

## 20th ANNUAL MEETING OF THE LBRN

January 28-29, 2022

Frie	Friday January 28 <sup>th</sup> , 2022					
#	Name	- Time				
		Time				
1	Konstantin Kousoulas (PI) / Ramesh Su	12:40 - 12:45 PM				
1	Lakshmi Matukumalli - Program Directo	12:45 – 12:55 PM				
	Steve Cutler - Interim Provost, Universi	12:55 – 1:05 PM				
	Name	Project Type	Title	Time		
2	Nicolas Bazan – Director, Neuroscience Center of Excellence	<u>Keynote</u>	Redundancy and Resiliency Signaling for Neuronal Longevity Counteracts Alzheimer's Onset.	1:10 - 2:00 PM		
3	Urska Cvek / J. Steven Alexander	Women's Health	Stability in Inflammatory Bowel Disease	2:05 - 2:30 PM		
4	Nektarios Barabutis / Yogesh Saini	INBRE- COBRE	Protective Role of Activating Transcription Factor 6 (ATF6) against endothelial barrier dysfunction	2:35 - 3:00 PM		

**BREAK** 3:00 - 3:10 PM

5	Charles Irvin - Director, Vermont Lung Center	Invited Talk	Scientific Misconduct: Crime & Punishment	3:10 - 4:00 PM
6		Poster Session I		4:00 - 5:00 PM
7	Poster Session II		5:00 - 6:00 PM	

Saturday, January 29 <sup>th</sup> , 2022					
#	Name	Project Type	Title	Time	
1	Oliver Garden - Dean, LSU School of Veterinary Medicine	Dean's Remarks	LSU Vetmed Overview	8:15 - 8:30 AM	
2	Matt Lee - Interim Executive Vice President and Provost - LSU	Provost's Remarks	Welcome remarks	8:30 - 8:45 AM	
3	Krzysztof Reiss - Program Director Center For Translational Viral Oncology	<u>Keynote</u>	Glioblastoma weak metabolic points as a target for new drugs with high potential for Blood Brain Barrier penetration	8:45 - 9:25 AM	
4	Jean Christopher Chamcheu	Full	Development of fisetin as a novel inhibitor co-targeting PI3K/AKT/mTOR/Rac1 and IL-17A for Treating Psoriasis	9:30 - 9:55 AM	
5	Georgios Matthaiolampakis	Full	miR-mediated Inhibition of Lung Cancer Progression	10:00 - 10:25 AM	

**BREAK** 10:25 – 10:40 AM



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Sat	Saturday, January 29 <sup>th</sup> , 2022 - Continued					
6	Siva Murru	Full	Development of Pyrazoles and Pyrazolones as Anti-Cancer Agents: Design, Synthesis and Anti-Cancer Activity Studies	10:40 - 11:05 AM		
7	Devaiah Kambiranda	Full	Proteasomes/immunoproteasome: Role of lipid rafts in compartmentalization / activation in e-cigarettes vapor exposed lung epithelial cells	11:10 - 11:35 AM		
8	Kyle Piller	Full	Life in the fast lane: Testing for congruence among transcriptomic signatures	11:40 - 12:05 PM		

**LUNCH** 12:05 - 1:00 PM

	Student Flash Talks – 4 minutes each					
10	Rizwana Begum	Summer	HSP70 and proteasomes coalesce in lipid rafts to regulate E-cigarette Vapor condensate induced inflammation			
11	Nandini Bidarimath	Summer	Pentachlorophenol induced transcriptome dynamics in human lung and liver Cells			
12	Chelsea Bock	Summer	Growth inhibitory and apoptotic effects of Graviola (Annona Muricata) fractions in human melanoma and non-melanoma skin cancer in vitro			
13	Eric Clifford	Summer	Drug Screen Trends in Emergency Rooms Among Childbearing-Aged Females	1:00 – 1:30 PM		
14	Denzel El Hage	Summer	Development of a pH-sensitive liposome formulation for targeted delivery of anticancer pyrazolones in lung cancer cells			
15	Tithi Roy	LBRN	The dietary antioxidant Fisetin suppresses Psoriasis-like characteristics in vitro and in vivo in an imiquimod-induced dermatitis in Balb/c mice: Involvement of the central mTOR signaling pathway			
16	April Wright	Full	Modeling Heterogeneous Data Sources for Time-Scaling Phylogenetic Trees	1:35 - 2:00 PM		
17	Srinivas Garlapati	Full	Mechanism of translation initiation in protozoan parasite Giardia lamblia	2:05 - 2:30 PM		
18	Vonny Salim	Full	Elucidation of Plant-Derived Drug Biosynthetic Pathways and Molecular Mechanisms as Anticancer Agents	2:35 - 3:00 PM		
	Awards and closing remarks					
	EAC meet with Steering Committee					



