Hands-on Training and Laboratory Workshop for CaliciNet

Course: CaliciNet Training Workshop (May 4 – 8, 2015)

Course Length: 4 days (Monday noon – Friday noon)

Goals and Objectives:

• Provide training for CaliciNet participants to become familiar with BioNumerics software and customized CaliciNet scripts.
• Provide laboratory training on current methods for the diagnosis and genotyping of norovirus.

Learning Objectives:

At the end of the course, participants will be able to:

1. Install the BioNumerics software and CaliciNet scripts.
2. Create a CaliciNet database.
3. Import raw sequence data into BioNumerics and complete sequence editing (form contigs, etc.) to obtain qualified sequences for local or national databases.
4. Perform specific queries on CaliciNet databases.
5. List the steps needed to type norovirus sequences (Quick typing).
7. Import and export data into and from BioNumerics.
8. Describe laboratory methods for the molecular detection and genotyping of norovirus (real-time RT-PCR, conventional RT-PCR, DNA sequencing, and phylogenetic analyses).
9. List the advantages and disadvantages of the use of different target regions of the norovirus genome for molecular detection or genotyping.