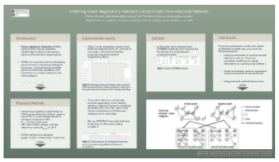
Foster, Michael
Louisiana Tech University
Laura Lee, Paul Austin, Madeline Robison, Lescia Valmond, Paul Kim, Audrey Kim, Tom Bishop, Jamie Newman
Room 5
GENOMIC SURVEILLANCE OF SARS-COV-2 IN NORTH LOUISIANA



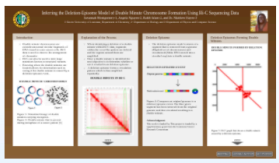
Abuaita, Basel
Louisiana State University Baton Rouge
Anna-Lisa E. Lawrence, Ryan P. Berger, David R. Hill, Sha Huang, Veda K. Yadagiri, Brooke Bons, Courtney Fields, Gautam J. Sule, Jason S. Knight, Christiane E. Wobus, Jason R. Spence, Vincent B. Young, Mary X. O'Riordan
Room 1
HUMAN NEUTROPHILS AUGMENT INTESTINAL INFLAMMATORY RESPONSES AND HOST DEFENSE VIA DIRECTING EPITHELIAL CELL EXTRUSION DURING SALMONELLA INFECTION



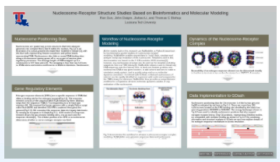
Muthumula, Chandra Mohan Reddy
University of Louisiana at Monroe
C. MUTHUMULA1, S. NAGUMALLI1, O. C. MCGEHEE1, H. A. HUSSIN1, J. D. CARSTENS2, C. V. LANDINGHAM3, K. A. El SAYED1, and S. A. MEYER1.
Room 15
IDENTIFICATION OF CONSTITUENTS OF HYDROETHANOLIC ECHINACEA EXTRACTS ACTIVE IN FREE RADICAL QUENCHING BY N-HEXANE AND ETHYL ACETATE PARTITIONING AIDED BY CHEMOMETRIC ANALYSIS



Alawad, Duaa
University of New Orleans
Ataur Katebi a.katebi@neu.edu Md Tamjidul Hoque thoque@uno.edu
Room 2
INFERRING GENE REGULATORY NETWORK USING GRAPH TRANSFORMER SELF-ATTENTION NETWORK



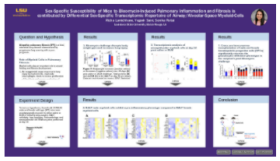
Montgomery, Savannah
Xavier University of Louisiana
Dr. Matthew Hayes, Angela Nguyen, Rahib Islam
Room 13
INFERRING THE DELETION-EPISOME MODEL OF DOUBLE MINUTE CHROMOSOME FORMATION USING HI-C SEQUENCING DATA



Sun, Ran
Louisiana Tech University
Thomas C. Bishop, Jiahao Li, John Daigre
Room 20
NUCLEOSOME-RECEPTOR STRUCTURE STUDIES BASED ON BIOINFORMATICS AND MOLECULAR MODELING

Howladar, Nayan
University of New Orleans
Collaborators: Md Wasi Ul Kabir, Advisor: Dr. Tamjidul Hoque
Room 7
PPILC: PROTEIN-PROTEIN INTERACTION PREDICTION FROM LANGUAGE OF BIOLOGICAL CODING

Gaines, Deriesha
Louisiana Tech University
Elia Brodsky2, Harpreet Kaur2, Gergana G. Nestorova3
Room 6
RNA CAPTURE PIN TECHNOLOGY: ASSESSMENT OF MRNA ENRICHMENT VIA HIGH THROUGHPUT RNA SEQ



Lamichhane, Richa
Louisiana State University Baton Rouge
Richa Lamichhane1, Yogesh Saini1, and Sonika Patial1, †
Room 11
SEX-SPECIFIC SUSCEPTIBILITY OF MICE TO BLEOMYCIN-INDUCED PULMONARY INFLAMMATION AND FIBROSIS IS CONTRIBUTED BY DIFFERENTIAL SEX-SPECIFIC TRANSCRIPTOMIC REPERTOIRE OF AIRWAY/ALVEOLAR-SPACE MYELOID-CELLS