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LBRN Annual Meeting Poster Summary iPosterSession Gallery <a href="https://lbrn2022am-lsu.ipostersessions.com/Default.aspx?s=lbrn\_2022\_gallery">https://lbrn2022am-lsu.ipostersessions.com/Default.aspx?s=lbrn\_2022\_gallery</a>

1	ID#	Sess/Rm	Full Name	Poster Title:	Institution
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18				N-Boc-hydroxylamine as a Boc-donor Agent for the Catalytic N-tert-Butoxycarbonylation of Pyrazoles and	
1, Rm 3	59	II. Rm 4	Rizwana Begum		SUBR
Summer   Nandmi Bidarimath   Pentachlorophenoi induced transcriptome dynamics in human long and liver Cells   SUBR				Comparing Solubility of the catalytic mutant in the lyase-isomerases MpeQ and MpeZ from Synechococcus sp.	
Pentachlorophenol induced transcriptome dynamics in human bug and liver Cells Samuel Boateng Biological evaluation, in silico molecular docking and ADMT screening of a small birary of phenolic Compounds identified novel anti-skin cancer agents The Chelsea Bock Growth inhibitory and an insilico molecular of Graviola (Annona Muricata) fractions in human melanoma and non-melanoma skin cancer in vitro The Chelsea Bock Branch Chelsea Bock Growth inhibitory and proprince (Festers of Graviola (Annona Muricata) fractions in human melanoma and non-melanoma skin cancer in vitro Branch Chelsea Bock Growth inhibitory and proprince (Festers of Graviola (Annona Muricata) fractions in human melanoma and non-melanoma skin cancer in vitro Branch Chelsea Bock Growth inhibitory and bird inhibitory and bird inhibitory and bird inhibitory and bird in interpency Roman Annon (Childebrand). Applying the Brakes: Understanding the Role of the Conformational Changes in the Kinesin-5 on Processivity WILLA CHELD IN CHELD AND CHELD APPLY (CHELD APPLY) and CHELD APPLY (C	60	L Rm 24	Nandini Bidarimath		SUBR
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1. Rm 5	57	II, Rm 5	Chelsea Bock	Growth inhibitory and apoptotic effects of Graviola (Annona Muricata) fractions in human melanoma and non-	ULM
Books	7	I. Rm 5	Mary Caldorera-Moore		LATECH
See II, Rm 7					
9 II, Rm 8 Karli Clifton Electro-chemical Cyclization of Hydroxychalcones for the Synthesis of Flavonoids ULM 10 II, Rm 9 Urska Cvek Disparities in Brasat Cancer Treatment Outcomes: Improving access with Health Informatics USU ISUS 11 II, Rm 10 Devika Dua Investigating Key COVID-19 Questions by Using Natural Language Processing on Scientific Publications CCS (HS) 12 II, Rm 11 Samrat Dutta Diagnostic Cancer Imaging In the Mid-Infrared Using Novel Contrast Agents VIII.A Ampt Chimiter EEG Based Motor Imagery Task Classification Utilizing Spotiotemporal Deep Learning for BCI Applications SELU Complex Germline Structural Variant Discovery via Discondant Cluster Normalization VIII.A Complex Germline Structural Variant Discovery via Discondant Cluster Normalization VIII.A SELU III. Rm 13 Bennett Hibber Computational Investigations Of Stereospecificity In Concerted Electrocybic Reactions SELU III. Rm 15 Moses Bhachi Aryl-Insed (Inidazole, Pyrazine and Pyrrole) Boronated Dye Derivatives Assessment of Stages of Officatory Sensory Neurons in Neonatal Life vs. Adulthood LSUS project-based course Development of a Love COVID-19 Symptoms in Neonatal Life vs. Adulthood LSUS COVID-19 (VIII) In Image III. Rm 17 Vladimir Cancer-Specific Magnetic Imaging Agent Variant Discovery of Control Pyravine and Pyrrole Boronated Dye Derivatives Assessment of Stages of Officatory Sensory Neurons in Neonatal Life vs. Adulthood LSUS COVID-19 James Lee & Matthew Group Covid-19 Symptoms in Northern Louisiana LSUS Control III. Rm 17 Vladimir Cancer-Specific Magnetic Imaging Agent Water Analysis and Genomic Sequencing of SABS-CoV-2 Benefit COVID-19 Surveillance LATECH Accessing the congruency of DNA repair genes among killifishes with different life histories using QuantSeq SELU Glinia Repair Computational Drug Repurposing CPM (IIS) 11 Rm 17 Elahe Manco Patterns in Electroencephalograms during Meditation Anticancer Alkaloid Biosynthetic Genes in Medicinal Plants 12 II. Rm 19 Isseph Mondello Computing Representative Protein Conformations from Molec	58		•	and Inhibition	LSUS
