

# PATRIC Bioinformatics Resource Center Workshop Featuring Pipelines and Analysis Tools for Bacterial Genomes and 'Omics Data



## New Pipelines, Tools and a New Web Interface: Analyze Your Genomes and 'Omics Data in PATRIC

### WHAT PATRIC OFFERS:

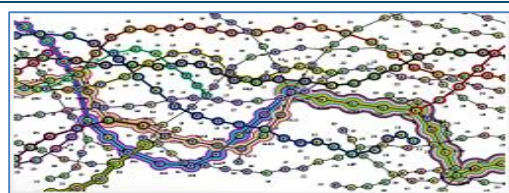
- Genome assembly, annotation, RNA-Seq and Variation service pipelines: researchers can now assemble and annotate their raw reads, do SNP analysis and then analyze their genomes using the comparative analysis suite of tools
- Virtual integration of private data with all the public data available in PATRIC
- Virulence and antibiotic resistance data and information, along with other specialty gene information (drug targets and human homologs)
- Free, downloadable data and analysis results
- Organism summaries; pre-sorted PubMed articles; interactive phylogenetic trees; and experimental data including transcriptomics, proteomics, protein structure, and protein-protein interactions
- Numerous interactive visualizations for genome browsing, multi-genome comparisons, pathway comparisons, protein family comparisons, phylogenetic trees with coupled MSAs, gene expression comparative analysis, genome metadata, transcriptomics data, 3-D protein structures, and more
- Personal workspace for creating/comparing groups of user-selected data and storing private data.

**WHO SHOULD ATTEND:** Bacterial genomic researchers/students and bioinformaticians

*The following system requirements are recommended for optimal PATRIC tool access and performance:* Chrome, Safari, or Firefox browser, and Adobe Flash Player.

**July 27-28, 2017**

Taubman Health Sciences Library  
1135 Catherine St  
Room 2901 on 7/27/2017 and 2903 on 7/28/2017  
Ann Arbor, MI 48109



### AGENDA

#### Day One:

- 9:00-9:30 Introduction, Registration
- 9:30-10:30 Assembly
- 10:30-11:30 Annotation
- 11:30-12:30 Comparative Genomics
- 2:30-2:45 PATRIC BLAST
- 3:00-3:45 RNA-Seq, Differential Expression
- 3:45-4:15 Comparative Transcriptomics
- 4:15-5:00 Variation Service (SNP, MNP)

#### Day Two:

- 9:00-10:30 Command line interface
- 10:45-12:00 Private Data Analysis
- 1:00-4:00 Private Data Analysis
- 4:00 Conclusion

### REGISTRATION INFORMATION:

Please register by going to [https://umich.qualtrics.com/jfe/form/SV\\_2rc3KjFNMXRVY45](https://umich.qualtrics.com/jfe/form/SV_2rc3KjFNMXRVY45)

- Provide your name, email address, and organization



<http://patricbrc.org>