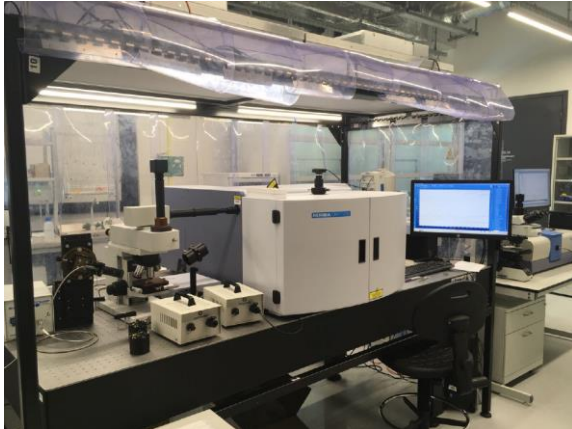


The BioImaging and Spectroscopy Core Facility

List of equipment:

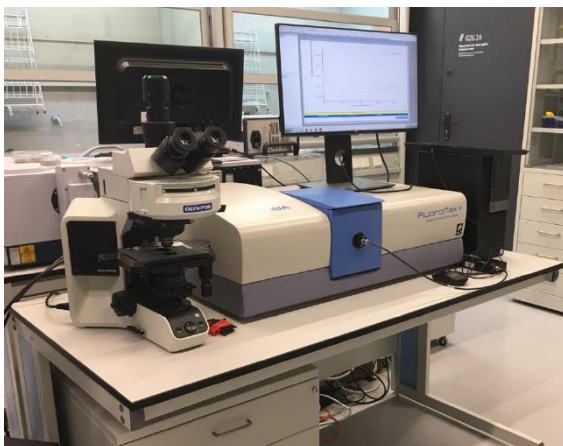
1. **Raman Spectrometer** LabRam HR Evolution. Raman spectroscopy refers to vibrational molecular spectroscopy.



2. **Time-resolved confocal microscope** Picoquant, MicroTime 200 STED. Allows to detect sample images in the fluorescence life time scale (fluorescence life-time imaging microscopy), g_2 correlation functions, super-high resolution STED (stimulated emission depletion) microscopy.



3. **FluoroMax 4, HORIBA Spectrofluorometer** is a powerful instrument for measuring the fluorescence of solids, liquids, powders and thin films.



4. **The Agilent Carry 5000 Spectrophotometer** is a high-performance spectrophotometer operating in the 180 nm -3.3 micron spectral range.



5. **Ellipsometer SENresearch 4.0. Sentech** is spectroscopic Instruments with high spectral resolution allows to analyze the substrate up to 200 microns.



6. **LUNA OBR 4600** is an optical reflectometer that uses backscatter for testing photon components with high spatial resolution.



7. **High resolution optical spectrum analyzer Bosa 400** (Optical Spectrum Analyzer) using Mandel'shtam-Brillouin stimulated scattering spectroscopy to characterize materials and photon components.



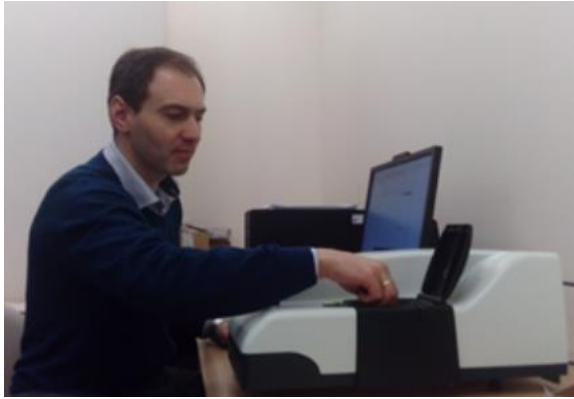
8. **Analytical Scanning Electron Microscope (SEM) JEOL JSM-7200F PRIME**



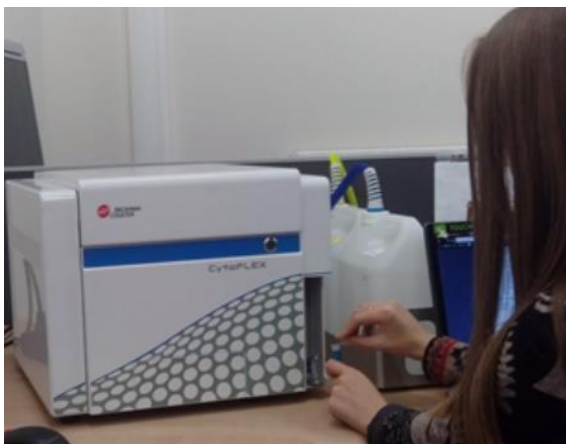
9. **Angstrom Nexdep** electron beam deposition system. Designed for spraying metals and dielectrics in a vacuum chamber.



10. Zetasizer Nano ZS particle size and electrokinetic potential analyzer



11. Flow cytometer CYTOFLEX (Beckman Coulter, USA).



12. An in vitro high-contrast imaging system combined with a rotating disk-based confocal module (Operetta High Content Imaging System, PerkinElmer Inc., USA).



13. Planar illumination microscopy system Lightsheet.Z1



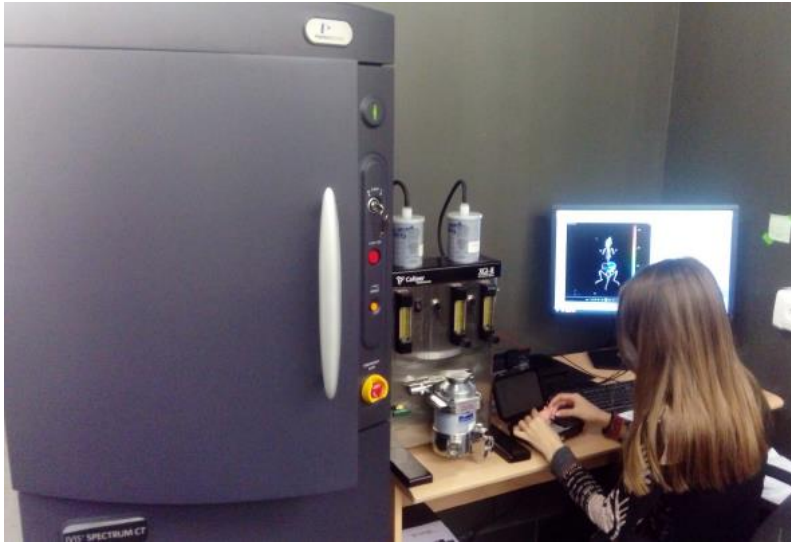
14. Laser scanning microscope ZEISS LSM 800 with Airyscan technology.



15. Inverted motorized microscope Axio Observer.Z1



16. The preclinical in vivo 2D and 3D imaging system with digital microtomography (microCT) (IVIS SpectrumCT In Vivo Imaging System.)



17. Optoacoustic preclinical in vivo imaging system of hemoglobin, melanin and contrast agents (Raster scanning optoacoustic mesoscopy system (RSOM), iTheraMedical, Germany).

