



## 60<sup>th</sup> Anniversary of Postgraduate School of Federal State-Financed Institution “Federal Centre for Animal Health”

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### SUMMARY

When the All-Union Foot-and-Mouth Disease Research Institute was founded in 1958, an active search for relevant specialists and researchers was organized with a view to recruiting them as staff members. In the early days of its establishment, the All-Union Foot-and-Mouth Disease Research Institute was mainly stuffed with the graduates of the Moscow Academy of Veterinary Medicine named after K. I. Skryabin and the Kharkov, Leningrad, Vitebsk Institutes of Veterinary Medicine. Later they were joined by the graduates of the University of Gorky, the Kazan and Ivanovo Institutes of Veterinary Medicine, the Vladimir Pedagogical Institute and many others. In 1963, the All-Union Foot-and-Mouth Disease Research Institute began to train research workers through postgraduate training programmes and thesis-based programmes. The leading scientists of the Institute were authorized by a decision of the Higher Attestation Commission of the USSR to provide academic supervision to postgraduate students. A specialized council for thesis defense started its activities in regard to Candidate of Science thesis defense in 1976 and in regard to Doctor of Science thesis defense – in 1996. The specialized council for Candidate of Science thesis defense comprised Candidates and Doctors of Sciences, staff members of the All-Union Foot-and-Mouth Disease Research Institute, as well as Doctors of Sciences from the All-Russian Research Institute of Veterinary Virology and Microbiology (VNIIVViM) (N. I. Arkhipov, I. F. Vishnyakov, V. M. Kolosov, N. A. Lagutkin, Yu. I. Petrov, G. A. Safonov, G. G. Yurkov). In 1996, the specialized council for Candidate of Science thesis defense was enlarged, and the following reputable scientists were invited to participate in its activities as its members: two Doctors of Sciences from the VNIIVViM (Ye. M. Khripunov, M. A. Dymin), four staff members of the VGNKI (K. N. Gruzdev, A. N. Panin, V. I. Ulasov, K. V. Shumilov), the staff members of the Veterinary Department of the Ministry of Agriculture of the Russian Federation (O. I. Sukharev) and the Peoples' Friendship University of Russia (V. V. Makarov). The paper provides brief information on the training of scientific personnel for research and production laboratories of the institution, postgraduate school activities, thesis-based programmes, the council for Doctor of Science and Candidate of Science thesis defense.

**Keywords:** review, All-Union Foot-and-Mouth Disease Research Institute, FGBI “ARRIAH”, postgraduate school, thesis council

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## Аспирантуре федерального государственного бюджетного учреждения «Федеральный центр охраны здоровья животных» — 60 лет

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## РЕЗЮМЕ

При создании в 1958 г. Всесоюзного научно-исследовательского ящурного института (ВНИИЯ) был организован активный поиск с целью привлечения в штат организации профильных специалистов и научных сотрудников. На заре своего становления ВНИИЯ комплектовался главным образом за счет выпускников Московской ветеринарной академии имени К. И. Скрябина, а также из ветеринарных институтов Харькова, Ленинграда, Витебска. Позже во ВНИИЯ прибыли выпускники Горьковского университета, Казанского и Ивановского ветеринарных институтов, Владимирского педагогического института и многих других. В 1963 г. во ВНИИЯ начали подготовку научных сотрудников через аспирантуру и соискательство. Ведущим ученым организации решением Высшей аттестационной комиссии СССР было разрешено научное руководство аспирантами. С 1976 г. начал работу специализированный совет по защите кандидатских диссертаций, а с 1996 г. — диссертаций на соискание ученой степени доктора наук. В состав кандидатского специализированного совета вошли доктора и кандидаты наук, сотрудники ВНИИЯ, а также доктора наук из покровского ВНИИВВиМ (Н. И. Архипов, И. Ф. Вишняков, В. М. Колосов, Н. А. Лагуткин, Ю. И. Петров, Г. А. Сафонов, Г. Г. Юрков). В 1996 г. диссертационный совет был расширен и для работы в его составе были приглашены авторитетные ученые: доктора наук из ВНИИВВиМ (Е. М. Хрипунов, М. А. Дымин), сотрудники ВГНКИ (К. Н. Груздев, А. Н. Панин, В. И. Уласов, К. В. Шумилов), сотрудники Департамента ветеринарии МСХ РФ (О. И. Сухарев) и Российского университета дружбы народов (В. В. Макаров). В данной статье представлены краткие сведения о подготовке научных кадров для научных и производственных лабораторий института, о работе аспирантуры, системе соискательства, диссертационном совете по защите докторских и кандидатских диссертаций.

