

Agenda

4th Annual Louisiana Conference on Computational Biology and Bioinformatics

April 1-2, 2016

Xavier University Convocation Center Annex Building, New Orleans, LA.

Friday April 1, 2016

1:00 - 1:10 pm		Welcome and Opening Remarks
		Dr. Gus Kousoulas
	Associate	e Vice President (LSU ORED) / PI LBRN
Session I: Pro	teomics	Chair: Dr. Kermit Murray
		Dept. of Chemistry, LSU
1:10 – 2:10 pm		Dr Richard LeDuc
		Northwestern University, IL
"Red	ent advances in the bioinf	formatics of top down proteomics"
2·10 – 2·30 nm	Talk I	Dr. Erik Flemington
		f Epstein-Barr virus lytic transcriptome
Global tre		hrough multi-platform data integration
2:30 – 2:50 pm	Talk II	Dr. Alan Tackett
•		noma with High Resolution Proteomics
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2:50 – 3:10 pm	Talk III	Ms. Sumaiya Iqbal
Accurate Ide	entification of disordered prote	ein residues using deep neural network
3:10 – 3:30 pm	Talk IV	Mr. Brent A Stanfield
	Host Gene Expression after H	SV2 Challenge in Cavia porcellus Model
3:20 – 3:30 pm		Break
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Session II: Co	mputational Modelling	Chair: Dr. Michael Salbaum
	mpatational modelling	Genomics Core, PBRC
3:30 – 4:30 pm		Dr. Thomas Knudsen
		Center for Computational Toxicology, TN
	"Computer	simulation of embryonic systems"

4:30 – 4:50 pm	Talk V Mr. Avdesh Mishra
•	An Electric Energy Function to Discriminate Native from Decoys
	Talk VI
5:10 – 5:30 pm	Talk VII Mr. Denson G Smith
	A Hybrid Evolutionary Feature Selection Method for Microarray Data
·	Talk VIII
5:50 – 6:00 pm .	Break
6:00 – 7:00 pm .	

7:15 – 9:15 pm Poster Session and Dinner

End of Day 1

Agenda

Saturday April 2, 2016

9:00 - 10:15 am

Workshop on use LSU-Delta Cluster

Chair: Dr. Nayong Kim

LSUCCT

The Delta Power8 Cluster is a new High Performance Computing (HPC) Supercomputing Cluster at the Center for Computation and Technology (CCT) at LSU. It is capable of several different workflows for computation, and features an easy to use graphical interface, as well as the typical command line interface for running commands and management. This segment will showcase some of the early benchmarks and analyses that have been run on the Delta Cluster, and will feature an interactive portion that will guide participants on the use of submitting jobs to the Delta Cluster.

Introduction:		
I. DELTA system		
 II. Translational Research Infrastructure with tranSMART Dr. Joohyun Kim LSUCCT a. tranSMART installation on DELTA b. Use case for multi-omics data integration and analysis c. Future direction for supporting scalable translational research 		
III. Training/Demo/Interaction		
10:15 – 10:30 am Break		

Session III: Structural and Computational Informatics

Chair: Michal Brylinski Dept. of Biol. Sci. LSU and LSUCCT Vanderbilt, NashvilleTN "Modeling Membrane Proteins from Limited Experimental Data" 11:30 - 11:50 am Talk X Dr. Urska Cvek Biomedical Data Visualization: Free Tools and Solutions Miniproteins from plants: As inspiration for drug design Identification Of Disease Biomarkers Via Integrated Analysis Of Longitudinal Clinical And Genomic Data 12:30 - 12:50Talk XIII Dr. Diana L. Williams Milk Microbiome produced by women living in a leprosy-endemic region of the Central African Republic **12:50 – 1:30 pm** "Enhancing bioinformatics analysis with social communities and expertise profiles" Lunch Break & Intro to IBM Communities. Mr. Jason Moore Session IV: Genomics of Cancer and Infectious diseases Chair: Dr. Lucio Miele LSU School of Med. Dept of Genetics 1:30 – 2:30 pm Dr. James Cimino

Informatics Institute, School of Medicine, UAB, AL "The Use of Electronic Health Records in Translational Research: Don't Forget about the Phenome or Forget about the Phenome?"

2:30 – 2:50 pm	Talk XIVDr. Thomas W Carton
REACHnet: A	An Integrated Clinical Data and Patient Engagement Infrastructure to
	Support Collaborative Research
3:50 – 3:10 pm	Talk XV Dr. Chindo Hicks
Integrative B	ioinformatics Strategies for Mapping the Genomic Landscape of Triple
	Negative Breast Cancer
3:30 – 3:50 pm	Talk XVIDr. Pushpendra Singh
RNA-Se	eq based transcriptional profiling of leprosy -susceptible and -resistant
	armadillos for early detection of leprosy
3:50 – 4:10 pm	Talk XVII
	Determining an influenza vaccine strain using genomic sequence
4:15 pm	Closing Remarks and Acknowledgements