Mullins, Derrick
Xavier University of Louisiana
Zoe Mitchell, Matthew Hayes
Room 14
SIMULATING DOUBLE MINUTE CHROMOSOME AND PHYLOGENETIC TREE EVOLUTION USING JAVA

Kilgore, Phillip
Louisiana State University Shreveport
Prerana Ramesh, Meher Sindhoora Mavuram, Kelli Morgan, James Morris, Qiang Cai, Phillip Kilgore, Urska Cvek, Marjan Trutschl, Steven Alexander
Room 9
STABILITY (SYMPTOMATIC REVIEW DURING BIOLOGIC THERAPY) DURING INFLAMMATORY BOWEL DISEASE PATIENT INFUSION THERAPY VISITS: A RETROSPECTIVE REVIEW - 2019-22.

Wilson, Anna
Southern University and A&M College
Room 22
TIME-SERIES TRANSCRIPTOME ANALYSIS OF ENCAPSULATED VS EMBRYO BODY MOUSE ES CELL CULTURES TREATED WITH RETINOIC ACID

Shah, Krishna
University of New Orleans
Duaa Alawad, Md Wasi Ul Kabir, Md Tamjidul Hoque
Room 19
USING LANGUAGE-BASED FEATURES FOR NCRNA-PROTEIN INTERACTION PREDICTION

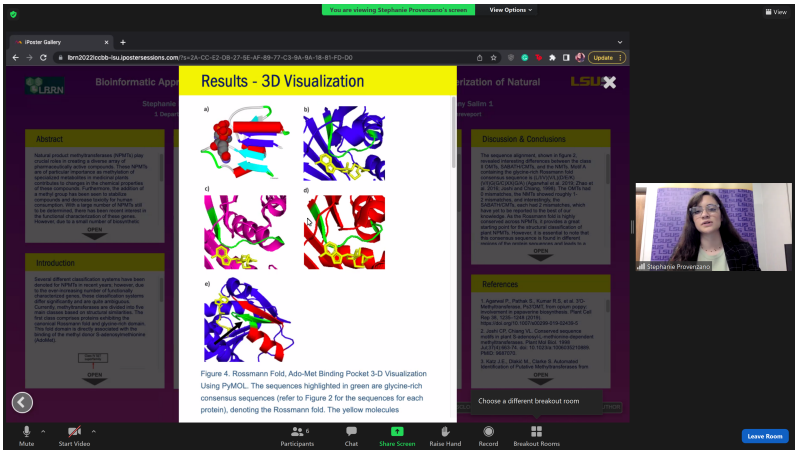
Trutschl, Marjan
Louisiana State University Shreveport
Marjan Trutschl, Phillip Kilgore, Eric Clifford, Billy Tran, Adesewa Akande, Hyung Nam, Urska Cvek
Room 21
UTILIZING SELF-ORGANIZING MAPS TO IMPROVE INFORMATION DELIVERY OF VENN DIAGRAMS

Poster Presentation Awards:

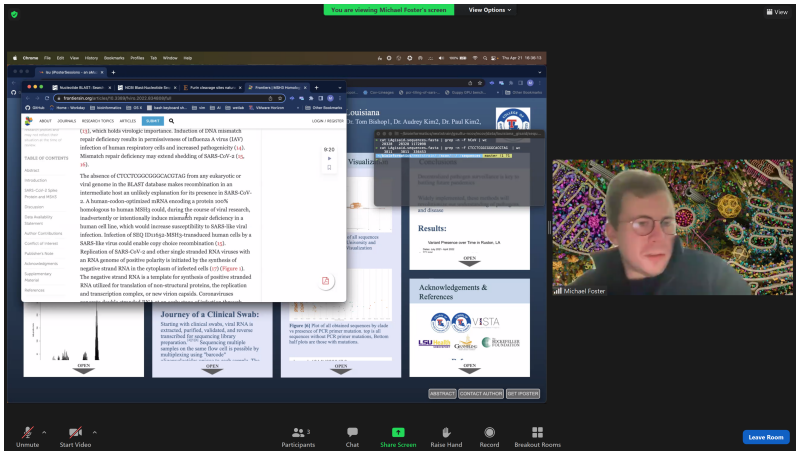
Awards were made to graduate and undergraduate LBRN project affiliated and PUI campus poster presentation participants. You can see their posters on the website.

