

Facility wise equipment list

I. Microbiology facility

Major instruments

1. Biosafety cabinet level B2, (YU-YRC/311)
2. Euromex stereo microscope (YU-YRC/385)
3. Euromex fluorescent microscope (YU-YRC/344)
4. Autoclave (YU-YRC/302)

Minor instruments

5. Incubators and shaking incubators
6. BOD cooling incubators and shaking incubators
7. Shakers and tube rotators
8. Labomed darkfield microscope
9. Leica binocular microscope
10. Olympus trinocular microscope
11. Bio-Rad Electroporator

II. Cell culture facility

Major instruments

1. CO₂ incubators (YU-YRC/300)
2. Hypoxia chamber (YU-YRC/415)
3. Flow cytometer (YU-YRC/306)

Minor instruments

4. Primovert inverted microscope
5. Biosafety cabinet level II
6. Cell counter
7. S3e cell sorter (FACS)
8. Zoe Fluorescent imager,
9. EVOS digital inverted fluorescence imager,

III. Molecular Biology facility

Major instruments

1. Electrophoresis apparatus (YU-YRC/337)
2. CFX96, qRT-PCR (YU-YRC/328)

Minor instruments

3. Vilber Gel documentation system,
4. UV Chamber

5. SureCycler 8800 PCR/Thermalcycler
 6. Prima Thrio Thermalcycler
 7. Colibri Nano drop
 8. Probe sonicator
- IV. Metabolomics and proteomics
1. Orbitrap fusion Mass spectrometer, Thermoscientific (YU-YRC/354)
 2. AB SCIEX Qtrap 6500, Thermoscientific

V. Chemistry/Nanotechnology

Major instruments

1. Digital rotary evaporator (YU-YRC/346)
2. Over head stirrer (YU-YRC/374)
3. Labconco lyophilizer (YU-YRC/383)

Minor instruments

4. Brookfield Rheometer
5. Muffle furnace
6. Vaccum oven
7. Anton Par MCR 92 Rheometer,
8. Fume Hood

VI. Animal study facility

Major instruments

1. Individually ventilated cage system for mice
2. RWD R53S Small animal anaesthesia system,

Minor instruments

3. Semi auto biochemical analyser (YU-YRC/416)
4. Auto hematology analyser (YU-YRC/323)
5. Electrolyte analyser (YU-YRC/325)
6. Urine analyser (YU-YRC/326)
7. Leica Semi automatic micrtome (YU-YRC/322)
8. Leica Tissue processor (YU-YRC/320)
9. Leica Heated paraffin embedded module (YU-YRC/321)

VII. Analytical facility

Major instruments

1. Shimadzu FT-IR spectrophotometer (YU-YRC/238)
2. Hitachi Fluorescence spectrophotometer (YU-YRC/379)

3. Multimode microplate reader (UV-Vis, Luminescence) (YU-YRC/366)
4. Shimadzu UV spectrophotometer (YU-YRC/327)
5. Cooling centrifuge (YU-YRC/331)
6. Milli-Q water purification system (YU-YRC/401)
7. Thermoscientific Speed vac (YU-YRC/356)

Minor instruments

8. Sartorius Ultrapure water purification system
9. Hi-Point plant growth chamber
10. -80 °C Deep freezers
11. -20 °C Freezers