## Agenda

## 6th Annual Louisiana Conference on Computational Biology and Bioinformatics

April 6-7, 2018

Louisiana State University Digital Media Center Baton Rouge, LA

> Friday, April 6, 2018 1:00 pm - 8:00 pm

Saturday, April 7, 2018 9:00 am - 5:00 pm



Registration: http://lbrn.lsu.edu/events/bioinformatics-conference/











## Friday April 6, 2018

1:00 – 1:10 pm		
Session I: Evolutionary Genomics, Infectious Diseases and Cancer Informatics Chair:		
1:10 – 2:10 pm	Jessica Kissinger - University of Georgia	
Unleashing Your Inner D	Data Scientist: Challenges and Opportunities from the Field of Infectious Diseases	
-	o Hicks - Louisiana State University Health Sciences Center, New Orleans approaches for Integrating Germline and Somatic Mutation Information in Cancer	
2:40 – 3:10 pm Infection Ch	Christian Clement - Southern University at New Orleans naracteristic of HSV-1 Neuronal Viral DNA and Analysis of ICP4, ICP0 In Silico	
-	man Microbiome and Metagenomics	
Chair:	5	
3:30 – 4:30 pm	Morgan Langille - Dalhousie University Disease Signatures of the Human Microbiome	
4:30 – 5:00 pm	Filipa Godoy-Vitorino - Inter American University of Puerto Rico Characterization of the Cervicovaginal Bacterial and Fungal Profiles Associated with HPV Infections in a Hispanic Population	
-	Taylor - Louisiana State University Health Sciences Center, New Orleans Changes in the Vaginal Microbiome of Women Leading up to Bacterial Vaginosis	

## Saturday, April 7, 2018

Session III: Big Chair:	Data, Bioinformatics Education, and Genomics Software
9:10 – 10:10 am	Ben Busby - National Center for Biotechnology Information/NIH The Future is Now! Biomedical Data Science in the 21st Century
10:10 – 10:40 am	Rebecca Christofferson - Louisiana State University Elucidating the Effect of Time When Investigating Within-Mosquito Zika Kinetics Altered by the Integration of Rearing and Extrinsic Incubation Temperature
10:40 – 11:10 am	Elia Brodsky - Pine Biotech A Collaborative Model for Bioinformatics Education: Combining Biologically Inspired Bioinformatics with Project-Based Learning
11:10 – 12:10 pm	Paul Fullerton - Partek Partek Next Generation Sequencing Data Analysis Solution Overview
12:10 – 1:10 pm	Lunch
Session IV: Tra Chair:	nslational Bioinformatics, Imaging and Data Visualization
1:10 – 2:10 pm	Jake Chen - University of Alabama Birmingham Unravelling Complex Patterns in Omics Data with Integrative GNPA Tools
2:10 – 2:40 pm	Phillip Kilgore - Louisiana State University, Shreveport Computer-assisted Inference of Association and Causation in Time-Series Data
2:40 – 3:10 pm	Fabrizio Donnarumma - Louisiana State University Multi-modal Mass Spectrometry for Translational Proteomics

Session V: Protein Struct	ture and Machine Learning
3:30 – 4:00 pm  MD Simulation of Protein	Yong-Hwan Lee - Louisiana State University  n Control by Covalent Modifications: A Preliminary Study with PFKFB3
4:00 – 4:30 pm	Manisha Panta - University of New Orleans assification of Transposable Elements using Machine Learning Approach
4:30 – 5:00 pm	Reecha Khanal - University of New Orleans Prediction of RNA Binding Protein using Machine Learning Techniques
5:00 <i>pm</i>	