Undergraduate Student Presentation Awards

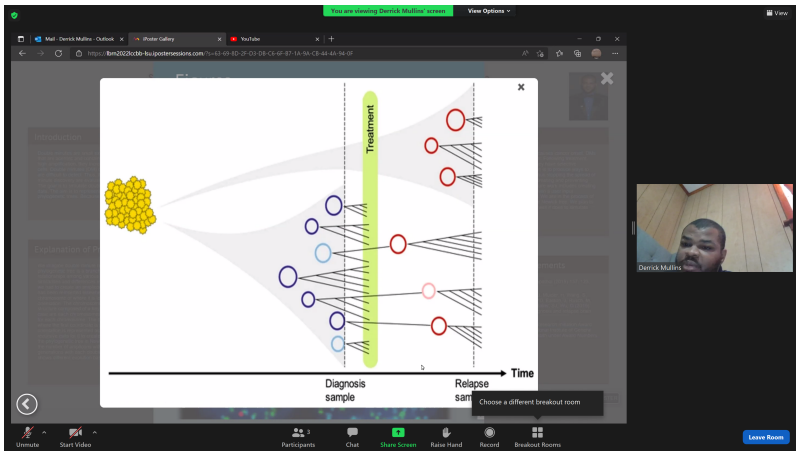
- 1st: Ms. Stephanie Provenzano : *Bioinformatic Approaches in Elucidation of the Evolution and Functional Characterization of Natural Product Methyltransferases*



- 2nd : Mr. Michael Foster : *Genomic Surveillance of SARS-CoV-2 in North Louisiana*

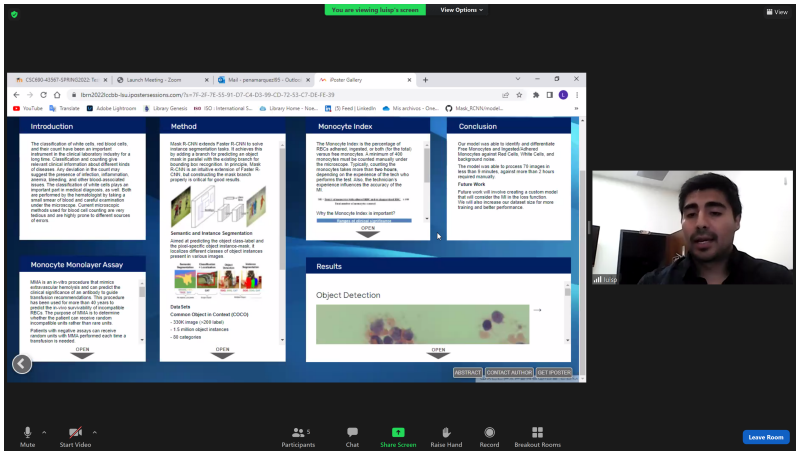


- 3rd : Mr. Derrick Mullins : *Simulating Double Minute Chromosome and Phylogenetic Tree Evolution using Java*

