GenoScreen
Innovative Genomics

BIOINFORMATICS TRAINING SESSION
NGS DATA QUALITY CONTROL (REFERENCE: GFBQCN)

LOCATION
GENOSCREEN (Lille – 59)

DURATION
½ day

PRICE
Regular session: 500 € excl. taxes

DATES
Sessions: from May 21st to 23rd & october, 2025

CONDITIONS
- Trainings combine theoretical presentations and practical work. Tangible examples are presented.
- Individual assessment of knowledge acquisition.
- Training materials provided.

CUSTOMIZED SESSION
On-site trainings with content and duration tailored to your objectives.

Please contact us for more information: click here

TYPE
60% theoretical and 40% practical.

REQUIREMENTS
Basic knowledge of molecular biology, theory of NGS technologies.

EQUIPMENT
You will need a Linux, Mac OS or Windows computer able to connect to the Internet.

PARTICIPANTS
PhD, engineers and others willing to discover and to gain autonomy in genomic data assembly and analysis techniques.

AIMS
By the end of the course, the candidate will have mastered quality analysis techniques, the choice of filtering parameters and will be able to detect the presence of a contaminant in a data set.The aim of this training is to obtain a data set of sufficient quality for further bioinformatic downstream analysis. This course will cover the processing of data from Illumina® and Oxford Nanopore Technologies® sequencing technologies.

PROGRAM
- FASTQ format reminder and raw data quality control.
- Metrics description such as basecalling, GC content distributions (basecalling), GC content distributions, biological contamination biological contamination detection methods.
- Filter parameter selection for different data sets.
- Obtain and interpret descriptive statistics for a raw data set and a filtered data set.