

Workshops

Attendees of DNAneXus Connect will have to participate in one of two hands-on workshops geared towards maximizing the power of the cloud.

PRODUCTION WORKSHOP

DNAneXus is frequently deployed in production environments that have a wide variety of interesting and challenging requirements including: ensuring pipeline reproducibility, optimizing turn-around time, introducing error control and retry logic, scaling analyses with ease, versioning of pipelines and their components, and ensuring compliance with regulation requirements. The Production Workshop is for those interested in:

- Reproducing pipelines consistently at scale
- Running batch analyses
 - Leveraging the command line to orchestrate batch analysis
 - Lock down production pipelines to allow for easy use by members of your team
 - Use a previously-run pipeline as a starting point for a new analysis
 - Optimizing applications for the cloud
- Optimizing applications for the cloud
- Monitoring jobs at scale

NEW FRONTIERS IN BIOINFORMATICS WORKSHOP

Biomedical research is in a golden age of data generation; never has it been so affordable to generate multi-omics data at such a large scale. The bottleneck is the management and integration of these data into resources that can be utilized to generate actionable insights. The New Frontiers in Bioinformatics Workshop is geared towards those interested in learning how DNAneXus has pioneered the use of the cloud to address these challenges. Attendees will learn:

- Fast, accurate, and cost-efficient secondary analysis leveraging Sentieon and Edico Genome pipelines on DNAneXus
- Structural variant calling with PacBio tools on DNAneXus
- Conducting RNAseq analysis on DNAneXus
- Best practices for multi-region cloud deployment