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**Федеральное государственное автономное образовательное учреждение
высшего образования «Российский университет дружбы народов»**

Медицинский институт

(наименование основного учебного подразделения (ОУП) – разработчика программы)

Утверждена на заседании УС
Медицинского института,
протокол № 9
от «14» апреля 2022 г.

**ПРОГРАММА ПОДГОТОВКИ НАУЧНЫХ И НАУЧНО-ПЕДАГОГИЧЕСКИХ
КАДРОВ В АСПИРАНТУРЕ**

Научная специальность:

1.5.4. Биохимия

(код и наименование научной специальности)

Направленность (профиль):

Biochemistry: Molecular Mechanisms of Cancer

(наименование программы подготовки научных и научно-педагогических кадров)

Программа подготовки научных и научно-педагогических кадров в аспирантуре
разработана в соответствии с требованиями:

СУТ РУДН, утвержденных приказом ректора № 139 от «09» марта 2022 г.

Срок освоения программы подготовки научных и научно-педагогических кадров в
аспирантуре:

4 года

(очная форма обучения)

Сведения об особенностях реализации программы: нет

СОГЛАСОВАНО:

Руководитель программы

Покровский В.С.

(подпись)

Начальник УОП

Воробьева А.А.

(подпись)

Руководитель ОУП

Абрамов А.Ю.

(подпись)

Начальник УПКВК

Сафир Р.Е.

(подпись)

2022 г.

1. THE PURPOSE OF THE POSTGRADUATE PROGRAM

The purpose of the postgraduate course is to orient the graduate student to the development of an academic career, maximum adaptation in the scientific environment.

The goal is to train highly qualified scientific and scientific-pedagogical personnel.

The goal is the final original scientific research that contributes to the creation, expansion and development of scientific knowledge.

The purpose is to prepare and defend a dissertation for the degree of Candidate of Medical Sciences.

2. BRIEF SUMMARY OF THE PROGRAM

The main educational program Biochemistry Molecular mechanisms of cancer for the training of scientific and scientific-pedagogical personnel (postgraduate program) in the scientific specialty 1.5.4. Biochemistry is developed in accordance with the requirements of the Day of the RUDN (Rector's Order No. 139 dated March 09, 2022).

The term of education under the postgraduate program in the scientific specialty 1.5.4. Biochemistry is 4 years.

The form of study is full-time.

The total volume of the postgraduate program in the scientific specialty 1.5.4. Biochemistry is 240 credit units.

The postgraduate program in the scientific specialty 3.1.15. Biochemistry includes scientific and educational components and final certification.

3. THE NEED OF THE LABOR MARKET FOR GRADUATES WHO HAVE MASTERED THE POSTGRADUATE PROGRAM

When developing and implementing postgraduate programs, an educational organization focuses on a specific type (types) of professional activity for which a graduate student is preparing, based on the needs of the labor market and the material and technical resource of the educational organization.

Graduates of the postgraduate program in the scientific specialty 1.5.4. Biochemistry can carry out their activities in educational institutions of higher education, in specialized scientific institutions and innovative and active enterprises engaged in scientific and educational activities in the field of biomedicine, biopharmaceutics and other biological sciences. Modern educational, research and other organizations are in dire need of professional researchers and research teachers capable of developing scientific and pedagogical activities, possessing appropriate technologies and skills. The demand for graduates of the Basic educational program 1.5.4. "Biochemistry Molecular mechanisms of cancer" of training of highly qualified personnel (postgraduate studies) is determined based on the analysis of the Russian labor market of scientific and scientific-pedagogical workers in the field of biological sciences. The place in the labor market of graduates of the Main educational program 06.06.01 "Biological Sciences" meets the requirements of the quality of training graduates in demand on the market in modern conditions. All graduates of this program are successfully employed.

4. REQUIREMENTS FOR AN APPLICANT ENTERING THE PROGRAM

An applicant entering the training program for the training of scientific and scientific-pedagogical personnel in the scientific specialty 3.1.15. Biochemistry must have a higher education (specialty) specialty: "medicine", "pharmacy", "biology", "chemistry", "biotechnology".

