illumina®

Illumina Sequencing and Data Analysis Training

Helping you reach your sequencing goals sooner.

Highlights

- **State-of-the-Art Facilities**
  Learn with the highest-quality sequencing technology at your disposal
- **Hands-On Training with Experienced Instructors**
  Gain expertise and insight from knowledgeable instructors while completing a detailed workflow
- **Peer Interaction**
  Share knowledge and collaborate with fellow scientists
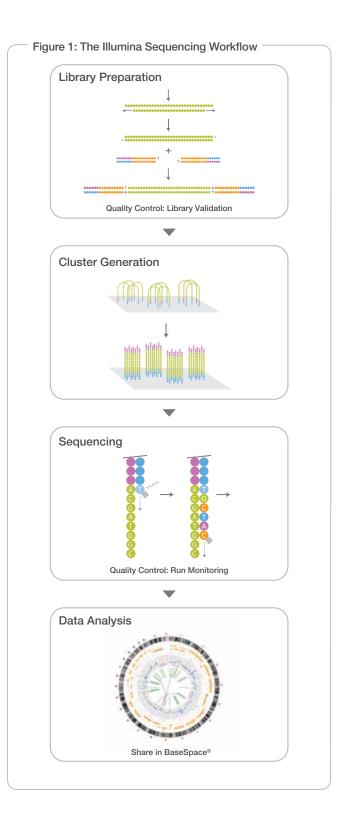
Successful Sequencing

Illumina on-site training courses provide comprehensive instruction for all stages of the sequencing workflow, from library preparation to data analysis. Illumina sequencing and data analysis training provides you with an advanced skill set for successful sequencing, including troubleshooting protocols. Push your breakthrough research forward by minimizing the time and resources required to sequence samples and interpret results.

Gain experience with fully integrated Illumina sequencing and data analysis technology at our world-class facilities. Learn best practices and troubleshooting straight from Illumina experts, giving you the confidence to sequence and analyze your data successfully every time. Our courses vary by experience level so you can choose what's right for you.

Expert Instruction

Illumina sequencing and data analysis training courses offer a variety of advantages for your sequencing experience.

- Learn in small classes with two participants per instrument, guaranteeing plenty of hands-on time with Illumina sequencing systems and access to instructors.
- Network with other scientists and receive tips and tricks to help you optimize your research protocols.
- Receive expert insight and access to the newest Illumina sequencing platforms, most current software, and sample data.
- Learn the complete troubleshooting workflow, with specific case studies and general troubleshooting principles.
- Experience the most accurate next-generation sequencing technology available.

Figure 1: The Illumina Sequencing Workflow

Library Preparation

Quality Control: Library Validation

Cluster Generation

Sequencing

Quality Control: Run Monitoring

Data Analysis

Share in BaseSpace®

Illumina Technical Training Participant Feedback

"This course saved several weeks of trial and error and pointed out details that we would never have identified without it."

"I came in with preliminary experience and now understand what we would have done completely wrong."

"The guest speakers were very helpful...all followed up on my questions and got back to me with answers even after the sessions were over."

"My favorite parts were the case studies on troubleshooting. This kind of training is great for me as I have to train our internal staff and act as the main troubleshooter at our company."

The Complete Solution

Illumina sequencing training offers you an end-to-end solution, guiding you from a sequencing-ready library to meaningful results. Our courses teach you the exact protocols to follow as you perform each step of the workflow, ensuring success.

- **Introduction to Illumina sequencing and data analysis:** Learn more about Illumina's sequencing by synthesis technology and data analysis software.
- **Cluster generation:** Gain experience with cluster generation and confidence to consistently and easily repeat the clustering process.
- **Sequencing and analysis troubleshooting:** Acquire best practice skills for the sequencing process and learn how to anticipate and solve obstacles in data analysis.
- **Run monitoring and quality verification:** Learn how to monitor runs and verify run quality before starting data analysis to ensure the best results possible.
- **Exercises in data analysis:** Analyze individual data sets and complete interactive exercises designed to prepare you for any future troubleshooting needs.

Faster Genetic Discovery

Illumina training delivers the optimized workflow for consistently successful sequencing runs so that you can generate and analyze high-quality data. Expert instruction, fully integrated sequencing technology, and end-to-end experience make Illumina training the clear, cohesive route to successful sequencing.

To schedule, please call 1.800.809.4566.

For more information about specific courses, please visit www.illumina.com/training.

Note: Course discounts may be available. Contact your Illumina sales representative for more information.