The number of Kazakhstani patents received by the Kazakh National Medical University in 2020

- 1. No. 4742 "Method for obtaining an eye ointment with antimicrobial and antifungal activity from safflower flowers (Carthamus tinctorius L.)."
- 2. No. 4743 "Syrup based on phytosubstances of Ili barberry (Berberis iliensis M. Pop) (variants)".
- 3. No. 4758 "Method for obtaining pectin from the fruits of the Almaty hawthorn (Crataegus almaatensis)".
- 4. No. 34386 "Method for stimulating the healing of postoperative wounds of soft tissues of the maxillofacial region."
- 5. No. 34387 "Method for diagnosing benign and malignant neoplasms of the thyroid gland."
- 6. No. 5171 "Dermatological phytocomposite gel with antifungal action."
- 7. No. 34686 "Method for predicting atrial fibrillation".
- 8. No. 34685 "Method for surgical treatment of acute cholecystitis in combination with choledocholithiasis" earlier than the term established by the Patent Law.
- 9. No. 5560 "Aksabak laksa osimdiginen (Echinops albicaulis) sanyraukulakka karsy belsendiligi bar koyu alu adisi extract."
- 10. No. 5559 "Orodispersible film based on CO2 extract of ziziphora".
- 11. No. 4780 "1-(2-ethoxyethyl)-4-adamantanecarbonyloxypiperidine hydrochloride with antimicrobial activity."
- 12. No. 4781 "1-(3-ethoxypropyl)-4-adamantanecarbonyloxypiperidine hydrochloride with antimicrobial activity."
- 13. No. 4782 "1-(2-phenylethyl)-4-adamantanecarbonyloxypiperidine hydrochloride with antimicrobial activity."

The number of international patents Kazakh National Medical University in 2020

1. United States Patent "METHOD OF IMPLANTATION OF LEFT VENTRICULAR MECHANICAL ASSIST DEVICE HEARTMATE III." No.: US 10,751,456 B2. Date of Patent: Aug. 25, 2020.

The number of Kazakhstani patents received by the Kazakh National Medical University in 2021

- 1. No. 5846 "Method of cytochemical diagnosis of type 2 diabetes mellitus".
- 2. No. 6046 "Method for obtaining carbon dioxide extract of corn germ (Zea mays L.)".
- 3. No. 6047 "Method for obtaining carbon dioxide extract from rapeseed (Brassica napus L.)".
- 4. No. 6168 "Method for obtaining eye drops from safflower seeds (Carthamus tinctorius L.)".
- 5. No. 6310 "Method for obtaining an extract from medicinal plant materials".
- 6. No. 6452 "Method for the production of functional yogurt".
- 7. No. 35290 "Method for treating patients with central neuropathy of the facial nerve in the early and late recovery period of ischemic stroke."
- 8. "Method for producing soft cheese." Conclusion dated August 24, 2021.
- 9. "A Method for Preoperative Determination of the Length of the Right Intrathoracic Artery as an In-Situ Conduit for Right Coronary Artery Bypass Surgery." Conclusion dated September 24, 2021.

The number of international patents Kazakh National Medical University in 2021

1. Eurasian patent for the invention "Radioprotective property of aminocaproic acid", EAPO bulletin 2020-02.

The number of Kazakhstani patents received by the Kazakh National Medical University in 2022

- 1. No. 35778 "Method for the treatment of systemic lupus erythematosus".
- 2. No. 35846 "Method for treating patients with ischemic stroke in the early and late recovery period."
- 3. No. 35843 "Method of suturing in esophagogastro- and gastroenteroanastomosis during operations on the esophagus and stomach."
- 4. No. 7165 "Method for obtaining an extract with antimicrobial and antioxidant activity from the plant Allium galanthum."
- 5. No. 7351 "Balm for the treatment of inflammatory skin processes."
- 6. No. 7353 "Method for obtaining an extract from ferula roots that has antitumor activity in vitro."
- 7. No. 7446 "Method for obtaining a liquid extract from the above-ground part of broadleaf bugloss (Lepidium latifolium L.) using ultrasonic extraction."
- 8. No. 7449 "Method for obtaining an extract from plant raw materials."
- 9. No. 7448 "Method for obtaining an eye emulsion from safflower flowers (Carthamus tinctorius L.)".
- 10. No. 7447 "Method for obtaining an extract from the roots of ferula."
- 11. No. 7665 "Method for the production of functional ice cream".

