

Documents of Licence

(patents for inventions and utility models, acts of implementation)

1. **Esimsiyitova Zura Berkutovna** with co-authors Patent for useful model № 7384 from 22.06.2022: "Feed additive for farm animals with targeted preventive properties".
2. **Kurmanbaeva Meruert Sakenovna (KZ); Ospanbaev Zhumagali Ospanbaevich (KZ); Inelova Zarina Arkenzhanovna (KZ); Kusmangazinov Ədil Bolatuly (KZ); Sarkytbaeva Aisulu Karimkazhiyevna (KZ); Sarsenbek Bekbolat Nurlanuly (KZ).** Patent for useful model №7364 from 30.06.2022. "Method of creation of grass agroecocenoses in changing climate".
3. **Kudrina N.O., Korbozova N.K., Kobylina T.N., Terletskeya N.V.** Patent for invention. No. 35735 from 01.07.2022. "Method of treatment of hypothyroidism in experiment".
4. **Boguspaev Kenzhe-Karim Kasym-Karimovich (KZ), Portnoy Vitaly (IL), Inelova Zarina Arkenzhanovna (KZ), Mutalkhanov Meirambek Sultanbekovich (KZ), Basygarayev Zhandos Makhabatovich (KZ), Alnurova Aizada Altaevna (KZ), Sisemali Kuanysh Raimbekuly (KZ)** Patent for useful model № 7628 from 02. 12.2022 "Method of genotyping of plant material of Tau-saghyz (*Scorzonera tau-saghyz*)".
5. **Torekhan M., Sadvakasova A.K., Akmukhanova N.R., Zayadan B.K., Bauenova M.O..** "Microalgae strain *Chlorella vulgaris* sp BB-2, promising for biomass production and wastewater treatment from organo-mineral contaminants".
6. **Sadvakasova A.K., Bauenova M.O., Zayadan B.K., Kosalbaev B.D., Sarsekeeva F.K., Akmukhanova N.R. Mustapayeva Z.O** No. 2022/0224.2 16.03.2022. "Strain of microalgae *Raraschlorella kessleri* Bh-2, used for purification of polluted water from heavy metal ions of cadmium and chromium"
7. **Sadvakasova A.K., Bauenova M.O., Zayadan B.K., Kosalbaev B.D.** *Trichormus variabilis* K-31 used for enriching soil with nitrogen and increasing crop yields. Patent for useful model. C05F*11/08 (2006.01), C12N*1/20 (2006.01) May 2022.
8. **Darmenov O.** Patent No. 35616. Personal portable device for destruction of viruses COVID-19 Industrial property. Official Bulletin, Kazakhstan, Year, No. 16 – 22.04.2022 <http://gosreestr.kazpatent.kz/>.
9. **Darmenov O.** Prevention of COVID-19 viruses spreading Report at the dialogue platform "Commercialization Reactor" before investors for commercialization of patent No. 35616. Personal portable device for destroying COVID-19 viruses Panel session "Acceleration of startups in Kazakhstan" | By JSC "Science Foundation" | Facebook page was live | By JSC "Science Foundation" | Facebook
10. **Darmenov O.** Innovative solution of the problem of arterial vessel patency restoration in atherosclerotic arterial lesions Report at the dialogue platform "Commercialization Reactor" in front of investors for commercialization of patent No. 033508. Device and method for restoring patency of arterial vessels. Panel session "Acceleration of startups in Kazakhstan" | The page of JSC "Science Foundation" was live. | By JSC "Science Foundation" | Facebook
11. **Basygarayev J.M.** Patent № 7628 from 02.12.2022 "" A method of genotyping plant material of mountain Gum ""
12. **Daulet G.D.** Patent for invention №35531 from 20.04.2022 "Complex 5-benzyl-7-(o-fluorobenzylidene)-2,3-bis(o-fluorophenyl)-3,3a,4,5,6,7-hexahydro-2H-pyrazolopyridine with b-cyclodextrin, having leukopoiesis-stimulating ability".
13. **Daulet G.D.** Patent for invention №35532 from 20.04.2022 "Compound possessing leukopoiesis-stimulating ability".
14. **Izbastina Klara Serzhankyzy (KZ), Kurmanbaeva Meruert Sakenovna (KZ), Inelova Zarina Arkenzhanovna (KZ), Kusmangazinov Ədil Bolatuly (KZ), Bazargalieva Aliya**

