





List of laboratory equipment of the Department of General Biology and Genomics

Photo	Name of equipment	Purpose
	1. Thermostat ТЖ–Т5-01	It is used for incubating samples at a certain t0 and heating buffers to working t0
	2. Vortex Snijders	It is used for mixing, dissolving and homogenizing various reagents
	3. Distiller YA-20-10	Used to obtain distilled water
	4. Minispin-Eppendorf	Used for liquid separation by mass



5. Microcentrifuge
Manofuge

It is necessary for the deposition of reagents remaining on the walls or lids of the microtube



6. Electronic scales
Zhimadzu AY 120

Used for accurate weighing of reagents


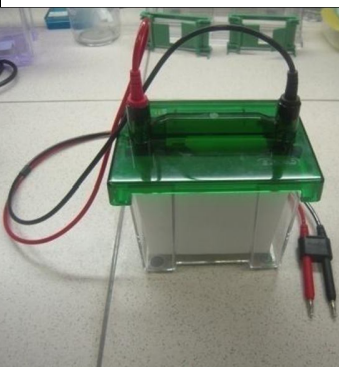



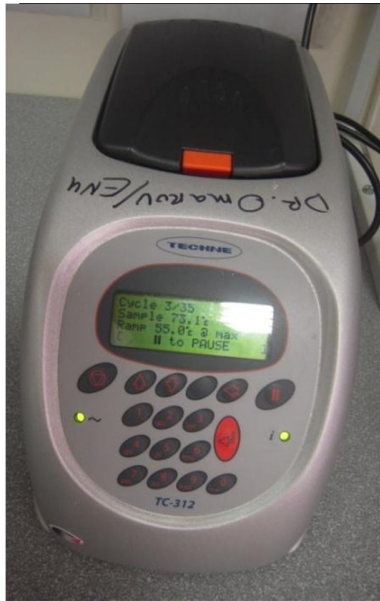
7. Desiccator MC-80-01
CIY

Used for drying and disinfecting laboratory glassware



8. Hotfen sxpower supply.

	<p>9. PH-meter 150</p>	<p>Used to measure pH levels in various solutions</p>
	<p>10. Electrophoresis Scile-Plas</p>	<p>Used to separate Biological molecules by their molecular weight and measure their molecular weight in an electric field</p>
	<p>11. БАВП-01 «Ламинар-С»-1.2</p>	<p>Used to work under sterile conditions</p>



12. PCR- MiniCycler™
TC-312. Techne.

Used to raise small concentration of certain DNA fragments in biological material



13. PCR MiniCycler

Used to raise small concentration of certain DNA fragments in biological material



14. Mixer «ЭКРОС»

Used for mixing cultures and solutions



15. Magnetic stirrer
«Dahan Technologies»

Used for mixing chemical solutions and mixtures



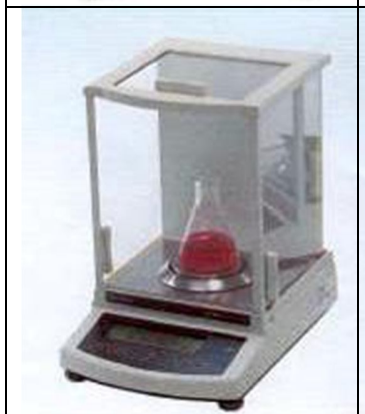
16. Steam sterilizer
(autoclave) CIIBA-75-1-
HH

For sterilization of instruments and media



17. Centrifuge 5804 R

for working with cells, for separating cell lysates, for DNA precipitation



18. Analytical scales AY
220

measuring the specific gravity of a substance



19.
Electronic laboratory scales
UW220H

Mass measurement







20. Transilluminator
Caution

Visual assessment of the results
of horizontal electrophoresis



21. Labculture Class II Type
B2 BSC Generation 2 (LB2
G2)

To work with cell culture

	<p>22. Horizontal electrophoresis chamber</p>	<p>for detecting amplification results</p>
	<p>24. Microscope «Альтами БИО 1»</p>	<p>Magnification 40x-1500x for microscopy</p>
	<p>25. Laboratory bath «ЛБ-12-2»</p>	<p>They are used to solve thermostating problems that do not require high accuracy of temperature maintenance and uniformity of the temperature field in the working volume</p>
	<p>26. Centrifuge «L530»</p>	<p>For working with cells, for separating cell lysates, for DNA precipitation</p>



27. Histoprocessor «MTP»

A carousel-type tissue guiding machine that meets all the requirements of modern histopathological laboratory practice regarding sample safety, processing speed, economy, ergonomics and environmental friendliness






