

| Personal data of the teacher of the department "Microbiology, Virology and Immunology"                      |                                                                                                                                       |                                         |
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|                            | <b>Surname, Name, Patronymic (by identity card)</b>                                                                                   | <b>Makbuz Amanzhol</b>                  |
|                                                                                                             | <b>Date of Birth</b>                                                                                                                  | <b>19.03.1959</b>                       |
|                                                                                                             | <b>Gender (male / female)</b>                                                                                                         | <b>male</b>                             |
|                                                                                                             | <b>Nationality</b>                                                                                                                    | <b>kazakh</b>                           |
|                                                                                                             | <b>Citizenship</b>                                                                                                                    | <b>RK</b>                               |
|                                                                                                             | <b>Mobile phone, E-mail</b>                                                                                                           | <b>+7 701 2577484<br/>diver@mail.ru</b> |
| Education                                                                                                   |                                                                                                                                       |                                         |
| Higher educational institution                                                                              |                                                                                                                                       |                                         |
| a) name                                                                                                     | Almaty Zooveterinary Institute                                                                                                        |                                         |
| b) country, city                                                                                            | Kazakhstan, Almaty                                                                                                                    |                                         |
| c) year of admission and graduation                                                                         | 1979-1984                                                                                                                             |                                         |
| d) qualifications obtained at the end of the educational institution                                        | veterinarian                                                                                                                          |                                         |
| a) name                                                                                                     | Almaty Zooveterinary Institute                                                                                                        |                                         |
| b) country, city                                                                                            | Kazakhstan, Almaty                                                                                                                    |                                         |
| c) year of admission and graduation                                                                         | 2006                                                                                                                                  |                                         |
| d) qualifications obtained at the end of the educational institution                                        | PhD                                                                                                                                   |                                         |
| a) name                                                                                                     | Committee for Control in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan    |                                         |
| b) country, city                                                                                            | Republic of Kazakhstan, Astana                                                                                                        |                                         |
| c) year of admission and graduation                                                                         | 2009 year                                                                                                                             |                                         |
| d) degree                                                                                                   | Doctor of Veterinary Sciences (16.00.03-Veterinary Microbiology, Virology, Epizootology, Mycology with Mycotoxicology and Immunology) |                                         |
| a) position                                                                                                 | Professor 2007                                                                                                                        |                                         |
| Place of work (today)                                                                                       |                                                                                                                                       |                                         |
| Full name of the organization                                                                               | Kazakh National Agrarian Research University                                                                                          |                                         |
| Position held                                                                                               | Professor                                                                                                                             |                                         |
| Scientific activity                                                                                         |                                                                                                                                       |                                         |
| Head and / or performer of research and development in the Republic of Kazakhstan (within the last 3 years) |                                                                                                                                       |                                         |
| Name of research work                                                                                       | Years of                                                                                                                              | Implementing organization               |

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|                                                                                                                                             |                                                                                                                                                                                           | implementation                                                                                                                                                                                                                                                                                  |                                                                                                       |
| "Development of technology for the manufacture of probiotic drug" Enterokol "and the creation of its experimental industrial sample" MES RK |                                                                                                                                                                                           | 2018-2020                                                                                                                                                                                                                                                                                       | MSHE RK                                                                                               |