**Ключевые слова:** обзор, ВНИИЯ, ФГБУ «ВНИИЗЖ», аспирантура, диссертационный совет

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The history of the FGBI “ARRIAH” Postgraduate School goes back to distant sixties of the 20<sup>th</sup> century. The All-Union Foot-and-Mouth Disease Research Institute (in future – the FGBI “ARRIAH”) was established by Order of V. V. Matskevich, Minister of Agriculture of the USSR No. 233-13 of 20 August 1958 “On measures for enhancing virological research activities”. The main and the only task that the institution faced was to study foot-and-mouth disease (FMD) virus structure and features and to develop methods for FMD virus diagnosis and prevention.

Within a few years, a research team was formed, the staff members received training and the research was started. Ye. Merkulov, Deputy Head of the Department of Research Institutions informed by the official letter Vladislav P. Onufriyev, Director of the All-Union Foot-and-Mouth Disease Research Institute, that the Postgraduate School for researchers’ training was established at the Institute by Order of the USSR Ministry of Higher and Vocational Education No. 113 of 1 April, 1961 [1–3].

In 1964, the Ministry set up a plan on admission 3 persons to the Postgraduate School for intramural training and recommended to admit students in accordance with the “Regulation on postgraduate schools in the higher educational institutions and research institutions” and Order of the USSR Ministry of Higher and Vocational Education No. 50 of 5 February, 1963 “On common model documents on researchers’ and scientific tutors’ training”.

The first student admitted to the Postgraduate School for intramural training was Tamara Ye. Kalugina whose scientific adviser was Vladislav P. Onufriyev, Candidate

of Science (Veterinary Medicine) Director of the Institute. Later, Vladislav P. Onufriyev became a scientific adviser for the first students admitted for intramural training: Viktor N. Koropov and Mariya S. Fomina [1, 4, 5].

In 1964, A. V. Yesionov, E. F. Tokarik, L. N. Sokolov and V. N. Kuznetsov were admitted to the Postgraduate School for intramural training [1, 2]. In 1965, four more staff-members were admitted to the Postgraduate School for intramural training: T. A. Satina, N. A. Pronina, M. A. Mulyar and A. A. Kravchenko. The postgraduate students’ theses were focused on study of FMD virus features, development of tools and methods for FMD diagnosis and prevention as well as creation of a scientifically justified complex of measures providing sustainable FMD freedom of the country.

Next year (1966) 11 students were admitted to the Postgraduate School: I. A. Pronin, N. S. Maslova, Yu. A. Chernyayev, S. S. Rybakov, Ye. L. Shedrin, N. M. Urvantsev, N. I. Yefimov, V. M. Kravchenko, S. V. Kuznetsova, Yu. T. Kiselev as well as Valeriy M. Zakharov graduated from the Moscow State Veterinary Academy by K. I. Skryabin. Currently, Valeriy M. Zakharov, Doctor of Science (Veterinary Medicine), Professor, Honored Veterinarian of the Russian Federation, is the OIE expert on FMD for Eastern Europe, Central Asia and Transcaucasia and gives lectures to postgraduate students.

In the following years, many more graduates of the Moscow State Veterinary Academy and other specialized universities came to the Postgraduate School. It was they who, with their knowledge, perseverance and curiosity,



*Fig. 1. Director of the All-Union Foot-and-Mouth Disease Research Institute V. P. Onufriyev delivering a speech at the coordination meeting on FMD, 1965 (a photo from the FGBI "ARRIAH" archive)*

managed to defeat the highly dangerous disease and to free the country territory from foot-and-mouth disease.