1. Rm 10					
II. Rm 9					
11, Rm   10   Devika Dua   Investigating Key COVID-19 Questions by Using Natural Language Processing on Scientific Publications   XULA     12					
11. Rm 11   Samrat Dutta   Diagnostic Cancer Imaging In the Mid-Infrared Using Novel Contract Agents   SUIS		II, Rm 10	Devika Dua		CCS (HS)
II, Rm 12   PJ Erba   Development of Methodology in Microbial DNA Isolation for Characterization of Soil Microbiam   LSUS	12	II, Rm 11	Samrat Dutta		XULA
15   1, Rm 8   Matthew Hayes   Complex Germline Structural Variant Discovery Via Discordant Cluster Normalization   XULA     16   II, Rm 13   Bennett Hibner   Computational Investigations of Stereospecificity In Conception   SELU     17   II, Rm 14   Hunter Hollie   Design and Development of a Low-Cost High-performance Atomic Force Microscope (AFM)   SELU     18   II, Rm 15   Moses Ihachi   Aryl-fused (Imidazole, Pyrazine and Pyrrole) Boronated Dyerviatives   SELU     19   I. Rm 9   Chelsey Jordan   Assessment of student appreciation for applied bioinformatics and computational drug discovery methods in a   LSUS     10   I. Rm 10   Supriya Karki   Developmental Stages of Olfactory Sensory Neurons in Neonatal Life vs. Adulthood   LSUS     11   I. Rm 11   Waheed Khan   Using computational drug repurposing methodology to identify promising bictegravir-based drug candidates for   LSUS     1, Rm 17   Valdimir   Kolesnichenko   Cancer-Specific Magnetic Imaging Agent   Cancer-Specific Magnetic Imaging Agent   Cancer-Specific Magnetic Imaging Agent   Chi Jing Leow   Accessing the congruency of DNA repair genes among killifishes with different life histories using QuantSeq   SELU	13	II, Rm 12	PJ Erba		LSUS
16   II. Rm 14   Hunter Holie   Design and Development of a Low-Cost High-performance Atomic Force Microscope (AFM)   SELU     18   II. Rm 15   Moses Ibachi   Aryl-Iused (Imidazole, Pyrazine and Pyrrole) Boronated Dye Derivatives   SELU     19   I. Rm 9   Chelsey Jordan   Assessment of student appreciation for applied bioinformatics and computational drug discovery methods in a LSUS     20   I. Rm 10   Supriya Karki   Developmental Stages of Olfactory Sensory Neurons in Neonatal Life vs. Adulthood   LSUS     21   I. Rm 11   Waheed Khan   Developmental Stages of Olfactory Sensory Neurons in Neonatal Life vs. Adulthood   LSUS     22   II. Rm 16   Phillip Kilgore   Racial Dispartities in COVID-19 Symptoms in Northern Louisiana   LSUS     23   II. Rm 17   Vladimir   Cancer-Specific Magnetic Imaging Agent   Activating transcription factor 6 modulates endothelial barrier function.   ULM     25   I. Rm 13   James Lee & Matthew   Giblion   Giblion   Giblion     26   I. Rm 14   Laura Lee   Wastewater Analysis and Genomic Sequencing SARS-CoV-2 Benefit COVID-19 Surveillance   LATECH     27   I. Rm 15   Chi Jing Leow   Accessing the congruency of DNA repair genes among killfishes with different life histories using QuantSeq   SELU     28   II. Rm 18   Raj Letchuman   Identifying Promising Drug Candidates Against SARS-CoV-2 Using Computational Drug Repurposing   CPM (HS)	14	I, Rm 7	Anup Ghimire	EEG Based Motor Imagery Task Classification Utilizing Spatiotemporal Deep Learning for BCI Applications	SELU
