Workshops

**TUESDAY**  October 15, 9:00 AM TO 12:00 PM  
The Reference Assembly & Reference Materials: Update from the GRC and GIAB  
Room: Montrose AB, Level 3, Marriott Marquis

**WEDNESDAY**  October 16, 4:00 PM TO 4:30 PM  
NCBI Resources for Next Gen Sequence Analysis  
Room: Booth 1209, Exhibition Hall, Convention Center

**FRIDAY**  October 18, 10:00 AM TO 10:30 AM  
Using dbGaP Aggregated Allele Frequency and Other Large Datasets in dbSNP to Improve Human Genetic Variation Interpretation  
Room: Booth 345, Exhibition Hall, Convention Center

Talks

**WEDNESDAY**  October 16, 9:00 AM  
Advancements in the Human Genome Reference Assembly  
Session: Better Genome References and Representations  
Room: Grand Ballroom B, Level 3, Convention Center

**THURSDAY**  October 17, 9:00 AM  
Open Access to dbGaP New Aggregated Allele Frequency for Variant Interpretation  
Session: Methods and Resources in Large-scale Population Data  
Room: Hall B, Level 1, Convention Center

Posters  
Exhibition Hall

**WEDNESDAY**  October 16, 2:00 PM TO 3:00 PM  
1647W: De novo Assembly and Characterization of a Breast Cancer Reference Sample Using Multiple Whole Genome Sequencing Technologies  
Session: Bioinformatics and Computational Approaches

**THURSDAY**  October 17, 3:00 PM TO 4:00 PM  
1672T: NCBI Resources for Genomic Analysis and Visualization in Local, Web, and Cloud Environments  
Session: Bioinformatics and Computational Approaches

**FRIDAY**  October 18, 1:00 PM TO 2:00 PM  
1673F: Accelerating Research with the NCBI Sequence Read Archive on the Commercial Cloud  
Session: Bioinformatics and Computational Approaches

**FRIDAY**  October 18, 2:00 PM TO 3:00 PM  
1604F: RefSeq Functional Elements: An Annotated Dataset of Validated Non-Genic Elements for Variant Interpretation and Functional Discovery in the Human Genome  
Session: Bioinformatics and Computational Approaches

**FRIDAY**  October 18, 2:00 PM TO 3:00 PM  
1652F: Behind the Scenes of Submission Processing at ClinVar  
Session: Bioinformatics and Computational Approaches

**FRIDAY**  October 16, 2:00 PM TO 3:00 PM  
494F: Pharmacogenetics Beyond the Drug Label, with NIH’s Medical Genetics Summary (MGS)  
Session: Precision Medicine, Pharmacogenomics, and Genetic Therapies