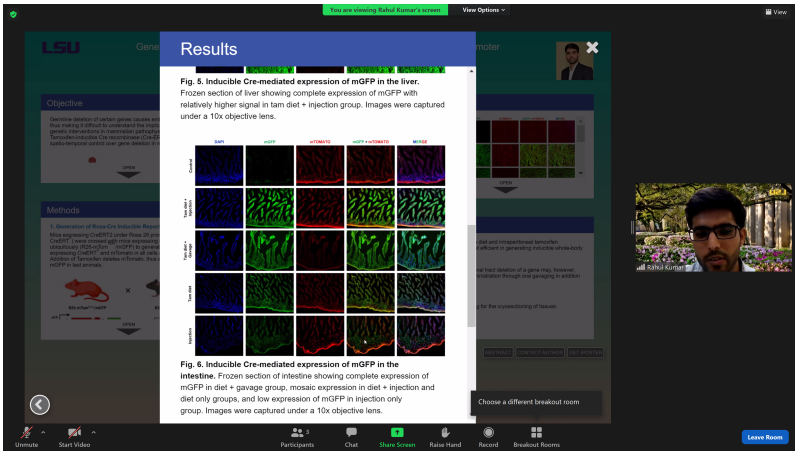


Graduate Student Presentation Awards

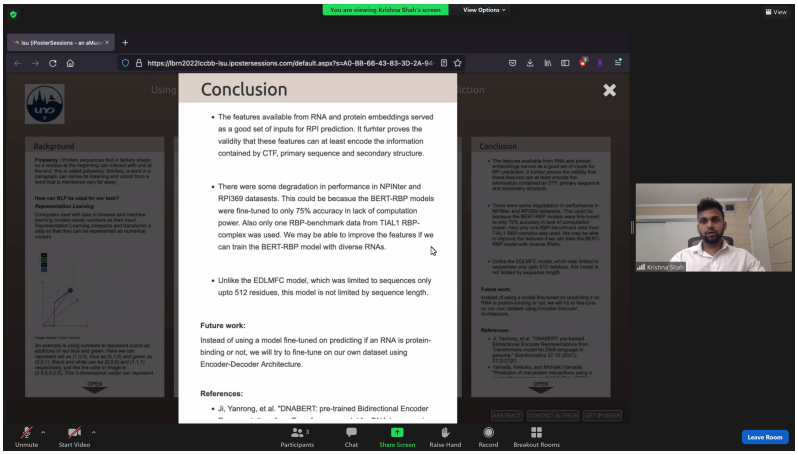
- 1st : Mr. Luis Pena Marquez : *Automatic segmentation and calculation of the Monocyte Monolayer Assay Index using deep learning*



- 2nd : Dr. Rahul Kumar : *Generation of inducible whole-body Knockout mice using Rosa-Cre-inducible promoter*



- 2nd : Mr. Krishna Shah : *Using Language-based Features for ncRNA-protein Interaction Prediction*



LBRN behind the scenes on this production: ALCCBB 2022 with Dr. Ramesh Subramanian.

5th LBRN-LONI Scientific Computing Bootcamp

Event Date: May 24-27, May 30-31, 2022

Event Time: 9am to 5pm

Deadline: Deadline May 22, 2022, 4:30pm

Location: Zoom Online

Scientific computing is becoming more ubiquitous for all types of research areas. Skills and knowledge that are necessary to take full advantage of the power of computing, however, are often inadequately present in both curricular and extracurricular training. The purpose of this workshop is, by both presentation and hands-on experiences, to help attendants understand the usage of popular scientific computing programming tools and prepare for their future computational study and research career.

Schedule (All sessions below include a hands-on session)

- May 24: Overview and Introduction to R
- May 25: Intermediate R

- May 26: Introduction to Python
- May 27: Intermediate Python
- May 30: Introduction to Deep Learning, Part 1
- May 31: Introduction to Deep Learning, Part 2

Attendants can choose to attend any number of sections.

Click here for registration form

LBRN Achievement

Dr. David Mills, a professor in Biological Sciences and Biomedical Engineering, has received an award for his publication on 3D Printing Custom Bioactive and Absorbable Surgical Screws, Pins, and Bone Plates for Localized Drug Delivery.

The publication was ranked number one in the Journal of Functional Biomaterials 2021 Highly Cited Paper awards.

Along with co-authors Dr. Karthik Tappa, Dr. Udayabhanu Jammalamadaka, and Dr. Jeffery A. Weisman, Mills wrote this publication to address more patient specialized treatment.

