

Methodological facilities of the Interdepartmental *in vivo* Research Laboratory

Division of Anatomy and Neurobiology

1. LSM 880 laser scanning confocal microscopy system (Zeiss, Germany) combined with an Axiolmager.Z2 microscope (Zeiss, Germany), 2015.
2. Automated behavioral analysis system Video Track v. 2.5, 2006.
3. Equipment for open field test in high light intensity (behavioral test), 2007.
4. System for fear conditioning with Morris pool, 2007.
5. Electrical stimulator for laboratory animals, 2007.
6. EEG device, 2007.
7. Rotating roller for rat motor studies, 2012.
8. Barnes maze for rats, 2013.
9. Raised cross maze for rats, 2013.

Division of Clinical Chemistry

1. Inverted fluorescence microscope with digital camera 73 (Olympus).
2. Transdermal glomerular filtration rate monitor MediBeacon, 2018, LED emitter along with fluorescence detector.
3. Flexar high-pressure liquid chromatograph with fluorescence detector (Perkin Elmer), 2010.

Department of Pharmacology

1. Myograph – FS 350 RT AMP350A and PIM 350RT AMP350RT muscle fiber and vascular contraction force measurement kit; 2006 and 2018.
2. Steiert Organ Bath myocardial contractility test kit, type 813, DC temperature regulator, type 319, HSE (Germany); + equipment – mechanical heart muscle measurement kit along with an electrical stimulator; 2001 and 1996.
3. Aggregometer type 490-2d, 2008.
4. Langendorff kit – equipment for experiments on the isolated heart – designed for perfusion of isolated hearts of small animals; 2007.
5. Trendscope cardiac monitor type 8031 (Oscilloscope); 1995.
6. IB-100 inverted fluorescence microscope with TPK-162 camera with PWM vidicon, 2012.
7. Chloridizer – Ag-AgCl electrode formation device; HSE Auto 863, 1994.
8. Telemetry system for rodents with a mat of at least 107g, 201.

Department of Biochemistry

1. Hypobaric chamber for small laboratory animals connected to Biopac System MP 100 and computer with AcqKnowledge 3.7.2 software, 2021.
2. Ultrasound and ECHO-Vero 1100 Imaging System, 2018.
3. Device for measuring muscle strength in laboratory animals, GSM Grip-Strength Meter, Ugo Basile, 2017.
4. Seahorse metabolic analyzer, Agilent, 2018.
5. Erba Biochemical Analyzer, 2018.
6. Agilent 110 series liquid chromatograph (HPLC) with equipment, 2012.
7. Nexera liquid chromatograph (HPLC) - LC 2040c 3D plus LC, 2020.
8. Liquid chromatography system with mass detector, LC/MS Thermo TSQ Vantage + LC Surveyor, 2012.
9. Zeiss Axio Observer 7 fluorescence microscope.
10. Oscillating microtome with cooling system, 2012.
11. Ventilator for laboratory animals, 2012.
12. Inhalation anesthesia system, 2018.

Division of Biopharmacy and Pharmacokinetics

1. Mouse maze with video analysis software.
2. Mindray DP-20 Vet ultrasound device.

Division of Pharmacodynamics

1. Analgesimeter
2. Veterinary electrocardiograph.
3. Plethysmometer for non-invasive measurement of blood pressure in rats.
4. LE 7500 plethysmometer for measurement of rat paw edema.