

Pediatric Research

LIST OF IRP FACILITIES

ANNEX A

- **BL2 Cell Culture Rooms**
- **Flow Cytometry and Sorting Facility:** two cytometers, a FC500 and a Cytoflex; and three cell sorters, MoFlo XDP, FACS Aria III and FACS Celesta;
- **Next generation sequencing:** Ion Proton System (ThermoFisher) and a MiSeq System (Illumina).
- **Microscope facility:** Aryscaan LSM 800 URG 3ch confocal microscope for nano-resolution image acquisition (ZEISS); Axio Observer 7 Motorised X,Y stage and Z focus microscope with LED technology, equipped with a CO2 thermostatic incubator for live cell imaging experiments (ZEISS); JEM-2100Plus transmission electron microscope; Thunder Imager Model Organism fluorescence stereomicroscope (Leica); spinning disk confocal microscope with laser and LED technology, incubator for temperature, CO2 and O2 control, and software for high content imaging (Evident).
- **3D bioprinter:** Bio X (CellInk) for tissue engineering and regenerative medicine applications.
- **Zebrafish Facility:** Three rooms equipped with approximately 80 aquariums and capable of housing up to 2,000 zebrafish. Two microinjectors and two stereomicroscopes are available, one of which is fluorescent.
- **Mus Musculus Facility:** includes cages and equipment for housing mice. Two rooms equipped with laminar flow hoods and chemical hoods are available for conducting experiments. Additional

equipment: X-ray irradiator; gas anaesthesia system; VIS LUMINA S5 in vivo imaging system; washing room, equipped with a machine for washing and disinfecting cages and a pass-through autoclave for sterilising/inactivating material.

- **Other High-Tech Instruments:** Optima XE90 ultracentrifuge with 4 different rotors (Beckman Coulter); Spark plate reader (Tecan); iBright FL1500 imaging system (ThermoFisher Scientific); LI5 DIGIT RS232 freeze dryer; Isolation and analysis of single cells with the Rhapsody system (BD); TapeStation4150 for DNA or RNA QC (Agilent Technologies); Qubit4 for nucleic acid and protein quantification (ThermoFisher Scientific); Cryostat (Leica); NS300 nanoparticle analyser (Alfatest); Realtime QuantStudio 5 thermocycler (ThermoFisher Scientific).