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| **№** | **The direction of the scientific project** | **Project name** | **Project Manager** | **Period** | **Contacts** |
| 1 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Environmental assessment of consequences of the impact of the radiation-contaminated territories of Western Kazakhstan (Kapustin Yar test site) on biota, human health and the environment». | Bigaliyev A.B. | 2018-2020 | [aithozha.bigaliev@kaznu.kz](mailto:aithozha.bigaliev@kaznu.kz) |
| 2 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «The role of the TOR / S6K signaling system in regulating the stability of the Rht-1 dwarfism gene and the expression of gibberellin-inducible genes in wheat grain». | Bisenbayev A.K. | 2018-2020 | [amangeldy.bisenbaev@kaznu.kz](mailto:amangeldy.bisenbaev@kaznu.kz) |
| 3 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Immune oncogenes - a new target of anticancer therapy». | Zakiryanova G.K. | 2018-2020 | [zakiryanova.gulnur@kaznu.kz](mailto:zakiryanova.gulnur@kaznu.kz) |
| 4 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Development of a non-waste technology for wastewater bio-treatment and utilization of carbon dioxide based on cyanobacteria for potential production of biodiesel». | Zayadan B.K. | 2018-2020 | [zayadan.bolatkhan@kaznu.kz](mailto:zayadan.bolatkhan@kaznu.kz) |
| 5 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Study of mutagenic, genotoxic and toxic activity of surface waters in Almaty and Almaty region» | Lovinskaya A. | 2018-2020 | [lovinskaya.anna@kaznu.kz](mailto:lovinskaya.anna@kaznu.kz) |
| 6 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Study of the role of the poly-ADP-ribose polymerase Arabidopsis thaliana in the covalent modification of the ends of gaps in the DNA chain in vitro and in vivo» | Taypakova S.M. | 2018-2020 | [sabi84@inbox.ru](mailto:sabi84@inbox.ru) |
| 7 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | Development of test systems for early diagnosis of cardiovascular, oncological and neurodegenerative diseases based on miRNA associations and their target genes. | Ivashchenko A.T. | 2018-2020 | [anatoli.ivashenko@kaznu.kz](mailto:anatoli.ivashenko@kaznu.kz) |
| 9 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | " Study of chronophysiological mechanisms of adaptation of the human cardiovascular system to socio-ecological and abiotic factors of the environment " | Gumarova L.ZH. | 2018-2020 | [lyazzat.gumarova@kaznu.kz](mailto:lyazzat.gumarova@kaznu.kz) |
| 10 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Investigation of the cyto- and embryotoxic effect of water and bottom sediments of Lake Balkash on commercial fish and amphibians». | Shalakhmetova T.M. | 2018-2020 | [tamara.shalakhmetova@kaznu.kz](mailto:tamara.shalakhmetova@kaznu.kz) |
| 11 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Rhythmogenesis and regulation of spontaneous synchronous activity of brain neurons during hyperexcitation» | Toleukhanov S.T. | 2018-2020 | [sultan.tuleuhanov@kaznu.kz](mailto:sultan.tuleuhanov@kaznu.kz) |
| 12 | **4. Life and health sciences.**  4.3. Formation of preventive environment as the basis of public health. Ecology and health. | «Oncoradiogenic lesion of the population with radon isotopes and its modeling on alpha-particle beams in bioassays» | Biyasheva Z.M. | 2018-2020 | [zarema.biyasheva@kaznu.kz](mailto:zarema.biyasheva@kaznu.kz) |
| 13 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Development of integrated approaches for biofracturing and high bioavailability of the most important micronutrients of spring wheat for improving health» | Kenzhebayeva S.S. | 2018-2020 | [saule.kenzhebaeva@kaznu.kz](mailto:saule.kenzhebaeva@kaznu.kz) |
| 14 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Study and assessment of the current state of the ecosystems of the Zhayyk delta estuary with the adjacent coast and water area of the Caspian Sea, and development of recommendations for the environmentally sustainable conservation and use of the natural resources of the project region». | Salmurzauly R. | 2018-2020 | [salmurzauly.ruslan@kaznu.kz](mailto:salmurzauly.ruslan@kaznu.kz) |
| 15 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | «Physiological and biochemical mechanisms of nonspecific stability of the model object Brachypodium distachyon L. to brown leaf rust» | Omirbekova N.ZH. | 2018-2020 | [nargul.omirbekova@kaznu.kz](mailto:nargul.omirbekova@kaznu.kz) |
| 16 | **4. Life and health sciences.**  4.1 Basic and applied researches in the field of biology; | Sequencing of the genome Scorzoneratau-saghyz ((Lipsch. & G.G.Bosse) and associative mapping of the genome based on the content of rubber» | Boguspayev K.K. | 2018-2020 | [karim.boguspaev@kaznu.kz](mailto:karim.boguspaev@kaznu.kz) |
| 17 | **2. «** **Power Engineering and** **mechanical engineering ».**2.2. «Alternative energy and technology: renewable energy sources, nuclear and hydrogen energy, other energy sources». | «Development of biotechnology for the production of environmentally friendly, smokeless briquetted fuel based on brown coals of the Lenger coal deposit and surfactant-synthesizing microorganisms for fuel-energy efficient use». | Akimbekov N.SH. | 2018-2020 | [akimbekov.nuraly@kaznu.kz](mailto:akimbekov.nuraly@kaznu.kz) |
| 18 | **1. Rational use of natural, including water resources, geology, processing, new materials and technologies, safe products and structures.** 1.6 Monitoring of environmental objects and "green" technologies | «Development of scientific and methodological foundations of biomonitoring technology and prediction of the state of contaminated water ecosystems using phototrophic microorganisms» | Sadvakasova A.K. | 2018-2020 | [asem.sadvakasova@kaznu.kz](mailto:asem.sadvakasova@kaznu.kz) |
| 19 | **1. Rational use of natural, including water resources, geology, processing, new materials and technologies, safe products and structures.** 1.12 Industrial Biotechnology. | «Microencapsulation of probiotics in polysaccharide matrices for the development of functional foods based on mare's milk» | Savitskaya I.S. | 2018-2020 | [irina.savickaya@kaznu.kz](mailto:irina.savickaya@kaznu.kz) |