“Most medical treatments can be described as ‘one size fits all,” Mills said. “If you have an oral absence, your dentist will prescribe a huge pill. This is to provide a systemic rather than a more focused load.”

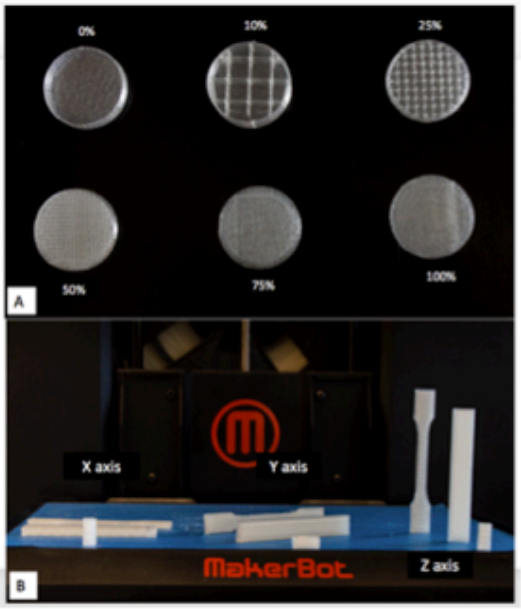


Figure 9. Printing PLA constructs with (A) different infill ratios, (B) different orientations

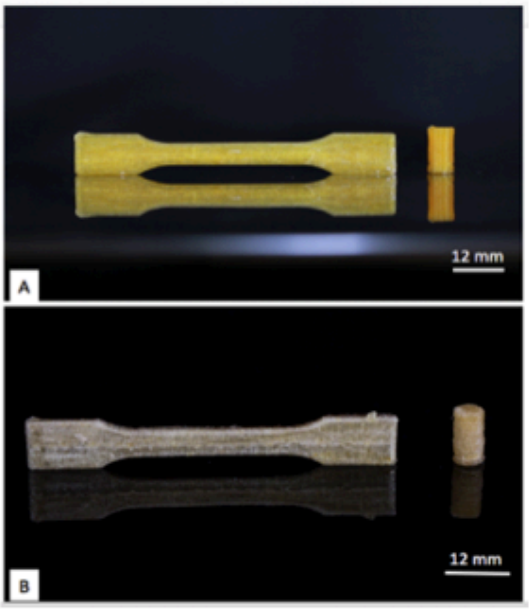


Figure 10. Printing PLA constructs. (A) MTX-PLA mechanical testing samples, (B) GS-PLA mechanical testing samples.

This patented method can provide the average person with more localized therapy that reduces any potential toxicity from systemic treatments.

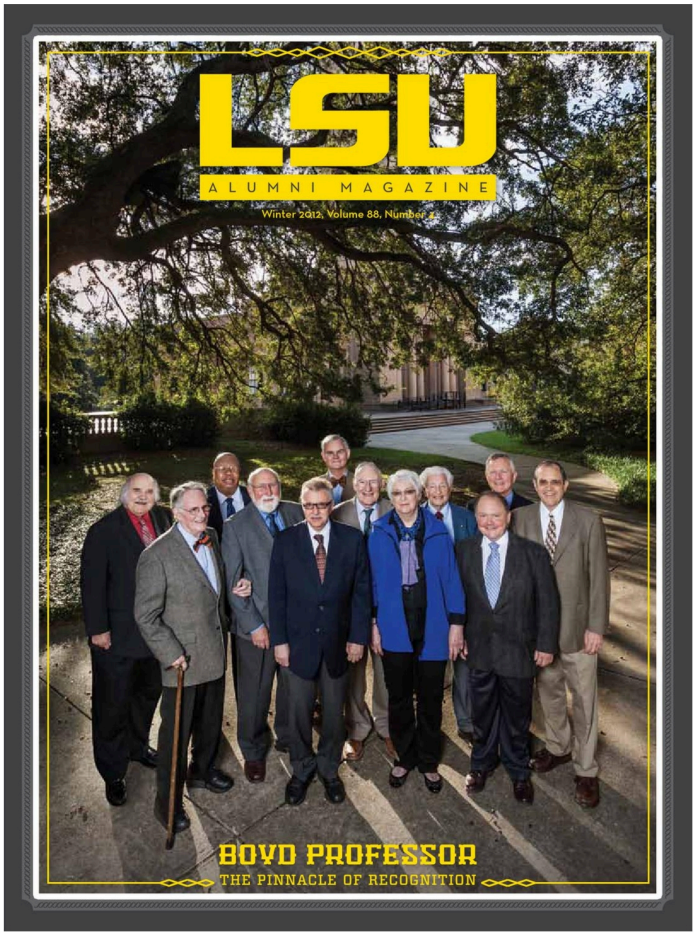
“We wanted to develop a method that would provide a customized and patient-specific treatment,” Mills said. “We call it ‘local and focal,’ providing localized therapy with just the right drug load.”

