**Hamamatsu NanoZoomer HT 2.0**

**General:**
Available at Hamamatsu.
Virtual Slide Scanner NanoZoomer 2.0-HT - HAMAMATSU – Brochure

The system can process up to 210 slides per run and supports magnifications of 20x and 40x, with a slide size of 76 mm × 26 mm.

**Details:**
Applicable for histology.

**Research Areas:**
- Digitization of samples:
    - Histology
    - Cytology
    - Hematology
    - Bacteriology
    - Human and Veterinary Laboratory Medicine

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**Histology Laboratory (Microtome, Cryostat, Staining Station, Tissue Processing)**
**General:**

The histology laboratory is equipped with microtomes, a cryostat, a staining station and systems for tissue processing.

**Details:**
Applicable for histology.

**Research Areas:**
- Histology: Formalin fixed tissue, fresh frozen tissue
- Cytological samples

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**MGI Sequencer G400**

**General:**
Available at MGI. DNBSEQ-G400 | Your Day-to-Day Sequencing Solution
Each sequencing run delivers up to 550 million reads with the small flow cell or up to 1.8 billion reads with the large flow cell. It is possible to process up to four whole genome sequencing samples per run.

**Details:**
Applicable for:

Whole-Genome
Gene Expression
Targeted Analysis
Metagenomics
Identification
Population Studies
Transcriptome
Methylation Analysis
Multiomics

**Research Areas:**
- Spatial Biology / Omics
- Single Cell in Suspension (e.g. PBMCs)
- Bacteria in tissue whole genome sequencing
- Animal WGS
- Human Transcriptomics
- Workflow Establishment and Optimization

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**Single Cell Workflow for Spatial Omics and Single Cell Encapsulation (10x Chromium at external partner lab)**

**General:**
Our single cell workflow enables high-resolution analysis at the cellular level, supporting both spatial omics and single cell encapsulation from single cell or nuclei suspensions from fresh, frozen, or FFPE samples. For encapsulation, we collaborate with an external partner laboratory equipped with the 10x Genomics Chromium system.
Chromium Single Cell Platform - 10x Genomics

**Details:**
Whole transcriptome gene expression
Protein,
TCR, BCR
CRISPR
ATAC

**Research Areas:**
- Single Cell Sequencing
- Workflow Establishment and Optimization

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**Tecan Fluent**

**General:**
Available at Tecan. Fluent - the effective way to increase productivity - Tecan
The Tecan Fluent is an advanced liquid handling workstation designed for high precision and efficiency in molecular biology workflows.

**Details:**
Spatial transcriptomics.

**Research Areas:**
- Standardised, fully-automated NGS prep
- 3D cell culturing, Tissue Engineering

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**RNAscope In-situ Hybridization Equipment**

**General:**
Available at Bio-Techne. RNAscope ISH Technology – Bio-Techne
The equipment enables precise spatial analysis with the ability to visualize and quantify RNA. It supports multiomic approaches for the characterization of different organisms and tissues and can be adapted to specific targets and species.

**Details:**
Spatial Biology
Biomarker Development
Gene Therapy
Cell Therapy

**Research Areas:**
- In-situ Hybridisation (tissue, organoids, CFU, cultured cells, cytological samples)
- Single mRNA molecule detection

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**Subtitle (small): Roche Cycler (qRT-PCR)**
**General:**
Available at Roche. LightCycler® 96 Instrument – Roche
The device can process up to 96 samples within 40–50 minutes and allows the use of up to four different fluorescent dyes.

**Details:**
Gene expression analysis
Gene detection
Gene scanning
Mutation detection
Methylation analysis
miRNA research
Relative quantification of target genes.

**Research Areas:**
- Molecular Biology
- PCR assay development
- Primer design, testing and validation