cogentech

Genomic Unit - NGS

Overview

The Genomic Unit of Cogentech has 15-years of experience in Next Generation Sequencing applications and offers its know-how to support your research projects. We are equipped with state-of-the-art platforms and provide complete support for a range of applications including standard RNA sequencing, ChIP-seq, Whole-Exome Sequencing, deep sequencing of target regions and advanced single-cell-omics or spatial transcriptomics–based approaches. Our laboratory is experienced in supporting Clinical Trials.

Service

We provide professional support for the entire workflow of our customer's research projects, from counseling on experimental design to functional interpretation of results. Support includes the identification of the most suitable methodology to achieve the experimental aim, quality control of nucleic acid, generation of indexed fragment library, sequencing according to experimental needs and bioinformatic support for selected applications. Customized protocols can be set-up as well. Sequencing data are delivered using a password protected user-friendly web interface.

Innovation

Our understanding of genome functions progresses at a fast pace, supported by the development of sophisticated NGS-based methodologies which are emerging faster than ever before. Staying updated with the latest innovations requires a constant effort. We strive to implement the latest and useful applications in genomics to keep our expertise updated and available to the scientific community. We support Oxford Nanopore sequencing, single cell omics applications using a 10X Genomics Chromium instrument and are available to support spatial transcriptomics projects.

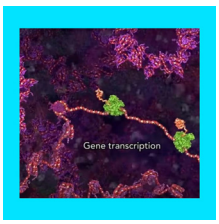
Quality

The Genomic Unit has many years of experience in the field of genomic technologies. We implemented ultra-high-speed sequencing (NGS) activities back in 2008 with an Illumina Genome Analyzer II sequencer, and exploited them over the years through usage of Illumina HiSeq2000, MiSeqDx, and NextSeq550Dx sequencers, with the latter two currently in use. We perform quality controls throughout the entire workflow and we work according to the principles of Good Laboratory Practice (GLP). Our applications and protocols are periodically updated to guarantee the highest performance.

DNA APPLICATIONS

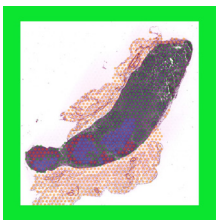
- DNA-Seq
- ChIP-Seq
- Custom applications (ChIA-PET, ATAC-Seq, 16S, Hi-C, etc)
- Custom gene-panel sequencing
- Lowpass WGS
- WES (Whole-Exome Sequencing)
- Whole Genome Sequencing (small genomes)

DNA APPLICATIONS



- mRNA-Seq
- totRNA-Seq
- smallRNA-Seq

DATA ANALYSIS, SINGLE CELL AND MORE



- Data analysis support for selected applications
- Single-cell applications (10X Genomics and DropSeq)
- Single-molecule nanopore
- DNA/RNA sequencing (Oxford Nanopore Technologies)
- Spatial transcriptomics approaches (10X Genomics Visium)

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