This work was supported by the Louisiana Board of Regents, the Louisiana Biomedical Research network, and a grant from C-Doctor, Center for Dental, Oral & Craniofacial Tissue & Organ Regeneration.

https://www.latech.edu/2022/04/15/dr-david-mills-receives-publication-award/

Sad Loss

It is with deep sadness and heavy heart that we inform you of the death of our colleague, mentor, former LBRN leader, and friend, Dr. Tom Klei, who passed away April 18, 2022. Tom passed away after a few weeks of a battle with cancer. We know that he was peaceful in his final moments. We will all miss him more than words can express. Tom was an amazing person that cared deeply for the School of Veterinary Medicine, LSU, and the Louisiana Biomedical Research Network for the entire state of Louisiana. He has been a mentor and friend to many of us. His quiet demeanor and support for young faculty and biomedical research were unwavering. We lost an amazing person with a remarkable impact on many people.

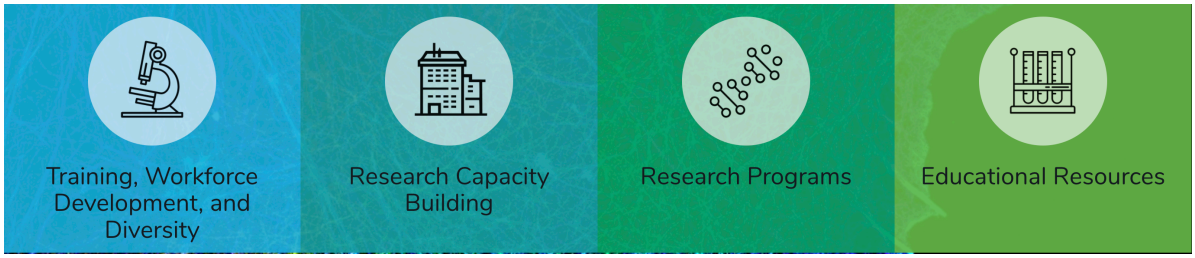


https://www.dignitymemorial.com/obituaries/baton-rouge-la/thomas-klei-10716914

NIGMS News

National Institute of General Medical Sciences

The National Institute of General Medical Sciences (NIGMS) supports basic research that increases our understanding of biological processes and lays the foundation for advances in disease diagnosis, treatment, and prevention. NIGMS-funded scientists investigate how living systems work at a range of levels—from molecules and cells to tissues and organs—in research organisms, humans, and populations. Additionally, to ensure the vitality and continued productivity of the research enterprise, NIGMS provides leadership in training the next generation of scientists, enhancing the diversity of the scientific workforce, and developing research capacity throughout the country.



NIH Funding Opportunity and/or Policy Announcements

- Research Supplements to Promote Diversity in Environmental influences on Child Health Outcomes (ECHO)- IDeA States Pediatric Clinical Trials Network (ISPCTN) (NOT-OD-22-077).
- Administrative Supplements to Recognize Excellence in Diversity, Equity, Inclusion, and Accessibility (DEIA) Mentorship (NOT-OD-22-057). See FAQs. Due date: April 7.
- RADx-UP - Social, Ethical, and Behavioral Implications (SEBI) Research on Disparities in COVID-19 Testing among Underserved and Vulnerable Populations (RFA-OD-22-005). Due date: May 02.
- RADx-UP Community-Engaged Research on Rapid SARS-CoV-2 Testing among Underserved and Vulnerable Populations (RFA-OD-22-006). Due date: May 02.
- IDeA and NARCH Programs for SARS-CoV-2 Surveillance Studies (NOT-GM-22-026). Due date: March 21.