The number of Kazakhstani patents received by the Kazakh National Medical University in 2023

- 1. "Nasal antiviral cream" No. 8372 dated August 18, 2023.
- 2. "Method for obtaining a dry extract from black currant leaves (Ribes nigrum L.) with anti-inflammatory activity" No. 8416 dated September 15, 2023.
- 3. "A method for obtaining an extract in the form of granules from the plant Allium turkestanicum, possessing antimicrobial and antioxidant activities" No. 7783.
- 4. "Nasal antiviral cream" No. 8488.
- 5. "Nasal antiviral cream" No. 8610.
- 6. "Method for obtaining carbon dioxide extract from the aboveground part of Dendrostellera stachyoides" No. 8724.
- 7. "The use of 4-methyl-1-dibenzylaminopent-2-yn-4-yl ester of N-chlorophenylthiocarbamic acid as an antibacterial agent" No. 8728.
- 8. "Device for fixing laboratory rabbits" No.36517.
- 9. "Device for the treatment of fractures of the trochanteric and subtrochanteric region of the femur" No. 36069.
- 10. "Combined method of restoration of the acromioclavicular joint" No. 36128.
- 11. "Device for the treatment of fractures of the proximal humerus" No. 36152.
- 12. "Lock screw for intramedullary nail" No. 36191.
- 13. "Lock screw for angle-stabilized plate" No. 36205.
- 14. "Method for treating dislocations of the acromial end of the clavicle using an external fixation device" No. 36209.
- 15. "Device for the treatment of fractures of the proximal femur" No. 8231.
- 16. "Rod for the treatment of fractures of the trochanteric region of the femur" No. 8232.
- 17. "Combined method of fixation of fractures of the proximal humerus" No. 36391.

- 18. "Method for preventing fat embolism during intramedullary osteosynthesis of long bones" No. 36392.
- 19. "Cervical screw for intramedullary gamma nail" No. 36438.
- 20. "Intramedullary locking nail for the treatment of long bone fractures" No. 36481.
- 21. "Method for restoration of the Achilles tendon with an intra-trunk four-row ligature in case of fresh injuries" No. 36520.
- 22. "Hybrid implant for two-level cervical spondylodesis in degenerative diseases of the cervical spine" No. 36521.
- 23. "Method for obtaining medicinal plant materials from autumn wormwood (Artemisia serotina Bunge)" No.9755
- 24. "Method for obtaining carbon dioxide extract from the aerial part of Dendrostellera stachyoides." No.8724
- 25. "Nasal antiviral cream" No.8488.
- 26. "Nasal antiviral cream." No.8372

The number of Kazakhstani patents received by the Kazakh National Medical University in 2024

- 1. "A method for determining genetic predisposition to epilepsy in individuals of Kazakh ethnicity" No. 37038
- 2. "A method for determining genetic predisposition to bronchial asthma in individuals of Kazakh ethnicity" 36840
- 3. "A method for determining genetic predisposition to atopic dermatitis in individuals of the Kazakh ethnic group" No. 36839
- 4. "A method for determining genetic predisposition to myocardial infarction in individuals of Kazakh ethnicity" No. 36838
- 5. "A method for determining genetic predisposition to idiopathic osteoarthritis in individuals of Kazakh ethnicity" No. 36837
- 6. "A method for determining genetic predisposition to idiopathic scoliosis in individuals of Kazakh ethnicity" No. 36836
- 7. "A method for determining genetic predisposition to liver cirrhosis in individuals of Kazakh ethnicity" No. 36835
- 8. "A method for determining genetic predisposition to schizophrenia in individuals of Kazakh ethnicity" No. 36834
- 9. "The compound 1-benzyl-4-(n-fluoro-benzoyloxyimino) piperidine hydrochloride, possessing antimicrobial activity" No. 9482
- 10. "The compound 1-(2-phenylethyl)-4-(o-fluorobenzoyloxy)piperidine hydrochloride, possessing antimicrobial activity" No. 9480
- 11. "Cream with antioxidant action" No. 9487
- 12. "Method for Obtaining the Enzyme Cephalosporinase" No. 9147
- 13. "SKIN ADHESIVE COMPOSITION WITH ROSE HIP OIL EXTRACT" No. 9012
- 14. Antiparasitic composition No. 9486
- 15. "Method for the production of a functional-purpose curd product" No. 9503
- 16. "Antiseptic composition with a plant-based pharmaceutical substance" No. 37112
- 17. "Method for the treatment of varicose veins of the lower extremities at stages C3-C4" No. 37047
- 18. "A method for transforming spleen parenchyma into tissue that functions as liver parenchyma in an experiment" No. 36697
- 19. "Cosmetic composition with antioxidant and moisturizing properties" No. 9980
- 20. "Method for Obtaining a Liquid Extract of Asian Mint Herb Mentha Asiatica Boriss" No. 9815

- 21. "Method for Obtaining a Plant Extract from the Grass of Hedysarum Semenowii (Regel & Herder)" No. 9815
- 22. "Method for preparing medicinal plant materials from autumn wormwood Artemisia serotina Bunge" No. 9755
- 23. "Cream with antioxidant and brightening properties" No. 9740
- 24. "Method for tracking the position of rats in radial maze tests" No. 9611
- 25. "Composition of temporary filling paste" No. 9520
- 26. "Method for Obtaining a Spray Based on an Extract of Limonium gmelinii willd" No. 9210

The number of Kazakhstani patents received by the Kazakh National Medical University in 2024

1. Eurasian Patent No. 202390726 "Method for obtaining a plant extract with cardioprotective action".