In 1964, the first Doctoral Thesis (based on the outcomes of the research performed in the All-Union Research Institute of Virology and Microbiology) was defended by Yevgeny Ye. Nikitin, Head of the Laboratory for Bioproduct Drying, in Pokrov. In 1967, Anatoly M. Rakhmanov, Head of Laboratory for Pathomorphology, defended his Doctoral Thesis in the Leningrad Veterinary Institute; his Thesis was based on the materials prepared during his doctoral studies in the Semipalatinsk Zoo-Veterinary Institute. In 1969, Vladislav P. Onufriyev, Director of the Institute, defended his Doctoral Thesis on FMD immunology in the Kazan Veterinary Institute; in 1970, Vasily L. Uzyumov defended his Doctoral Thesis on FMD virus ultrastructure and features in the Leningrad Veterinary Institute [5].

In the early years of the Postgraduate School history, only Doctors of Science and Professors had the right to be scientific advisers. Candidates of Science could also become scientific advisers, but as an exception, upon authorization given by the USSR Ministry of Higher and Vocational Education. Such authorizations were given to V. P. Onufriyev, Ye. Ye. Nikitin, A. P. Prozyakov, Ye. V. Andreyev, A. I. Sobko and V. L. Uzyumov [4–7].

In later years, the following Candidates of Science were authorized by the Order of the Director of the Institute to become scientific advisers without agreeing by the Higher Attestation Commission (HAC): N. N. Dryagalin, V. M. Khukhorov, V. M. Kravchenko, Ye. A. Krasnobayev, V. K. Muravyev, A. S. Okovyty, V. N. Koropov, V. I. Shorshnev, G. A. Khudyakov, V. G. Andreyev, S. S. Rybakov, N. A. Perevozchikova, V. M. Zakharov, S. K. Starov, T. A. Fomina, V. N. Irza, A. V. Scherbakov, A. V. Borisov, V. V. Borisov, Sh. K. Kulyashbekova, V. A. Mischenko, V. V. Drygin, T. Z. Baibikov, V. I. Diev [5, 8].

A total of 300 students have received training at the Postgraduate School since 1963.

For many years, the following outstanding researchers have worked fruitfully at the Institute and have shared their invaluable experience with early-career researchers: Laureates of the Government Prize in the field of science and technology: Anatoly A. Gusev, Associate Member of the Russian Academy of Agricultural Sciences, Professor [5], Andrey I. Dudnikov, Doctor of Science (Veterinary Medicine), Professor, and Zhorzh A. Shazhko, Doctor of Science (Veterinary Medicine), Professor; as well as Konstantin N. Gruzdev, Doctor of Science (Biology Medicine), Professor, Honored Veterinarian of the Russian Federation; Honored Scientists of the Russian Federation: Vasily L. Uzyumov, Doctor of Science (Veterinary Medicine), Professor, Anatoly M. Rakhmanov, Doctor of Science (Veterinary Medicine), Professor, Yuliy A. Chernyayev, Doctor of Science (Biology), Professor, Alexander N. Burdov, Doctor of Science (Veterinary Medicine), Professor; Honored Veterinarians of the Russian Federation – Taufik Z. Baibikov, Doctor of Science (Veterinary Medicine), Lyudmila A. Globenko, Doctor of Science (Biology), Boris A. Glushko, Candidate of Science (Veterinary Medicine), Yelena V. Guseva, Candidate of Science (Veterinary Medicine), Vladimir V. Dainatovich, Vyacheslav I. Diev, Doctor of Science (Veterinary Medicine), Nickolay N. Dryagalin, Candidate of Science (Veterinary Medicine), Valery M. Zakharov, Doctor of Science (Veterinary Medicine), Vasily N. Kuznetsov, Candidate of Science (Veterinary Medicine), Nina S. Maslova, Candidate of Science (Veterinary Medicine), Ivan A. Pronin, Candidate of Science (Veterinary Medicine), Alexander V. Borisov, Doctor of Science (Veterinary Medicine), Victor N. Gerasimov, Doctor of Science (Veterinary



Medicine); Honored Inventor of the Russian Federation Vladimir A. Mischenko, Doctor of Science (Veterinary Medicine), Professor [1, 7].

Advanced training courses were also carried out as a part of highly qualified staff-members' training. At the onset of the Institute's activities such advanced training was performed mainly in virology at the Institute of Virology named after D. I. Ivanovsky and then at Moscow State Veterinary Academy by K. I. Skryabin. Many Institute staff members received such advanced training that allowed arrangement of qualified virological works at the Institute.

