

CHILL ML-1 Laboratories for Biotech

CHILL aims to achieve excellence in various science related fields, bringing expertise from different branches together to realize innovation. In which state of the art research is combined with partners in education and industry. The unique way of working in communities of development (CfD) accelerates development and innovation, leading to high quality research in both fundamental and applied aspects of science.

ML-1 laboratories

Microbiology and Biochemistry

Techniques/Application

- Antibacterial activity assays
- Antibody mediated assays
- Antimicrobial activity
- Antiviral activity
- Bacteriological culture
- Cellular analysis
- Enzymatic assays
- ELISA
- Microbiological assays
- Microscopic analysis (Fluorescence)
- Protoplast (plant cells)
- Protein analysis
- Protein purification
- Small/Medium scale bacterial fermentation (up to 1 liter)
- Transformation

Molecular Biology

Techniques/Application

- Cloning and Synthetic biology
- CRISPR
- DNA/RNA analysis qPCR
- Epigenetics
- Gene expression analysis
- Genome editing
- Genotyping
- Molecular biology
- Primers & Probes Design
- SNP analysis

Cell Culture

Techniques/Application

- Antibody mediated assays
- Cell based assays
- Cytotoxicity assays
- Molecular analysis
- Primary cellines
- Protein expression
- Transfection
- Viability assays

Equipment

- Äkta Chromatography (GE)
- Applikon bioreactor (500ml)
- Systec VX95 autoclave
- CO₂ Incubator (Galaxy 170R)
- Colony counters
- Fluorescent microscope (Zeiss)
- Gel electrophoresis (Bio-Rad)
- Gel image system (Azure C280)
- Laminar flow cabinet
- (Scanlaf Mars Pro Cytosafe Class 2)
- Motic Microscope
- Nanophotometer (NP80)
- Centrifuges (Eppendorf 5810R and 5427R)
- Fermenter (Bioflow 3000)
- PCR (Bio-Rad T100)
- PCR workstations
- pH meter
- Real-time PCR (LC96 and LC480)
- VarioskanLux (UV/VIS, luminescence and fluorescence)
- -80°C and -150°C freezers
- Fluorescent inverted microscope and camera (Motic)
- Laminar flow cabinet (Labogene)
- Shake incubator (Innova 42/42R)
- Western blot (Bio-Rad)