The procedure for admission to postgraduate studies and the conditions of competitive selection are determined by the current order of the Ministry of Science and Higher Education of the Russian Federation "On approval of the Procedure for admission to higher education educational programs – programs for the training of scientific and scientific-pedagogical personnel in postgraduate studies", the Rules of admission to the RUDN for training in the main educational programs for the training of highly qualified personnel – postgraduate programs.

The entrance test to graduate school is conducted in writing. The results of the written response are evaluated according to a 100-point system. Applicants are also entitled to provide information about their individual achievements. Competitive points are made up of the sum of points for the entrance test and individual achievements.

5. STRUCTURE AND SCOPE OF THE PROGRAM FOR THE TRAINING OF SCIENTIFIC AND SCIENTIFIC-PEDAGOGICAL PERSONNEL IN GRADUATE SCHOOL

The structure and scope of the postgraduate program – the period of mastering 4 years in full-time.

№	Structure of the postgraduate program	The scope of the postgraduate program in c.u.
1. Scientific component		210
1.1.	Scientific activity aimed at preparing a dissertation for defense	178
1.2.	Preparation of publications and (or) applications for patents for inventions, utility models, industrial designs, selection achievements, certificates of state registration of programs for electronic computers, databases, topologies of integrated circuits provided for in paragraph four of paragraph 5 of federal state requirements	24
1.3.	Intermediate certification according to the stages of scientific research	8
2. Educational component		30
2.1.	Disciplines (modules)	13
2.2.	Practices, including pedagogical practice	5

2.3.	Intermediate certification in disciplines (modules) and practice, including pedagogical	6
3. Final certification		6
The scope of the postgraduate program		240

6. CHARACTERISTICS OF THE GRADUATE'S PROFESSIONAL ACTIVITY

6.1. The field of professional activity of graduates who have mastered the postgraduate program includes the training of a specialist who possesses fundamental theoretical knowledge and practical skills in conducting biochemical and molecular biological research, who has reached the professional level necessary for conducting scientific work, who is able to successfully and timely complete a dissertation research for the degree of candidate of medical sciences.

6.2. The objects of professional activity of graduates who have mastered the postgraduate program are biological and molecular objects; a set of tools and technologies that allow the study of molecular biological and biochemical processes.

6.3. Types of professional activities for which graduates who have mastered the postgraduate program are preparing:

research activities: study of molecular and biochemical mechanisms of diseases, identification of markers for timely diagnosis, molecular targets for pharmacological correction, conducting preclinical studies of drugs, studying the molecular basis of their side effects – improving the quality and duration of human life by conducting fundamental and applied research in molecular medicine;

- teaching activity: according to educational programs of higher education. Methods of teaching disciplines within the training profile.

6.4. Tasks of professional activity:

formation of highly specialized medical knowledge in the scientific specialty

1.5.4. Biochemistry;

- training of a researcher with systemic thinking, well-versed in complex molecular and biochemical mechanisms, with in-depth knowledge of related disciplines;

- formation of skills in mastering the latest technologies and techniques in the field of their professional interests;

formation of competencies of a biochemist-researcher in accordance with the types of professional activity.

7. PLACE OF IMPLEMENTATION OF THE POSTGRADUATE PROGRAM

7.1. The postgraduate program is implemented by the Russian Peoples' Friendship University.

7.2. Information about the planned bases for conducting practices and (or) performing scientific research

Practice and research*	The base of the practice (name of the organization, location)
- Pedagogical practice; - Scientific research	FSAEI HE "Peoples' Friendship University of Russia", Medical Institute, Miklukho-Maklaya str., 8., Moscow,

Practice and research*	The base of the practice (name of the organization, location)
	117198, Russian Federation

8. FEATURES OF THE IMPLEMENTATION OF THE POSTGRADUATE PROGRAM

8.1. The postgraduate program is implemented with elements of e-learning/distance learning technologies (lecture-type classes).

8.2. The language of the postgraduate program implementation is Russian.

8.3. The program is adapted for teaching disabled people and persons with disabilities.

E-learning, distance learning technologies used in teaching disabled people and persons with disabilities provide for the possibility of receiving and transmitting information in forms accessible to them.