Agenda

for the

9th Annual LA Conference on Computational Biology and Bioinformatics

April 21-23, 2022

Virtual Meeting via Zoom

Thursday, April 21 12:30 pm - 5:50 pm (CDT)

Friday, April 22 12:45 pm - 4:50 pm (CDT)

Saturday, April 23 9:00 am - 12:00 pm (CDT)

All Times given in Central Time Zone

Thursday April 21, 2022 (Day 1)

12:30 – 12:38 pm.	
12:40 - 12:58 pm	Lakshmi Matukumalli NIH/NIGMS
	NIGMS Update on Data Sciences and Cloud computing training
Session I	Corre Correson
1:00 – 1:58 pm	Sara Sawyer
	University of Colorado Boulder
	Viruses at the Human-Animal Interface
2:00 – 2:18 pm	
	Louisiana State University Health Sciences - New Orleans
	Louisiana Biomedical Research Network Bioinformatics, Biostatistics, & Computational Biology Core
2:20 – 2:38 pm	Elia Brodsky
	Pine Biotech
	Analysis of Omics Data: BioMMED Bioinformatics Support Services
2:40 – 2:58 pm	Break
3:00 – 3:15 pm	
	Louisiana State University
	The Scholarship First Agenda for Louisiana
3:17 – 3:35 pm	Basel Abuaita
	Louisiana State University
Human neutrophils	augment intestinal inflammatory responses and host defense via directing epithelial cell extrusion during Salmonella infection
3:37 – 3:55 pm	
cic, cicc pin iiii	Louisiana Tech University
	Genomic Surveillance of SARS-CoV-2 in North Louisiana
3:57 – 4:15 pm	Lauren Cramer
-	University of Louisiana at Monroe
	An Across Species Approach to Pharmaceutical Prioritization Using Fish Reproduction Data
4:17 – 4:27 pm	
4:30 – 5:50 pm	Poster Session

Friday April 22, 2022 (Day 2)

2:45 – 12:58 pm
ession II
:00 – 1:58 pmMelissa Wilson
Arizona State University
Sex-biased Genome Evolution
:00 – 2:18 pm
Louisiana State University
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
:20 – 2:38 pmUrska Cvek
Louisiana State University Shreveport
Exploring Disparities in Breast Cancer Treatment Outcomes within the State of Louisiana
:40 – 2:58 pmBreak
:00 – 3:18 pm
Xavier University of Louisiana
Complex Germline Structural Variant Discovery via Cluster Normalization
20 2.20 mm
'2U = 3'38 pm Vid Wasi Ul Kapir
:20 – 3:38 pm
20 – 3:38 pm
University of New Orleans A Machine Learning Approach for Oyster Disease Prediction
University of New Orleans A Machine Learning Approach for Oyster Disease Prediction :40 – 4:38 pm
University of New Orleans A Machine Learning Approach for Oyster Disease Prediction

Saturday April 23, 2022 (Day 3)

9:00 – 9:08 am	S
Session III	
9:10 – 10:08 am	n
Weill Cornell Medicin	e
Clonal Hematopoiesis Dynamics during Cancer Therapy and Spaceflig.	ht
10:10 – 10:28 am	is
Democritus University of Thrac	e
Viral genome assembly and characterization hindrances from virus-host chimeric read	ds
10:30 – 10:43 amBrea	.k
10:45 – 11:43 am	er
Stanford Medicin	e
Big Data, Health and COVID-1	19
11:45 - 12:00 pm	ıt

Poster Session List

Thursday 4:30 – 5:50pm

Room	Name	iPoster Title	Institution
1	Dr. Basel Abuaita	Human neutrophils augment intestinal inflammatory responses and host defense via directing epithelial cell extrusion during Salmonella infection	LSUBR
2	Mrs. Duaa Alawad	Inferring Gene Regulatory Network using Graph Transformer Self-Attention Network	UNO
3	Mr. Eric Clifford	Drug Screen Trends in Emergency Rooms Among Childbearing-Aged Females	LSUS
4	Dr. Urska Cvek	Exploring Disparities in Breast Cancer Treatment Outcomes within the State of Louisiana	LSUS
5	Mr. Michael Foster	Genomic Surveillance of SARS-CoV-2 in North Louisiana	LATECH
6	Ms. Deriesha Gaines	RNA capture pin technology: assessment of mRNA enrichment via high throughput RNA seq	LATECH
7	Mr. Nayan Howladar	PPILC: Protein-Protein Interaction Prediction from Language of Biological Coding	UNO
8	Mr. Md Wasi Ul Kabir	Dispredict3.0: Intrinsically Disordered Protein prediction enhanced with Protein Language Model	UNO
9	Mr. Phillip Kilgore	STABILITY (Symptomatic Review during Biologic Therapy) during Inflammatory Bowel Disease Patient Infusion Therapy Visits: A Retrospective Review - 2019-22.	LSUS
10	Dr. Rahul Kumar	Generation of inducible whole-body Knockout mice using Rosa-Cre-inducible promoter	LSUBR
11	Dr. Richa Lamichhane	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	LSUBR
12	Dr. Elahe Mahdavian	An interdisciplinary course on computer-aided drug discovery to broaden student participation in scientific research	LSUS
13	Ms. Savannah Montgomery	Inferring the Deletion-Episome Model of Double Minute Chromosome Formation Using Hi-C Sequencing Data	XULA
14	Mr. Derrick Mullins	Simulating Double Minute Chromosome and Phylogenetic Tree Evolution using Java	XULA
15	Mr. Chandra Mohan Reddy Muthumula	Identification of Constituents of Hydroethanolic Echinacea Extracts Active in Free Radical Quenching by n-Hexane and Ethyl Acetate Partitioning Aided by Chemometric Analysis	ULM
16	Mr. Luis Pena Marquez	Automatic segmentation and calculation of the Monocyte Monolayer Assay Index using deep learning	LSUS
17	Ms. Stephanie Provenzano	Bioinformatic Approaches in Elucidation of the Evolution and Functional Characterization of Natural Product Methyltransferases	LSUS
18	Mr. Aasish Rijal	A Machine Learning Approach for Oyster Disease Prediction	UNO
19	Mr. Krishna Shah	Using Language-based Features for ncRNA-protein Interaction Prediction	UNO
20	Mr. Ran Sun	Nucleosome-Receptor Structure Studies Based on Bioinformatics and Molecular Modeling	LATECH
21	Dr. Marjan Trutschl	Utilizing Self-Organizing Maps to Improve Information Delivery of Venn Diagrams	LSUS
22	Mrs. Anna Wilson	Time-Series Transcriptome Analysis of Encapsulated vs Embryo Body Mouse ES Cell Cultures Treated with Retinoic Acid	SUBR