| Scientific and pedagogical activity                                                                                                         |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| Training of highly qualified personnel                                                                                                      |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| Degree                                                                                                                                      | Amount                                                                                                                                                                                    | Year of protection                                                                                                                                                                                                                                                                              | Specialty code                                                                                        |
| candidate of veterinary sciences                                                                                                            | 1                                                                                                                                                                                         | 2007                                                                                                                                                                                                                                                                                            | 16.00.03-Veterinary microbiology, virology, epizootology, mycology with mycotoxicology and immunology |
| candidate of veterinary sciences                                                                                                            | 1                                                                                                                                                                                         | 2011                                                                                                                                                                                                                                                                                            | 16.00.03-Veterinary microbiology, virology, epizootology, mycology with mycotoxicology and immunology |
| PhD                                                                                                                                         | 1                                                                                                                                                                                         | 2020                                                                                                                                                                                                                                                                                            | 16.00.03-Veterinary microbiology, virology, epizootology, mycology with mycotoxicology and immunology |
| Information about the number of publications for the last 5 years                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| Publication type                                                                                                                            |                                                                                                                                                                                           | Amount                                                                                                                                                                                                                                                                                          |                                                                                                       |
| Publications in recommended journals KKSON MES RK                                                                                           |                                                                                                                                                                                           | 15                                                                                                                                                                                                                                                                                              |                                                                                                       |
| Publications in rating magazines                                                                                                            |                                                                                                                                                                                           | 5                                                                                                                                                                                                                                                                                               |                                                                                                       |
| Study guides                                                                                                                                |                                                                                                                                                                                           | 12                                                                                                                                                                                                                                                                                              |                                                                                                       |
| Electronic teaching aids                                                                                                                    |                                                                                                                                                                                           | 1                                                                                                                                                                                                                                                                                               |                                                                                                       |
| Monographs                                                                                                                                  |                                                                                                                                                                                           | 1                                                                                                                                                                                                                                                                                               |                                                                                                       |
| Abstracts and reports at conferences, symposia (foreign, republican)                                                                        |                                                                                                                                                                                           | 14                                                                                                                                                                                                                                                                                              |                                                                                                       |
| Major scientific publications (over the last 5 years)                                                                                       |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| Publication title                                                                                                                           | Authors                                                                                                                                                                                   | The year of publishing<br>Edition title, volume, number, page                                                                                                                                                                                                                                   |                                                                                                       |
| Analysis of the efficacy of an adjuvant-based inactivated pandemic H5N1 influenza virus vaccine                                             | Nurpeisova Ainur, Kassenov Markhabat, Rametov Nurkuisa, Tabynov Kaissar, Renukaradhya Gourapura J. Volgin Yevgeniy, Sagymbay Altynay, Makbuz Amanzhol, Sansyzbay Abylay, Khairullin Berik | Archives of Virology 164, №4, P 1027 - 10363 April 2019<br><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85061298745&amp;origin=resultslist">https://www.scopus.com/record/display.uri?eid=2-s2.0-85061298745&amp;origin=resultslist</a>                                        |                                                                                                       |
