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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:

3.3.3 Патологическая физиология

(код и наименование научной специальности)

Направленность (профиль):

Pathological Physiology: Pathological Mechanisms of Modern Diseases

(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

Благонравов М.Л.

(подпись)

Руководитель ОУП

Абрамов А.Ю.

(подпись)

Начальник УОП

Воробьева А.А.

(подпись)

Начальник УПКВК

Сафир Р.Е.

(подпись)

2022 г.

1. THE AIM OF THE PH.D COURSE

The aim of the PhD course is orientation of a Ph.D student to the development of the academic career, optimal adaptation in the scientific medium.

The aim – training of highly qualified research and research-pedagogical personnel.

The aim – final original scientific research contributing to the formation, expansion and development of scientific knowledge.

The aim – preparing and defense of a Ph.D thesis for the degree of Doctor of Philosophy (Ph.D) in Medicine.

2. BRIEF COURSE DESCRIPTION

Higher education program for training research and research-pedagogical personnel (Ph.D program) in the scientific speciality 3.3.3. Pathological Physiology was designed in accordance with the requirements of RUDN University (order of the Rector No. 139, dated March 09, 2022).

The duration of training under Ph.D program in the scientific speciality 3.3.3. Pathological Physiology is 4 years.

Form of education – full time studies.

The total volume of the Ph.D program in the scientific speciality 3.3.3. Pathological Physiology is 240 credits.

Ph.D program in the scientific speciality 3.3.3. Pathological Physiology includes research and educational components and final certification.

3. THE NEED OF THE LABOR MARKET FOR GRADUATES WHO HAVE COMPLETED THE PHD PROGRAM

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

Graduates of the Ph.D program in the scientific speciality 3.3.3. Pathological Physiology can carry out their activities in the areas corresponding to the nomenclature of scientific specialties of the Russian Federation, meeting dynamically changing requirements and conditions in the modern labor market, in the main areas of professional activity in the field of basic medicine, owing modern research methods, systematized ideas, knowledge, skills and abilities in the areas of practical activity, as well as the necessary skills and abilities of research skills.

4. REQUIREMENTS FOR APPLICANTS ENTERING THE PROGRAM

An applicant entering the Higher education program for training research and research-pedagogical personnel (Ph.D program) in the scientific speciality 3.3.3. Pathological Physiology must have a higher education (specialist or master's degree) in a medical, pharmaceutical or biological speciality.

The procedure for admission to Ph.D program and the conditions for 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 study in educational programs of higher education – programs for training research and research-pedagogical personnel under Ph.D program", by the rules of admission to the RUDN University for training under Higher education program for training research and research-pedagogical personnel (Ph.D program).

Entrance examination for Ph.D program is carried out in a written way. The results of the written response are evaluated by a 100-point system. An applicant also has the right to provide information about his individual achievements. Competitive score is the sum of points for the entrance examination and individual achievements.

5. STRUCTURE AND VOLUME OF THE PROGRAMS FOR TRAINING RESEARCH AND RESEARCH-PEDAGOGICAL PERSONNEL UNDER PH.D PROGRAM

Structure and volume of Ph.D program – the duration is 4 years of full-time studies.

№	Structure of Ph.D program	Volume of Ph.D program, credits
1. Research component		210
1.1.	Research activity aimed at preparing a Ph.D thesis	178
1.2.	Preparing publications and (or) applications for patents for inventions, utility models, industrial designs, selection achievements, certificates of state registration of software programs for computers, databases, topologies of integrated circuits provided by paragraph 4 of point 5 of federal state requirement.	24
1.3.	Intermediate certification by stages of scientific research	8
2. Educational component		30
2.1.	Disciplines (modules)	13
2.2.	Practices including teaching practice	5
2.3.	Intermediate certification in disciplines (modules) and practice including teaching	6

	practice	
3. Final certification		6
Volume of Ph.D program		240

6. CHARACTERISTICS OF THE PROFESSIONAL ACTIVITY OF A GRADUATE

6.1. *The area of professional activity of graduates* who have mastered the Ph.D program includes preparing a specialist having basic theoretical knowledge and practical skills who has reached the professional level necessary for performing research work and who is able to complete a thesis for the degree of Doctor of Philosophy in Medicine or in Biology successfully and timely.

6.2. *Objects of professional activity of graduates* who have mastered the Ph.D program are as follows: individuals; population; legal entities; biological objects; a set of tools and technologies aimed at creating conditions for protecting citizens' health.

6.3. *Types of professional activities* for which graduates, who have mastered the Ph.D program, are preparing:

- research activities: in the field of protecting citizens' health it is focused on health care, improving the quality of human life and its expectancy using basic and applied research in the field of biology and medicine;
- teaching activity: according to educational programs of higher education; methods of teaching disciplines in the frame of training profile;

6.4. *Objectives of professional activities:*

- formation of highly specialized knowledge in the scientific speciality;
- basic research in the field of medicine;
- development and improvement of mathematical, physical and chemical (instrumental) methods of scientific analysis in accordance with the speciality;
- applied investigations on the basis of fundamental methods of analysis;
- в сфере преподавательской деятельности по образовательным программам высшего образования: разработка учебных курсов по областям профессиональной деятельности, в том числе на основе результатов, проведенных теоретических и эмпирических исследований, включая подготовку методических материалов, учебных пособий и учебников;
- in the field of teaching in educational programs of higher education: development of training courses in the areas of professional activity based on the results of theoretical and empirical research, including preparation of methodological materials, teaching guides and text-books.
- teaching disciplines under the programs of higher education in accordance with the speciality as well as educational and methodological work within the areas of professional activity;

- carrying out research work in an educational organization, including the management of students' research work

7. PLACE OF IMPLEMENTATION OF PH.D PROGRAMM

7.1. The Ph.D program is implemented at Federal State Autonomous Educational Institution of Higher Institution Peoples' Friendship University of Russia (RUDN University).

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

Practice and scientific research*	Base for practice (organization name, its location)
<ul style="list-style-type: none"> - Teaching practice; - Scientific research 	Federal State Autonomous Educational Institution of Higher Institution Peoples' Friendship University of Russia. Institute of Medicine. V.A. Frolov Department of General Pathology and Pathological Physiology.

8. SPECIFIC FEATURES OF THE IMPLEMENTATION OF PH.D PROGRAM

8.1. The Ph.D program is implemented using some elements of e-learning / distance learning technologies (lecture-type classes).

8.2. The language of Ph.D program implementation – English.

8.3. The program is adapted for teaching disabled people and people with limited abilities.

E-learning, distance learning technologies used in training disabled people and people with limited abilities provide a possibility of receiving and transmitting information in form accessible for them.