In view of development of molecular biology research in the country, advanced training courses and special training courses in molecular biology were organized at the Moscow State University (Pushino) in 1977. Within the said courses leading researchers in this field, A. S. Spirin (currently, Academician of the Russian Academy of Sciences), T. I. Tikhonenko, Associate Member of the Russian Academy of Agricultural Sciences (currently, Associate Member of the Russian Academy of Sciences), and Ye. D. Sverdlov (currently, Academician of the Russian Academy of Sciences), etc. had delivered lectures and held practical classes at the Institutions of the USSR Academy of Sciences for nine months of the said year. Sufficiently large number of the Institute staff members received such advanced training and were granted certificates on molecular biology training, namely N. A. Perevozchikova, V. A. Perevozchikov, S. S. Rybakov, T. A. Satina, G. I. Kozhayeva, G. M. Falina, O. N. Okulova, etc., that enabled establishment of the Molecular Biology Department in the Institute in 1983 [1].

In the following years, many staff-members of the Institute underwent internships in leading laboratories of relevant national and foreign institutions to improve their skills.

Active participation of the Institution specialists in various national and international congresses, conferences, relevant meetings promoted experience and new knowledge gaining (Fig. 1, 2).

In 1976, the Institute was permitted by the Order of the USSR Higher Attestation Commission to accept candidate's theses for defense and conduct their defenses. The USSR Higher Attestation Commission approved the composition of the specialized Board for Candidate's Thesis defense in three specialties: 03.00.06 Virology, 16.00.02 Animal pathology, oncology and morphology, 16.00.03 Veterinary microbiology, virology, epizootiology, mycology and immunology [5, 8]. Professor Vladislav P. Onufriyev was approved as Chairman of the Board [3], Professor Vasily L. Uzyumov – as Vice-Chairman of the Board, Yuliy A. Chernyayev, Candidate of Science (Veterinary Medicine) – as Academic Secretary (Fig. 3). At the Institution, 131 theses were defended at the specialized Board for the Candidate's Thesis defense [2, 5, 7].

In 1996, the Higher Attestation Commission of the Russian Federation approved the Thesis Board that was eligible to accept Doctor Thesis and Candidate Thesis for their defense in the following specialties: 16.00.03 Veterinary microbiology, virology, epizootiology, mycology together with mycotoxicology and immunology and 03.00.06 Virology [6, 7].

Professor Anatoly A. Gusev was approved as Chairman of the Thesis Board and Professor Yuliy A. Chernyayev was approved as Vice-Chairman of the Thesis Board. In 1999, Professor Natalya A. Perevozchikova was approved as Vice-Chairman of the Thesis Board. The Academic Secretaries of the Thesis Board were: Professor Vasily L. Uzyumov, Doctor of Science (Veterinary Medicine), Galina M. Semenova, Candidate of Science (Biology),



*Fig. 2. Member of the All-Union Academy of Agricultural Sciences named after V. I. Lenin (VASKhNIL), Hero of Socialist Labor, Professor, Doctor of Science (Veterinary Medicine) I. A. Bakulov at the All-Union Foot-and-Mouth Disease Research Institute, 1977 (a photo from the FGBI "ARRIAH" archive)*



*Fig. 3. The first meeting of the Thesis Council of the All-Union Foot-and-Mouth Disease Research Institute, 1976 (a photo from the FGBI "ARRIAH" archive)*

Vladimir S. Russaleyev, Doctor of Science (Veterinary Medicine), Alexey P. Ponomaryev, Doctor of Science (Biology), Tatyana V. Zhbanova, Candidate of Science (Biology). In different years, Chairmen of the Thesis Board were: Valery M. Zakharov, Doctor of Science (Veterinary Medicine), Vladimir S. Russaleyev, Doctor of Science (Veterinary Medicine), Natalya A. Perevozchikova, Doctor of Science (Biology), Viktor N. Irza, Doctor of Science (Veterinary Medicine) [1, 6].