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Biosynthetic Pathways  I, Rm 19 Joseph Mondello Computing Representative Protein Conformations from Molecular Dynamics Simulations  LSUS  I, Rm 20 Savannah Montgomery Identifying Double Minutes Chromosomes within Hi-C and Deletion-Episomes  XULA  II, Rm 20 Derrick Mullins Simulating Double Minute Chromosome and Phylogenetic Tree Evolution using Java  XULA  II, Rm 21 Christopher Murray Alligators as Models for Human Pathology: Neuroendocrine Effects of Methyltestosterone Exposure  XULA  Kalani Myles Computer-aided drug discovery for COVID-19 using virtual screening and molecular docking  LSUS  I, Rm 22 Jamie Newman Canonical and Noncanonical Notch Signaling Regulates Adult Stem Cell State  LATECH  JI, Rm 23 Keelin North Metagenomic Profiling of Soil Microbiome from Anticancer Compound-Producing Plants  LSUS  LSUS  II, Rm 22 Uchechi Owunna Synthesis and Biological Evaluation of 1,3-Diarylpyrazoles: in vitro Cytotoxicity Studies on Human Melanoma ULM  and Non-melanoma Cancer Cells  II, Rm 23 Erika Perez Topiramate treatment precipitates and accentuates physical symptoms of nicotine withdrawal in mice.  XULA  II, Rm 25 Stephanie Provenzano Biochemical Characterization of Anticancer Alkaloid Methyltransferases in Medicinal Plant Camptotheca	31		·		LSUS
34I, Rm 20Savannah Montgomery 35Identifying Double Minutes Chromosomes within Hi-C and Deletion-EpisomesXULA35II, Rm 20Derrick MullinsSimulating Double Minute Chromosome and Phylogenetic Tree Evolution using JavaXULA36II, Rm 21Christopher MurrayAlligators as Models for Human Pathology: Neuroendocrine Effects of Methyltestosterone ExposureSELU37I, Rm 21Kalani MylesComputer-aided drug discovery for COVID-19 using virtual screening and molecular dockingLSUS38I, Rm 22Jamie NewmanCanonical and Noncanonical Notch Signaling Regulates Adult Stem Cell StateLATECH39I, Rm 23Keelin NorthMetagenomic Profiling of Soil Microbiome from Anticancer Compound-Producing PlantsLSUS41II, Rm 22Uchechi OwunnaSynthesis and Biological Evaluation of 1,3-Diarylpyrazoles: in vitro Cytotoxicity Studies on Human MelanomaULM42II, Rm 23Erika PerezTopiramate treatment precipitates and accentuates physical symptoms of nicotine withdrawal in mice.XULA43I, Rm 25Stephanie ProvenzanoBiochemical Characterization of Anticancer Alkaloid Methyltransferases in Medicinal Plant CamptothecaLSUS	32	II, Rm 19	Ryan Miller		LSUS
35 II, Rm 20 Derrick Mullins Simulating Double Minute Chromosome and Phylogenetic Tree Evolution using Java XULA 36 II, Rm 21 Christopher Murray Alligators as Models for Human Pathology: Neuroendocrine Effects of Methyltestosterone Exposure SELU 37 I, Rm 21 Kalani Myles Computer-aided drug discovery for COVID-19 using virtual screening and molecular docking LSUS 38 I, Rm 22 Jamie Newman Canonical and Noncanonical Notch Signaling Regulates Adult Stem Cell State LATECH 39 I, Rm 23 Keelin North Metagenomic Profiling of Soil Microbiome from Anticancer Compound-Producing Plants LSUS 41 II, Rm 22 Uchechi Owunna Synthesis and Biological Evaluation of 1,3-Diarylpyrazoles: in vitro Cytotoxicity Studies on Human Melanoma ULM 42 II, Rm 23 Erika Perez Topiramate treatment precipitates and accentuates physical symptoms of nicotine withdrawal in mice. XULA 43 I, Rm 25 Stephanie Provenzano Biochemical Characterization of Anticancer Alkaloid Methyltransferases in Medicinal Plant Camptotheca LSUS	33	I, Rm 19	Joseph Mondello		
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41 II, Rm 22 Uchechi Owunna Synthesis and Biological Evaluation of 1,3-Diarylpyrazoles: in vitro Cytotoxicity Studies on Human Melanoma ULM and Non-melanoma Cancer Cells  42 II, Rm 23 Erika Perez Topiramate treatment precipitates and accentuates physical symptoms of nicotine withdrawal in mice. XULA  43 I, Rm 25 Stephanie Provenzano Biochemical Characterization of Anticancer Alkaloid Methyltransferases in Medicinal Plant Camptotheca LSUS		,			
and Non-melanoma Cancer Cells  42 II, Rm 23 Erika Perez  43 I, Rm 25 Stephanie Provenzano  44 Biochemical Characterization of Anticancer Alkaloid Methyltransferases in Medicinal Plant Camptotheca  45 LSUS					
43 I, Rm 25 Stephanie Provenzano Biochemical Characterization of Anticancer Alkaloid Methyltransferases in Medicinal Plant Camptotheca LSUS				and Non-melanoma Cancer Cells	
	43	I, Rm 25	Stephanie Provenzano	· · · · · · · · · · · · · · · · · · ·	LSUS



