



AR-BIC 2018 4<sup>th</sup> Annual Meeting  
April 23-24<sup>th</sup> 2018

**Data Analytics – Genomics and Beyond**

Day 1

Monday April 23<sup>rd</sup> 2018

12:00 pm -4:00 pm	Registration and Poster set up
2:00 pm – 4:00 pm	<b>Workshop by TriNetx</b> <a href="https://www.trinetx.com/">https://www.trinetx.com/</a>
4:00 pm – 4:30 pm	Break
4:30 pm – 7:30 pm	Poster and Reception

Day 2

Tuesday April 24<sup>th</sup> 2018

7:00 am – 8:00 am	<b>Registration and Breakfast</b>
8:00 am – 8:15 am	<b>Opening Remarks and Welcome</b> <ul style="list-style-type: none"> <li>Jerry B. Adams President/CEO, Arkansas Research Alliance, Conway, AR</li> <li>Stephanie Gardner, Pharm.D., Ed.D. Interim Chancellor, University of Arkansas for Medical Sciences, Little Rock, AR</li> </ul>
8:15 am – 11:45 am	<b>Session 1: Data Analytics for Genomics</b> <b>Session Co-Chairs</b> <ul style="list-style-type: none"> <li>David W. Ussery, Ph.D., Professor, Biomedical Informatics, University of Arkansas for Medical Sciences, Little Rock, AR</li> <li>Fred Prior, Ph.D., Professor and Chair, Biomedical Informatics, University of Arkansas for Medical Sciences, Little Rock, AR</li> </ul>
8:15 am – 8:45 am	<b>MG-RAST, a Metagenomics Service for Analysis of Microbial Community Structure and Function</b> Folker Meyer, Ph.D., Argonne National Laboratory, University of Chicago, Argonne, IL
8:45 am – 9:15 am	<b>What is Life? Five-hundred Functional Domains found in all genomes across the Tree of Life</b> David W. Ussery, Ph.D., Professor, Biomedical Informatics, University of Arkansas for Medical Sciences, Little Rock, AR
9:15 am – 9:45 am	<b>Precision Medicine Clinical Trials and the Role of Liquid Biopsies</b> Donald Johann, Jr, M.D., Associate Professor, Biomedical Informatics, University of Arkansas for Medical Sciences, Little Rock, AR
9:45 am – 10:15 am	Break
10:15 am – 10:45 am	<b>Whole genome resequencing for mapping the genetics of hypertension in broilers</b>

	Douglas Duane Rhoads, Ph.D., Professor, Department of Biological Sciences, University of Arkansas, Fayetteville, AR
<b>10:45 am – 11:15 am</b>	<b>Integrative analysis identifies potential DNA methylation biomarkers for pancreatic cancer diagnosis and prognosis</b> Tieliu Shi, Ph.D., East China Normal University, Shanghai, China
<b>11:15 am – 11:45 am</b>	<b>RNA-seq and its applications</b> Mary Yang, Ph.D., Associate Professor, University of Arkansas at Little Rock, Little Rock, AR
<b>11:45 am – 1:00 pm</b>	<b>Lunch</b>
<b>1:00 pm – 5:00 pm</b>	<b>Session 2 – Data Analytics Beyond Genomics</b> <b>Session Co-Chairs</b> <ul style="list-style-type: none"> <li>Weida Tong, Ph.D., Director, Division of Bioinformatics and Biostatistics, National Center for Toxicological Research, US FDA, Jefferson, AR</li> <li>John R. Talburt, Ph.D., Professor, University of Arkansas at Little Rock, Little Rock, AR</li> </ul>
<b>1:00 pm – 1:30 pm</b>	Zak Joundi, MISO
<b>1:30 pm – 2:00 pm</b>	<b>Disruptive Technology and Business Model Trends</b> Gary Dowdy, B.S., MBA, Head of Innovation and Disruptive Technology J. B. Hunt
<b>2:00 pm – 2:30 pm</b>	<b>Beyond connecting the dots: network clustering algorithms and their applications</b>
<b>2:30 pm – 3:00 pm</b>	<b>Break</b>
<b>3:00 pm – 3:30 pm</b>	<b>Real World Text Mining at FDA/NCTR</b> Joe Meehan , Ph.D., Computer Scientist, Division of Bioinformatics and Biostatistics, National Center for Toxicological Research, US FDA, Jefferson, AR
<b>3:30 pm – 4:00 pm</b>	<b>Natural Language Processing – Techniques and Applications to Bioinformatics</b> Susan E. Gauch, Ph.D., Professor, Department of Biological Sciences, University of Arkansas, Fayetteville, AR
<b>4:00 pm – 4:30 pm</b>	<b>From <i>in silico</i> drug design and discovery to commercialization</b> Cesar Compadre, Ph.D., Professor, University of Arkansas for Medical Sciences, Little Rock, AR
<b>4:30 pm – 5:00 pm</b>	<b>Regulatory applications of Quantitative Structure Activity Relationship (QSAR)</b> Weida Tong, Ph.D., Director, Division of Bioinformatics and Biostatistics, National Center for Toxicological Research, US FDA, Jefferson, AR
<b>5:00 pm – 5:10 pm</b>	<b>Closing Remarks</b> Weida Tong, Ph.D., Director, Division of Bioinformatics and Biostatistics, National Center for Toxicological Research, US FDA, Jefferson, AR