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

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NIH Extramural Nexus

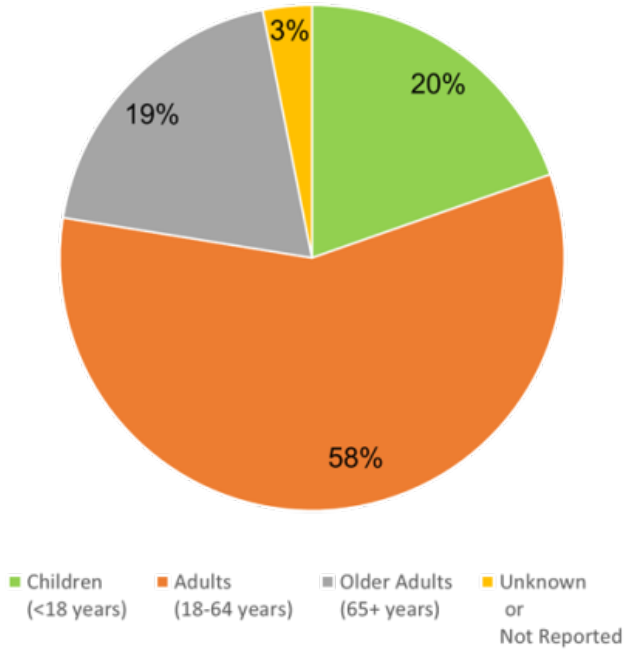
- ## FY 2021 Data on Age at Enrollment in Clinical Research Now Available by RCDC Category

The NIH Inclusion Across the Lifespan (IAL) policy, implemented in response to the 21st Century Cures Act, requires individuals of all ages (including children and older adults) be included in our supported clinical research absent compelling scientific or ethical reasons. Recipients whose projects fall under the policy have been submitting anonymized individual-level data on the sex or gender, race, ethnicity, and age of their participants when they enroll as part of their progress reports (see these posts here for more).

The Research Inclusion Statistics Report now has a table with fiscal year (FY) 2021 data on participant age at enrollment, broken down by NIH Research, Condition, and Disease Classification (RCDC) category. The data are limited to FY 2021 because the first set of funded projects that fell under the IAL policy were submitted on or after January 25, 2019. This snapshot of data, however, provides us a glimpse into the distribution of participant ages across our supported clinical research activities, and serve as a baseline for future analyses (as noted on page 28 of the current NIH-wide Strategic Plan).

Let's take a look at the general distribution of participant age across FY2021 NIH supported clinical research that reported age at enrollment. Figure 1 shows the breakdown in broad age categories. Children under 18 years represented 20%, adults between 18 and 65 represented 58%, and adults older than 65 represented 19% of clinical research participants. The age at enrollment was not known or reported for 3% of the participants.

Figure 1: Participant Enrollment in NIH Clinical Research by Broad Age Groups, FY 2021



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- ## Reducing Administrative Burden in Laboratory Animal Research: What Have We Done Recently and What's Coming…

The 21st Century Cures Act called for NIH to collaborate with the U.S. Department of Agriculture (USDA) and Food and Drug Administration (FDA) to reduce administrative burdens associated with laboratory animal research programs, while maintaining high standards of animal welfare as well as the integrity and credibility of the research. We jointly released a final report in 2019 outlining steps to accomplish this goal, and have since worked together to implement many of the recommendations. We wanted to take this opportunity today to share some of NIH's progress and how you can remain involved.

What we discuss here can also be found on the NIH Office of Laboratory Animal Welfare (OLAW) dedicated 21st Century Cures page. The site and accompanying news feed are regularly updated as new guidance, resources, and related content become available. You can also watch this recently released webinar to learn more.