Aidarkhanovna (KZ), Utarbayeva Nurlygul Asylbekovna (KZ), Abash Altynkul Sembaikyzy (KZ) № 8272 patent for utility model from 21. 07.23 Method of obtaining extract from medicinal plant raw material Pupavka Kornukh - Trotsky (Anthemis Trotskiana).

State registration certificates

- received certificates of state registration of rights to the object of copyright (specify the number and date of registration of the certificate, the name of the object of copyright and authors);
 1. № 22941 from 20.01.2022 "Educational methodical edition on the subject Ichthyopathology Shalgimbaeva Saule Mukhametkalievna, Omarova Zhanar Sagatovna, Jumakhanova Gauhar Baktiyarovna, Karbozova Nazym Kurmanbaevna.
 2. № 30050 from 07.11.2022 " Rational application since ancient times of desert areas of Kazakhstan in animal husbandry and agriculture. Kartaeva T., Renato S., Deom J., Terekbaeva J.M., Baudiyarova K.B., Beisegulova A.K., Sapataev S.A., Esenamanova A.S., Osmonali B.B., Kusmangazinov A.B..
- licences (licence agreements) sold (specify licensor, licensee, dates and registration number of the licence agreement);
- transferred patents under licence agreements and assignment agreements
- information on the introduction of inventions into production and educational process:
 1. act of introduction (USE) 08-02-21-35 dated 02.11.2022 object of introduction - textbook "Developmental biology of plants" by N.V. Terletskeya, subject of introduction - new educational materials comprehensively covering the subject of plant developmental biology.
 2. act of introduction of the completed research work into the educational process by S.I. Abugalievna on the subject of projects: 1. "Polygenomic study of resistance associations to fungal diseases of soybean in Kazakhstan" (2018-2020) (AR05131592), 2. "Information system on molecular genetic and botanical documentation of wild flora of Kazakhstan" (2018-2020) (IRN: AR05131621). Protocol No. 3 dated 10 November 2022.

Author's certificates for 2023

1. № 38854 from "1" September 2023 "Current state of soil cover in Kazakhstan, problems and ways of their solution" ABLAIKHANOVA NURZHANYAT TATUKHANOVA, Esimsitova Zura Berkutovna, Lesova Zhaniha Tureevna, Nusupov Aidos Aidarjanovich, Mutushev Alibek Zhumabekovich, Nuraly Əsiya Mambetkyzyzy. Type of copyright object: work of science.
2. № 39050 from "14" September 2023 "Evaluation of morphological changes in the liver of rats under the influence of extract of fruits of Silybum marianum (L.) Gaertn in the experiment " EUIMSIITOVA ZURA BERKUTOVNA, Tileshova Məldir Tileugalikyzy. Type of copyright object: work of science
3. No. 39028 from "14" September 2023 "Anatomomorphological changes in common yarrow (ACHILLEA MILLEFOLIUM L ." EUIMSIITOVA ZURA BERKUTOVNA, Yeltai Gulmira Esenkyzyzy. Type of copyright object: work of science.
4. № 39052 from "14" September 2023 "Evaluation of histological changes in the kidneys of rats under the influence of extract of fruits of Silybum marianum (L.) Gaertn in the experiment" EUIMSIITOVA ZURA BERKUTOVNA, Tileshova Məldir Tileugalikyzy work of science.
5. No. 39033 from "14" September 2023 " Chemical properties of common yarrow (ACHILLEA MILLEFOLIUM L . EUIMSIITOVA ZURA BERKUTOVNA, Yeltai Gulmira Esenkyzyzy. Type of copyright object: work of science.