



ricerca pediatrica



Fondazione
Cassa di Risparmio
di Padova e Rovigo

ANNEX A List of Facilities at the Pediatric Research Institute

- **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:** ZEISS LSM 800 URGB 3ch Ayscan confocal microscope; ZEISS AXIO Observer 7 Motorized X, Y stage and Z focus fluorescence microscope for live cell-imaging; JEM-2100Plus Transmission Electron Microscope; Leica Thunder Imager Model Organism fluorescence stereomicroscope.
- **3D bioprinter:** Bio X (CellInk) for tissue engineering and regenerative medicine applications.
- **Zebrafish Facility:** three separate rooms containing one Stand-Alone (Tecniplast) with a total of 80 fish tanks able to houses up to 2,000 zebrafish. The lab room houses two microinjectors and two stereomicroscopes, one of which is equipped with fluorescence.
- **Mus Musculus Facility:** comprises of a dedicated space equipped with mouse cages, operating theatres with stereomicroscopes, anesthesia apparatuses, imaging system, X-Ray irradiator, chemical and fume hoods, and a washing room for cages cleaning and autoclaving infected material. The animal housing facility is located within the building and technical staff ensure that protocols and procedures are performed at the highest standards/ levels of animal welfare (DLvo 26/14).
- **Other High-Tech Instruments:** Ultracentrifuge Beckman Coulter Optima XE90, plate reader Spark Tecan, iBright imager FL1500 ThermoFisher Scientific; LI5 DIGIT RS232 freeze dryer; Isolation and QC of single cells BDRhapsody System; Leica cryostat; In vivo imaging system VIS LUMINA S5.