Let's look at some of our activities to date:

One of our earliest efforts was harmonizing our annual reporting timeline with that of USDA, simplifying submission timelines for reporting. The reporting period is now October 1 – September 30, which aligns with the federal fiscal year and the USDA's reporting period (instead of the calendar year). The Annual Report must be submitted to OLAW by December 1.

A list of flexibilities is now available to help institutions conduct facility inspections more efficiently. These flexibilities center around who may conduct the inspections, timing of the inspections, discretion to choose announced or unannounced visits, options for remote inspections, and when and how AAALAC International site visits may be used, among others. We also have a convenient checklist that institutions may use to inspect the animal facilities that includes all the inspection requirements. The checklist is voluntary, and institutions are free to modify it to meet their specific needs.

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- ## Introducing NIH's New Scientific Data Sharing Website

I am very pleased to announce the availability of a new website on Scientific Data Sharing. Whether you are involved in an NIH-funded project and want to understand which sharing policies apply to your research and how to comply, or you are a researcher looking to access scientific data from NIH-affiliated

repositories, this site is for you.

NIH has a long-standing commitment to making the research it funds available to the public. This commitment is demonstrated through a variety of sharing policies that function to increase the transparency and availability of scientific data and resources. NIH policies expect:

- The appropriate sharing of scientific data to be maximized
- Data from large scale genomic studies to be broadly and responsibly shared
- Research tools developed with NIH funding to be made accessible to other researchers
- Unique model organisms to be made available to the scientific community
- Clinical trials to be registered and summary results reported in ClinicalTrials.gov
- Peer reviewed manuscripts to be publicly available on PubMed Central

The new website will help you navigate these policies, providing you with step-by-step guides, infographics, tools and resources to help you on your way. In the case of clinical trials and public access policies, the site provides a central access point and visibility to these policies, and links out to existing NIH sites for more information.

A key goal of the site is to serve as a central portal, providing information on both NIH-wide and NIH Institute and Center-specific sharing policies and data repositories in a way that is easily sortable and searchable. You may have seen the short video preview of the site we released last week to pique your interest. The video below provides a more extensive tour (~3 min), highlighting key features and resources.

Over the next few months, in preparation for the new NIH Data Management and Sharing Policy that goes into effect for applications due on or after January 25, 2023, we will be adding a number of resources to the site including: sample sharing plans, tips for taking data sharing into consideration when developing your budget, additional FAQs, and more. We'll be sure to let you know when these new

resources are released through the Nexus and other channels.

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- ## FY 2022 Fiscal Policies for Grant Awards: Funding Levels, Salary Limits, and Stipend Levels

NIH issued guidance for NIH Fiscal Operations for FY 2022 including the following policies:

- **FY 2022 Funding Levels:** Non-competing continuation awards made in FY 2022 will generally be issued at the commitment level indicated on the Notice of Award.
- **Ruth L. Kirschstein National Research Service Awards (NRSA):** NIH will increase NRSA stipends by approximately two percent for predocs and two percent for postdocs. The full range of stipend adjustments for FY 2022 is described in NIH Guide Notice NOT-OD-22-108.
- **Salary Limits:** The salary limitation for Executive Level II is $203,700.

For additional guidance and details, see **NOT-OD-22-105**.

- ## Changes to the Federal Financial Report (FFR) Beginning April 1, 2022 Reduce Recipient Reporting Burden

Effective April 1, 2022, NIH and AHRQ grant recipients will no longer complete the cash transaction section (lines 10a through 10c) of the SF-425 Federal Financial Report (FFR) in the HHS Payment Management System (PMS). Instead, PMS will pre-populate the cash transaction section (lines 10a through 10c) of the FFR using recipient real-time cash expenses information from PMS, and adjust recipient-reported disbursements to equal cash advance drawdowns on all non-closed sub-accounts (PMS type P).

This change simplifies the FFR reconciliation process, reduces recipient reporting burden, and supports efficient grants closeout.

For more details and contacts for questions, see the full Guide Notice.

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.

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.

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.