AGENDA

BioNumerics 7.5 Workshop for Analyzing WGS Data – Practical Bioinformatics for Microbiologists
November 16, 2015
Enteric Diseases Laboratory Branch, Division of Foodborne, Waterborne, and Environmental Diseases
National Center for Emerging and Zoonotic Infectious Diseases
Centers for Disease Control and Prevention, Atlanta, Georgia

Monday, November 16, 2015 – Room TBD

8:30 a.m. Workshop overview, introductions
8:45 a.m. System overview of BioNumerics 7.5, Presentation
9:15 a.m. Create a database, install PulseNet-specific plug-ins, Presentation & Demonstration
10:00 a.m. Break
10:15 a.m. Link sequence data to BioNumerics 7.5, create upload templates, upload sequence data to NCBI, Presentation & Exercise
11:15 a.m. Submit jobs to the calculation engine, Presentation & Exercise
12:00 p.m. Lunch (details TBD)
1:00 p.m. Retrieve accession numbers from NCBI, link sequence data using SRR IDs, Presentation & Demonstration
1:30 p.m. Retrieve results from calculation engine, Presentation & Exercise
2:00 p.m. Interpret quality metrics, utilize charts and statistics to visualize quality metrics, Presentation & Exercise
3:00 p.m. Break
3:15 p.m. Use genotyping tools to identify species, lineage, serotype, and resistance determinants, Presentation & Demonstration
3:45 p.m. Upload sequence data to the national database, Presentation & Exercise / Demonstration
4:15 p.m. Create comparisons, perform fast character matching / cluster detection, Presentation & Exercise
5:30 p.m. Open discussion, Complete course evaluation
6:00 p.m. End of workshop

• Add link to course evaluation