UC Davis DNA Technologies Core - Major Instrument List

02/2018

PacBio Sequel II Sequencer

Oxford Nanopore PromethION Sequencer

Oxford Nanopore MinION Mk1C Sequencer

Illumina HiSeq 4000 Sequencer

Illumina HiSeq 2500 Sequencer

Illumina MiSeq Sequencers (3)

Illumina NextSeq 500 Sequencer

Illumina cBot Sequencing Cluster Generator (2)

Illumina iScan Microarray, Bead Array Scanner

Agilent Femto Pulse Large Fragment DNA Analyzer

Pippin Pulse Pulsed-Field Electrophoresis System (large

Blue Pippin Automated DNA Size-Selection

Pippin HT High-Throughput Automated DNA Size-Selection

10X Genomics Chromium Controller Single-cell RNA-seq preparation, Linked Read library prep, haplotype phasing, structural rearrangements, genome scaffolding

Caliper Sciclone G3 NGS Liquid Handler Robot Sequencing library prep, RNA-seq, DNA-seq, Exome capture

QuantStudio 5, RT-qPCR Thermocycler RT-qPCR quantifications, genotyping

Covaris E220 Focused-Ultrasonicator DNA sonication, 96 sample, fragmentation, ChIP-seq

Diagenode Megaruptor Large Fragment DNA Shearing

Agilent Bioanalyzer 2100 DNA/RNA Fragment Analyzers (2)

Perkin Elmer LabChip Gx 96 well, sample QC, library QC, microcapillary gel electrophoresis, DNA, RNA

FilterMax F5 Plate Reader (Molecular Devices) 96 well/384-well, Absorbance, Fluorescence, Luminescence, DNA RNA quantification

BorealGenomics Aurora Nucleic acid purification and extraction

Fluidigm C1 single cell processor Single-Cell processing, mRNA sequencing, DNA sequencing, epigenetics, miRNA expression

Fludigm EP1 High throughput SNP genotyping, end-point PCR applications

Fludigm AX Access Array Highly multiplexed amplicon sequencing library preparation

Takara Apollo 324 library prep robot Sequencing library prep, RNA-seq, DNA-seq

Nanodrop Micro Volume Spectrophotometer Nucleic acid purity

Qubit Fluorometer Precise nucleic acid quantification

Eppendorf Vacufuge Plus Concentrator

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