# 20<sup>th</sup> ANNUAL MEETING OF THE LBRN

### January 28-29, 2022

ID#	Sess/Rm	Full Name	Poster Title:	Institution
44	I, Rm 26	Prerana Ramesh	Improving Patient Outcomes for Inflammatory Bowel Disease through Physician Interactions during Infusion Treatment: Symptomatic Review of Biologic Therapy in IBD (STABILITY)	LSUHS
45	II, Rm 24	Silvia Robert	Frequency domain approach for improvement of cochlear implant performance	SELU
46	II, Rm 25	Vonny Salim	Elucidation of Anticancer Alkaloid Biosynthetic Pathways in Medicinal Plants: Improved Solutions for Drug Development	LSUS
47	II, Rm 26	Jeffry Shultz	Identifying Lethal Alleles in Human	LATECH
48	I, Rm 27	Bryan Strong	Translation initiation factors from early-branching eukaryote Giardia lamblia can form multifactor complex in the absence of 40S ribosome in vitro	ULM
49	II, Rm 27	Shilpa Thota	Complex interplay between Hsp90 and Beclin-1 regulatesTLR-4 mediated autophagy during Pentachlorophenol exposure-in vitro	SUBR
50	II, Rm 28	Billy Tran	Correlations Among Evaluator's Level of Training, Assigned HEART Scores, and Major Adverse Cardiac Events	LSUS
51	I, Rm 28	Marjan Trutschl	Bioinformatics Analysis of Large-Scale Neuroproteomic Data and Prediction of Neurovascular Change	LSUS
52	I, Rm 29	Yuri Voziyanov	Construction of a model cell line to test DNA replacement catalyzed by tyrosine recombinases	LATECH
53	II, Rm 29	Anna Wilson	Comparative transcriptomic analysis of GABAergic versus dopaminergic neuronal differentiation in mouse ES cells	SUBR