

The second component is a program that LBRN is supporting with Pine Bio Omics Logic Bioinformatics, Bioinformatics for Infectious Diseases, SARS-COV2 Genomic, Data Science for Biomedical Data and mentor guided Research Fellowships. The program kicked off June 21, 2021 and is well underway now.

The types of participants and the number of participants in each detailed virtual program are as follows.

Type of participants	# of participants
Faculty or Staff	13
Graduate Student	13
Undergraduate Student	20

Virtual Program	# of participants
Omics Logic Bioinformatics	29
Bioinformatics for Infectious Diseases	12
SARS-COV2: Genomic Data Analysis	7
Data Science for Biomedical Data	13
Research Fellowship	11



PI	Project Title(s)
Urska Cvek	Evaluate Correlations and Mine Drug Abuse Data from LSU Health Shreveport in Shreveport during 2011-2019
Tauhid Alam	Computational Molecular Ensemble Docking with SARS-CoV-2 Proteins
Stephanie Villalba	Developmental stages of olfactory sensory neurons in neonatal life vs. adulthood
Subhajit Chakrabarty	Best practices for inter-conversion of EEG data formats
Elahe Mahdavian	Computational-Aided Drug Discovery (CADD), Development of Anti-Viral Drugs for COVID-19
Vonny Salim	Identification of Host Microbiota Relationships involved in Anticancer Alkaloid Biosynthesis

PI	Project Title(s)
Patrick Moyer	development of a hybrid scanning force and optical microscope
Kazim Sekeroglu	A 3D CNN-LSTM based multi-view spatiotemporal deep-fusion learning model for BCI
Teague O'Mara	Heart rate variability under extreme energy demands
William Parkinson	Computational Investigations of Stereospecificity in Concerted Electrocyclic Reactions

PI	Project Title(s)
Becky Giorno	Searching for Antibiotic Resistance in Saline and Hypersaline Environments
Jamie Newman	Canonical and Noncanonical Notch Signaling Regulates Adult Stem Cell State
Mary Caldorera-Moore	Assessment of Proactive Chitosan-genipin Hydrogels Biomaterial Biocompatibility
Yuri Voziyanov	Construction of a Model Cell Line to Test DNA Replacement Catalyzed by Tyrosine Recombinases



PI	Project Title(s)
Wendy Schluchter	Characterization of proteins involved in chromatic acclimation
Mark L Trudell	Development of green methods for the synthesis of drug scaffolds



PI	Project Title(s)
Jean Christophe Chamcheu	<ul style="list-style-type: none"><li>• Bioguided fractionation and identification of Graviola (<i>Annona muricata</i>) extract ingredients</li><li>• In vitro anti-skin cancer evaluation of Graviola extract fractions and newly identified compounds from Graviola (<i>Annona muricata</i>)</li></ul>
Srinivas Garlapati	Investigation of protein-protein interactions in the translation pre-initiation complex of <i>Giardia lamblia</i>
Siva Murru	<ul style="list-style-type: none"><li>• Cobalt-catalyzed Synthesis of Biologically Relevant 1,3-Diarylpurazoles</li><li>• Diversity Oriented Synthesis of Purazolone Derivatives for Anticancer Activity Studies</li><li>• Electrochemical Synthesis of Organonitrogen Compounds</li></ul>
Uchechi Owunna	Best practices for inter-conversion of EEG data formats
Nektarios Barabutis	Unfolded protein response-mediated regulation of lung endothelial permeability

PI	Project Title(s)
Anup Kundu	Targeted delivery of doxorubicin liposomes for the treatment of chemoresistant breast cancer
Joseph Chaney	Applying the Brakes: Understanding the Role of Conformational Changes in Kinesin-5

PI	Project Title(s)
Sanjay Batra	Complex interplay between Hsp90 and Beclin-1 regulatesTLR-4 mediated autophagy