| Assessment of the immunogenicity and protective effectiveness of REFLUVAC® in mice challenged with a pandemic A/H1N1 influenza              | Nurpeisova A.S., Kassenov M., Makbuz A., Sansyzbay A., Valdovska A., Khairullin B.                                                                                                        | «Research for rural development 2018». г. Елгава, Латвия 16-18 May, 2018. Стр. 271-276. Скопус<br><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85059878806&amp;origin=resultslist">https://www.scopus.com/record/display.uri?eid=2-s2.0-85059878806&amp;origin=resultslist</a> |                                                                                                       |

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| Determination of the level of resistance of probiotic strain Escherichia coli 64G to hydrochloric acid, bile and antimicrobial agents | K.Biyashev, Zh.Kirkimbaeva, B.Biyashev, A.Makbuz, M.Bulegenova                                                | Ecology, Environment and Conservation. 2019. Скопье <a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85084196887&amp;origin=resultslist">https://www.scopus.com/record/display.uri?eid=2-s2.0-85084196887&amp;origin=resultslist</a> |
| Influence of various doses of the probiotic drug "Enterokol" on the immunobiological parameters of blood in newborn lambs             | Biyashev K.B., Biyashev B.K., Ermagambetova S.E., Makbuz A.Zh., Sarybaeva D.A.                                | International scientific journal, «Global science and innovations 2020: Central Asia», Nur-Sultan, Kazakhstan, Feb-March 2020. Стр.83-87                                                                                                          |
| The effect of Enterocol on the hematological parameters of the body in newborn piglets                                                | Makbuz A.Zh., Nurgozhayeva G.M., Sarybaeva D.A., Zholdasbekova A.E., Kulpybay Y.Y.                            | Bulletin of modern research. 2020                                                                                                                                                                                                                 |
| Creation of a new probiotic drug "Enterokol"                                                                                          | Biyashev K.B., Ermagambetova S.E., Makbuz A.Zh., Sarybaeva D.A., Zholdasbekova A.E., Altenov A.E.             | Bulletin of modern research. 2020                                                                                                                                                                                                                 |
| Production tests of the probiotic drug "Enterokol"                                                                                    | Biyashev K.B., Makbuz A.Zh., Ermagambetova S.E., Sarybaeva D.A., Zholdasbekova A.E., Altenov A.E.             | Bulletin of modern research. 2020                                                                                                                                                                                                                 |
| Antibiotic sensitivity of isolated cultures from calves with respiratory diseases                                                     | Makbuz A.Zh., Koshkinbaev S.S., Shayakhmet E.B., Zhumanov K.T., Altenov A.E., Kulpybai E.E., Zhylkaidar A.Zh. | Bulletin of modern research. 2020                                                                                                                                                                                                                 |
| Etiology of sheep abortions in a number of farms in Kazakhstan                                                                        | Sugurbek A.E., Makbuz A.Zh., Oryntaev K.B., Zhumanov K.T., Abzhalieva A.B., Bulegenova M.D.                   | Issue No. 10 (44) '2020                                                                                                                                                                                                                           |
| Complex immunization of sheep against salmonellosis and chlamydia                                                                     | Sugurbek A.E., Makbuz A.Zh., Altenov A.E., Kulpybai E.E., Shayakhmet E.B., Zhylkaidar A.Zh.                   | Modern problems and prospects for the development of veterinary medicine and zootechnics. 2020                                                                                                                                                    |
| Distribution of respiratory diseases of young farm animals in Almaty region                                                           | Makbuz A.Zh., Biyashev K.B., Sarybaeva D.A., Bulegenova M.D., Altenov A.E.                                    | "Science, education, experience, development prospects" RISC, April 2021, Ministry of Agriculture of the Russian Federation Krasnoyarsk State Agrarian University, Russia                                                                         |
| Biological properties of enteroinfection cultures isolated from farm animals and birds                                                | Makbuz A.Zh., Biyashev B.K., Ermagambetova S.E., Altenov A.E., Kulpybai Y.Y.                                  | "Science, education, experience, development prospects" RISC, April 2021, Ministry of Agriculture of the Russian Federation Krasnoyarsk State Agrarian University, Russia                                                                         |
| Monitoring of parvovirus enteritis in dogs in Almaty districts                                                                        | Makbuz A.Zh., Kulpybaev E.E., Sarybaeva D.A., Koshkimbaeva S.S., Nurgozhaeva G.M.                             | III International Book edition of countries of the Common wealth of Independent States «Best Young scientist -2021». Astana. April 20-21, 2021                                                                                                    |
| Bacteriological diagnosis of necrobacteriosis in cattle                                                                               | Makbuz A.Zh., Oryntaev K.B., Sarybaeva D.A., Zhylkaidar A.Zh., Shayakhmet E.B.                                | Search, ISSN-1560-1730. International Scientific and Pedagogical Journal "Kazakhstan Higher School" scientific supplement. No. 4/2021. Pages 287-291                                                                                              |

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| Assessment of the harmlessness of E. coli strains with bactericin-producing properties using a laboratory model | "EurasiaScience" XLIV International scientific and practical conference. March 31, 2022 RSCI. Pages 17-20       | Kirkimbaeva Zh.S., Makbuz A.Zh., Sarybaeva D.A., Kulpybay Y.Y., Erimova A.E.                               |
| Therapeutic and prophylactic effectiveness of hyperimmune serum against salmonellosis                           | "Kazakhstan Higher School" International scientific and pedagogical publication. ISSN 1560-1749. 2/2022 121-124 | Kirkimbaeva Zh., Biyashev B., Shayakhmet E., Makbuz A., Kulpybay Y.                                        |
| <b>Patent / Innovation Patent:</b>                                                                              |                                                                                                                 |                                                                                                            |
| <b>Assigned number</b>                                                                                          | <b>Name</b>                                                                                                     | <b>Author / Patentee<br/>Date of issue and expiration date</b>                                             |
| №33819                                                                                                          | Polyvalent vaccine against pasteurellosis of agricultural and wild animals                                      | Biyashev K.B., Biyashev B.K., Makbuz A.Zh. Utility model patent. 02.06.2019.                               |
| №33816                                                                                                          | Polyvalent vaccine against leptospirosis of agricultural, birds and fur animals                                 | Biyashev K.B., Biyashev B.K., Makbuz A.Zh. Utility model patent. 02.08.2019                                |
| №4675                                                                                                           | Method for the prevention of bird pullorosis                                                                    | Makbuz A.Zh., Sarybaeva D.A., Altenov A.E., Shayakhmet E.B., Ulpybai E.E. Utility model patent. 02/12/2020 |
| <b>Foreign language skills</b>                                                                                  |                                                                                                                 |                                                                                                            |
| <b>Language</b>                                                                                                 | Proficiency level (low, high)                                                                                   |                                                                                                            |
| English                                                                                                         | Pre-Intermediate                                                                                                |                                                                                                            |