In different periods, the staff-members of the Institute having Doctor of Science degree worked on scientific projects, provided postgraduates with scientific guidance, many of them were members of the Thesis Board: V. P. Onufriyev, A. A. Syusyukin, Ye. Ye. Nikitin, Ye. V. Andreyev, A. P. Prostakov, V. L. Uzyumov, A. M. Rahmanov, A. I. Sobko, A. N. Burdov, I. S. Kuchmasov, Yu. A. Chernyayev, V. N. Ivanyushchenkov, A. A. Gusev, A. I. Dudnikov, Zh. A. Shazhko, T. Z. Baibikov, A. V. Bocharnikov, N. A. Ulupov, A. A. Dorogovtsev, V. Ya. Davydov, M. V. Kotova, V. A. Mischenko, A. V. Borisov, V. V. Borisov, V. N. Gerasimov, N. S. Mamkov, V. I. Diev, L. A. Globenko, Sh. K. Kulyashbekova, S. S. Rybakov, A. F. Bondarenko, V. V. Drygin, A. P. Ponomaryev, L. L. Voeykov, A. M. Igonin, G. A. Khudyakov [4, 9].

Leading scientists of the FGBI "ARRIAH" take part in examination and attestation commissions, deliver lectures for postgraduates and veterinary specialists.

In the year of its 45<sup>th</sup> anniversary the FGBI "ARRIAH" Thesis Board was as follows: Viktor N. Irza (Chairman of the Board), Natalya A. Perevozchikova and Natalya S. Mudrak (Vice-Chairmen), Natalya N. Vlasova, Konstantin N. Gruzdev, Valery M. Zakharov, Natalya Ye. Kamalova, Artyom Ye. Metlin, Valery V. Mikhlishin, Vladimir A. Mischenko, Olga V. Pruntova, Vladimir S. Rus-

saleyev. Seventeen Doctor Theses and 325 Candidate Theses were defended at the said Thesis Board [1, 10].

The FGBI "ARRIAH" leading experts were members of the USSR and RF Higher Attestation Commission: Professor Vasily L. Uzyumov (for 13 years); Professor Anatoly A. Gusev, Associate Member of the Russian Academy of Agricultural Sciences, Director; Professor Natalya A. Perevozchikova; Professor Sergey S. Rybakov; Professor Konstantin N. Gruzdev; Professor Vladimir A. Mischenko; Professor Anatoly M. Rakhmanov; Professor Vladimir S. Russaleyev (in different years).

The following Postgraduate School staff members provided postgraduate degree seekers with assistance in preparation of their Doctor Thesis and Candidate Thesis: Galina M. Semenova, Vasily L. Uzyumov, Valentina N. Guskova, Yelena V. Yelnikova – in 2000–2010, and Tatyana V. Zhbanova, Head of the Postgraduate School, from 2010 up to now. Professor Vladimir V. Makarov, Doctor of Science (Biology), provides great assistance in postgraduate students' training [1].

Doctors of Science from five scientific institutions are also being members of the Thesis Board of the FGBI "Federal Centre for Animal Health" (FGBI "ARRIAH"): Federal Research Center for Virology and Microbiology, Federal State Budgetary Scientific Institution All-Russian Research Institute for Veterinary Sanitation, Hygiene and Ecology, Moscow State University of Food Production, Peoples' Friendship University of Russia, Moscow State Academy of Veterinary Medicine and Biotechnology – MVA by K. I. Skryabin.

In addition to postgraduate training, there is a degree seeker-training programme at the FGBI "ARRIAH". Staff-members having research capabilities and skills can



become degree seekers. The Thesis Board approves their Thesis topics upon the recommendation of the Laboratory Head that are as a rule consistent with the field of the research performed in the Laboratory. The Thesis Board also makes a proposal on the approval of Scientific Adviser and determines the research period [7].

There are currently 890 staff-members including 15 Doctors of Science and 122 Candidates of Science in the FGBI "ARRIAH". The FGBI "ARRIAH" annually announces admission to the Postgraduate School, 8–12 post-graduate students per year. All postgraduate students work in the FGBI "ARRIAH" laboratories having modern facilities enabling research covered by their Thesis.

In 2016, the FGBI "ARRIAH" put in operation an apartment building for early-career scientists where post-graduate students are accommodated.

The Rosselkhoz nadzor-subordinated FGBI "Federal Centre for Animal Health" (FGBI "ARRIAH") announces admission to the Postgraduate School for 2021–2026 for training in the following: 36.06.01 Veterinary Medicine and Animal Science according to the scientist specialty 06.02.02 *Veterinary microbiology, virology, epizootiology, mycology together with mycotoxicology and immunology* and 06.06.01 Biological sciences according to the scientist specialty, 03.02.02 *Virology*, and invites early-career specialists interested in research.

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