

1. Optical and scanning laser confocal microscopy of various biological, biomedical, chemical, physical objects. 3D reconstructions and timelapse visualization in bright field, dark field, phase contrast and fluorescence microscopy. Scanning laser confocal microscope LSM 780 (Carl Zeiss).
2. Atomic force microscopy of various biological, biomedical, chemical, physical and composite objects. 3D imaging. Atomic force microscope Dimension FastScan (Bruker).
3. Scanning electron microscopy of biological, biomedical, chemical, physical and composite objects. High resolution of imaging up to 1 nanometer. Defectoscopy, energy dispersive elemental analysis, mapping, crystallographic structural analysis. Shuttle & Find correlation microscopy system. Field emission scanning electron microscopy multipurpose analytical complex Merlin (Carl Zeiss).
4. Transmission electron microscopy of biological, biomedical, chemical, physical and composite nano-objects. Defectoscopy, energy dispersive elemental analysis and mapping, ultra high resolution of imaging up to 0.144 nanometers. Atomic resolution transmission electron microscopy for the study of nano-objects HT7700 Exalens (Hitachi).
5. Special probe preparation laboratory for biological probes  
 Ultramicrotome UC7 (Leica)  
 Critical point dryer for electron microscopy K850 (Quorum)  
 Vacuum coater Quorum Q 150T ES
6. Special probe preparation laboratory for material sciences  
 IsoMet 5000 Linear Precision Cutting Machine, Grinding and polishing machine EcoMet 250 with semi-automatic nozzle AutoMet 250 (Buehler), Automatic shrinking machine SimpliMet (Buehler), Vibration polishing machine VibroMet 2 (Buehler), Vacuum impregnation system Cast N 'Vac 1000 (Buehler) Laboratory centrifuge Z 216 MK, Laboratory scales AND GR 202, Laboratory desiccator LF-25/350 VS1, Roller mixer MOVIL-ROD, Centrifuge with cooling BS-010 213 (BioSan), Vacuum coater Quorum Q 150T ES.