28. Fluorescence microscope «EVOS Color» FL/FL

Designed for a wide variety of techniques, including multichannel fluorescence imaging of cells, protein analysis, pathology analysis and in situ imaging



29. Muffle furnace SNOL 8,2/1100

Ideal for a variety of laboratory operations and has been successfully used in R&D and factory laboratories

	<p>30. Thermostat «TCO-1/80 ЧИY»</p>	<p>Automatic regulation and maintenance of the set temperature, independent of the ambient temperature</p>
	<p>31. Freezer Haier dw-861388</p>	<p>Freezers DW-86 (temperature mode 86 degrees) are designed to store white and red blood cells, skin, bone tissue, bacteria, sperm, biological materials, marine products, electronic components and test specimens requiring storage at low temperatures</p>
	<p>32. Gel documenting system «E-BoxVX2/20MX»</p>	<p>They are used to visualize and save the results of working with DNA samples (dyes: ethidium bromide, Sybr Gold, Sybr Green, Texas Red, Gel Star), with protein samples (dyes: Coomassie blue, SyproOrange, SyproRuby, SyproRed, Silver Star, Fluorescein, Fluorescein , Qdot), with chemiluminescent samples (ECL, ECL Advance, ECL Plus, ECL Plex, CDP Star, Super Signal, Qdot, CSPD)</p>



33. Amplifier
«Eppendorf 6331»

Has a gradient heating function that makes it possible to set 12 different temperatures in the thermoblock simultaneously, selecting the optimal temperature for annealing the primers.



34. Spectrophotometer
«Biophotometer plus 6132»

Compact photometer for fast and reliable concentration analysis of one- and double-stranded DNA, RNA, oligonucleotides, protein by optical density by Lowry and Bradford methods, by BSA, suspension density bacterial cells; for automatic determination of the concentration of a component in a sample



35. Thermoshaker «ts-100c biosan»

Provides mixing and temperature control of samples in microtest tubes, PCR plate



36. Dry Block Thermostat
«Bio TDB-120»

Designed to maintain a constant temperature of samples in test tubes placed in the wells of the block.



37. Ultra microscales
«Sartorius CPA 6238 »

Meet the most demanding requirements when you need to obtain a measurement result quickly and with the highest accuracy






38. Distiller «ДЭ-4»




Used in medical, research and industrial laboratories, pharmacies. Has a capacity of 4 liters per hour. High alloy stainless steel body 12X18H10T (AISI 321).



39. Microscope «KOZO-XJ»

Magnification 40x-1000x for microscopy

	<p>40. Analytical scales «BJIP 200»</p>	<p>Laboratory balance equal shoulder 2- of the first class are designed for accurate determination of the mass of a substance during laboratory analyzes</p>
	<p>41. Magnetic stirrer with heating «Stuart US152»</p>	<p>Stylish and economical general purpose heating plate. Its compact form takes up less space on desktop and simplifies the storage procedure. The hotplate is microprocessor controlled. The UC152 can also be used in conjunction with the SCT1 digital temperature controller to precisely control the sample temperature rather than heating surface</p>
	<p>42. Benchtop centrifuge «Power Spin LX»</p>	<p>Compact and quiet centrifuge benchtop centrifuge, 300-3400 rpm</p>

 <p>The image shows a white and blue Cobra4 Spirometer. It has a large white cylindrical mouthpiece on the front. The device is labeled 'Cobra4 Spirometer' and 'PHYWE'.</p>	<p>43. Spirometer «Cobra4»</p>	<p>The spirometry sensor is used to measure respiration, depending on the lung volume. Air velocity measurement is also possible</p>
 <p>The image shows a white and blue Cobra4 Wireless Link device. It has a small digital display and several ports. A white cable is connected to the top, and a wooden ruler is placed next to it for scale.</p>	<p>44. Regulation of human body temperature «Cobra4»</p>	<p>Regulation of human body temperature through external influence</p>
 <p>The image shows an experimental setup for Electronystagmography (ENM). It includes a black power supply unit, a white cylindrical sensor, and a black mat with a white line on a wooden table.</p>	<p>45. Change in blood circulation while smoking «Cobra4»</p>	<p>Electronystagmography (ENM) is an electrophysiological a diagnostic procedure to measure eye movement. Several electrodes measure the potential difference caused by eye movements</p>



46. Temporal resolution of the human eye
«PHYWE P4070300»

Defines the perimeter; time-related resolution as well as flickering of frequency flickers; light / dark eye adapted



47. Hand dynamometer
«Д-100»

Designed to measure the muscle strength of the hand in groups of people of different age and physical condition



48. Tonometer «Biola»

Professional device for measuring arterial pressure



49. Spirometer

It is used to determine the breathing capacity